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December 12, 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 Second Injection Completion Report, Blocks G and I
Lockheed Martin Corporation; Middle River Complex
2323 Eastern Boulevard, Middle River, Baltimore County, Maryland

Dear Mr. Carroll:

For your review please find enclosed two hard copies with a CD of the above-referenced document. This report describes the activities and results associated with the second groundwater injection events at Blocks G and I of the Lockheed Martin Middle River Complex in Middle River, Maryland. If possible, we respectfully request to receive MDE's comments by February 8, 2017.

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

Sincerely,

A handwritten signature in cursive script that reads "Lynnette Drake".

Lynnette Drake
Remediation Analyst, Environmental Remediation

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Second Injection Completion Report, Blocks G and I, Lockheed Martin Middle River Complex 2323 Eastern Boulevard Middle River, Maryland

Prepared for:

Lockheed Martin Corporation

Prepared by:

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December 2016



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ACRONYMS AND ABBREVIATIONS

CB	catch basin
<i>cis</i> -1,2-DCE	<i>cis</i> -1,2-dichloroethene
DHC	<i>Dehalococcoides ethenogenes</i>
DO	dissolved oxygen
GAC	granular activated-carbon
g/L	gram(s) per liter
gpm	gallon(s) per minute
IW	injection well
lbs	pounds
Lockheed Martin	Lockheed Martin Corporation
LMC	Lockheed Martin Corporation
MDE	Maryland Department of the Environment
µg/L	microgram(s) per liter
mg/L	milligram(s) per liter
mL	milliliter(s)
mL/min	milliliter(s) per minute
MRC	Middle River Complex
mV	millivolt(s)
NMW	new monitoring well
O&M	operations and maintenance
ORP	oxidation-reduction potential
TCE	trichloroethene
Tetra Tech	Tetra Tech, Inc.
TOC	total organic carbon
UST	underground storage tank
VC	vinyl chloride
VOC	volatile organic compound

Section 1

Introduction

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc. (Tetra Tech) has prepared this report describing the activities and results associated with the second groundwater injection events at Blocks G and I of the Lockheed Martin Middle River Complex (MRC) in Middle River, Maryland. This report also makes recommendations for the path forward at these locations.

1.1 SITE LOCATION AND BACKGROUND

The Middle River Complex is at 2323 Eastern Boulevard in Middle River, Maryland (Figure 1-1). It consists of multiple land parcels designated as tax blocks (Figure 1-2, referred to as blocks herein), all owned by LMC Properties, Inc., a subsidiary of Lockheed Martin. Block I contains currently operating facilities; surrounding Block I are the external Blocks A, B, D, E, F, G, and H. Some of these external blocks are used by Lockheed Martin Corporation for offices and parking, while others are leased by tenants for parking or operations.

The groundwater response action at the Middle River Complex site is described in the *Groundwater Response Action Plan* (Tetra Tech, Inc. [Tetra Tech], 2012) and in the *Groundwater Response Action 100% Design-Basis Report* (Tetra Tech, 2013). This response action is being conducted in accordance with the “Administrative Consent Order and Settlement Agreement” ACO-SAR-MDE0746-2015-1-01 between the Maryland Department of the Environment (MDE) and Lockheed Martin Corporation. The groundwater response action includes enhanced anaerobic-bioremediation in three areas with high groundwater concentrations of trichloroethene (TCE): the southeastern trichloroethene area (Block E), the southwestern trichloroethene area (Block G), and the northern trichloroethene area (Block I). These three areas are shown on Figure 1-3. Note that the trichloroethene plumes shown on Figure 1-3 are shown as they appear in the *Groundwater Response Action Plan*.

Semi-permanent injection wells were installed at the Middle River Complex to inject biological amendments into the subsurface; these wells are arranged in rows and connected via underground

piping to injection equipment in each of the three trichloroethene areas. The injection equipment and controls are housed in two modified shipping containers (i.e., the equipment modules). The system allows flexibility for selecting and setting system parameters (e.g., the number of operational injection wells; substrate type and dosage; and injection rates, volumes, and durations).

A tracer study was performed at Blocks G and I (May–July 2014) before a full-scale injection to evaluate injection effects and determine injection parameters for the full-scale injection (Tetra Tech, 2014). The first injection event was performed in Blocks G and I from February 2015–June 2015 (Tetra Tech, 2015). Injection in Block E has been delayed by the need to address a trichloroethene source associated with an underground storage tank found in the injection area; injection in Block E will begin later and is not described in this document. The general operational procedures and details of system operation are in the *Operation and Maintenance Plan for Groundwater Remediation System* (Tetra Tech, 2014).

1.2 PURPOSE AND ORGANIZATION

This report describes the second full-scale injections at Block G and I at the Middle River Complex between September 2015 and February 2016, presents and discusses the results of the injections, and outlines recommendations for the path forward at each Block. This report is organized as follows:

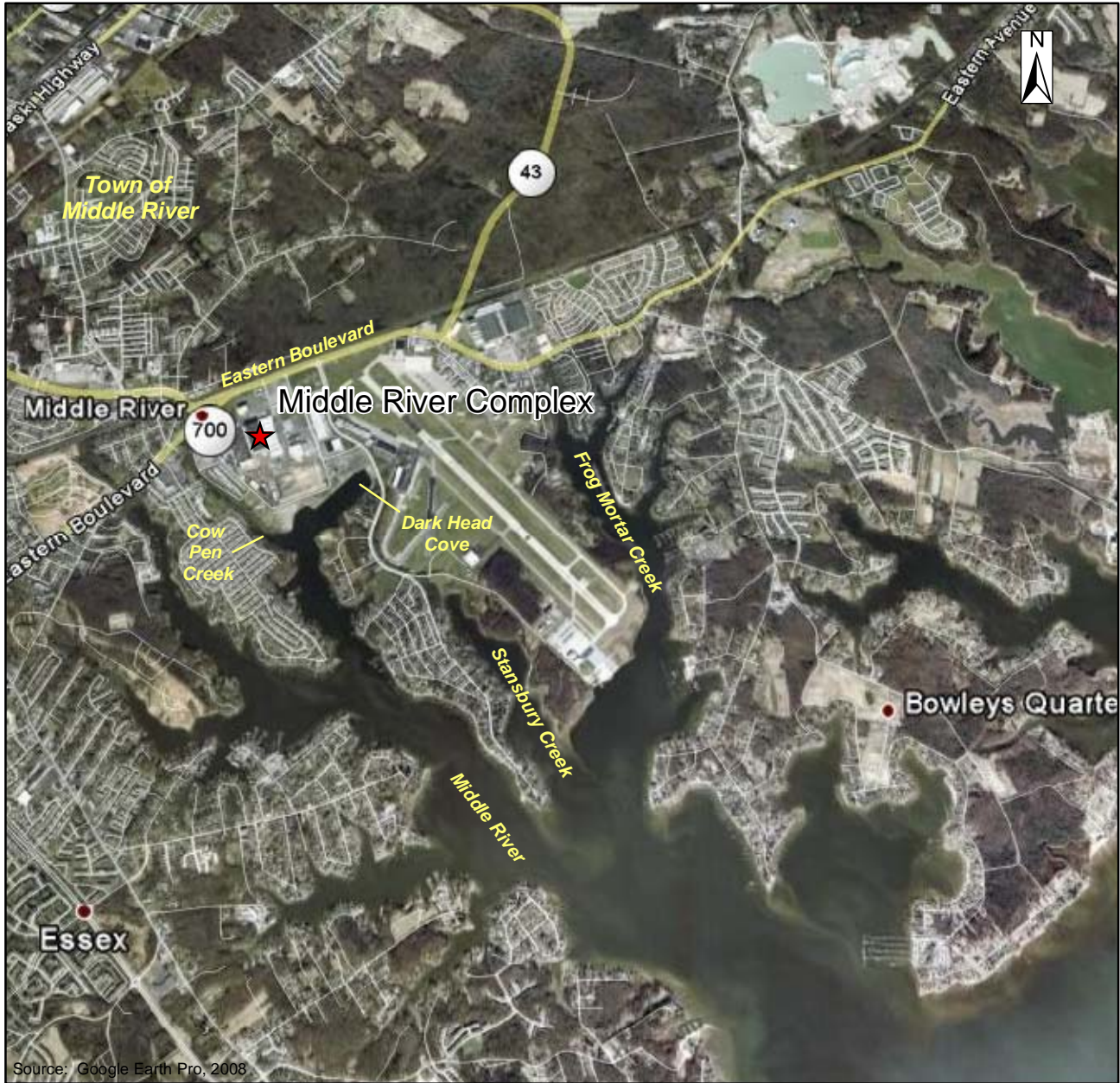
Section 2—General Approach and Methodology: Presents steps taken to complete injections in Blocks G and I.

Section 3—Performance Evaluation: Discusses the results of the injections and performance sampling and the conclusions that can be drawn from these results.

Section 4—Recommendations for Path Forward: Discusses the next steps recommended for Blocks G and I.

Section 5—Reporting: Discusses the upcoming design report for the modified injections in Block I.

Section 6—References: Provides a list of the references used to compile this report.



Source: Google Earth Pro, 2008

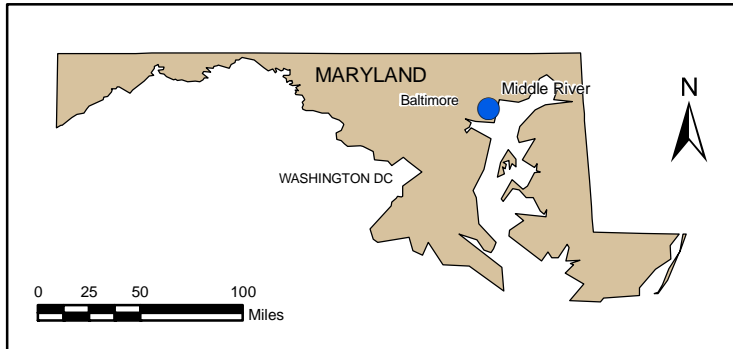


Figure 1-1

**Middle River Complex
 Location Map**

*Lockheed Martin Middle River Complex
 Middle River, Maryland*

DATE MODIFIED:	12/15/08	CREATED BY:	BJ
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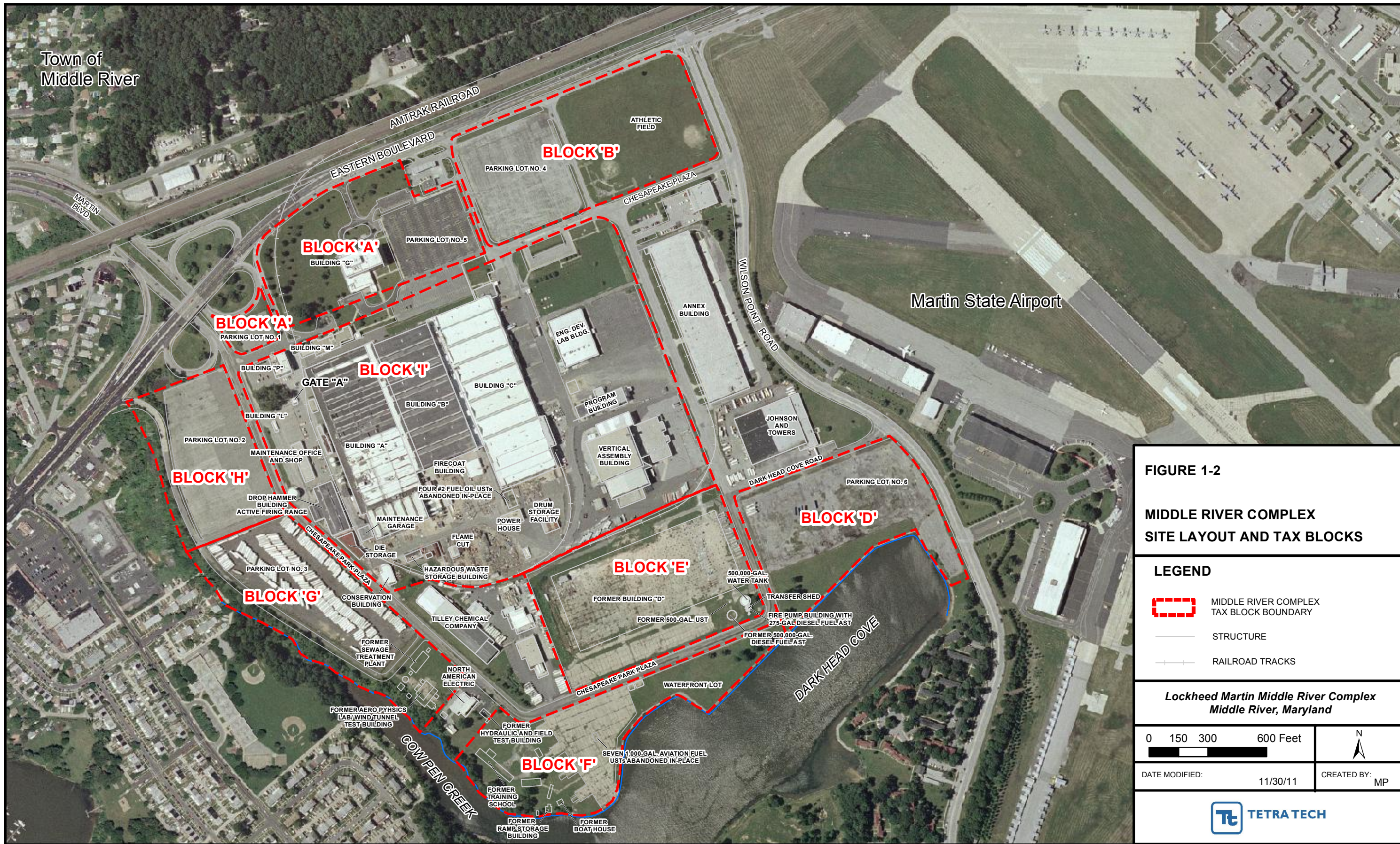





FIGURE 1-2



MIDDLE RIVER COMPLEX

SITE LAYOUT AND TAX BLOCKS


LEGEND

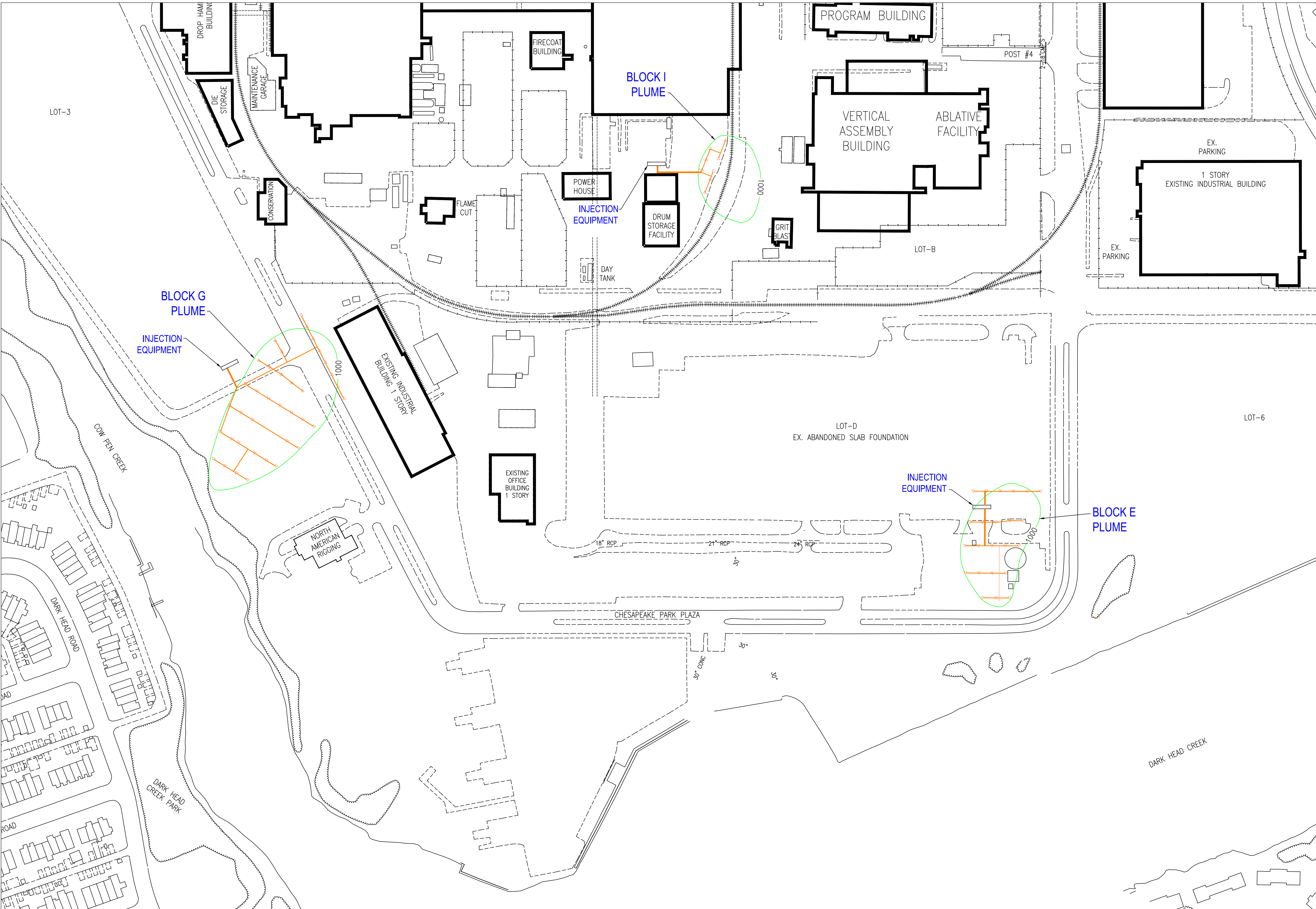
-  MIDDLE RIVER COMPLEX TAX BLOCK BOUNDARY
-  STRUCTURE
-  RAILROAD TRACKS

Lockheed Martin Middle River Complex
Middle River, Maryland

0	150	300	600 Feet	N 
				

DATE MODIFIED:	11/30/11	CREATED BY:	MP
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 **TETRA TECH**



LEGEND

- PIPING BUNDLE
- ▲ INJECTION WELL
- PIPING TO INJECTION WELLS
- 1000 1000 ug/L TCE CONTOUR BASED ON 2012 GW RAP

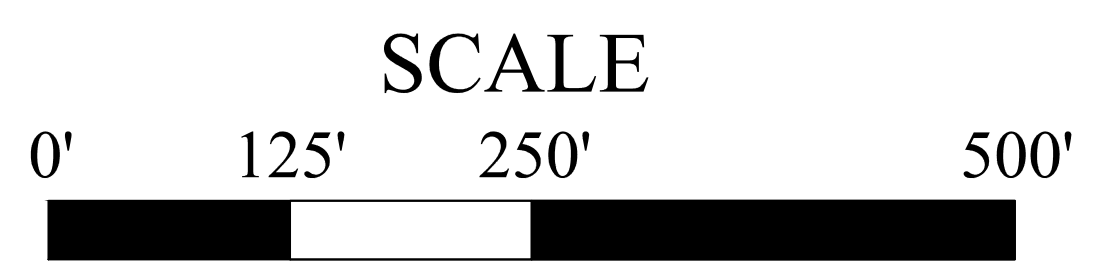
BASE MAP: BASED ON DRAWING PREPARED BY TAI CONSULTING ENGINEERS, INC.

TOPOGRAPHY: TOPOGRAPHY WITHIN AREA OF DISTURBANCE FROM FIELD RUN SURVEY CONDUCTED BY DMW, INC. IN JUNE 1999 FLOATED TO STATE GRID.

HORIZONTAL INFORMATION OUTSIDE OF LIMIT OF DISTURBANCE FROM BALTIMORE COUNTY OFFICE OF INFORMATION TECHNOLOGY GIS SERVICES UNIT. DATE OF CAPTURE: MARCH 1995

EXISTING UTILITIES: FIELD INFORMATION OBTAINED FROM DMW FIELD RUN SURVEY AND LOCKHEED MARTIN ENTITLED "EXHIBIT #6 EXISTING UTILITIES PLAN."

BOUNDARY LINES: BOUNDARY INFORMATION TAKEN FROM RECORDED PLAT E.H.K., JR. 51 FOLIO 43 "1ST AMENDED CHESAPEAKE PARK RE-SUBDIVISION" PREPARED BY MARYLAND SURVEYING AND ENGINEERING CO., INC. 4/24/84. BOUNDARY HAS BEEN ORIENTED TO THE BALTIMORE COUNTY METROPOLITAN DISTRICT GRID, BUT SHOULD NOT BE CONSIDERED A BOUNDARY SURVEY.



MRC GROUNDWATER REMEDY LAYOUT

LOCKHEED MARTIN MIDDLE RIVER COMPLEX
MIDDLE RIVER, MARYLAND

DATE:	9-29-2015
PROJECT NO.:	
DESIGNED BY:	BD
DRAWN BY:	BD
CHECKED BY:	CP

FIGURE 1-3

Section 2

General Approach and Methodology

The groundwater remediation systems at Blocks G and I are comprised of injection-equipment modules connected to injection-well arrays. In each block, a low concentration amendment solution consisting of sodium lactate (substrate) diluted in treated, pH-adjusted, potable water was injected into the well array. The amendment solution was prepared according to the following process:

- The equipment modules were connected to potable water via a water supply line with sufficient pressure.
- Potable water was passed through a particulate filter and granular activated-carbon (GAC) vessel to remove suspended solids, residual chlorine disinfectant, and other impurities.
- The water stream was then directed to a semi-permeable, hollow-membrane contactor that removed dissolved oxygen.
- Substrate and pH buffering solution were dosed into the treated water and mixed. Additional buffer was added directly to the injection wells, as described in Section 3.
- The injection solution was directed to the injection manifold, where it was injected into individual injection wells via dedicated lines.

The process equipment used included a GAC vessel, a filter for particulates, a dissolved-oxygen removal contactor, a vacuum pump, metering pumps and storage tanks for substrate and pH buffering solution, mechanical and electronic flow meters and totalizers, control valves, process instrumentation, and controls. Process equipment and electrical components (such as the distribution manifold, flow meter, process piping, hollow-membrane cartridge, and other lightweight instrumentation) are mounted on the container sidewalls. Heavier equipment is secured to the module floor.

Untreated water enters the equipment enclosure from a pressurized domestic-water line. In Block G, the source of this water is the water main beneath Chesapeake Park Plaza; in Block I, the

source is the nearby boiler building. The water stream is first treated by a GAC vessel to remove residual chlorine. Dissolved oxygen is then removed by a membrane contactor and inlet particulate filter.

Amendment solution is directly introduced into the treated stream effluent before it reaches the distribution manifold for the injection wells. A buffering solution of sodium bicarbonate is then used to adjust pH; it was added both at the manifold and directly into the injection wells. The amendment solution was then directed to the 10-branch piping manifold, where it was directed to individual injection wells.

Bioaugmentation was also performed in Block G by adding specific bacterial cultures; details are in Section 3.1.1. Refer to the *Groundwater Response Action 100% Design-Basis Report* (Tetra Tech, 2013) for groundwater-remediation-system design details. The startup, shutdown, and operation and maintenance (O&M) procedures followed during the second injection event at Blocks G and I are in the *Operation and Maintenance Plan for the Groundwater Remediation System at Lockheed Martin Middle River Complex* (Tetra Tech, 2014).

Section 3

Performance Evaluation

The second injection event at the Middle River Complex (MRC) began on September 4, 2015 and concluded on February 3, 2016. Thirty-nine injection wells were used in Block G, and eight injection wells were used in Block I. Refer to the *Groundwater Response Action 100% Design-Basis Report* (Tetra Tech, 2013) for injection well construction details and screened interval depths.

Performance was monitored as described in Section 5 of the *First Injection-Event Completion Report* (Tetra Tech, 2015). Monitoring wells were sampled before and after the injection, and additional total organic carbon (TOC) samples were taken from nearby utility locations. Remedy implementation and its performance evaluation followed the design objectives established in the design-basis report (Tetra Tech, 2013), and the remedy-performance results and recommendations summarized in the *First Injection-Completion Report* (Tetra Tech, 2015). Laboratory results are in Appendix A; field logs are in Appendix B.

3.1 BLOCK G

The second injection at Block G began on September 4, 2015 and concluded February 3, 2016. The injected-nutrient substrate was sodium lactate. Bioaugmentation with dechlorinating bacteria cultures was done at the beginning of the second injection.

3.1.1 Bioaugmentation Procedure

The results of the first injection (Tetra Tech, 2015) indicate that a native *dehalococcoides spp.* (DHC) bacteria population capable of complete degradation of trichloroethene (TCE) to ethene was largely absent in Block G. Therefore, bioaugmentation with DHC cultures was performed to aid TCE degradation. The DHC cultures used at Block G were KB-1[®], produced by SiREM, and the volume injected was based upon the manufacturer's recommendation: approximately 1:40,000 ratio of KB-1[®] volume to pore volume. Based on the pore volume within the 1,000 microgram per liter (µg/L) TCE contour (Tetra Tech, 2013), 240 liters of KB-1[®] cultures were used.

In the last week of August 2015 (before the injection began), all injection wells in Block G were developed using high-pressure jetting and a mobile in-well pump to remove biological fouling and particulate matter from the well screens. Anaerobic chase water was then prepared and used to push the KB-1[®] cultures into the injection wells, and subsequently into the formation. Using chase water with the proper parameters is essential, because the KB-1[®] cultures require anaerobic conditions and near-neutral pH to proliferate and survive. The goals for anaerobic chase water were as follows: oxidation reduction potential (ORP) < -100 millivolts (mV); dissolved oxygen (DO) <0.25 milligrams per liter (mg/L); and pH >6.8. The anaerobic chase water was prepared as follows:

- Approximately 20,000 gallons of potable water were deoxygenated and treated by activated carbon to remove suspended solids, residual chlorine disinfectant, and other impurities; this volume was placed in a frac tank near the equipment container at Block G.
- Twenty-five gallons of sodium lactate and 50 pounds of sodium bicarbonate were added to frac tank while the tank was being filled.
- The headspace of the frac tank was filled with argon gas to prevent contact with atmospheric oxygen.
- Frac-tank-water parameters were measured one week later, and results were as follows: pH=6.96, DO=0.03 mg/L, and ORP= -174 mV. These results indicate that chase water with anaerobic properties was successfully created.

A dedicated injection pump (with associated control valves and the temporary lines to convey the anaerobic chase-water from the frac tank to the injection manifold) was installed. The injection pump (Cole Parmer part #EW-72012-10, 4.6 gallon per minute [gpm] flow at 36 feet of discharge, 115 VAC, polypropylene, centrifugal, magnetic-drive) was wired such that all injection-system safety interlocks were enabled for automatic operation. A dedicated flow totalizer was installed on the pump's discharge to measure the volume and rate of injected chase-water.

The following procedure introduced KB-1[®] cultures at Block G:

- 1) Approximately 500 gallons of amendment solution (containing sodium lactate substrate and sodium bicarbonate) were injected into each well before bioaugmentation to replenish the substrate in the formation, and to ensure that proper pH was maintained. Amendment was injected into a set of 10 wells for two to three days. This process was repeated with another set of wells, until all wells had received the amended solution. This process began on September 4, 2015 and continued for approximately 10 days.

-
- 2) On September 16, 2015, the injection manifold was connected to the first set of 10 injection wells (IWW-9, -14, -16, -24, -25, -26, -28, -32, -35, and -36). Injection lines and well casings were flushed with anaerobic chase water for two hours before introducing the KB-1[®] cultures injection.
 - 3) KB-1[®] cultures were transferred from their vendor-supplied vessels to the injection manifold as a side stream while the chase water from the frac tank was injected into the first set of wells on September 16, 2015. The chase-water injection rate was maintained at approximately 1.5 to 1.8 gpm (0.15–0.16 gpm per well) while KB-1[®] cultures were transferred. The KB-1[®] transfer procedure was done according to the vendor's standard operating procedure. Approximately six liters of KB-1[®] cultures were injected per injection well, for a total of 240 liters.
 - 4) Anaerobic chase-water injection continued for two more days, until approximately 400–500 gallons had been injected in each well.
 - 5) On September 18, 2015, the injection manifold was configured to connect the second set of 10 injection wells (IWW-1, -3, -5, -15, -19, -22, -27, -31, -33, and -38), and steps 2 through 4 (above) were repeated.
 - 6) On September 21, 2015, the injection manifold was configured to connect the third set of 10 injection wells (IWW-2, -4, -7, -10, -12, -18, -21, -29, -34, and -39), and steps 2 through 4 were (above) were repeated.
 - 7) On September 23, 2015 the injection manifold was configured to connect the fourth set of 10 injection wells (IWW-11, -13, -14, -16, -17, -20, -23, -24, -26, and -32), and steps 2 through 4 (above) were repeated. The chase-water injection into the fourth set of wells was finished on September 25, 2015.

The remaining balance of the amendment was injected following procedures similar to those used in the first injection. Injection-process parameters are described in the following section.

3.1.2 Injection Process

On September 28, 2015, the injection manifold was configured to connect the first set of 10 injection wells (IWW-9, -14, -16, -24, -25, -26, -28, -32, -35, and -36). The injection was changed from the chase-water configuration to a normal configuration, and treated potable water was used to deliver substrate (sodium lactate) and pH buffer (sodium bicarbonate) to the injection wells. Similar to the first injection, amendment was injected into sets of 10 injection wells. Injection duration for each set of 10 wells was approximately 30 days.

Thirty-seven injection wells were used during the injection sequence. Two injection wells (IWW-30 and IWW-37) were not used for injection due to mechanical problems or damage. Table 3-1 lists the injection wells comprising each set, and the activities associated with each set of wells. Block G injection wells and piping runs are shown on Figure 3-1.

The injection wells received a total volume of 178,400 gallons of amendment solution. On average, each well received approximately 4,830 gallons of amendment, a volume slightly above the design goal of 4,800 gallons per well. Approximately 7,370 pounds of sodium lactate substrate (as pure ingredient) and 2,635 pounds of sodium bicarbonate were injected, both in the amendment solution and via direct placement of the sodium bicarbonate in the injection wells.

Direct placement effectively eliminated manifold clogging issues; the sodium bicarbonate subsequently dissolved very effectively in the wells. The average sodium lactate concentration (as pure ingredient) was 0.50% by weight, and the average sodium bicarbonate concentration was 1.8 grams per liter (g/L). The average injected sodium lactate and sodium bicarbonate quantities per well were 200 and 72 pounds, respectively. The injection volumes, amendment dosages, and concentrations were very close to the design values calculated for Block G (see Table 3-2).

The most difficult maintenance issue encountered during injection was extensive scaling on the injection manifold. Frequent cleaning of the injection manifold was required to continue the injection. The precipitated scale was carbonate, and sodium bicarbonate likely increased the hardness of the injected solution to a pH that caused scale precipitation.

To decrease the sodium bicarbonate content in the injection (and thus reduce scale formation), approximately 25 pounds of sodium bicarbonate in powder form were added directly to each well before the injection began. The sodium bicarbonate added directly to the wells is included in the total quantities described in the paragraph above. Well-bottom soundings before and after adding sodium bicarbonate indicated that no solids accumulated on the bottom of the wells. This method of sodium bicarbonate delivery proved very effective; pH-buffering results for the second injection were considerably more successful as compared to the first injection (see Section 3.1.4 below for details).

Baseline sampling was conducted at Block G in February 2014. Three post-injection monitoring events were completed, as described below:

- March 2016—one month after the second injection was complete
- May 2016—three months after the second injection was complete
- July 2016—six months after the second injection was complete

Baseline and post-injection parameters evaluated at Block G include: total organic carbon (TOC), ORP, DO, pH, volatile organic compounds (VOCs), and the presence of dechlorinating bacteria (DHC).

3.1.3 Substrate Distribution (as TOC)

Changes in TOC concentrations provide a measure of the effectiveness of the distribution of the substrate at the site. An increased TOC concentration indicates substrate presence. Baseline and post-injection sampling results for TOC at Block G are in Table 3-3. The performance goal specified in the 100% design-basis report is for 50–75% of the active TCE treatment areas to have TOC concentrations greater than 100 mg/L following the injection. This goal was met, and exceeded, for most monitoring locations within the injection area (Table 3-3).

On average, the TOC concentration increased from 4.1 mg/L (baseline) to 499 mg/L in the first monitoring event. The TOC content gradually decreased as the organic carbon was consumed by microorganisms. However, even six months after the second injection was complete (during the third monitoring event), the average TOC within the injection area was 91 mg/L. Note that monitoring well MW-12B is outside of the injection area, and thus was not used to average TOC.

Shallow well SWMW-4S did not show a clear increase in TOC during the first monitoring event. However, a clear increase in TOC was indicated at this location during the second monitoring event, although at levels considerably lower than those detected in nearby wells screened at the target intermediate interval (15–30 feet). This lower concentration is likely due to a shallow, low-permeability layer that partially prevented the injected substrate from travelling upwards. Overall, TOC monitoring results indicate that the second injection achieved a good substrate distribution within the injection area.

TOC sampling in utilities—The Block G outfall is the only utility sampled in Block G; results are in Table 3-3. Analytical results from the Block G outfall indicate that the TOC concentrations were below the baseline level (February 2014) and lower than the level detected after the first injection (June 2014). No visible changes in surface water quality were noted at the Block G outfall discharge point.

3.1.4 ORP, DO, and pH Measurements

ORP and DO measurements indicate subsurface conditions at the site, namely the tendency of a chemical species to be reduced. Reducing, anaerobic conditions must exist to support biological degradation of TCE. ORP and DO measurements for Block G (Table 3-4) demonstrate that a clear shift from a generally aerobic environment to an intense anaerobic environment has occurred. After the first injection, the average ORP decreased to -80 mV, and then decreased further after the second injection. Reducing conditions (ORP <0) were at all locations within the injection area after the second injection, as compared to the average ORP at baseline (February 2014) of $+50$ millivolt (mV). Note that reducing conditions were maintained for the entire monitoring period (six months) after the second injection (Table 3-4).

Monitoring well MW-12B, outside and downgradient of the injection area, demonstrated moderate reducing conditions after the injection. The ORP performance goal specified in the design-basis report was for 50–75% of the active TCE treatment areas to have an ORP less than -50 mV following the injection. This goal was met, and exceeded, for all monitoring locations within the injection area. The DO performance goal specified in the design-basis report was for 50–75% of the active TCE treatment areas to have DO less than 0.5 mg/L following the injection. This goal was also met, and exceeded, for all monitoring locations within the injection area.

Substrate injections generally decrease pH due to the build-up of organic acids from fermentation of the electron donors. Field measurements of pH greater than 6.5 indicate that the subsurface has reached optimal conditions for DHC culture proliferation and subsequent contaminant reduction. Buffering with sodium bicarbonate mitigated and partially reversed acidification that had occurred from substrate injection.

The field measurements for pH in Block G (Table 3-5) demonstrate that pH values increased at all locations following the second injection. In general, pH values were close to the optimum level for DHC cultures (pH ≥ 6.8) at most locations. The performance goal specified in the design-basis report was for 50–75% of the active TCE treatment areas to have pH measurements greater than 6.8 following the injection. After the second injection, this goal was met during the first two performance monitoring events, and was very close to the goal for the third monitoring event (Table 3-5). Note that the first injection failed to achieve the pH performance goal. Overall, ORP, DO, and pH monitoring results indicate that the second injection at Block G achieved and maintained anaerobic conditions favorable for reductive dechlorination and favorable for

proliferation of DHC cultures. Therefore, as indicated by pH measurements, the increased quantity of buffering used during the second injection at Block G was likely warranted, and achieved the intended results.

3.1.5 DHC Sampling Results

The DHC sampling described in this section and summarized in Table 3-6 included sampling for *Dehalococcoides* and the following functional genes: *tceA* gene, *bvcA* gene, and *vcrA* gene. The *tceA* gene encodes the enzyme responsible for the reductive dechlorination of TCE to *cis*-1,2-dichloroethene (*cis*-1,2-DCE) in some strains of DHC. Absence of *tceA* does not preclude reductive dechlorination of TCE in the field, because the *tceA* gene is not universally distributed among all DHC, and is not present in other microorganisms capable of reductive dechlorination of TCE (e.g., *Dehalobacter*). Detection of the *tceA* gene provides an additional line of evidence indicating potential dechlorination of TCE.

The *vcrA* gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of *cis*-1,2-DCE and vinyl chloride by DHC *sp.* strain VS. The presence of the *vcrA* gene indicates the potential for reductive dechlorination of DCE and/or VC to ethane. The *bvcA* gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of vinyl chloride to ethene by *Dehalococcoides* species strain BAV1. The *bvcA* gene results were reported by the laboratory (Appendix A) but are not included in Table 3-6 or in the discussion, because similar conclusions could be derived from the *vcrA* gene results.

Baseline DHC sampling in February 2014 indicated that the bacterial species (DHC and functional genes) capable of complete dechlorination of TCE were not present in sufficient quantities in Block G (Table 3-6). DHC samples were not collected at Block G after the first injection. However, VOC trends after the first injection (TCE degradation stopped at *cis*-1,2-DCE) indicate that these bacterial species were not present in sufficient numbers at Block G. Therefore, bioaugmentation with DHC cultures was performed at the beginning of the second injection.

DHC sampling results indicate that the concentration of DHC and functional genes increased by several orders of magnitude after bioaugmentation (Table 3-6). In most locations, DHC concentrations remained at high levels throughout the entire six-month monitoring period. The performance goal specified in the design-basis report is 10,000 cells per liter or greater of DHC. This goal was met for all sampling locations within the injection area and for all three monitoring

events after the second injection. The overall results indicate that the bioaugmentation procedures developed and implemented for Block G were successful, and could be used as a model for other areas at the MRC.

Ethene concentrations in Block G after the second injection are in Table 3-6. The detected ethene levels were above 50 µg/L in three locations (SWMW-1I, SWMW-1I, and MW-14B). Three other locations within the active injection area had ethene levels between 8–18 µg/L (SWMW-2I, SWMW-3I, and SWMW-3I). The detected ethene levels provide evidence that a complete degradation of TCE in Block G is occurring.

3.1.6 VOC Sampling Results

The ultimate performance criteria for bioremediation are the reduction of TCE and its biodegradation products *cis*-1,2-DCE and vinyl chloride (VC). After the first injection, VOC sampling results for Block G (Table 3-7) indicated that a significant portion of TCE had been reduced to *cis*-1,2-DCE, but that a complete reduction to ethene was not proceeding. The most likely cause is that DHC microorganisms capable of completely dechlorinating TCE are not present in sufficient quantity.

Performance monitoring after the second injection (which included bioaugmentation) indicates that significant reductions occurred in both TCE and its daughter products. Average TCE concentrations within the injection area were reduced by 99% (i.e., from 1,095 µg/L to 9 µg/L), and average VOC concentrations within the injection area were reduced by 94% (i.e., from 1,192 µg/L to 72 µg/L) during the third monitoring event in July 2016. The highest VC concentration during this sampling event was 15 µg/L. Note that both TCE and VOC concentrations continued to decline during the six-month performance-monitoring period. The performance goal for the MRC response action, as specified in the design-basis report, was to reduce TCE mass in active remediation areas by 70%. This goal was comfortably met for both TCE and its daughter products in Block G;

3.1.7 Summary and Conclusions

The second injection at Block G met all performance goals set in the *Groundwater Response Action 100% Design-Basis Report* (Tetra Tech, 2013). Substrate was effectively distributed throughout the subsurface, as indicated by the increased TOC concentrations at the monitoring wells following the injection. A reducing environment was created, in which the ORP was

sufficiently negative (mostly below -100 mV) and DO concentrations were less than 0.5 mg/L. Sodium bicarbonate pH buffering was sufficiently effective to raise the pH to meet the design goal in most locations. In addition, the bacterial species capable of completely dechlorinating TCE was successfully introduced and distributed in sufficient quantities in Block G, resulting in a near complete TCE reduction that generated low levels of *cis*-1,2-DCE and VC. Thus, the performance goal for reduction of TCE and its daughter-products was met and exceeded.

These observations lead us to recommend suspending further injections at Block G, while continuing to monitor groundwater annually. The next sampling events will be in April/May 2017 and April/May 2018, simultaneously with annual sampling at the MRC site. If the annual sampling results determine no significant VOC rebound, Lockheed Martin will then petition the Maryland Department of the Environment (MDE) for “No-Further-Action” status for Block G. Additional injections could be recommended if TCE and VOC rebound is detected.

3.2 BLOCK I

The second injection at Block I began October 5, 2015, and concluded on December 22, 2015. Injection was halted from October 19, 2015 to November 4, 2015 to reduce preferential channeling into underground utilities. The injection was interrupted again from November 10, 2015 to December 9, 2015 to clean the injection manifold. All eight injection wells in Block I were used simultaneously for injection; the general layout is shown on Figure 3-2.

All injection wells received flow; a total volume of 39,300 gallons was injected into the subsurface. On average, each well received approximately 4,900 gallons of amendment solution, a volume close to the design goal of 5,030 gallons per well. Nearly 1,470 pounds of sodium lactate substrate (as pure ingredient) and 510 pounds of sodium bicarbonate were injected.

The average lactate concentration (as pure ingredient) was 0.45% by weight, and the average sodium bicarbonate concentration was 1.56 grams per liter (g/L). The average injected sodium lactate and sodium bicarbonate quantities per well were 184 pounds and 64 pounds, respectively. Injection volumes, amendment dosages, and concentrations were very close to Block I design values (see Table 3-8). Bioaugmentation was not performed in Block I in either injection.

Baseline sampling was conducted at Block I in February 2014, and three post-injection monitoring events were completed, as described below:

-
- March 2016—one month after second injection
 - May 2016—three months after second injection
 - July 2016—six months after second injection

Post-injection parameters evaluated at Block I include: TOC, ORP, DO, pH, VOCs, and DHC.

3.2.1 Substrate Distribution (as TOC)

Table 3-9 includes baseline and post-injection sampling results for TOC at Block I. The results demonstrate that the desired substrate distribution was generally not achieved at Block I. The maximum TOC levels were detected at two locations (30 mg/L at MW-81B and 31 mg/L at NMW-11) one month after injection ended, during the first monitoring event (March 2016). Average TOC levels detected during the second and third monitoring events were 4.8 mg/L and 3.7 mg/L, respectively (Table 3-9). The design-basis report performance goal for TOC is for 50–75% of the active TCE treatment areas to have TOC concentrations greater than 100 mg/L. This goal was not met for any monitoring locations after the second injection.

TOC concentrations indicate that the substrate distribution achieved by the second injection was similar to, or slightly worse than, that achieved by the first injection. Better substrate distribution near well MW-81B was achieved during the first injection: the maximum TOC value was 95 mg/L after first injection, as compared to 30 mg/L after second injection. In general, the TOC levels after the first and second injections are similar.

The substrate distribution achieved at Block I does not support bioremediation throughout the entire treatment area. To improve substrate distribution, we propose modifying the substrate delivery procedure for the third injection by including a groundwater pumping component. More details are in Section 4.2 below.

TOC sampling in utilities—Three utility locations in Block I are part of the stormwater collection system. All three were sampled for TOC on December 16, 2015. These locations include catch basins (CB) MH-10 and CB-10, and Block I Outfall 009. Analytical results from these locations indicate that December 2016 TOC concentrations were at baseline levels or slightly above baseline levels (Table 3-9).

One utility location (Outfall 009) was sampled during all three post-injection sampling events. Analytical sampling results indicate that TOC concentrations at this location were at baseline, or

slightly below baseline levels (Table 3-9). No visible changes in the surface water quality at the point of the Block I Outfall-9 discharge were noticed.

Table 3-9 also includes TOC concentrations in the utilities after the first injection. In general, TOC detections in utilities were similar after the first and second injections. However, the TOC concentration of 16 mg/L detected in MH-10 in May 2015 (one month after first injection) was clearly above baseline levels. Why TOC detection in MH-10 was higher during the first injection is unclear, as the main injection parameters (such as injection rates, pressure, and volumes) were similar. However, the second injection had more pauses in injection, and this could contribute to different injection pathways during the second injection.

3.2.2 ORP, DO, and pH Measurements

Table 3-10 includes the ORP and DO measurements for Block I. Baseline conditions throughout Block I were mildly to moderately reducing before the injections. ORP data for all three monitoring events after the second injection indicate that two of five monitoring wells (MW-81B and NMW-3I) were under strongly anaerobic conditions. The low ORP readings in these two wells correspond with the highest observed TOC concentrations within Block I (see Table 3-9).

Another location indicating consistent anaerobic conditions was shallow well NMW-2S. TOC at this location was also detected above typical background levels (Table 3-9). What is not clear is whether the elevated TOC here is related to the substrate injection, or is a result of the typically higher TOC content in shallow groundwater.

ORP measurements in wells NMW-1I and NMW-2I indicate that conditions became mildly aerobic at the end of the six-month monitoring period. The ORP performance goal from the design-basis report was for 50–75% of the active TCE treatment areas to have ORP measurements less than –50 mV. This goal was met in Block I during all three post-injection monitoring events. Conditions were generally more anaerobic after the second injection, as compared to the first injection (Table 3-10). Even though substrate distribution is insufficient, the substrate injections are shifting the groundwater chemistry in Block I toward more anaerobic conditions.

In general, the DO field measurements are less conclusive compared to the ORP data. For example, DO at MW-81B (the well with the most anaerobic conditions) was above 1 mg/l during the second and third monitoring events. DO levels measured during the third post-injection monitoring event (June 2016) were all above 1 mg/L. Entrained air may have affected the DO measurements. The

DO performance goal specified in the design-basis report was for 50–75% of the active TCE treatment areas to have DO less than 0.5 mg/L following the injection. This goal was met in January 2016, but not in March 2016 and June 2016.

Field measurements of pH at Block I are in Table 3-11. Baseline pH levels (February 2014) indicate that pH levels were not favorable for DHC culture proliferation. Sodium bicarbonate buffering implemented at Block I was intended to reverse these conditions and raise the pH to more favorable levels.

pH measurements after the second injection indicate that sodium bicarbonate distribution pathways are similar to substrate distribution pathways. For example, the two locations with the highest pH values also had the highest detections of TOC (MW-81B and NMW-3I, see Tables 3-9 and 3-11). Overall, by the end of the six-month monitoring period, pH values remained below the level optimal for DHC cultures at most locations. The only location where pH was close to optimal was well MW-81B. The performance goal from the design-basis report was for 50–75% of the active TCE treatment areas to have a pH level greater than 6.8.

This goal was not met in Block I. pH levels were slightly higher at locations MW-81B and NMW-1I after the second injection, as compared to the first injection (Table 3-11), indicating that, even though the buffer distribution is insufficient, sodium bicarbonate buffering is having some effect on the groundwater chemistry in Block I. To improve pH buffer distribution in Block I, we propose to modify the fluid delivery process for the third injection by including a groundwater pumping component. Details for this approach are in Section 4.2.

3.2.3 VOC Sampling Results

VOC sampling results for Block I after the second injection are in Table 3-12. These results show that some biodegradation of TCE had occurred at most locations after the biological amendments had been injected. The most significant TCE reduction was detected one month after the second injection (Table 3-12), when the average TCE concentration was 286 µg/L, 88% lower than the February 2014 baseline level. However, TCE levels rebounded during the second and third monitoring events, with average TCE values of 507 µg/L and 1066 µg/L, respectively. Concentrations of TCE biodegradation products (*cis*-1,2-DCE and VC) increased in wells MW-81B and NMW-2I following injections, but generally returned to baseline concentrations six months following the second injection.

After the first injection, the highest level of TCE degradation was achieved in MW-81B (Table 3-12). TCE at this location was degraded almost completely (from 2,400 µg/L before injection to 10 µg/L in July 2015). However, concentrations of both TCE and its daughter products in this well rebounded six months after the second injection had been completed.

In general, VOCs trends suggest near-complete degradation of TCE to ethene is possible in some locations of Block I. However, sustained degradation in most locations is limited by insufficient substrate in the subsurface. Monitoring results after the second injection also indicate that VOC rebound has occurred.

3.2.4 DHC Sampling Results

DHC sampling at Block I, described in this section and summarized in Table 3-13, included *Dehalococcoides* and the following functional genes: *tceA* gene; *bvcA* gene, and *vcrA* gene. Refer to Section 3.1.5 for a description of functional-gene sampling. Samples for DHC were collected at MW-81B, NMW-3I, and NWW-1I.

Post-injection monitoring results for DHC in Block I indicate that DHC cultures are present at populations indicative of enhanced dechlorination activity (above 10,000 cells/mL) in two locations: MW-81B and NMW-3I. The DHC levels in NMW-3I had decreased significantly six months after the second injection was finished (results from the third monitoring event). The DHC levels in MW-81B have remained high (above 100,000 cells/mL) throughout the entire monitoring period. However, DHC levels in MW-81B have slowly declined and were at their lowest level six months after the second injection was finished (third monitoring event, Table 3-13). Overall, the DHC sampling results indicate that, although dechlorinating cultures are in some locations in Block I, insufficient substrate distribution resulting from the second injection limits the ability for sustained DHC population increases.

Ethene concentrations in Block I after the second injections are in Table 3-13. The highest ethene level (1,000 µg/L in January 2016) was detected in MW-81B. Well NMW-3I exhibited the next highest ethene levels (83 µg/L in March 2016). Well NMW-1I exhibited ethene levels below 10 µg/L. These observations confirm that the DHC population in the MW-81B area is capable of a complete degradation of TCE to ethene.

3.2.5 Summary and Conclusions

The second injection at Block I did not meet most design objectives, because sufficient distribution of the amendment fluid (substrate and sodium bicarbonate buffering solution) could not be achieved. We believe that the low permeability and heterogeneous geology in Block I prevented a more thorough distribution of injection fluid. Underground utilities in this area could also have contributed to a preferential channeling of the injected fluid.

A partial distribution of substrate was achieved; thus, the design goal of creating an environment in which the ORP was sufficiently low for reduction was met. Conditions were not optimal, however, because the substrate was not delivered to a significant portion of the injection area, and sodium bicarbonate buffering was insufficiently effective to raise pH to meet the design goal. The overall results for the second injection were similar or slightly worse as compared to the results of the first injection. To improve substrate distribution in Block I, we propose modifying substrate delivery for the third injection by including a groundwater pumping component. More details for this approach are in Section 4.2.

Table 3-1
Block G Injection Wells Sequence for Second Injection Event
Lockheed Martin Middle River Complex, Middle River, Maryland

Injection Sequence Number	Wells connected to injection manifold	Action
1	IWW-9, IWW-14, IWW-16, IWW-24, IWW-25, IWW-28, IWW-32, IWW-35, IWW-36	Connect wells for injection event #1. Activate system.
2	IWW-1, IWW-3, IWW-5, IWW-15, IWW-19, IWW-22, IWW-27, IWW-31, IWW-33, IWW-38	Deactivate system. Disconnect wells for injection event #1 and configure wells for injection event #2. Activate system.
3	IWW-11, IWW-13, IWW-14, IWW-17, IWW-20, IWW-23, IWW-24, IWW-26	Deactivate system. Disconnect wells for injection event #2 and configure wells for injection event #3. Activate system.
4	IWW-2, IWW-4, IWW-7, IWW-10, IWW-12, IWW-18, IWW-21, IWW-29, IWW-34, IWW-39	Deactivate system. Disconnect wells for injection event #3 and configure wells for injection event #4. Activate system until injection event #4 is finished.

Table 3-2
Summary of Second Injection in Block G
Lockheed Martin Middle River Complex, Middle River, Maryland

Parameter	1st Injection	2nd Injection	Units
Injection start	2/12/2015	9/4/2015	
Injection end	6/12/2015	2/3/2016	
Total injection wells	39	39	
Injection wells not used	IWW-8, IWW-30	IWW-30, IWW-37	
Injection wells actually used for injection	37	37	
Total injected volume	220,681	178,400	gallons
Average injected volume per well	6000	4830	gallons
Design injection volume per well	6400	4800	gallons
Total injected sodium lactate	9,356	7,370	pounds (as 100% active ingredients)
Total design sodium lactate	NA	7,017	pounds (as 100% active ingredients)
Average sodium lactate per well injected	253	200	pounds (as 100% active ingredients)
Average lactate concentration as injected	0.51%	0.50%	
Design lactate concentration	NA	0.50%	
Total injected sodium bicarbonate	1950	2635	pounds
Total design sodium bicarbonate	2230	2790	pounds
Average sodium bicarbonate per well	52.7	72	pounds
Design Average sodium bicarbonate per well	60.2	72	pounds
Average sodium bicarbonate as injected	1.1	1.8	gallons/Liter

Table 3-3
Total Organic Carbon Concentrations after the Second Injection in Block G
Lockheed Martin Middle River Complex, Middle River, Maryland

Well ID	Total Organic Carbon (mg/L)				
	Baseline (Feb-14)	Post 1st Injection (Jun-15)	Post 2nd Injection (March-16)	Post 2nd Injection (May-16)	Post 2nd Injection (July-16)
MW-12B	0	2.9	0.73	0	0.57
MW-12A	3.4	6	51	4.2	37
MW-14B	1.7	471	910	290	0.37
SWMW-1I	2.7	21.5	9	38	11
SWMW-2I	2.3	110	370	230	76
SWMW-3I	1.1	940	770	220	120
SWMW-4S	1.6	2.8	2.9	51	4.9
SWMW-4I	1.1	240	1300	560	330
SWMW-5I	2.9	320	580	550	150
Block G outfall	20	17	6.2	6.9	5.1
Performance goal averages (7 wells ¹)	<i>1.91</i>	301	563	277	99
<i>All wells averages</i>	<i>1.87</i>	235	444	216	81

¹MW-14B, SWMW-1I, SWMW-2I, SWMW-3I, SWMW-4I, SWMW-4S, SWMW-5I. These wells are within the active remediation areas defined in the Remedial Basis Report as within 1000 microgram per liter trichloroethene contour. Wells MW-12B and MW-12A are outside the active remediation areas and thus are not included in the performance average values calculation.

mg/L - milligrams per liter

Table 3-4
ORP and DO after the Second Injection in Block G
Lockheed Martin Middle River Complex, Middle River, Maryland

Well ID	Oxidation-Reduction Potential (mV)					Dissolved Oxygen (mg/L)				
	Baseline (Feb-14)	Post 1st Injection (Jun-15)	Post 2nd Injection (March-16)	Post 2nd Injection (May-16)	Post 2nd Injection (July-16)	Baseline (Feb-14)	Post 1st Injection (Jun-15)	Post 2nd Injection (March-16)	Post 2nd Injection (May-16)	Post 2nd Injection (July-16)
MW-12A	117	-17	-118	-83	-114	0	0	0	0	0
MW-12B	157	-42	-29	-92	-44	0.12	0	0	0	0
MW-14B	184	-132	-189	-164	-103	0	0	0	0	0
SWMW-1I	-4	-163	-135	-106	-127	0	0.49	0.94	0	0
SWMW-2I	-155	-106	-174	-171	-156	0	0	0.94	0	0
SWMW-3I	57	-99	-139	-146	-133	0	0.09	0	0	0
SWMW-4S	106	89	74	-99	-86	2	0	0	0	0
SWMW-4I	81	-124	-145	-151	-148	8.6	0	0	0	0
SWMW-5I	13	-84	-103	-115	-108	5.54	0	0	0	0
Performance goal averages (7 wells ¹)	40.29	-88	-116	-136	-123	2.3	0.1	0.3	0.0	0.0
All wells averages	54.88	-83	-105	-131	-113	2.0	0.1	0.2	0.0	0.0

¹MW-14B, SWMW-1I, SWMW-2I, SWMW-3I, SWMW-4I, SWMW-4S, SWMW-5I. These wells are within the active remediation areas defined in the Remedial Basis Report as within 1000 microgram per liter trichloroethene contour. Wells MW-12B and MW-12A are outside the active remediation areas and thus are not included in the performance average values calculation.

mg/L - milligrams per liter

mV - millivolts

Table 3-5
pH Levels after the Second Injection in Block G
Lockheed Martin Middle River Complex, Middle River, Maryland

Well ID	pH Value				
	Baseline (Feb-14)	Post 1st Injection (July-15)	Post 2nd Injection (March-16)	Post 2nd Injection (May-16)	Post 2nd Injection (July-16)
MW-12B	5.34	6.3	6.01	6.56	6.43
MW-12A	5.68	5.9	6.13	6.34	6.38
MW-14B	6.3	6.3	6.94	6.9	6.31
SWMW-1I	6.05	6.2	7.02	6.6	6.65
SWMW-2I	6.5	6.5	7.07	7.02	6.89
SWMW-3I	5.65	6.1	6.63	6.88	6.86
SWMW-4S	5.23	5.7	6	6.16	6.08
SWMW-4I	5.69	5.9	6.66	6.99	6.93
SWMW-5I	6.52	6.2	6.65	6.49	6.59
Performance goal averages (7 wells ¹)	5.99	6.13	6.71	6.72	6.62
<i>All wells averages</i>	5.88	6.12	6.57	6.66	6.57

¹MW-14B, SWMW-1I, SWMW-2I, SWMW-3I, SWMW-4I, SWMW-4S, SWMW-5I. These wells are within the active remediation areas (i.e., within 1000 micrograms per liter trichloroethene contour) defined in the Remedial Basis Report. Wells MW-12B and MW-12A are outside the active remediation areas and thus are not included in the performance average values calculation.

Table 3-6
DHC and Ethene Levels after the Second Injection in Block G
Lockheed Martin Middle River Complex, Middle River, Maryland
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Well ID	Dehalococcoides (cells/mL)				tceA Reductase (cells/mL)			
	02/11/14 Baseline	03/10/16 Post 2nd Injection	05/06/16 Post 2nd Injection	07/20/16 Post 2nd Injection	02/11/14 Baseline	03/10/16 Post 2nd Injection	05/06/16 Post 2nd Injection	07/20/16 Post 2nd Injection
MW-12B	9.00E-01	1.42E+02	NS	NS	7.00E-01	3.00E-01	NS	NS
MW-12A	2.19E+01	9.14E+04	1.85E+03	NS	1.97E+01	3.84E+02	5.80E+00	NS
MW-14B	NS	NS	7.46E+03	7.00E-01	NS	NS	7.20E+00	5.00E-01
SWMW-1I	<5.00E-01	1.72E+05	3.12E+05	3.47E+04	<5.00E-01	7.52E+02	1.26E+03	2.74E+02
SWMW-2I	<5.00E-01	1.50E+04	4.84E+04	1.66E+05	<5.00E-01	2.15E+01	1.25E+02	2.80E+02
SWMW-3I	NS	NS	NS	1.14E+04	NS	NS	NS	3.66E+01
SWMW-4I	NS	NS	2.50E+04	2.80E+05	NS	NS	8.10E+00	2.90E+02
SWMW-5I	NS	NS	NS	6.13E+04	NS	NS	NS	2.10E+00

NS = Not sampled

< = Result not detected

cells/mL - cells per milliliter

µg/L - micrograms per liter

Table 3-6
DHC and Ethene Levels after the Second Injection in Block G
Lockheed Martin Middle River Complex, Middle River, Maryland
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Well ID	vcrA Reductase (cells/mL)				Ethene (µg/L)		
	02/11/14 Baseline	03/10/16 Post 2nd Injection	05/06/16 Post 2nd Injection	07/20/16 Post 2nd Injection	03/10/16 Post 2nd Injection	05/06/16 Post 2nd Injection	07/20/16 Post 2nd Injection
MW-12B	6.00E-01	1.50E+00	NS	NS	ND	NS	NS
MW-12A	1.22E+01	1.21E+04	4.63E+01	NS	7.7	9.7	NS
MW-14B	NS	NS	1.72E+03	5.00E-01	NS	54	ND
SWMW-1I	<5.00E-01	4.59E+04	6.21E+04	NS	24	140	73
SWMW-2I	<5.00E-01	2.51E+03	7.77E+03	2.75E+04	75	91	50
SWMW-3I	NS	NS	NS	2.23E+03	NS	11	NS
SWMW-4I	NS	NS	3.44E+03	3.49E+04	NS	12	18
SWMW-5I	NS	NS	NS	5.02E+03	NS	NS	7.9

NS = Not sampled

< = Result not detected

cells/mL - cells per milliliter

µg/L - micrograms per liter

**Table 3-7
VOC Concentrations after the Second Injection in Block G
Lockheed Martin Middle River Complex, Middle River, Maryland**

Well ID	Trichloroethene (µg/L)					cis-1,2-Dichloroethene (µg/L)					Vinyl chloride(µg/L)				
	02/11/14 Baseline	07/09/15 Post 1st Injection	03/10/16 Post 2nd Injection	05/06/16 Post 2nd Injection	07/20/16 Post 2nd Injection	02/11/14 Baseline	07/09/15 Post 1st Injection	03/10/16 Post 2nd Injection	05/06/16 Post 2nd Injection	07/20/16 Post 2nd Injection	02/11/14 Baseline	07/09/15 Post 1st Injection	03/10/16 Post 2nd Injection	05/06/16 Post 2nd Injection	07/20/16 Post 2nd Injection
MW-12B	280	777	570	490	460	23	80.4	44	190	190	0	0	0	0	0
MW-12A	1500	838	8.1	7.8	0.82	120	100	640	590	75	0	0	71	32	15
MW-14B	2900	2	0.33	0	0	63	859	0.33	6.9	0	0	0	0.91	3	0
SWMW-1I	1100	1400	4	2.2	0.86	70	680	9.7	1.2	0.33	0	0	13	27	1.7
SWMW-2I	260	0	2	2.8	0.87	8.3	1900	1.9	3.4	1.1	0	0	1.2	3.5	0.99
SWMW-3I	1300	32	110	22	23	220	340	190	260	210	0	0	11	11	9.7
SWMW-4S	36	0	180	110	49	11	6.5	32	41	91	0	0	1.9	4.4	2.9
SWMW-4I	1300	61	1.2	0	0	180	500	84	22	10	0	0	88	43	14
SWMW-5I	360	100	0.72	0	0.52	110	520	63	170	63	0	0	7.7	4.5	9
Performance goal averages (7 wells ¹)	1037	228	43	20	11	95	687	54	72	54	0	0	18	14	5
<i>All wells averages</i>	<i>1004</i>	<i>357</i>	<i>97</i>	<i>71</i>	<i>59</i>	<i>89</i>	<i>554</i>	<i>118</i>	<i>143</i>	<i>71</i>	<i>0</i>	<i>0</i>	<i>22</i>	<i>14</i>	<i>6</i>

¹MW-14B, SWMW-1I, SWMW-2I, SWMW-3I, SWMW-4I, SWMW-4S, SWMW-5I. These wells are within the active remediation areas defined in the Remedial Basis Report as within 1000 microgram per liter trichloroethene contour. Wells MW-12B and MW-12A are outside the active remediatoin areas and thus are not included in the performance average values calculation.

		Changes from baseline		TCE-trichloroethene VOCs-volatile organic compounds µg/L-microgram per liter
		VOCs	TCE	
Total average VOCs baseline	1093 µg/L	0%	0%	
Total average VOCs post 1st injection	911 µg/L	-17%	-64%	
Total average VOCs 1 month after 2nd injection	237 µg/L	-78%	-90%	
Total average VOCs 3 months after 2nd injection	228 µg/L	-79%	-93%	
Total average VOCs 6 months after 2nd injection	137 µg/L	-88%	-94%	

¹well MW-12B is outside 1,000 µg/L contour and thus is not included in the average values

Table 3-8
Summary of Second Injection in Block I
Lockheed Martin Middle River Complex, Middle River, Maryland

Parameter	1st Injection	2nd Injection	Units
Injection start:	3/13/2015	10/5/2015	
Injection end:	4/15/2015	12/22/2015	
Total injection wells:	8	8	
Injection wells that did not accepted flow:	0	0	
Total injected volume:	39607	39,300	gallons
Average injected volume per well:	4950	4,910	gallons
Design injection volume per well:	5030	5,030	gallons
Total design sodium lactate:		1460	pounds (as 100% active ingredients)
Total injected sodium lactate:	730	1470	pounds (as 100% active ingredients)
Average sodium lactate per well:	91	184	pounds (as 100% active ingredients)
Average lactate concentration as injected:	0.22%	0.45%	
Design lactate concentration:		0.50%	
Total injected sodium bicarbonate:	465	510	pounds
Total design sodium bicarbonate:	360	450	pounds
Average sodium bicarbonate per well:	58	64	pounds
Average sodium bicarbonate as injected:	1.4	1.56	grams per liter

**Table 3-9
Total Organic Carbon Concentrations after the Second Injection in Block I
Lockheed Martin Middle River Complex, Middle River, Maryland**

Well ID	Total organic carbon (mg/L)						
	Baseline (Feb-14)	Post-1st Injection (May-15)	Post-1st Injection (July-15)	2nd Injection (Dec-15)	Post-2nd Injection (Jan-16)	Post-2nd Injection (March- 16)	Post-2nd Injection (June-16)
MW-81B	1.3	95	71	NS	30	8.6	0.31
NMW-1I	2.9	1.4	2	NS	31	2.7	0.7
NMW-2I	2.8	8.7	8.3	NS	3.1	1.3	0.84
NMW-2S	12	5.4	6.1	NS	5.3	5.9	7.7
NMW-3I	6.8	23	8.8	NS	13	5.4	8.8
Outfall-9	1.6	2.6	3.1	3.2	1.1	1.3	1.1
CB-10A	2.8	2.4		2.5			
MH-10	2.4	16		3.1			
<i>Monitoring wells averages</i>	<i>5.16</i>	<i>26.7</i>	<i>19.2</i>	<i>NA</i>	<i>16.5</i>	<i>4.8</i>	<i>3.7</i>

NS - not sampled

mg/L - milligrams per liter

Table 3-10
ORP and DO after the Second Injection in Block I
Lockheed Martin Middle River Complex, Middle River, Maryland
Page 1 of 2

Well ID	Oxidation-reduction potential (mV)					
	Baseline (Feb-14)	Post-1st Injection (May-15)	Post-1st Injection (July-15)	Post-2nd Injection (Jan-16)	Post-2nd Injection (March-16)	Post-2nd Injection (June-16)
MW-81B	-93	-166	-130	-120	-162	-151
NMW-1I	18	95	141	5	-31	2
NMW-2I	74	-5	47	-61	-56	9
NMW-2S	-43	-81	-66	-55	-93	-80
NMW-3I	-37	-137	-118	-132	-148	-132
<i>Averages</i>	<i>-16.2</i>	<i>-58.8</i>	<i>-25.2</i>	<i>-72.6</i>	<i>-98</i>	<i>-70.4</i>

DO - dissolved oxygen

mg/L - milligrams per liter

mV - millivolts

ORP- oxidation-reduction potential

Table 3-10
ORP and DO after the Second Injection in Block I
Lockheed Martin Middle River Complex, Middle River, Maryland
Page 2 of 2

Well ID	Dissolved oxygen (mg/L)					
	Baseline (Feb-14)	Post-1st Injection (May-15)	Post-1st Injection (July-15)	Post-2nd Injection (Jan-16)	Post-2nd Injection (March-16)	Post-2nd Injection (June-16)
MW-81B	0	1.21	1.23	0	2.17	1.56
NMW-1I	0	0	0.92	0	0	1.18
NMW-2I	0	0	0.81	0	0	1.9
NMW-2S	0	0.52	0.98	0	0	1.84
NMW-3I	0	0.02	1.05	0	0	1.68
<i>Averages</i>	<i>0</i>	<i>0.35</i>	<i>0.998</i>	<i>0</i>	<i>0.434</i>	<i>1.632</i>

DO - dissolved oxygen

mg/L - milligrams per liter

mV - millivolts

ORP- oxidation-reduction potential

Table 3-11
pH Levels after the Second Injection in Block I
Lockheed Martin Middle River Complex,
Middle River, Maryland

Well ID	pH					
	Baseline (Feb-14)	Post-1st Injection (May-15)	Post-1st Injection (July-15)	Post-2nd Injection (Jan-16)	Post-2nd Injection (March-16)	Post-2nd Injection (June-16)
MW-81B ¹	6.6	6.63	6.44	6.68	6.83	6.78
NMW-1I	5.75	5.52	5.16	5.56	5.77	5.73
NMW-2I	5.47	5.5	5.7	6.14	5.88	5.7
NMW-2S	6.24	5.99	6.1	6.15	6.09	6.18
NMW-3I	6.21	6.65	6.27	6.85	6.43	6.44
<i>Averages</i>	<i>6.05</i>	<i>6.10</i>	<i>5.93</i>	<i>6.28</i>	<i>6.20</i>	<i>6.17</i>

¹Baseline pH reading was recorded as 8.57 (disregarded as outlier and assumed the same value as post-1st injection).

Table 3-12
VOC Concentrations after the Second Injection in Block I
Lockheed Martin Middle River Complex, Middle River, Maryland
Page 1 of 2

Well ID	Trichloroethene (µg/L)						cis-1,2-Dichloroethene (µg/L)					
	Baseline (Feb-14)	Post-1st Injection (May-15)	Post-1st Injection (July-15)	Post-2nd Injection (Jan-16)	Post-2nd Injection (March-16)	Post-2nd Injection (June-16)	Baseline (Feb-14)	Post-1st Injection (May-15)	Post-1st Injection (July-15)	Post-2nd Injection (Jan-16)	Post-2nd Injection (March-16)	Post-2nd Injection (June-16)
MW-81B	2400	42	10	10	4	390	710	5600	120	110	46	590
NMW-1I	130	660	160	510	71	300	890	780	170	1000	1100	920
NMW-2I	9100	2300	4900	850	2300	3500	3900	2800	2800	5800	6500	3100
NMW-2S	59	1000	480	23	140	74	700	980	880	540	930	520
NMW-3I	100	88	230	39	18	ND	640	360	1300	140	620	1100
<i>Averages</i>	<i>2357.8</i>	<i>818</i>	<i>1156</i>	<i>286</i>	<i>507</i>	<i>1066</i>	<i>1368</i>	<i>2104</i>	<i>1054</i>	<i>1518</i>	<i>1839</i>	<i>1246</i>
<i>% change from baseline</i>	<i>0%</i>	<i>-65%</i>	<i>-51%</i>	<i>-88%</i>	<i>-79%</i>	<i>-55%</i>	<i>0%</i>	<i>54%</i>	<i>-23%</i>	<i>11%</i>	<i>34%</i>	<i>-9%</i>

VOCs- volatile organic compounds

Total average VOCs baseline (Feb-14) 3874.8 µg/L

Total average VOCs after 2nd injection (January-16)

2133 µg/L

µg/L- micrograms per liter

Total average VOCs after 1st injection (May-15) 3103.4 µg/L

Total average VOCs after 2nd injection (March-16)

2556 µg/L

Total average VOCs after 1st injection (July-15) 2379 µg/L

Total average VOCs after 2nd injection (June-16)

2512 µg/L

Table 3-12
VOC Concentrations after the Second Injection in Block I
Lockheed Martin Middle River Complex, Middle River, Maryland
Page 2 of 2

Well ID	Vinyl chloride (µg/L)					
	Baseline (Feb-14)	Post-1st Injection (May-15)	Post-1st Injection (July-15)	Post-2nd Injection (Jan-16)	Post-2nd Injection (March-16)	Post-2nd Injection (June-16)
MW-81B	85	560	250	76	48	290
NMW-II	120	41	9	38	42	37
NMW-2I	150	97	94	1300	530	290
NMW-2S	220	99	180	200	210	130
NMW-3I	170	110	310	27	220	250
<i>Averages</i>	<i>149</i>	<i>181.4</i>	<i>169</i>	<i>328</i>	<i>210</i>	<i>200</i>
<i>% change from baseline</i>	<i>0%</i>	<i>22%</i>	<i>13%</i>	<i>120%</i>	<i>41%</i>	<i>34%</i>

VOCs- volatile organic compounds	Total average VOCs baseline (Feb-14)	3874.8 µg/L	Total average VOCs after 2nd injection (January-16)	2133 µg/L
µg/L- micrograms per liter	Total average VOCs after 1st injection (May-15)	3103.4 µg/L	Total average VOCs after 2nd injection (March-16)	2556 µg/L
	Total average VOCs after 1st injection (July-15)	2379 µg/L	Total average VOCs after 2nd injection (June-16)	2512 µg/L

Table 3-13
DHC and Ethene after the Second Injection in Block I
Lockheed Martin Middle River Complex, Middle River, Maryland
Page 1 of 2

Well ID	Dehalococcoides (cells/mL)				tceA Reductase (cells/mL)			
	Baseline (Feb-14)	Post-2nd Injection (Jan-16)	Post-2nd Injection (March-16)	Post-2nd Injection (June-16)	Baseline (Feb-14)	Post-2nd Injection (Jan-16)	Post-2nd Injection (March-16)	Post-2nd Injection (June-16)
NMW-3I	1.58E+03	9.26E+04	2.87E+05	9.22E+03	9.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
MW-81B	NS	3.74E+05	NS	1.16E+05	NS	<5.00E-01	NS	<5.00E-01
NMW-1I	NS	1.58E+03	1.72E+03	2.99E+02	NS	<5.00E-01	ND	<5.00E-01

NS = Not sampled

< = Result not detected

cells/mL - cells per milliliter

ug/L - micrograms per liter

Table 3-13
DHC and Ethene after the Second Injection in Block I
Lockheed Martin Middle River Complex, Middle River, Maryland
Page 2 of 2

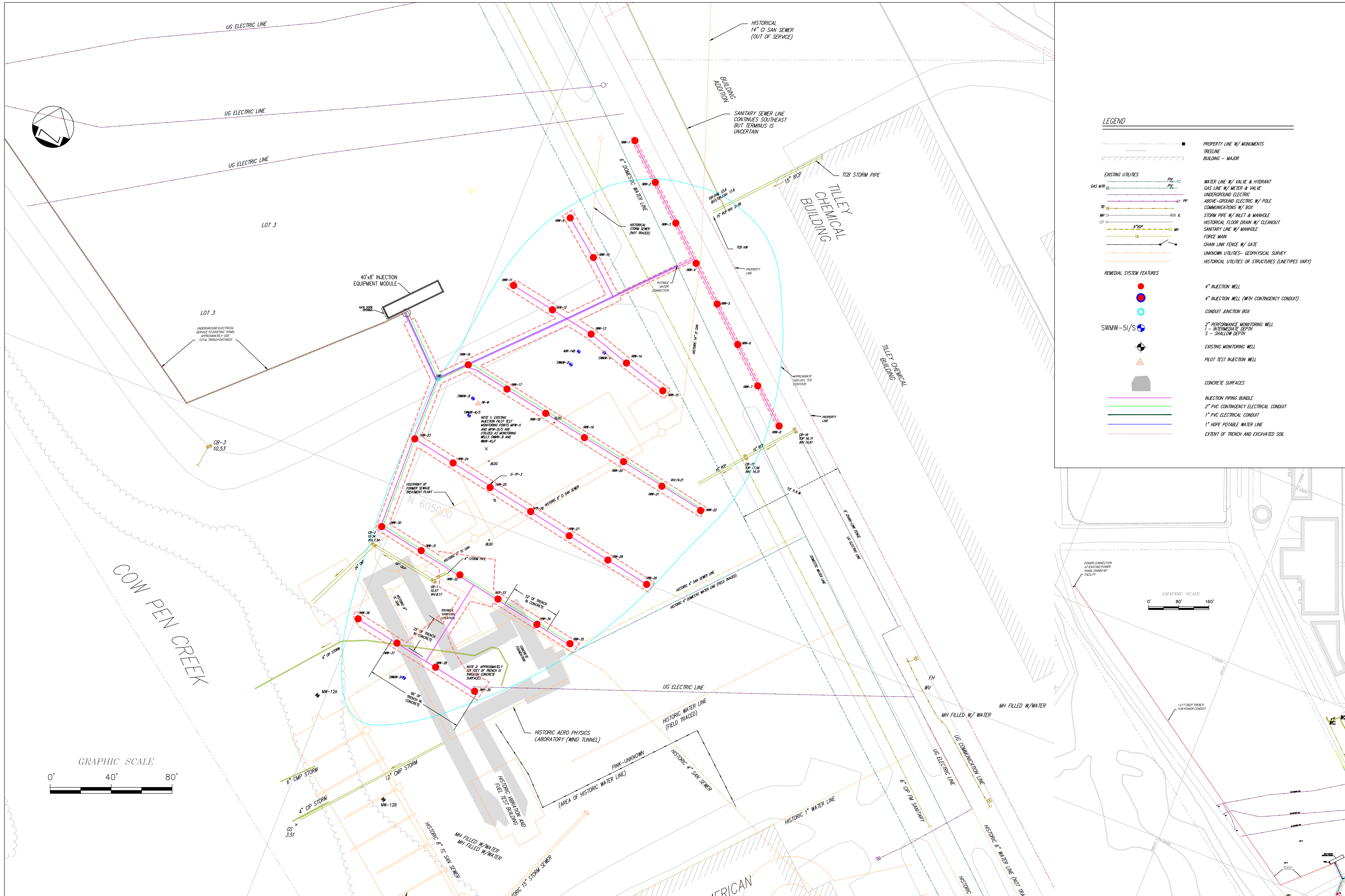
Well ID	vcrA Reductase (cells/mL)				Ethene (ug/L)		
	Baseline (Feb-14)	Post-2nd Injection (Jan-16)	Post-2nd Injection (March-16)	Post-2nd Injection (June-16)	Post-2nd Injection (Jan-16)	Post-2nd Injection (March-16)	Post-2nd Injection (June-16)
NMW-3I	2.62E+02	2.54E+04	8.90E+04	5.72E+02	11	83	NS
MW-81B	NS	1.29E+05	NS	9.76E+04	1000	NS	320
NMW-1I	NS	1.75E+02	2.88E+02	1.37E+01	6.2	2.5	3.6

NS = Not sampled

< = Result not detected

cells/mL - cells per milliliter

ug/L - micrograms per liter



LEGEND

- | | |
|---------|----------------------------|
| ---■--- | PROPERTY LINE W/ MONUMENTS |
| --- | TREELINE |
| --- | BUILDING - MAJOR |
-
- | | |
|---------------------------|---|
| EXISTING UTILITIES | |
| --- | PX-13 WATER LINE W/ VALVE & HYDRANT |
| --- | PX-14 GAS LINE W/ METER & VALVE |
| --- | UNDERGROUND ELECTRIC |
| --- | ABOVE-GROUND ELECTRIC W/ POLE |
| --- | COMMUNICATIONS W/ BOX |
| --- | STORM PIPE W/ INLET & MANHOLE |
| --- | HISTORICAL FLOOR DRAIN W/ CLEANOUT |
| --- | SANITARY LINE W/ MANHOLE |
| --- | FORCE MAIN |
| --- | CHAIN LINK FENCE W/ GATE |
| --- | UNKNOWN UTILITIES- GEOPHYSICAL SURVEY |
| --- | HISTORICAL UTILITIES OR STRUCTURES (LINETYPES VARY) |
-
- | | |
|---------------------------------|--|
| REMEDIAL SYSTEM FEATURES | |
| ● | 4" INJECTION WELL |
| ● | 4" INJECTION WELL (WITH CONTINGENCY CONDUIT) |
| ○ | CONDUIT JUNCTION BOX |
| ● | 2" PERFORMANCE MONITORING WELL |
| ● | 1 - INTERMEDIATE DEPTH |
| ● | 5 - SHALLOW DEPTH |
| ● | EXISTING MONITORING WELL |
| ● | PLOT TEST INJECTION WELL |
| ■ | CONCRETE SURFACES |
| --- | INJECTION PIPING BUNDLE |
| --- | 2" PVC CONTINGENCY ELECTRICAL CONDUIT |
| --- | 1" PVC ELECTRICAL CONDUIT |
| --- | 1" HDPE POTABLE WATER LINE |
| --- | EXTENT OF TRENCH AND EXCAVATED SOIL |

GRAPHIC SCALE
0' 80' 160'

GRAPHIC SCALE
0' 40' 80'

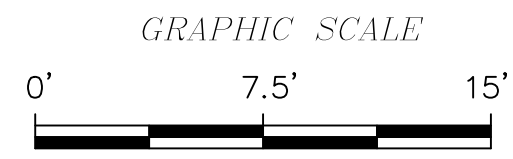
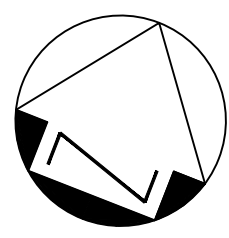
- REFERENCE PLANS & DATA:**
- UTILITY CROSS CONNECTION SURVEY PERFORMED BY TETRA TECH CREW: RAB & AN, DATED 10/6/10 & 10/11/2011
 - SURVEYED LOCATIONS OF UNDERGROUND ELECTRIC, WATER, COMMUNICATION LINES, ARE BASED ON GEOPHYSICAL SURVEYS CONDUCTED BY ENVIROSCAN, INC, LANCASTER, PA, AND UNKNOWN FEATURES.
 - SEWER PIPE CCTV REPORTS PREPARED BY VIDEO PIPE SERVICES, INC, DATED 9/26 & 10/12/2011
 - BLOCK G TOPOGRAPHIC SURVEY UPDATE PREPARED BY TETRA TECH CREW: RAB & AN, DATED 06/07 & 06/09/2011
 - PRE-CONSTRUCTION SURVEY OF STORM DRAIN LINES FOR BLOCK E PREPARED BY TETRA TECH CREW: RAB & AN, DATED 08/15 & 08/16/2011.
 - BACKGROUND BASEMAP AND PROPERTY LINES ARE FROM CHESAPEAKE PARK SITE PLAN - LMC PROPERTIES, INC PREPARED BY TAI CONSULTING ENGINEERS, DATED 4/15/01. BACKGROUND DATA IS NOT FIELD VERIFIED AND FOR REFERENCE ONLY.

MARK	DATE	DESCRIPTION	BY



BLOCK G REMEDY LAYOUT
LOCKHEED MARTIN CORPORATION
MIDDLE RIVER COMPLEX, MIDDLE RIVER, MARYLAND

DATE: 9/29/2015
PROJECT NO.: 1121003835
DRAWING SIZE: ARCH D
DRAWN BY: DWM
CHECKED BY: BD
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FIGURE 3-1



APPROXIMATE
1,000 ug/L VOC
CONTOUR

NOTE 2: ALL TRENCHES
ARE LOCATED ON PAVED
AREAS

LEGEND

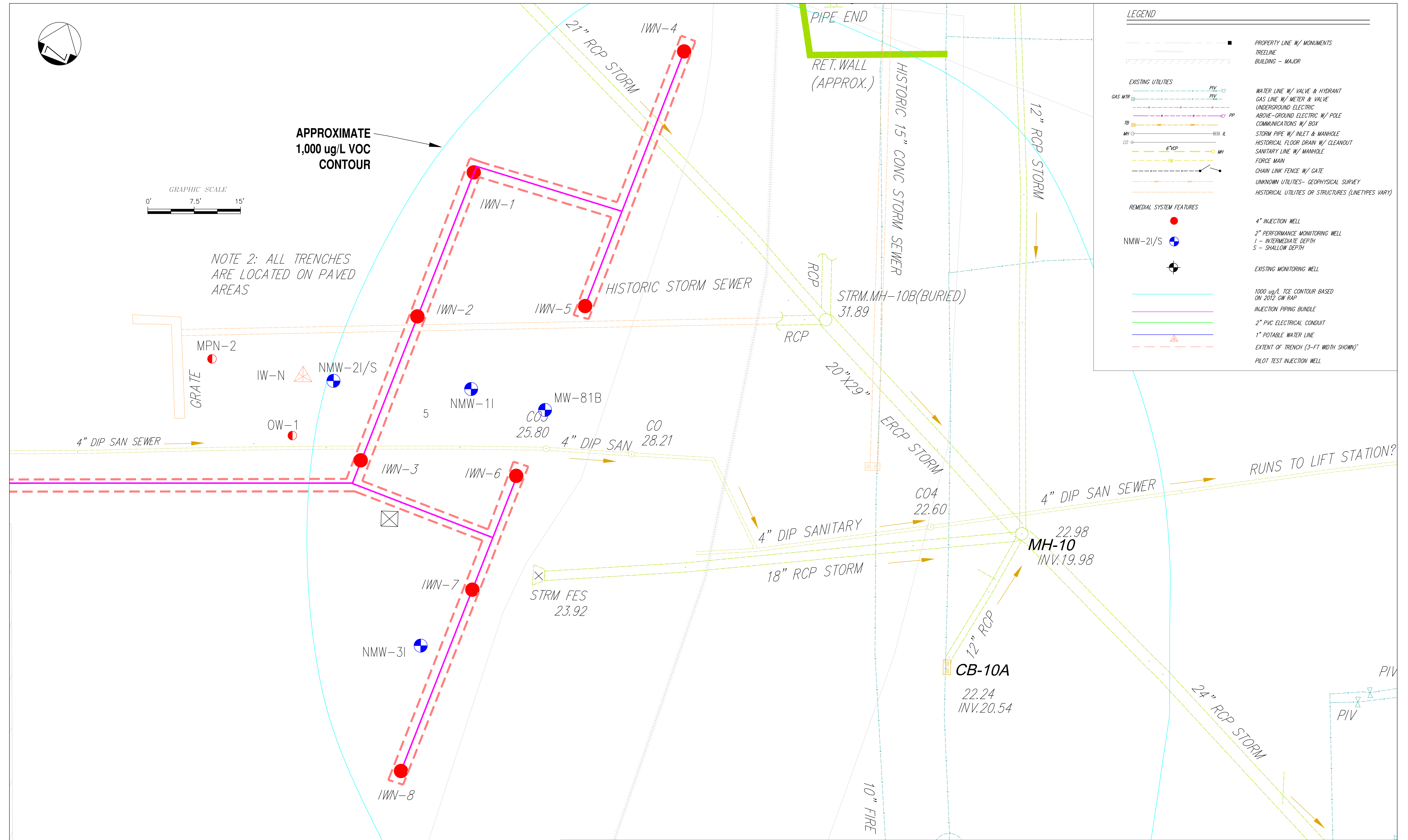
PROPERTY LINE W/ MONUMENTS
TREELINE
BUILDING - MAJOR

EXISTING UTILITIES

- PW: WATER LINE W/ VALVE & HYDRANT
- PV: GAS LINE W/ METER & VALVE
- PP: UNDERGROUND ELECTRIC
- PE: ABOVE-GROUND ELECTRIC W/ POLE
- PP: COMMUNICATIONS W/ BOX
- IL: STORM PIPE W/ INLET & MANHOLE
- IL: HISTORICAL FLOOR DRAIN W/ CLEANOUT
- MH: SANITARY LINE W/ MANHOLE
- 6"VCP: FORCE MAIN
- FM: CHAIN LINK FENCE W/ GATE
- UNKNOWN UTILITIES- GEOPHYSICAL SURVEY
- HISTORICAL UTILITIES OR STRUCTURES (LINETYPES VARY)

REMEDIAL SYSTEM FEATURES

- IWN: 4" INJECTION WELL
- NMW-21/S: 2" PERFORMANCE MONITORING WELL
- I: INTERMEDIATE DEPTH
- S: SHALLOW DEPTH
- EXISTING MONITORING WELL
- 1000 ug/L TCE CONTOUR BASED ON 2012 GW RAP
- INJECTION PIPING BUNDLE
- 2" PVC ELECTRICAL CONDUIT
- 1" POTABLE WATER LINE
- EXTENT OF TRENCH (3-FT WIDTH SHOWN)
- PILOT TEST INJECTION WELL



- REFERENCE PLANS & DATA:**
- UTILITY CROSS CONNECTION SURVEY PERFORMED BY TETRA TECH CREW: RAB & AN, DATED 10/6,10/10 & 10/11/2011
 - SURVEYED LOCATIONS OF UNDERGROUND ELECTRIC, WATER, COMMUNICATION LINES, ARE BASED ON GEOPHYSICAL SURVEYS CONDUCTED BY ENVIROSCAN, INC. LANCASTER, PA, AND UNKNOWN FEATURES.
 - SEWER PIPE CCTV REPORTS PREPARED BY VIDEO PIPE SERVICES, INC. DATED 9/26 & 10/12/2011
 - BLOCK G TOPOGRAPHIC SURVEY UPDATE PREPARED BY TETRA TECH CREW: RAB & AN, DATED: 06/07 & 06/08/2011
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 - BACKGROUND BASEMAP AND PROPERTY LINES ARE FROM CHESAPEAKE PARK SITE PLAN - LMC PROPERTIES, INC PREPARED BY TAI CONSULTING ENGINEERS, DATED 4/15/01. BACKGROUND DATA IS NOT FIELD VERIFIED AND FOR REFERENCE ONLY.



MARK	DATE	DESCRIPTION	BY

BLOCK I REMEDY LAYOUT
LOCKHEED MARTIN CORPORATION
MIDDLE RIVER COMPLEX, MIDDLE RIVER, MARYLAND

DATE:	9/29/2015
PROJECT NO.:	1121C03835
DRAWING SIZE:	ARCH D
DRAWN BY:	DWM
CHECKED BY:	BD

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FIGURE 3-2

Section 4

Recommendations for Path Forward

4.1 BLOCK G

The second injection at Block G met all performance goals. A near-complete trichloroethene (TCE) reduction occurred. The TCE-degradation daughter products (*cis*-1,2-dichloroethene [*cis*-1,2-DCE] and vinyl chloride [VC]) that were generated after the first injection were also substantially reduced. The performance goal for both TCE and the reduction of its daughter-products was met and exceeded, as indicated by the results of all three post-injection monitoring events. No rebound of volatile organic compounds (VOCs) was evident at the end of the six-month monitoring program. In fact, VOCs continued to decline throughout the monitoring period.

These observations lead us to recommend suspending further injections at Block G and continuing annual monitoring. Two annual sampling events will be performed in 2017 and 2018. The next will be in April/May 2017, simultaneously with annual sampling at the Middle River Complex (MRC) site. We recommended sampling only for VOCs in 2017 in the Block G performance wells. If sampling results indicate that a VOC rebound has occurred, then more detailed sampling that includes bioremediation-related parameters would be recommended. Additional injections would then be considered based on those results. If two years of post-injection sampling indicate that no significant VOC rebound has occurred and the remedy performance goals are being met, Lockheed Martin will then petition the Maryland Department of the Environment (MDE) for a “No Further Action” designation for Block G groundwater.

4.2 BLOCK I

The second injection at Block I failed to meet most design objectives, because a sufficient substrate distribution could not be achieved. The likely reasons for this are listed below:

-
- the low permeability of the geological formation at Block I
 - the high degree of subsurface heterogeneity
 - low natural groundwater flow velocities
 - multiple underground utilities that could serve as preferential channels for the injected fluid
 - the need to limit injection pressure to control groundwater mounding and release of substrate through the preferential channels

To improve substrate and sodium bicarbonate distribution in Block I, we propose modifying amendment delivery for the third injection by including a groundwater pumping component. This delivery method will actively control the groundwater flow direction and velocity within the treatment area, and will likely allow higher injection pressures which, in coordination with the pumping, will maximize amendment distribution.

To implement this approach, groundwater will be extracted from several selected locations, while the amended solution (potable water treated with sodium lactate and added sodium bicarbonate) is simultaneously injected into the injection wells. Existing injection-equipment will be used. The configuration of the extraction/injection wells will be selected such that the amended solution will be pulled toward the extraction wells (i.e., across the treatment area at Block I).

This approach is hydraulically similar to recirculating amendment, except that extracted water will be treated for VOC removal via a small air stripper and discharged to the sanitary sewer, and the injection solution will be prepared using treated potable water. A discharge permit with Baltimore County, similar to that obtained for the Block E multi-phase extraction system, will be required. This approach is more flexible as compared to conventional recirculation, because it does not require a balance of extracted and injected water, which would likely require additional controls. An added advantage is the control of groundwater flow direction and velocity within the treatment zone.

To determine the feasibility of adding this pumping component, a pump test will be performed using the wells intended as groundwater extraction locations. Design data such as pumping rates and radii of influence will also be determined by the pump test.

Post-injection performance monitoring at Block I will be similar to the performance monitoring that followed the first and second injections. Performance monitoring parameters and frequency are outlined in Table 4-1.

**Table 4-1
Performance Monitoring after the Third Injection in Block I
Lockheed Martin Middle River Complex, Middle River, Maryland**

Sampling event	1 Month						3 Months						6 Months					
Monitoring Well	VOCs	TOC	ACA	MEE	DHC	Field	VOCs	TOC	ACA	MEE	DHC	Field	VOCs	TOC	ACA	MEE	DHC	Field
MW-81B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NMW-1I	1	1	1			1	1	1	1			1	1	1	1			1
NMW-2S	1	1	1			1	1	1	1			1	1	1	1			1
NMW-2I	1	1	1			1	1	1	1			1	1	1	1			1
NMW-3I	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Outfall 9	1	1				1	1	1				1	1	1				1
Totals	6	6	5	2	2	6	6	6	5	2	2	6	6	6	5	2	2	6

Sample Quantities

VOCs 18

TOC 18

ACA 15

MEE 6

DHC 6

Field 18

ACA - anions, cations, alkalinity

DHC and functional genes - dehalococoides, tceA reductase, vcrA reductase, bvcA reductase

Field - pH, oxidation-reduction potential, dissolved oxygen, specific conductance

MEE - gases (methane, ethane, ethene)

TOC - total organic carbon

VOCs - volatile organic compounds

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Section 5

Reporting

The results and conclusions of the next Block G sampling event (April/May 2017) will be summarized in a letter report. If no significant volatile organic compound (VOC) rebound occurs in this and the April/May 2018 sampling, then a petition for no further action for Block G groundwater will be submitted to Maryland Department of the Environment (MDE). The modified design of the amendment-delivery system at Block I will be prepared as an addendum to the *Groundwater Response Action Design Report* (Tetra Tech, Inc. [Tetra Tech], 2013). The design document will include the following information:

- pumping component details (e.g., pumps and controls)
- groundwater treatment equipment (e.g., air stripper, filters, etc.)
- groundwater collection and discharge piping
- sewer discharge arrangements
- modified delivery configuration for amendments (groundwater extraction and amendments injection locations)
- sampling requirements for treated groundwater to be discharged to the sanitary sewer (established by permit)
- extraction and injection rates
- substrate and pH buffer quantities
- schedule for implementation

The performance results for the third injection in Block I and the recommendations for any further injections will be submitted to Lockheed Martin Corporation in a progress report. This report will include:

- injection fluid volumes for the monitoring period, and cumulative injection volumes to date (total and per injection well)

-
- volume of groundwater extracted for the monitoring period, and cumulative extraction volumes to date (total and per extraction well)
 - analytical results for groundwater to be discharged to the sanitary sewer
 - any instances of injected-fluid daylighting, preferential channeling, surface-water intrusion, and efforts to mitigate
 - injected substrate quantities for the monitoring period, and cumulative substrate quantities to date (total and per injection well)
 - injected sodium bicarbonate quantities for the monitoring period, and cumulative sodium bicarbonate quantities to date (total and per injection well)
 - equipment process-parameters
 - individual injection-well flow rates and operating pressures
 - summary of activities performed during the reporting period
 - field notes/daily activity logs
 - system down-times and causes
 - sampling results
 - recommendations for continued operation

A detailed Block I schedule will be developed as part of the addendum to the remedial design detailed above; a simplified version of the schedule is as follows:

- pump testing—December 2016
- *Design Report Addendum* submitted—April 2017
- Block I third injection—June/August 2017

For Block G, a progress report or remedial action completion report with recommended actions will be issued after the results of the April/May 2018 annual groundwater sampling have been obtained.

Section 6

References

1. Maryland Department of the Environment (MDE), 2006. *Maryland Department of the Environment Voluntary Cleanup Program*. Revision 03/17/06. March.
2. Tetra Tech Inc. (Tetra Tech), 2012. *Groundwater Response Action Plan Lockheed Martin Middle River Complex 2323 Eastern Boulevard Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. August.
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APPENDIX A—ANALYTICAL DATA

APPENDIX A

ANALYTICAL DATA

ANALYTICAL REPORT

Job Number: 240-64548-1

Job Description: Block G GW Remedy

For:

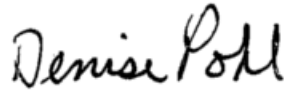
Tetra Tech, Inc.

Foster Plaza 7

661 Anderson Drive

Pittsburgh, PA 15220-2745

Attention: Chris Pike



Approved for release.
Denise Pohl
Project Manager II
5/26/2016 2:00 PM

Designee for
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05/26/2016

cc: Tony Apanavage
Samantha Brenner
Mike Martin
Tobrena Sedlmyer
Final Data Tracking

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.

TestAmerica Laboratories, Inc.

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.
*	LCS or LCSD is outside acceptance limits.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.
E	Result exceeded calibration range.

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: Block G GW Remedy

Report Number: 240-64548-1

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.

Methods DHC - BAV1 Vinyl Chloride Reductase-BVC, DHC - Dehalobacter spp - DHBt, DHC - Dehalococcoides, DHC - tceA Reductase - TCE, DHC - Vinyl Chloride Reductase - VCR were subcontracted to Microbial Insights Inc. The subcontract laboratory certifications are different from that of the facility issuing the final report.

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.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

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

RECEIPT

The samples were received on 5/7/2016 10:00 AM, 5/10/2016 10:05 AM and 5/11/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.4° C, 0.9° C, 1.3° C and 3.9° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TB-050616 (240-64548-1), TB-050916 (240-64615-1), TB-051016 (240-64671-1), MRC-MW-14B-050616 (240-64548-2), MRC-MW-12A-050916 (240-64615-2), G-SWMW-4I-051016 (240-64671-2), SWMW-1I-050616 (240-64548-3), MRC-MW-12B-050916 (240-64615-3), G-SWMW-4S-051016 (240-64671-3), G-SWMW-3I-050916 (240-64615-4), G-SWMW-5I-051016 (240-64671-4), G-SWMW-2I-051016 (240-64671-5) and G-OUTFALL-051016 (240-64671-7) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 05/13/2016, 05/16/2016, 05/18/2016 and 05/19/2016.

Several analytes failed the recovery criteria high for LCS 240-231016/4. Refer to the QC report for details.

Several analytes exceeded the RPD limit for the MSD of sample 240-64546-1 in batch 240-230444. Several analytes failed the recovery criteria low for the MS of sample 240-64546-1 in batch 240-230444. trans-1,3-Dichloropropene failed the recovery criteria low for the MS of sample 240-64717-2 in batch 240-231016. Trichlorofluoromethane failed the recovery criteria high. trans-1,3-Dichloropropene failed the recovery criteria low for the MSD of sample 240-64717-2 in batch 240-231016. Bromomethane and Trichlorofluoromethane failed the recovery criteria high. Refer to the QC report for details.

Samples G-SWMW-4I-051016 (240-64671-2)[2X], MRC-MW-12A-050916 (240-64671-2)[33.33X], MRC-MW-14B-050616 (240-64671-2)[5X], G-SWMW-4I-051016 (240-64671-2)[5X], MRC-MW-12B-050916 (240-64671-3)[20X], G-SWMW-4S-051016 (240-64671-3)[3.33X], G-SWMW-3I-050916 (240-64671-4)[10X] and G-SWMW-5I-051016 (240-64671-4)[6.67X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 230196 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TB-050616 (240-64548-1) and SWMW-1I-050616 (240-64548-3).

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 230196 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. The following samples are impacted: TB-050616 (240-64548-1) and SWMW-1I-050616 (240-64548-3).

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 230444 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. The following samples are impacted: MRC-MW-14B-050616 (240-64548-2), TB-050916 (240-64615-1), MRC-MW-12A-050916 (240-64615-2), MRC-MW-12B-050916 (240-64615-3) and G-SWMW-3I-050916 (240-64615-4).

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 230805 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. The following samples are impacted: TB-051016 (240-64671-1), G-SWMW-4I-051016 (240-64671-2), G-SWMW-4S-051016 (240-64671-3), G-SWMW-5I-051016 (240-64671-4), G-SWMW-2I-051016 (240-64671-5) and G-OUTFALL-051016 (240-64671-7).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 231016 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 sample is impacted: G-SWMW-4I-051016 (240-64671-2).

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 103995 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. The following sample is impacted: G-SWMW-4I-051016 (240-64671-2).

Method(s) 8260C: No MS/MSD in batch 230196 due to an instrument fault. Batch includes: TB-050616 (240-64548-1) and SWMW-1I-050616 (240-64548-3).

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MRC-MW-14B-050616 (240-64548-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) for 231016 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported for samples G-SWMW-4I-051016 (240-64671-2) and (LCS 240-231016/4).

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

DISSOLVED GASES

Samples MRC-MW-14B-050616 (240-64548-2), MRC-MW-12A-050916 (240-64615-2), G-SWMW-4I-051016 (240-64671-2), SWMW-1I-050616 (240-64548-3), G-SWMW-3I-050916 (240-64615-4) and G-SWMW-2I-051016 (240-64671-5) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 05/12/2016, 05/18/2016, 05/20/2016 and 05/24/2016.

Samples MRC-MW-14B-050616 (240-64671-2)[10X], MRC-MW-12A-050916 (240-64671-2)[10X], SWMW-1I-050616 (240-64671-3)[10X], G-SWMW-3I-050916 (240-64671-4)[10X] and G-SWMW-2I-051016 (240-64671-5)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) RSK-175: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 240-229899 and 240-231640.

Method(s) RSK-175: The middle CCV in the batch had a mis-injection, therefore did not have any recovery. The opening and closing CCV and the LCS were in control. All samples were run within a twelve hour period. Data is reported and qualified as per the QA Manager and GC Department Supervisor. The following samples are impacted: MRC-MW-14B-050616 (240-64548-2), SWMW-1I-050616 (240-64548-3), (CCV 240-230633/47), (LCS 240-230633/34), (MB 240-230633/33), (240-64548-E-2 MS) and (240-64548-E-2 MSD).

Method(s) RSK-175: Sample is over calibration range for Methane. No sample left to run at a dilution. Methane data is qualified and reported for G-SWMW-4I-051016 (240-64671-2).

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

TOTAL RECOVERABLE METALS (ICP)

Samples MRC-MW-14B-050616 (240-64548-2), MRC-MW-12A-050916 (240-64615-2), G-SWMW-4I-051016 (240-64671-2), SWMW-1I-050616 (240-64548-3), G-SWMW-2I-051016 (240-64671-5) and G-OUTFALL-051016 (240-64671-7) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/11/2016 and 05/13/2016 and analyzed on 05/12/2016, 05/17/2016 and 05/18/2016.

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

ALKALINITY

Samples MRC-MW-14B-050616 (240-64548-2), MRC-MW-12A-050916 (240-64615-2), G-SWMW-4I-051016 (240-64671-2), SWMW-1I-050616 (240-64548-3), G-SWMW-2I-051016 (240-64671-5) and G-OUTFALL-051016 (240-64671-7) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 05/19/2016 and 05/20/2016.

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

TOTAL DISSOLVED SOLIDS

Samples MRC-MW-14B-050616 (240-64548-2), MRC-MW-12A-050916 (240-64615-2), G-SWMW-4I-051016 (240-64671-2), SWMW-1I-050616 (240-64548-3), G-SWMW-2I-051016 (240-64671-5) and G-OUTFALL-051016 (240-64671-7) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 05/11/2016, 05/13/2016 and 05/17/2016.

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

ANIONS

Samples MRC-MW-14B-050616 (240-64548-2), MRC-MW-12A-050916 (240-64615-2), G-SWMW-4I-051016 (240-64671-2), SWMW-1I-050616 (240-64548-3), G-SWMW-2I-051016 (240-64671-5) and G-OUTFALL-051016 (240-64671-7) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 05/07/2016, 05/10/2016, 05/11/2016 and 05/12/2016.

Samples G-SWMW-4I-051016 (240-64671-2)[5X], G-SWMW-2I-051016 (240-64671-5)[5X] and G-OUTFALL-051016 (240-64671-7)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

ANIONS

Samples MRC-MW-14B-050616 (240-64548-2), MRC-MW-12A-050916 (240-64615-2), G-SWMW-4I-051016 (240-64671-2), SWMW-1I-050616 (240-64548-3), G-SWMW-2I-051016 (240-64671-5) and G-OUTFALL-051016 (240-64671-7) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 05/07/2016, 05/10/2016, 05/11/2016, 05/12/2016 and 05/17/2016.

Chloride failed the recovery criteria high for the MSD of sample 240-64533-5 in batch 240-230602. Refer to the QC report for details.

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

ORTHOPHOSPHATE AS P

Samples MRC-MW-14B-050616 (240-64548-2), MRC-MW-12A-050916 (240-64615-2), G-SWMW-4I-051016 (240-64671-2), SWMW-1I-050616 (240-64548-3), G-SWMW-2I-051016 (240-64671-5) and G-OUTFALL-051016 (240-64671-7) were analyzed for orthophosphate as P in accordance with SM 4500 P E. The samples were analyzed on 05/07/2016, 05/10/2016 and 05/11/2016.

Samples MRC-MW-12A-050916 (240-64671-2)[2X], G-SWMW-4I-051016 (240-64671-2)[5X], G-SWMW-2I-051016 (240-64671-5)[5X] and G-OUTFALL-051016 (240-64671-7)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) SM 4500 P E: The following sample was diluted due to the nature of the sample matrix: G-SWMW-4I-051016 (240-64671-2), G-SWMW-2I-051016 (240-64671-5) and G-OUTFALL-051016 (240-64671-7). Elevated reporting limits (RLs) are provided.

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

TOTAL ORGANIC CARBON

Samples MRC-MW-14B-050616 (240-64548-2), MRC-MW-12A-050916 (240-64615-2), G-SWMW-4I-051016 (240-64671-2), SWMW-1I-050616 (240-64548-3), MRC-MW-12B-050916 (240-64615-3), G-SWMW-4S-051016 (240-64671-3), G-SWMW-3I-050916 (240-64615-4), G-SWMW-5I-051016 (240-64671-4), G-SWMW-2I-051016 (240-64671-5) and G-OUTFALL-051016 (240-64671-7) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 05/13/2016 and 05/22/2016.

Samples G-SWMW-4I-051016 (240-64671-2)[20X], MRC-MW-14B-050616 (240-64671-2)[4X], G-SWMW-5I-051016 (240-64671-4)[20X], G-SWMW-3I-050916 (240-64671-4)[4X] and G-SWMW-2I-051016 (240-64671-5)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: TB-050616

Lab Sample ID: 240-64548-1

No Detections.

Client Sample ID: MRC-MW-14B-050616

Lab Sample ID: 240-64548-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	11		5.0	1.5	ug/L	5		8260C	Total/NA
1,2-Dichloroethane	1.7	J	5.0	1.2	ug/L	5		8260C	Total/NA
2-Butanone (MEK)	88		50	2.7	ug/L	5		8260C	Total/NA
Acetone	13	J	50	4.7	ug/L	5		8260C	Total/NA
Benzene	6.7		5.0	1.8	ug/L	5		8260C	Total/NA
Chloroethane	11		5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	6.9		5.0	1.3	ug/L	5		8260C	Total/NA
Vinyl chloride	3.0	J	5.0	1.5	ug/L	5		8260C	Total/NA
Ethene	54		0.50	0.13	ug/L	1		RSK-175	Total/NA
Ethane	0.14	J	0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	18000		5.0	0.80	ug/L	10		RSK-175	Total/NA
Iron	130000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	4900		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	910		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Chloride	83		1.0	0.41	mg/L	1		300.0	Total/NA
Nitrite as N	0.41		0.10	0.038	mg/L	1		300.0	Total/NA
Sulfate	0.25	J	1.0	0.13	mg/L	1		300.0	Total/NA
Sulfate	0.28	J	1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	340		4.0	0.32	mg/L	4		9060A	Total/NA
TOC Result 2	250		4.0	0.32	mg/L	4		9060A	Total/NA
TOC Result 3	320		4.0	0.32	mg/L	4		9060A	Total/NA
TOC Result 4	260		4.0	0.32	mg/L	4		9060A	Total/NA
Total Organic Carbon	290		4.0	0.32	mg/L	4		9060A	Total/NA
Total Dissolved Solids	1600		20	15	mg/L	1		SM 2540C	Total/NA
Orthophosphate as P	0.11		0.10	0.0050	mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: SWMW-11-050616

Lab Sample ID: 240-64548-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.68	J	1.0	0.45	ug/L	1		8260C	Total/NA
1,1,2-Trichloroethane	0.40	J	1.0	0.24	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	24		1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.51	J	1.0	0.45	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	4.2	J	10	0.53	ug/L	1		8260C	Total/NA
Acetone	2.8	J	10	0.94	ug/L	1		8260C	Total/NA
Benzene	11		1.0	0.35	ug/L	1		8260C	Total/NA
Chloroethane	1.6		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.2		1.0	0.26	ug/L	1		8260C	Total/NA
Isopropylbenzene	0.61	J	1.0	0.35	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.93	J	1.0	0.30	ug/L	1		8260C	Total/NA
Trichloroethene	2.2		1.0	0.22	ug/L	1		8260C	Total/NA
Vinyl chloride	27		1.0	0.29	ug/L	1		8260C	Total/NA
Ethene	140		5.0	1.3	ug/L	10		RSK-175	Total/NA
Methane	14000		5.0	0.80	ug/L	10		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: SWMW-11-050616 (Continued)

Lab Sample ID: 240-64548-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	6200		100	25	ug/L	1		6010C	Total Recoverable
Manganese	3300		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	340		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Chloride	70		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	4.7		1.0	0.13	mg/L	1		300.0	Total/NA
Sulfate	2.0		1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	35		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	39		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	38		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	40		1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	38		1.0	0.080	mg/L	1		9060A	Total/NA
Total Dissolved Solids	520		10	7.4	mg/L	1		SM 2540C	Total/NA
Orthophosphate as P	0.11		0.10	0.0050	mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: TB-050916

Lab Sample ID: 240-64615-1

No Detections.

Client Sample ID: MRC-MW-12A-050916

Lab Sample ID: 240-64615-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	21	J	33	10	ug/L	33.33		8260C	Total/NA
1,1-Dichloroethene	140		33	15	ug/L	33.33		8260C	Total/NA
cis-1,2-Dichloroethene	590		33	8.7	ug/L	33.33		8260C	Total/NA
Trichloroethene	7.8	J	33	7.3	ug/L	33.33		8260C	Total/NA
Vinyl chloride	32	J	33	9.7	ug/L	33.33		8260C	Total/NA
Ethene	9.7		5.0	1.3	ug/L	10		RSK-175	Total/NA
Methane	5000		5.0	0.80	ug/L	10		RSK-175	Total/NA
Iron	110000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	4500		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	93		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Chloride	67		1.0	0.41	mg/L	1		300.0	Total/NA
Sulfate	0.52	J	1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	5.9		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	3.5		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	5.2		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	2.3		1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	4.2		1.0	0.080	mg/L	1		9060A	Total/NA
Total Dissolved Solids	370		10	7.4	mg/L	1		SM 2540C	Total/NA
Orthophosphate as P	0.014	J	0.20	0.010	mg/L	2		SM 4500 P E	Total/NA

Client Sample ID: MRC-MW-12B-050916

Lab Sample ID: 240-64615-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	14	J	20	6.0	ug/L	20		8260C	Total/NA
1,1-Dichloroethene	95		20	9.0	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	190		20	5.2	ug/L	20		8260C	Total/NA
Trichloroethene	490		20	4.4	ug/L	20		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-3I-050916

Lab Sample ID: 240-64615-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	9.4	J	10	3.0	ug/L	10		8260C	Total/NA
1,1-Dichloroethene	70		10	4.5	ug/L	10		8260C	Total/NA
2-Butanone (MEK)	90	J	100	5.3	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	260		10	2.6	ug/L	10		8260C	Total/NA
Trichloroethene	22		10	2.2	ug/L	10		8260C	Total/NA
Vinyl chloride	11		10	2.9	ug/L	10		8260C	Total/NA
Ethene	11		5.0	1.3	ug/L	10		RSK-175	Total/NA
Methane	11000		5.0	0.80	ug/L	10		RSK-175	Total/NA
TOC Result 1	220		4.0	0.32	mg/L	4		9060A	Total/NA
TOC Result 2	230		4.0	0.32	mg/L	4		9060A	Total/NA
TOC Result 3	220		4.0	0.32	mg/L	4		9060A	Total/NA
TOC Result 4	230		4.0	0.32	mg/L	4		9060A	Total/NA
Total Organic Carbon	220		4.0	0.32	mg/L	4		9060A	Total/NA

Client Sample ID: TB-051016

Lab Sample ID: 240-64671-1

No Detections.

Client Sample ID: G-SWMW-4I-051016

Lab Sample ID: 240-64671-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.2		2.0	0.60	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	3.5		2.0	0.90	ug/L	2		8260C	Total/NA
1,2-Dichloroethane	1.2	J	2.0	0.46	ug/L	2		8260C	Total/NA
2-Butanone (MEK)	140		50	2.7	ug/L	5		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	3.9	J	20	2.0	ug/L	2		8260C	Total/NA
Acetone	2.8	J	20	1.9	ug/L	2		8260C	Total/NA
Chloroethane	6.1		2.0	0.64	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	22		2.0	0.52	ug/L	2		8260C	Total/NA
Vinyl chloride	43		2.0	0.58	ug/L	2		8260C	Total/NA
Ethene	12		0.50	0.13	ug/L	1		RSK-175	Total/NA
Ethane	0.14	J	0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	18000	E	0.50	0.080	ug/L	1		RSK-175	Total/NA
Iron	60000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	780		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	820		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Chloride	74		1.0	0.41	mg/L	1		300.0	Total/NA
Nitrite as N	1.9		0.50	0.19	mg/L	5		300.0	Total/NA
Sulfate	0.18	J	1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	560		20	1.6	mg/L	20		9060A	Total/NA
TOC Result 2	550		20	1.6	mg/L	20		9060A	Total/NA
TOC Result 3	560		20	1.6	mg/L	20		9060A	Total/NA
TOC Result 4	560		20	1.6	mg/L	20		9060A	Total/NA
Total Organic Carbon	560		20	1.6	mg/L	20		9060A	Total/NA
Total Dissolved Solids	2000		20	15	mg/L	1		SM 2540C	Total/NA
Orthophosphate as P	0.19	J	0.50	0.025	mg/L	5		SM 4500 P E	Total/NA

Client Sample ID: G-SWMW-4S-051016

Lab Sample ID: 240-64671-3

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-4S-051016 (Continued)

Lab Sample ID: 240-64671-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	6.3		3.3	1.0	ug/L	3.33		8260C	Total/NA
1,1-Dichloroethene	34		3.3	1.5	ug/L	3.33		8260C	Total/NA
2-Butanone (MEK)	27	J	33	1.8	ug/L	3.33		8260C	Total/NA
Acetone	11	J	33	3.1	ug/L	3.33		8260C	Total/NA
Benzene	1.7	J	3.3	1.2	ug/L	3.33		8260C	Total/NA
Chloroform	3.5		3.3	0.83	ug/L	3.33		8260C	Total/NA
cis-1,2-Dichloroethene	41		3.3	0.87	ug/L	3.33		8260C	Total/NA
Methylene Chloride	1.6	J	3.3	1.1	ug/L	3.33		8260C	Total/NA
Trichloroethene	110		3.3	0.73	ug/L	3.33		8260C	Total/NA
Vinyl chloride	4.4		3.3	0.97	ug/L	3.33		8260C	Total/NA
TOC Result 1	51		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	51		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	52		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	51		1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	51		1.0	0.080	mg/L	1		9060A	Total/NA

Client Sample ID: G-SWMW-5I-051016

Lab Sample ID: 240-64671-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.1	J	6.7	2.0	ug/L	6.67		8260C	Total/NA
1,1-Dichloroethene	37		6.7	3.0	ug/L	6.67		8260C	Total/NA
2-Butanone (MEK)	230		67	3.5	ug/L	6.67		8260C	Total/NA
Benzene	3.0	J	6.7	2.3	ug/L	6.67		8260C	Total/NA
Chloroethane	2.6	J	6.7	2.1	ug/L	6.67		8260C	Total/NA
cis-1,2-Dichloroethene	170		6.7	1.7	ug/L	6.67		8260C	Total/NA
Vinyl chloride	4.5	J	6.7	1.9	ug/L	6.67		8260C	Total/NA
TOC Result 1	550		20	1.6	mg/L	20		9060A	Total/NA
TOC Result 2	550		20	1.6	mg/L	20		9060A	Total/NA
TOC Result 3	550		20	1.6	mg/L	20		9060A	Total/NA
TOC Result 4	550		20	1.6	mg/L	20		9060A	Total/NA
Total Organic Carbon	550		20	1.6	mg/L	20		9060A	Total/NA

Client Sample ID: G-SWMW-2I-051016

Lab Sample ID: 240-64671-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.6		1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	1.1		1.0	0.45	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	30		10	0.53	ug/L	1		8260C	Total/NA
2-Hexanone	0.60	J	10	0.48	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	1.3	J	10	0.99	ug/L	1		8260C	Total/NA
Acetone	14		10	0.94	ug/L	1		8260C	Total/NA
Benzene	16		1.0	0.35	ug/L	1		8260C	Total/NA
Chloroethane	14		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.4		1.0	0.26	ug/L	1		8260C	Total/NA
Isopropylbenzene	0.54	J	1.0	0.35	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.30	J	1.0	0.30	ug/L	1		8260C	Total/NA
Trichloroethene	2.8		1.0	0.22	ug/L	1		8260C	Total/NA
Vinyl chloride	3.5		1.0	0.29	ug/L	1		8260C	Total/NA
Ethene	91		10	2.6	ug/L	20		RSK-175	Total/NA
Methane	16000		10	1.6	ug/L	20		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-2I-051016 (Continued)

Lab Sample ID: 240-64671-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	61000		100	25	ug/L		1	6010C	Total Recoverable
Manganese	2600		15	5.1	ug/L		1	6010C	Total Recoverable
Alkalinity	620		5.0	1.9	mg/L		1	2320B-1997	Total/NA
Chloride	88		1.0	0.41	mg/L		1	300.0	Total/NA
Nitrite as N	0.91		0.50	0.19	mg/L		5	300.0	Total/NA
TOC Result 1	220		10	0.80	mg/L		10	9060A	Total/NA
TOC Result 2	230		10	0.80	mg/L		10	9060A	Total/NA
TOC Result 3	230		10	0.80	mg/L		10	9060A	Total/NA
TOC Result 4	220		10	0.80	mg/L		10	9060A	Total/NA
Total Organic Carbon	230		10	0.80	mg/L		10	9060A	Total/NA
Total Dissolved Solids	1200		10	7.4	mg/L		1	SM 2540C	Total/NA
Orthophosphate as P	0.092	J	0.50	0.025	mg/L		5	SM 4500 P E	Total/NA

Client Sample ID: G-OUTFALL-051016

Lab Sample ID: 240-64671-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.4	J	10	0.94	ug/L		1	8260C	Total/NA
cis-1,2-Dichloroethene	0.62	J	1.0	0.26	ug/L		1	8260C	Total/NA
Trichloroethene	1.2		1.0	0.22	ug/L		1	8260C	Total/NA
Iron	18000		100	25	ug/L		1	6010C	Total Recoverable
Manganese	910		15	5.1	ug/L		1	6010C	Total Recoverable
Alkalinity	250		5.0	1.9	mg/L		1	2320B-1997	Total/NA
Chloride	200		1.0	0.41	mg/L		1	300.0	Total/NA
Nitrate as N	0.12		0.10	0.035	mg/L		1	300.0	Total/NA
Sulfate	50		1.0	0.13	mg/L		1	300.0	Total/NA
TOC Result 1	7.0		1.0	0.080	mg/L		1	9060A	Total/NA
TOC Result 2	6.9		1.0	0.080	mg/L		1	9060A	Total/NA
TOC Result 3	6.9		1.0	0.080	mg/L		1	9060A	Total/NA
TOC Result 4	6.9		1.0	0.080	mg/L		1	9060A	Total/NA
Total Organic Carbon	6.9		1.0	0.080	mg/L		1	9060A	Total/NA
Total Dissolved Solids	580		10	7.4	mg/L		1	SM 2540C	Total/NA
Orthophosphate as P	0.080	J	0.20	0.010	mg/L		2	SM 4500 P E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: TB-050616

Lab Sample ID: 240-64548-1

Date Collected: 05/06/16 00:00

Matrix: Water

Date Received: 05/07/16 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/13/16 15:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/13/16 15:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/13/16 15:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/13/16 15:08	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/13/16 15:08	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/13/16 15:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/13/16 15:08	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/13/16 15:08	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/13/16 15:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/13/16 15:08	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/13/16 15:08	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/13/16 15:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/13/16 15:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/13/16 15:08	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/13/16 15:08	1
2-Hexanone	10	U	10	0.48	ug/L			05/13/16 15:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/13/16 15:08	1
Acetone	10	U	10	0.94	ug/L			05/13/16 15:08	1
Benzene	1.0	U	1.0	0.35	ug/L			05/13/16 15:08	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/13/16 15:08	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/13/16 15:08	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/13/16 15:08	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/13/16 15:08	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/13/16 15:08	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/13/16 15:08	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/13/16 15:08	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/13/16 15:08	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/13/16 15:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/13/16 15:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/13/16 15:08	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/13/16 15:08	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/13/16 15:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/13/16 15:08	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/13/16 15:08	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/13/16 15:08	1
Methyl acetate	10	U	10	2.3	ug/L			05/13/16 15:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/13/16 15:08	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/13/16 15:08	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/13/16 15:08	1
Styrene	1.0	U	1.0	0.45	ug/L			05/13/16 15:08	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/13/16 15:08	1
Toluene	1.0	U	1.0	0.23	ug/L			05/13/16 15:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/13/16 15:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/13/16 15:08	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/13/16 15:08	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/13/16 15:08	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/13/16 15:08	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/13/16 15:08	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: TB-050616

Lab Sample ID: 240-64548-1

Date Collected: 05/06/16 00:00

Matrix: Water

Date Received: 05/07/16 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		05/13/16 15:08	1
Dibromofluoromethane (Surr)	92		79 - 120		05/13/16 15:08	1
4-Bromofluorobenzene (Surr)	81		61 - 120		05/13/16 15:08	1
1,2-Dichloroethane-d4 (Surr)	92		78 - 125		05/13/16 15:08	1

Client Sample ID: MRC-MW-14B-050616

Lab Sample ID: 240-64548-2

Date Collected: 05/06/16 11:50

Matrix: Water

Date Received: 05/07/16 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	2.2	ug/L			05/16/16 10:46	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ug/L			05/16/16 10:46	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	2.3	ug/L			05/16/16 10:46	5
1,1,2-Trichloroethane	5.0	U	5.0	1.2	ug/L			05/16/16 10:46	5
1,1-Dichloroethane	11		5.0	1.5	ug/L			05/16/16 10:46	5
1,1-Dichloroethene	5.0	U	5.0	2.3	ug/L			05/16/16 10:46	5
1,2,4-Trichlorobenzene	5.0	U	5.0	1.6	ug/L			05/16/16 10:46	5
1,2-Dibromo-3-Chloropropane	10	U	10	4.1	ug/L			05/16/16 10:46	5
Ethylene Dibromide	5.0	U	5.0	1.6	ug/L			05/16/16 10:46	5
1,2-Dichlorobenzene	5.0	U	5.0	1.3	ug/L			05/16/16 10:46	5
1,2-Dichloroethane	1.7	J	5.0	1.2	ug/L			05/16/16 10:46	5
1,2-Dichloropropane	5.0	U	5.0	1.3	ug/L			05/16/16 10:46	5
1,3-Dichlorobenzene	5.0	U	5.0	0.95	ug/L			05/16/16 10:46	5
1,4-Dichlorobenzene	5.0	U	5.0	1.4	ug/L			05/16/16 10:46	5
2-Butanone (MEK)	88		50	2.7	ug/L			05/16/16 10:46	5
2-Hexanone	50	U	50	2.4	ug/L			05/16/16 10:46	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			05/16/16 10:46	5
Acetone	13	J	50	4.7	ug/L			05/16/16 10:46	5
Benzene	6.7		5.0	1.8	ug/L			05/16/16 10:46	5
Dichlorobromomethane	5.0	U	5.0	1.5	ug/L			05/16/16 10:46	5
Bromoform	5.0	U	5.0	2.8	ug/L			05/16/16 10:46	5
Bromomethane	5.0	U	5.0	2.2	ug/L			05/16/16 10:46	5
Carbon disulfide	5.0	U	5.0	1.9	ug/L			05/16/16 10:46	5
Carbon tetrachloride	5.0	U	5.0	2.2	ug/L			05/16/16 10:46	5
Chlorobenzene	5.0	U	5.0	1.3	ug/L			05/16/16 10:46	5
Chloroethane	11		5.0	1.6	ug/L			05/16/16 10:46	5
Chloroform	5.0	U	5.0	1.3	ug/L			05/16/16 10:46	5
Chloromethane	5.0	U	5.0	2.2	ug/L			05/16/16 10:46	5
cis-1,2-Dichloroethene	6.9		5.0	1.3	ug/L			05/16/16 10:46	5
cis-1,3-Dichloropropene	5.0	U	5.0	2.3	ug/L			05/16/16 10:46	5
Cyclohexane	5.0	U	5.0	2.3	ug/L			05/16/16 10:46	5
Chlorodibromomethane	5.0	U	5.0	2.2	ug/L			05/16/16 10:46	5
Dichlorodifluoromethane	5.0	U	5.0	1.6	ug/L			05/16/16 10:46	5
Ethylbenzene	5.0	U	5.0	1.3	ug/L			05/16/16 10:46	5
Isopropylbenzene	5.0	U	5.0	1.8	ug/L			05/16/16 10:46	5
Methyl acetate	50	U	50	11	ug/L			05/16/16 10:46	5
Methyl tert-butyl ether	5.0	U	5.0	1.0	ug/L			05/16/16 10:46	5
Methylcyclohexane	5.0	U	5.0	2.2	ug/L			05/16/16 10:46	5
Methylene Chloride	5.0	U	5.0	1.7	ug/L			05/16/16 10:46	5

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: MRC-MW-14B-050616

Lab Sample ID: 240-64548-2

Date Collected: 05/06/16 11:50

Matrix: Water

Date Received: 05/07/16 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	5.0	U	5.0	2.3	ug/L			05/16/16 10:46	5
Tetrachloroethene	5.0	U	5.0	1.6	ug/L			05/16/16 10:46	5
Toluene	5.0	U	5.0	1.2	ug/L			05/16/16 10:46	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.5	ug/L			05/16/16 10:46	5
trans-1,3-Dichloropropene	5.0	U	5.0	2.8	ug/L			05/16/16 10:46	5
Trichloroethene	5.0	U	5.0	1.1	ug/L			05/16/16 10:46	5
Trichlorofluoromethane	5.0	U	5.0	2.5	ug/L			05/16/16 10:46	5
Vinyl chloride	3.0	J	5.0	1.5	ug/L			05/16/16 10:46	5
Xylenes, Total	10	U	10	2.6	ug/L			05/16/16 10:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	111		80 - 120		05/16/16 10:46	5
<i>Dibromofluoromethane (Surr)</i>	109		79 - 120		05/16/16 10:46	5
<i>4-Bromofluorobenzene (Surr)</i>	99		61 - 120		05/16/16 10:46	5
<i>1,2-Dichloroethane-d4 (Surr)</i>	105		78 - 125		05/16/16 10:46	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	54		0.50	0.13	ug/L			05/12/16 06:17	1
Ethane	0.14	J	0.50	0.14	ug/L			05/12/16 06:17	1
Methane	18000		5.0	0.80	ug/L			05/18/16 00:21	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,1,1-Trifluoroethane</i>	66		66 - 132		05/12/16 06:17	1
<i>1,1,1-Trifluoroethane</i>	96		66 - 132		05/18/16 00:21	10

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	130000		100	25	ug/L		05/11/16 10:31	05/12/16 13:46	1
Manganese	4900		15	5.1	ug/L		05/11/16 10:31	05/12/16 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	910		5.0	1.9	mg/L			05/19/16 21:26	1
Chloride	83		1.0	0.41	mg/L			05/07/16 17:23	1
Nitrite as N	0.41		0.10	0.038	mg/L			05/07/16 17:23	1
Sulfate	0.25	J	1.0	0.13	mg/L			05/17/16 15:22	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			05/07/16 17:23	1
Sulfate	0.28	J	1.0	0.13	mg/L			05/07/16 17:23	1
TOC Result 1	340		4.0	0.32	mg/L			05/13/16 09:56	4
TOC Result 2	250		4.0	0.32	mg/L			05/13/16 09:56	4
TOC Result 3	320		4.0	0.32	mg/L			05/13/16 09:56	4
TOC Result 4	260		4.0	0.32	mg/L			05/13/16 09:56	4
Total Organic Carbon	290		4.0	0.32	mg/L			05/13/16 09:56	4
Total Dissolved Solids	1600		20	15	mg/L			05/11/16 10:11	1
Orthophosphate as P	0.11		0.10	0.0050	mg/L			05/07/16 14:38	1

Client Sample Results

Client: Tetra Tech, Inc.
 Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: SWMW-11-050616

Lab Sample ID: 240-64548-3

Date Collected: 05/06/16 13:25

Matrix: Water

Date Received: 05/07/16 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/13/16 15:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/13/16 15:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.68	J	1.0	0.45	ug/L			05/13/16 15:54	1
1,1,2-Trichloroethane	0.40	J	1.0	0.24	ug/L			05/13/16 15:54	1
1,1-Dichloroethane	24		1.0	0.30	ug/L			05/13/16 15:54	1
1,1-Dichloroethene	0.51	J	1.0	0.45	ug/L			05/13/16 15:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/13/16 15:54	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/13/16 15:54	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/13/16 15:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/13/16 15:54	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/13/16 15:54	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/13/16 15:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/13/16 15:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/13/16 15:54	1
2-Butanone (MEK)	4.2	J	10	0.53	ug/L			05/13/16 15:54	1
2-Hexanone	10	U	10	0.48	ug/L			05/13/16 15:54	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/13/16 15:54	1
Acetone	2.8	J	10	0.94	ug/L			05/13/16 15:54	1
Benzene	11		1.0	0.35	ug/L			05/13/16 15:54	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/13/16 15:54	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/13/16 15:54	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/13/16 15:54	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/13/16 15:54	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/13/16 15:54	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/13/16 15:54	1
Chloroethane	1.6		1.0	0.32	ug/L			05/13/16 15:54	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/13/16 15:54	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/13/16 15:54	1
cis-1,2-Dichloroethene	1.2		1.0	0.26	ug/L			05/13/16 15:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/13/16 15:54	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/13/16 15:54	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/13/16 15:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/13/16 15:54	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/13/16 15:54	1
Isopropylbenzene	0.61	J	1.0	0.35	ug/L			05/13/16 15:54	1
Methyl acetate	10	U	10	2.3	ug/L			05/13/16 15:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/13/16 15:54	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/13/16 15:54	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/13/16 15:54	1
Styrene	1.0	U	1.0	0.45	ug/L			05/13/16 15:54	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/13/16 15:54	1
Toluene	1.0	U	1.0	0.23	ug/L			05/13/16 15:54	1
trans-1,2-Dichloroethene	0.93	J	1.0	0.30	ug/L			05/13/16 15:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/13/16 15:54	1
Trichloroethene	2.2		1.0	0.22	ug/L			05/13/16 15:54	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/13/16 15:54	1
Vinyl chloride	27		1.0	0.29	ug/L			05/13/16 15:54	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/13/16 15:54	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: SWMW-11-050616

Lab Sample ID: 240-64548-3

Date Collected: 05/06/16 13:25

Matrix: Water

Date Received: 05/07/16 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	117		80 - 120		05/13/16 15:54	1
Dibromofluoromethane (Surr)	119		79 - 120		05/13/16 15:54	1
4-Bromofluorobenzene (Surr)	102		61 - 120		05/13/16 15:54	1
1,2-Dichloroethane-d4 (Surr)	113		78 - 125		05/13/16 15:54	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	140		5.0	1.3	ug/L			05/18/16 01:13	10
Ethane	5.0	U	5.0	1.4	ug/L			05/18/16 01:13	10
Methane	14000		5.0	0.80	ug/L			05/18/16 01:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	92		66 - 132		05/18/16 01:13	10

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6200		100	25	ug/L		05/11/16 10:31	05/12/16 13:50	1
Manganese	3300		15	5.1	ug/L		05/11/16 10:31	05/12/16 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	340		5.0	1.9	mg/L			05/19/16 21:16	1
Chloride	70		1.0	0.41	mg/L			05/07/16 18:29	1
Nitrite as N	0.10	U	0.10	0.038	mg/L			05/07/16 18:29	1
Sulfate	4.7		1.0	0.13	mg/L			05/12/16 20:04	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			05/07/16 18:29	1
Sulfate	2.0		1.0	0.13	mg/L			05/07/16 18:29	1
TOC Result 1	35		1.0	0.080	mg/L			05/13/16 10:21	1
TOC Result 2	39		1.0	0.080	mg/L			05/13/16 10:21	1
TOC Result 3	38		1.0	0.080	mg/L			05/13/16 10:21	1
TOC Result 4	40		1.0	0.080	mg/L			05/13/16 10:21	1
Total Organic Carbon	38		1.0	0.080	mg/L			05/13/16 10:21	1
Total Dissolved Solids	520		10	7.4	mg/L			05/11/16 10:11	1
Orthophosphate as P	0.11		0.10	0.0050	mg/L			05/07/16 14:35	1

Client Sample ID: TB-050916

Lab Sample ID: 240-64615-1

Date Collected: 05/09/16 00:00

Matrix: Water

Date Received: 05/10/16 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/16/16 12:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/16/16 12:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/16/16 12:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/16/16 12:16	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/16/16 12:16	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/16/16 12:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/16/16 12:16	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/16/16 12:16	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/16/16 12:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/16/16 12:16	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: TB-050916

Lab Sample ID: 240-64615-1

Date Collected: 05/09/16 00:00

Matrix: Water

Date Received: 05/10/16 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/16/16 12:16	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/16/16 12:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/16/16 12:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/16/16 12:16	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/16/16 12:16	1
2-Hexanone	10	U	10	0.48	ug/L			05/16/16 12:16	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/16/16 12:16	1
Acetone	10	U	10	0.94	ug/L			05/16/16 12:16	1
Benzene	1.0	U	1.0	0.35	ug/L			05/16/16 12:16	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/16/16 12:16	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/16/16 12:16	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/16/16 12:16	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/16/16 12:16	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/16/16 12:16	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/16/16 12:16	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/16/16 12:16	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/16/16 12:16	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/16/16 12:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/16/16 12:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/16/16 12:16	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/16/16 12:16	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/16/16 12:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/16/16 12:16	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/16/16 12:16	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/16/16 12:16	1
Methyl acetate	10	U	10	2.3	ug/L			05/16/16 12:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/16/16 12:16	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/16/16 12:16	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/16/16 12:16	1
Styrene	1.0	U	1.0	0.45	ug/L			05/16/16 12:16	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/16/16 12:16	1
Toluene	1.0	U	1.0	0.23	ug/L			05/16/16 12:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/16/16 12:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/16/16 12:16	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/16/16 12:16	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/16/16 12:16	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/16/16 12:16	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/16/16 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		80 - 120		05/16/16 12:16	1
Dibromofluoromethane (Surr)	92		79 - 120		05/16/16 12:16	1
4-Bromofluorobenzene (Surr)	81		61 - 120		05/16/16 12:16	1
1,2-Dichloroethane-d4 (Surr)	90		78 - 125		05/16/16 12:16	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: MRC-MW-12A-050916

Lab Sample ID: 240-64615-2

Date Collected: 05/09/16 10:55

Matrix: Water

Date Received: 05/10/16 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	33	U	33	15	ug/L			05/16/16 12:38	33.33
1,1,2,2-Tetrachloroethane	33	U	33	7.3	ug/L			05/16/16 12:38	33.33
1,1,2-Trichloro-1,2,2-trifluoroethane	33	U	33	15	ug/L			05/16/16 12:38	33.33
1,1,2-Trichloroethane	33	U	33	8.0	ug/L			05/16/16 12:38	33.33
1,1-Dichloroethane	21	J	33	10	ug/L			05/16/16 12:38	33.33
1,1-Dichloroethene	140		33	15	ug/L			05/16/16 12:38	33.33
1,2,4-Trichlorobenzene	33	U	33	11	ug/L			05/16/16 12:38	33.33
1,2-Dibromo-3-Chloropropane	67	U	67	27	ug/L			05/16/16 12:38	33.33
Ethylene Dibromide	33	U	33	11	ug/L			05/16/16 12:38	33.33
1,2-Dichlorobenzene	33	U	33	8.3	ug/L			05/16/16 12:38	33.33
1,2-Dichloroethane	33	U	33	7.7	ug/L			05/16/16 12:38	33.33
1,2-Dichloropropane	33	U	33	8.3	ug/L			05/16/16 12:38	33.33
1,3-Dichlorobenzene	33	U	33	6.3	ug/L			05/16/16 12:38	33.33
1,4-Dichlorobenzene	33	U	33	9.0	ug/L			05/16/16 12:38	33.33
2-Butanone (MEK)	330	U	330	18	ug/L			05/16/16 12:38	33.33
2-Hexanone	330	U	330	16	ug/L			05/16/16 12:38	33.33
4-Methyl-2-pentanone (MIBK)	330	U	330	33	ug/L			05/16/16 12:38	33.33
Acetone	330	U	330	31	ug/L			05/16/16 12:38	33.33
Benzene	33	U	33	12	ug/L			05/16/16 12:38	33.33
Dichlorobromomethane	33	U	33	9.7	ug/L			05/16/16 12:38	33.33
Bromoform	33	U	33	19	ug/L			05/16/16 12:38	33.33
Bromomethane	33	U	33	15	ug/L			05/16/16 12:38	33.33
Carbon disulfide	33	U	33	13	ug/L			05/16/16 12:38	33.33
Carbon tetrachloride	33	U	33	14	ug/L			05/16/16 12:38	33.33
Chlorobenzene	33	U	33	8.3	ug/L			05/16/16 12:38	33.33
Chloroethane	33	U	33	11	ug/L			05/16/16 12:38	33.33
Chloroform	33	U	33	8.3	ug/L			05/16/16 12:38	33.33
Chloromethane	33	U	33	15	ug/L			05/16/16 12:38	33.33
cis-1,2-Dichloroethene	590		33	8.7	ug/L			05/16/16 12:38	33.33
cis-1,3-Dichloropropene	33	U	33	15	ug/L			05/16/16 12:38	33.33
Cyclohexane	33	U	33	15	ug/L			05/16/16 12:38	33.33
Chlorodibromomethane	33	U	33	14	ug/L			05/16/16 12:38	33.33
Dichlorodifluoromethane	33	U	33	11	ug/L			05/16/16 12:38	33.33
Ethylbenzene	33	U	33	8.3	ug/L			05/16/16 12:38	33.33
Isopropylbenzene	33	U	33	12	ug/L			05/16/16 12:38	33.33
Methyl acetate	330	U	330	76	ug/L			05/16/16 12:38	33.33
Methyl tert-butyl ether	33	U	33	6.7	ug/L			05/16/16 12:38	33.33
Methylcyclohexane	33	U	33	14	ug/L			05/16/16 12:38	33.33
Methylene Chloride	33	U	33	11	ug/L			05/16/16 12:38	33.33
Styrene	33	U	33	15	ug/L			05/16/16 12:38	33.33
Tetrachloroethene	33	U	33	10	ug/L			05/16/16 12:38	33.33
Toluene	33	U	33	7.7	ug/L			05/16/16 12:38	33.33
trans-1,2-Dichloroethene	33	U	33	10	ug/L			05/16/16 12:38	33.33
trans-1,3-Dichloropropene	33	U	33	19	ug/L			05/16/16 12:38	33.33
Trichloroethene	7.8	J	33	7.3	ug/L			05/16/16 12:38	33.33
Trichlorofluoromethane	33	U	33	16	ug/L			05/16/16 12:38	33.33
Vinyl chloride	32	J	33	9.7	ug/L			05/16/16 12:38	33.33
Xylenes, Total	67	U	67	17	ug/L			05/16/16 12:38	33.33

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: MRC-MW-12A-050916

Lab Sample ID: 240-64615-2

Date Collected: 05/09/16 10:55

Matrix: Water

Date Received: 05/10/16 10:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		80 - 120		05/16/16 12:38	33.33
Dibromofluoromethane (Surr)	91		79 - 120		05/16/16 12:38	33.33
4-Bromofluorobenzene (Surr)	79		61 - 120		05/16/16 12:38	33.33
1,2-Dichloroethane-d4 (Surr)	90		78 - 125		05/16/16 12:38	33.33

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	9.7		5.0	1.3	ug/L			05/20/16 17:18	10
Ethane	5.0	U	5.0	1.4	ug/L			05/20/16 17:18	10
Methane	5000		5.0	0.80	ug/L			05/20/16 17:18	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	102		66 - 132		05/20/16 17:18	10

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	110000		100	25	ug/L		05/13/16 10:47	05/17/16 10:11	1
Manganese	4500		15	5.1	ug/L		05/13/16 10:47	05/17/16 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	93		5.0	1.9	mg/L			05/20/16 17:43	1
Chloride	67		1.0	0.41	mg/L			05/10/16 17:49	1
Nitrite as N	0.10	U	0.10	0.038	mg/L			05/10/16 17:49	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			05/10/16 17:49	1
Sulfate	0.52	J	1.0	0.13	mg/L			05/10/16 17:49	1
TOC Result 1	5.9		1.0	0.080	mg/L			05/13/16 10:49	1
TOC Result 2	3.5		1.0	0.080	mg/L			05/13/16 10:49	1
TOC Result 3	5.2		1.0	0.080	mg/L			05/13/16 10:49	1
TOC Result 4	2.3		1.0	0.080	mg/L			05/13/16 10:49	1
Total Organic Carbon	4.2		1.0	0.080	mg/L			05/13/16 10:49	1
Total Dissolved Solids	370		10	7.4	mg/L			05/11/16 10:11	1
Orthophosphate as P	0.014	J	0.20	0.010	mg/L			05/10/16 16:23	2

Client Sample ID: MRC-MW-12B-050916

Lab Sample ID: 240-64615-3

Date Collected: 05/09/16 12:20

Matrix: Water

Date Received: 05/10/16 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	20	U	20	8.8	ug/L			05/16/16 13:00	20
1,1,2,2-Tetrachloroethane	20	U	20	4.4	ug/L			05/16/16 13:00	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	9.0	ug/L			05/16/16 13:00	20
1,1,2-Trichloroethane	20	U	20	4.8	ug/L			05/16/16 13:00	20
1,1-Dichloroethane	14	J	20	6.0	ug/L			05/16/16 13:00	20
1,1-Dichloroethene	95		20	9.0	ug/L			05/16/16 13:00	20
1,2,4-Trichlorobenzene	20	U	20	6.4	ug/L			05/16/16 13:00	20
1,2-Dibromo-3-Chloropropane	40	U	40	16	ug/L			05/16/16 13:00	20
Ethylene Dibromide	20	U	20	6.4	ug/L			05/16/16 13:00	20
1,2-Dichlorobenzene	20	U	20	5.0	ug/L			05/16/16 13:00	20
1,2-Dichloroethane	20	U	20	4.6	ug/L			05/16/16 13:00	20

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: MRC-MW-12B-050916

Lab Sample ID: 240-64615-3

Date Collected: 05/09/16 12:20

Matrix: Water

Date Received: 05/10/16 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	20	U	20	5.0	ug/L			05/16/16 13:00	20
1,3-Dichlorobenzene	20	U	20	3.8	ug/L			05/16/16 13:00	20
1,4-Dichlorobenzene	20	U	20	5.4	ug/L			05/16/16 13:00	20
2-Butanone (MEK)	200	U	200	11	ug/L			05/16/16 13:00	20
2-Hexanone	200	U	200	9.6	ug/L			05/16/16 13:00	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			05/16/16 13:00	20
Acetone	200	U	200	19	ug/L			05/16/16 13:00	20
Benzene	20	U	20	7.0	ug/L			05/16/16 13:00	20
Dichlorobromomethane	20	U	20	5.8	ug/L			05/16/16 13:00	20
Bromoform	20	U	20	11	ug/L			05/16/16 13:00	20
Bromomethane	20	U	20	8.8	ug/L			05/16/16 13:00	20
Carbon disulfide	20	U	20	7.6	ug/L			05/16/16 13:00	20
Carbon tetrachloride	20	U	20	8.6	ug/L			05/16/16 13:00	20
Chlorobenzene	20	U	20	5.0	ug/L			05/16/16 13:00	20
Chloroethane	20	U	20	6.4	ug/L			05/16/16 13:00	20
Chloroform	20	U	20	5.0	ug/L			05/16/16 13:00	20
Chloromethane	20	U	20	8.8	ug/L			05/16/16 13:00	20
cis-1,2-Dichloroethene	190		20	5.2	ug/L			05/16/16 13:00	20
cis-1,3-Dichloropropene	20	U	20	9.2	ug/L			05/16/16 13:00	20
Cyclohexane	20	U	20	9.0	ug/L			05/16/16 13:00	20
Chlorodibromomethane	20	U	20	8.6	ug/L			05/16/16 13:00	20
Dichlorodifluoromethane	20	U	20	6.4	ug/L			05/16/16 13:00	20
Ethylbenzene	20	U	20	5.0	ug/L			05/16/16 13:00	20
Isopropylbenzene	20	U	20	7.0	ug/L			05/16/16 13:00	20
Methyl acetate	200	U	200	45	ug/L			05/16/16 13:00	20
Methyl tert-butyl ether	20	U	20	4.0	ug/L			05/16/16 13:00	20
Methylcyclohexane	20	U	20	8.6	ug/L			05/16/16 13:00	20
Methylene Chloride	20	U	20	6.6	ug/L			05/16/16 13:00	20
Styrene	20	U	20	9.0	ug/L			05/16/16 13:00	20
Tetrachloroethene	20	U	20	6.2	ug/L			05/16/16 13:00	20
Toluene	20	U	20	4.6	ug/L			05/16/16 13:00	20
trans-1,2-Dichloroethene	20	U	20	6.0	ug/L			05/16/16 13:00	20
trans-1,3-Dichloropropene	20	U	20	11	ug/L			05/16/16 13:00	20
Trichloroethene	490		20	4.4	ug/L			05/16/16 13:00	20
Trichlorofluoromethane	20	U	20	9.8	ug/L			05/16/16 13:00	20
Vinyl chloride	20	U	20	5.8	ug/L			05/16/16 13:00	20
Xylenes, Total	40	U	40	10	ug/L			05/16/16 13:00	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	109		80 - 120		05/16/16 13:00	20
<i>Dibromofluoromethane (Surr)</i>	108		79 - 120		05/16/16 13:00	20
<i>4-Bromofluorobenzene (Surr)</i>	95		61 - 120		05/16/16 13:00	20
<i>1,2-Dichloroethane-d4 (Surr)</i>	110		78 - 125		05/16/16 13:00	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.0	U	1.0	0.080	mg/L			05/13/16 11:30	1
TOC Result 2	1.0	U	1.0	0.080	mg/L			05/13/16 11:30	1
TOC Result 3	1.0	U	1.0	0.080	mg/L			05/13/16 11:30	1
TOC Result 4	1.0	U	1.0	0.080	mg/L			05/13/16 11:30	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: MRC-MW-12B-050916

Lab Sample ID: 240-64615-3

Date Collected: 05/09/16 12:20

Matrix: Water

Date Received: 05/10/16 10:05

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			05/13/16 11:30	1

Client Sample ID: G-SWMW-3I-050916

Lab Sample ID: 240-64615-4

Date Collected: 05/09/16 14:15

Matrix: Water

Date Received: 05/10/16 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10	U	10	4.4	ug/L			05/16/16 13:22	10
1,1,2,2-Tetrachloroethane	10	U	10	2.2	ug/L			05/16/16 13:22	10
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	4.5	ug/L			05/16/16 13:22	10
1,1,2-Trichloroethane	10	U	10	2.4	ug/L			05/16/16 13:22	10
1,1-Dichloroethane	9.4	J	10	3.0	ug/L			05/16/16 13:22	10
1,1-Dichloroethene	70		10	4.5	ug/L			05/16/16 13:22	10
1,2,4-Trichlorobenzene	10	U	10	3.2	ug/L			05/16/16 13:22	10
1,2-Dibromo-3-Chloropropane	20	U	20	8.2	ug/L			05/16/16 13:22	10
Ethylene Dibromide	10	U	10	3.2	ug/L			05/16/16 13:22	10
1,2-Dichlorobenzene	10	U	10	2.5	ug/L			05/16/16 13:22	10
1,2-Dichloroethane	10	U	10	2.3	ug/L			05/16/16 13:22	10
1,2-Dichloropropane	10	U	10	2.5	ug/L			05/16/16 13:22	10
1,3-Dichlorobenzene	10	U	10	1.9	ug/L			05/16/16 13:22	10
1,4-Dichlorobenzene	10	U	10	2.7	ug/L			05/16/16 13:22	10
2-Butanone (MEK)	90	J	100	5.3	ug/L			05/16/16 13:22	10
2-Hexanone	100	U	100	4.8	ug/L			05/16/16 13:22	10
4-Methyl-2-pentanone (MIBK)	100	U	100	9.9	ug/L			05/16/16 13:22	10
Acetone	100	U	100	9.4	ug/L			05/16/16 13:22	10
Benzene	10	U	10	3.5	ug/L			05/16/16 13:22	10
Dichlorobromomethane	10	U	10	2.9	ug/L			05/16/16 13:22	10
Bromoform	10	U	10	5.6	ug/L			05/16/16 13:22	10
Bromomethane	10	U	10	4.4	ug/L			05/16/16 13:22	10
Carbon disulfide	10	U	10	3.8	ug/L			05/16/16 13:22	10
Carbon tetrachloride	10	U	10	4.3	ug/L			05/16/16 13:22	10
Chlorobenzene	10	U	10	2.5	ug/L			05/16/16 13:22	10
Chloroethane	10	U	10	3.2	ug/L			05/16/16 13:22	10
Chloroform	10	U	10	2.5	ug/L			05/16/16 13:22	10
Chloromethane	10	U	10	4.4	ug/L			05/16/16 13:22	10
cis-1,2-Dichloroethene	260		10	2.6	ug/L			05/16/16 13:22	10
cis-1,3-Dichloropropene	10	U	10	4.6	ug/L			05/16/16 13:22	10
Cyclohexane	10	U	10	4.5	ug/L			05/16/16 13:22	10
Chlorodibromomethane	10	U	10	4.3	ug/L			05/16/16 13:22	10
Dichlorodifluoromethane	10	U	10	3.2	ug/L			05/16/16 13:22	10
Ethylbenzene	10	U	10	2.5	ug/L			05/16/16 13:22	10
Isopropylbenzene	10	U	10	3.5	ug/L			05/16/16 13:22	10
Methyl acetate	100	U	100	23	ug/L			05/16/16 13:22	10
Methyl tert-butyl ether	10	U	10	2.0	ug/L			05/16/16 13:22	10
Methylcyclohexane	10	U	10	4.3	ug/L			05/16/16 13:22	10
Methylene Chloride	10	U	10	3.3	ug/L			05/16/16 13:22	10
Styrene	10	U	10	4.5	ug/L			05/16/16 13:22	10
Tetrachloroethene	10	U	10	3.1	ug/L			05/16/16 13:22	10
Toluene	10	U	10	2.3	ug/L			05/16/16 13:22	10

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-3I-050916

Lab Sample ID: 240-64615-4

Date Collected: 05/09/16 14:15

Matrix: Water

Date Received: 05/10/16 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	10	U	10	3.0	ug/L			05/16/16 13:22	10
trans-1,3-Dichloropropene	10	U	10	5.6	ug/L			05/16/16 13:22	10
Trichloroethene	22		10	2.2	ug/L			05/16/16 13:22	10
Trichlorofluoromethane	10	U	10	4.9	ug/L			05/16/16 13:22	10
Vinyl chloride	11		10	2.9	ug/L			05/16/16 13:22	10
Xylenes, Total	20	U	20	5.2	ug/L			05/16/16 13:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		80 - 120		05/16/16 13:22	10
Dibromofluoromethane (Surr)	91		79 - 120		05/16/16 13:22	10
4-Bromofluorobenzene (Surr)	78		61 - 120		05/16/16 13:22	10
1,2-Dichloroethane-d4 (Surr)	88		78 - 125		05/16/16 13:22	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	11		5.0	1.3	ug/L			05/20/16 17:36	10
Ethane	5.0	U	5.0	1.4	ug/L			05/20/16 17:36	10
Methane	11000		5.0	0.80	ug/L			05/20/16 17:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	101		66 - 132		05/20/16 17:36	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	220		4.0	0.32	mg/L			05/13/16 11:54	4
TOC Result 2	230		4.0	0.32	mg/L			05/13/16 11:54	4
TOC Result 3	220		4.0	0.32	mg/L			05/13/16 11:54	4
TOC Result 4	230		4.0	0.32	mg/L			05/13/16 11:54	4
Total Organic Carbon	220		4.0	0.32	mg/L			05/13/16 11:54	4

Client Sample ID: TB-051016

Lab Sample ID: 240-64671-1

Date Collected: 05/10/16 00:00

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/18/16 12:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/18/16 12:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/18/16 12:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/18/16 12:57	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/18/16 12:57	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/18/16 12:57	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/18/16 12:57	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/18/16 12:57	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/18/16 12:57	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/16 12:57	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/18/16 12:57	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/18/16 12:57	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/18/16 12:57	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/18/16 12:57	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/18/16 12:57	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: TB-051016

Lab Sample ID: 240-64671-1

Date Collected: 05/10/16 00:00

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	10	U	10	0.48	ug/L			05/18/16 12:57	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/18/16 12:57	1
Acetone	10	U	10	0.94	ug/L			05/18/16 12:57	1
Benzene	1.0	U	1.0	0.35	ug/L			05/18/16 12:57	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/18/16 12:57	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/18/16 12:57	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/18/16 12:57	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/18/16 12:57	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/18/16 12:57	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/16 12:57	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/18/16 12:57	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/18/16 12:57	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/18/16 12:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/18/16 12:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/18/16 12:57	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/18/16 12:57	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/18/16 12:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/18/16 12:57	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/18/16 12:57	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/18/16 12:57	1
Methyl acetate	10	U	10	2.3	ug/L			05/18/16 12:57	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/18/16 12:57	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/18/16 12:57	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/18/16 12:57	1
Styrene	1.0	U	1.0	0.45	ug/L			05/18/16 12:57	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/18/16 12:57	1
Toluene	1.0	U	1.0	0.23	ug/L			05/18/16 12:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/18/16 12:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/18/16 12:57	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/18/16 12:57	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/18/16 12:57	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/18/16 12:57	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/18/16 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		05/18/16 12:57	1
Dibromofluoromethane (Surr)	94		79 - 120		05/18/16 12:57	1
4-Bromofluorobenzene (Surr)	83		61 - 120		05/18/16 12:57	1
1,2-Dichloroethane-d4 (Surr)	91		78 - 125		05/18/16 12:57	1

Client Sample ID: G-SWMW-4I-051016

Lab Sample ID: 240-64671-2

Date Collected: 05/10/16 10:00

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0	0.88	ug/L			05/18/16 13:20	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.44	ug/L			05/18/16 13:20	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.90	ug/L			05/18/16 13:20	2
1,1,2-Trichloroethane	2.0	U	2.0	0.48	ug/L			05/18/16 13:20	2

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-4I-051016

Lab Sample ID: 240-64671-2

Date Collected: 05/10/16 10:00

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	2.2		2.0	0.60	ug/L			05/18/16 13:20	2
1,1-Dichloroethene	3.5		2.0	0.90	ug/L			05/18/16 13:20	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.64	ug/L			05/18/16 13:20	2
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			05/18/16 13:20	2
Ethylene Dibromide	2.0	U	2.0	0.64	ug/L			05/18/16 13:20	2
1,2-Dichlorobenzene	2.0	U	2.0	0.50	ug/L			05/18/16 13:20	2
1,2-Dichloroethane	1.2	J	2.0	0.46	ug/L			05/18/16 13:20	2
1,2-Dichloropropane	2.0	U	2.0	0.50	ug/L			05/18/16 13:20	2
1,3-Dichlorobenzene	2.0	U	2.0	0.38	ug/L			05/18/16 13:20	2
1,4-Dichlorobenzene	2.0	U	2.0	0.54	ug/L			05/18/16 13:20	2
2-Butanone (MEK)	140		50	2.7	ug/L			05/19/16 11:47	5
2-Hexanone	20	U	20	0.96	ug/L			05/18/16 13:20	2
4-Methyl-2-pentanone (MIBK)	3.9	J	20	2.0	ug/L			05/18/16 13:20	2
Acetone	2.8	J	20	1.9	ug/L			05/18/16 13:20	2
Benzene	2.0	U	2.0	0.70	ug/L			05/18/16 13:20	2
Dichlorobromomethane	2.0	U	2.0	0.58	ug/L			05/18/16 13:20	2
Bromoform	2.0	U	2.0	1.1	ug/L			05/18/16 13:20	2
Bromomethane	2.0	U	2.0	0.88	ug/L			05/18/16 13:20	2
Carbon disulfide	2.0	U	2.0	0.76	ug/L			05/18/16 13:20	2
Carbon tetrachloride	2.0	U	2.0	0.86	ug/L			05/18/16 13:20	2
Chlorobenzene	2.0	U	2.0	0.50	ug/L			05/18/16 13:20	2
Chloroethane	6.1		2.0	0.64	ug/L			05/18/16 13:20	2
Chloroform	2.0	U	2.0	0.50	ug/L			05/18/16 13:20	2
Chloromethane	2.0	U	2.0	0.88	ug/L			05/18/16 13:20	2
cis-1,2-Dichloroethene	22		2.0	0.52	ug/L			05/18/16 13:20	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.92	ug/L			05/18/16 13:20	2
Cyclohexane	2.0	U	2.0	0.90	ug/L			05/18/16 13:20	2
Chlorodibromomethane	2.0	U	2.0	0.86	ug/L			05/18/16 13:20	2
Dichlorodifluoromethane	2.0	U	2.0	0.64	ug/L			05/18/16 13:20	2
Ethylbenzene	2.0	U	2.0	0.50	ug/L			05/18/16 13:20	2
Isopropylbenzene	2.0	U	2.0	0.70	ug/L			05/18/16 13:20	2
Methyl acetate	20	U	20	4.5	ug/L			05/18/16 13:20	2
Methyl tert-butyl ether	2.0	U	2.0	0.40	ug/L			05/18/16 13:20	2
Methylcyclohexane	2.0	U	2.0	0.86	ug/L			05/18/16 13:20	2
Methylene Chloride	2.0	U	2.0	0.66	ug/L			05/18/16 13:20	2
Styrene	2.0	U	2.0	0.90	ug/L			05/18/16 13:20	2
Tetrachloroethene	2.0	U	2.0	0.62	ug/L			05/18/16 13:20	2
Toluene	2.0	U	2.0	0.46	ug/L			05/18/16 13:20	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.60	ug/L			05/18/16 13:20	2
trans-1,3-Dichloropropene	2.0	U	2.0	1.1	ug/L			05/18/16 13:20	2
Trichloroethene	2.0	U	2.0	0.44	ug/L			05/18/16 13:20	2
Trichlorofluoromethane	2.0	U	2.0	0.98	ug/L			05/18/16 13:20	2
Vinyl chloride	43		2.0	0.58	ug/L			05/18/16 13:20	2
Xylenes, Total	4.0	U	4.0	1.0	ug/L			05/18/16 13:20	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	91		80 - 120		05/18/16 13:20	2
<i>Toluene-d8 (Surr)</i>	100		80 - 120		05/19/16 11:47	5
<i>Dibromofluoromethane (Surr)</i>	93		79 - 120		05/18/16 13:20	2
<i>Dibromofluoromethane (Surr)</i>	99		79 - 120		05/19/16 11:47	5

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-4I-051016

Lab Sample ID: 240-64671-2

Date Collected: 05/10/16 10:00

Matrix: Water

Date Received: 05/11/16 09:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		61 - 120		05/18/16 13:20	2
4-Bromofluorobenzene (Surr)	96		61 - 120		05/19/16 11:47	5
1,2-Dichloroethane-d4 (Surr)	90		78 - 125		05/18/16 13:20	2
1,2-Dichloroethane-d4 (Surr)	109		78 - 125		05/19/16 11:47	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	12		0.50	0.13	ug/L			05/24/16 16:02	1
Ethane	0.14	J	0.50	0.14	ug/L			05/24/16 16:02	1
Methane	18000	E	0.50	0.080	ug/L			05/24/16 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	93		66 - 132		05/24/16 16:02	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	60000		100	25	ug/L		05/13/16 11:47	05/18/16 14:23	1
Manganese	780		15	5.1	ug/L		05/13/16 11:47	05/18/16 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	820		5.0	1.9	mg/L			05/20/16 19:15	1
Chloride	74		1.0	0.41	mg/L			05/11/16 21:31	1
Nitrite as N	1.9		0.50	0.19	mg/L			05/11/16 21:47	5
Nitrate as N	0.50	U	0.50	0.18	mg/L			05/11/16 21:47	5
Sulfate	0.18	J	1.0	0.13	mg/L			05/11/16 21:31	1
TOC Result 1	560		20	1.6	mg/L			05/22/16 04:05	20
TOC Result 2	550		20	1.6	mg/L			05/22/16 04:05	20
TOC Result 3	560		20	1.6	mg/L			05/22/16 04:05	20
TOC Result 4	560		20	1.6	mg/L			05/22/16 04:05	20
Total Organic Carbon	560		20	1.6	mg/L			05/22/16 04:05	20
Total Dissolved Solids	2000		20	15	mg/L			05/13/16 09:46	1
Orthophosphate as P	0.19	J	0.50	0.025	mg/L			05/11/16 14:52	5

Client Sample ID: G-SWMW-4S-051016

Lab Sample ID: 240-64671-3

Date Collected: 05/10/16 11:10

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.3	U	3.3	1.5	ug/L			05/18/16 13:42	3.33
1,1,2,2-Tetrachloroethane	3.3	U	3.3	0.73	ug/L			05/18/16 13:42	3.33
1,1,2-Trichloro-1,2,2-trifluoroethane	3.3	U	3.3	1.5	ug/L			05/18/16 13:42	3.33
1,1,2-Trichloroethane	3.3	U	3.3	0.80	ug/L			05/18/16 13:42	3.33
1,1-Dichloroethane	6.3		3.3	1.0	ug/L			05/18/16 13:42	3.33
1,1-Dichloroethene	34		3.3	1.5	ug/L			05/18/16 13:42	3.33
1,2,4-Trichlorobenzene	3.3	U	3.3	1.1	ug/L			05/18/16 13:42	3.33
1,2-Dibromo-3-Chloropropane	6.7	U	6.7	2.7	ug/L			05/18/16 13:42	3.33
Ethylene Dibromide	3.3	U	3.3	1.1	ug/L			05/18/16 13:42	3.33
1,2-Dichlorobenzene	3.3	U	3.3	0.83	ug/L			05/18/16 13:42	3.33

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-4S-051016

Lab Sample ID: 240-64671-3

Date Collected: 05/10/16 11:10

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	3.3	U	3.3	0.77	ug/L			05/18/16 13:42	3.33
1,2-Dichloropropane	3.3	U	3.3	0.83	ug/L			05/18/16 13:42	3.33
1,3-Dichlorobenzene	3.3	U	3.3	0.63	ug/L			05/18/16 13:42	3.33
1,4-Dichlorobenzene	3.3	U	3.3	0.90	ug/L			05/18/16 13:42	3.33
2-Butanone (MEK)	27	J	33	1.8	ug/L			05/18/16 13:42	3.33
2-Hexanone	33	U	33	1.6	ug/L			05/18/16 13:42	3.33
4-Methyl-2-pentanone (MIBK)	33	U	33	3.3	ug/L			05/18/16 13:42	3.33
Acetone	11	J	33	3.1	ug/L			05/18/16 13:42	3.33
Benzene	1.7	J	3.3	1.2	ug/L			05/18/16 13:42	3.33
Dichlorobromomethane	3.3	U	3.3	0.97	ug/L			05/18/16 13:42	3.33
Bromoform	3.3	U	3.3	1.9	ug/L			05/18/16 13:42	3.33
Bromomethane	3.3	U	3.3	1.5	ug/L			05/18/16 13:42	3.33
Carbon disulfide	3.3	U	3.3	1.3	ug/L			05/18/16 13:42	3.33
Carbon tetrachloride	3.3	U	3.3	1.4	ug/L			05/18/16 13:42	3.33
Chlorobenzene	3.3	U	3.3	0.83	ug/L			05/18/16 13:42	3.33
Chloroethane	3.3	U	3.3	1.1	ug/L			05/18/16 13:42	3.33
Chloroform	3.5		3.3	0.83	ug/L			05/18/16 13:42	3.33
Chloromethane	3.3	U	3.3	1.5	ug/L			05/18/16 13:42	3.33
cis-1,2-Dichloroethene	41		3.3	0.87	ug/L			05/18/16 13:42	3.33
cis-1,3-Dichloropropene	3.3	U	3.3	1.5	ug/L			05/18/16 13:42	3.33
Cyclohexane	3.3	U	3.3	1.5	ug/L			05/18/16 13:42	3.33
Chlorodibromomethane	3.3	U	3.3	1.4	ug/L			05/18/16 13:42	3.33
Dichlorodifluoromethane	3.3	U	3.3	1.1	ug/L			05/18/16 13:42	3.33
Ethylbenzene	3.3	U	3.3	0.83	ug/L			05/18/16 13:42	3.33
Isopropylbenzene	3.3	U	3.3	1.2	ug/L			05/18/16 13:42	3.33
Methyl acetate	33	U	33	7.6	ug/L			05/18/16 13:42	3.33
Methyl tert-butyl ether	3.3	U	3.3	0.67	ug/L			05/18/16 13:42	3.33
Methylcyclohexane	3.3	U	3.3	1.4	ug/L			05/18/16 13:42	3.33
Methylene Chloride	1.6	J	3.3	1.1	ug/L			05/18/16 13:42	3.33
Styrene	3.3	U	3.3	1.5	ug/L			05/18/16 13:42	3.33
Tetrachloroethene	3.3	U	3.3	1.0	ug/L			05/18/16 13:42	3.33
Toluene	3.3	U	3.3	0.77	ug/L			05/18/16 13:42	3.33
trans-1,2-Dichloroethene	3.3	U	3.3	1.0	ug/L			05/18/16 13:42	3.33
trans-1,3-Dichloropropene	3.3	U	3.3	1.9	ug/L			05/18/16 13:42	3.33
Trichloroethene	110		3.3	0.73	ug/L			05/18/16 13:42	3.33
Trichlorofluoromethane	3.3	U	3.3	1.6	ug/L			05/18/16 13:42	3.33
Vinyl chloride	4.4		3.3	0.97	ug/L			05/18/16 13:42	3.33
Xylenes, Total	6.7	U	6.7	1.7	ug/L			05/18/16 13:42	3.33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		05/18/16 13:42	3.33
Dibromofluoromethane (Surr)	98		79 - 120		05/18/16 13:42	3.33
4-Bromofluorobenzene (Surr)	84		61 - 120		05/18/16 13:42	3.33
1,2-Dichloroethane-d4 (Surr)	92		78 - 125		05/18/16 13:42	3.33

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	51		1.0	0.080	mg/L			05/22/16 04:32	1
TOC Result 2	51		1.0	0.080	mg/L			05/22/16 04:32	1
TOC Result 3	52		1.0	0.080	mg/L			05/22/16 04:32	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-4S-051016

Lab Sample ID: 240-64671-3

Date Collected: 05/10/16 11:10

Matrix: Water

Date Received: 05/11/16 09:40

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 4	51		1.0	0.080	mg/L			05/22/16 04:32	1
Total Organic Carbon	51		1.0	0.080	mg/L			05/22/16 04:32	1

Client Sample ID: G-SWMW-5I-051016

Lab Sample ID: 240-64671-4

Date Collected: 05/10/16 12:30

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.7	U	6.7	2.9	ug/L			05/18/16 14:05	6.67
1,1,2,2-Tetrachloroethane	6.7	U	6.7	1.5	ug/L			05/18/16 14:05	6.67
1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U	6.7	3.0	ug/L			05/18/16 14:05	6.67
1,1,2-Trichloroethane	6.7	U	6.7	1.6	ug/L			05/18/16 14:05	6.67
1,1-Dichloroethane	5.1	J	6.7	2.0	ug/L			05/18/16 14:05	6.67
1,1-Dichloroethene	37		6.7	3.0	ug/L			05/18/16 14:05	6.67
1,2,4-Trichlorobenzene	6.7	U	6.7	2.1	ug/L			05/18/16 14:05	6.67
1,2-Dibromo-3-Chloropropane	13	U	13	5.5	ug/L			05/18/16 14:05	6.67
Ethylene Dibromide	6.7	U	6.7	2.1	ug/L			05/18/16 14:05	6.67
1,2-Dichlorobenzene	6.7	U	6.7	1.7	ug/L			05/18/16 14:05	6.67
1,2-Dichloroethane	6.7	U	6.7	1.5	ug/L			05/18/16 14:05	6.67
1,2-Dichloropropane	6.7	U	6.7	1.7	ug/L			05/18/16 14:05	6.67
1,3-Dichlorobenzene	6.7	U	6.7	1.3	ug/L			05/18/16 14:05	6.67
1,4-Dichlorobenzene	6.7	U	6.7	1.8	ug/L			05/18/16 14:05	6.67
2-Butanone (MEK)	230		67	3.5	ug/L			05/18/16 14:05	6.67
2-Hexanone	67	U	67	3.2	ug/L			05/18/16 14:05	6.67
4-Methyl-2-pentanone (MIBK)	67	U	67	6.6	ug/L			05/18/16 14:05	6.67
Acetone	67	U	67	6.3	ug/L			05/18/16 14:05	6.67
Benzene	3.0	J	6.7	2.3	ug/L			05/18/16 14:05	6.67
Dichlorobromomethane	6.7	U	6.7	1.9	ug/L			05/18/16 14:05	6.67
Bromoform	6.7	U	6.7	3.7	ug/L			05/18/16 14:05	6.67
Bromomethane	6.7	U	6.7	2.9	ug/L			05/18/16 14:05	6.67
Carbon disulfide	6.7	U	6.7	2.5	ug/L			05/18/16 14:05	6.67
Carbon tetrachloride	6.7	U	6.7	2.9	ug/L			05/18/16 14:05	6.67
Chlorobenzene	6.7	U	6.7	1.7	ug/L			05/18/16 14:05	6.67
Chloroethane	2.6	J	6.7	2.1	ug/L			05/18/16 14:05	6.67
Chloroform	6.7	U	6.7	1.7	ug/L			05/18/16 14:05	6.67
Chloromethane	6.7	U	6.7	2.9	ug/L			05/18/16 14:05	6.67
cis-1,2-Dichloroethene	170		6.7	1.7	ug/L			05/18/16 14:05	6.67
cis-1,3-Dichloropropene	6.7	U	6.7	3.1	ug/L			05/18/16 14:05	6.67
Cyclohexane	6.7	U	6.7	3.0	ug/L			05/18/16 14:05	6.67
Chlorodibromomethane	6.7	U	6.7	2.9	ug/L			05/18/16 14:05	6.67
Dichlorodifluoromethane	6.7	U	6.7	2.1	ug/L			05/18/16 14:05	6.67
Ethylbenzene	6.7	U	6.7	1.7	ug/L			05/18/16 14:05	6.67
Isopropylbenzene	6.7	U	6.7	2.3	ug/L			05/18/16 14:05	6.67
Methyl acetate	67	U	67	15	ug/L			05/18/16 14:05	6.67
Methyl tert-butyl ether	6.7	U	6.7	1.3	ug/L			05/18/16 14:05	6.67
Methylcyclohexane	6.7	U	6.7	2.9	ug/L			05/18/16 14:05	6.67
Methylene Chloride	6.7	U	6.7	2.2	ug/L			05/18/16 14:05	6.67
Styrene	6.7	U	6.7	3.0	ug/L			05/18/16 14:05	6.67
Tetrachloroethene	6.7	U	6.7	2.1	ug/L			05/18/16 14:05	6.67

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-5I-051016

Lab Sample ID: 240-64671-4

Date Collected: 05/10/16 12:30

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	6.7	U	6.7	1.5	ug/L			05/18/16 14:05	6.67
trans-1,2-Dichloroethene	6.7	U	6.7	2.0	ug/L			05/18/16 14:05	6.67
trans-1,3-Dichloropropene	6.7	U	6.7	3.7	ug/L			05/18/16 14:05	6.67
Trichloroethene	6.7	U	6.7	1.5	ug/L			05/18/16 14:05	6.67
Trichlorofluoromethane	6.7	U	6.7	3.3	ug/L			05/18/16 14:05	6.67
Vinyl chloride	4.5	J	6.7	1.9	ug/L			05/18/16 14:05	6.67
Xylenes, Total	13	U	13	3.5	ug/L			05/18/16 14:05	6.67

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	93		80 - 120		05/18/16 14:05	6.67
<i>Dibromofluoromethane (Surr)</i>	98		79 - 120		05/18/16 14:05	6.67
<i>4-Bromofluorobenzene (Surr)</i>	83		61 - 120		05/18/16 14:05	6.67
<i>1,2-Dichloroethane-d4 (Surr)</i>	92		78 - 125		05/18/16 14:05	6.67

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	550		20	1.6	mg/L			05/22/16 04:58	20
TOC Result 2	550		20	1.6	mg/L			05/22/16 04:58	20
TOC Result 3	550		20	1.6	mg/L			05/22/16 04:58	20
TOC Result 4	550		20	1.6	mg/L			05/22/16 04:58	20
Total Organic Carbon	550		20	1.6	mg/L			05/22/16 04:58	20

Client Sample ID: G-SWMW-2I-051016

Lab Sample ID: 240-64671-5

Date Collected: 05/10/16 14:30

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/18/16 14:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/18/16 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/18/16 14:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/18/16 14:27	1
1,1-Dichloroethane	2.6		1.0	0.30	ug/L			05/18/16 14:27	1
1,1-Dichloroethene	1.1		1.0	0.45	ug/L			05/18/16 14:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/18/16 14:27	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/18/16 14:27	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/18/16 14:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/16 14:27	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/18/16 14:27	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/18/16 14:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/18/16 14:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/18/16 14:27	1
2-Butanone (MEK)	30		10	0.53	ug/L			05/18/16 14:27	1
2-Hexanone	0.60	J	10	0.48	ug/L			05/18/16 14:27	1
4-Methyl-2-pentanone (MIBK)	1.3	J	10	0.99	ug/L			05/18/16 14:27	1
Acetone	14		10	0.94	ug/L			05/18/16 14:27	1
Benzene	16		1.0	0.35	ug/L			05/18/16 14:27	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/18/16 14:27	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/18/16 14:27	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/18/16 14:27	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-2I-051016

Lab Sample ID: 240-64671-5

Date Collected: 05/10/16 14:30

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/18/16 14:27	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/18/16 14:27	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/16 14:27	1
Chloroethane	14		1.0	0.32	ug/L			05/18/16 14:27	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/18/16 14:27	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/18/16 14:27	1
cis-1,2-Dichloroethene	3.4		1.0	0.26	ug/L			05/18/16 14:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/18/16 14:27	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/18/16 14:27	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/18/16 14:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/18/16 14:27	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/18/16 14:27	1
Isopropylbenzene	0.54	J	1.0	0.35	ug/L			05/18/16 14:27	1
Methyl acetate	10	U	10	2.3	ug/L			05/18/16 14:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/18/16 14:27	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/18/16 14:27	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/18/16 14:27	1
Styrene	1.0	U	1.0	0.45	ug/L			05/18/16 14:27	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/18/16 14:27	1
Toluene	1.0	U	1.0	0.23	ug/L			05/18/16 14:27	1
trans-1,2-Dichloroethene	0.30	J	1.0	0.30	ug/L			05/18/16 14:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/18/16 14:27	1
Trichloroethene	2.8		1.0	0.22	ug/L			05/18/16 14:27	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/18/16 14:27	1
Vinyl chloride	3.5		1.0	0.29	ug/L			05/18/16 14:27	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/18/16 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	90		80 - 120		05/18/16 14:27	1
<i>Dibromofluoromethane (Surr)</i>	90		79 - 120		05/18/16 14:27	1
<i>4-Bromofluorobenzene (Surr)</i>	80		61 - 120		05/18/16 14:27	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	90		78 - 125		05/18/16 14:27	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	91		10	2.6	ug/L			05/20/16 19:19	20
Ethane	10	U	10	2.8	ug/L			05/20/16 19:19	20
Methane	16000		10	1.6	ug/L			05/20/16 19:19	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,1,1-Trifluoroethane</i>	96		66 - 132		05/20/16 19:19	20

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	61000		100	25	ug/L		05/13/16 11:47	05/18/16 14:27	1
Manganese	2600		15	5.1	ug/L		05/13/16 11:47	05/18/16 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	620		5.0	1.9	mg/L			05/20/16 19:35	1
Chloride	88		1.0	0.41	mg/L			05/11/16 22:04	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-2I-051016

Lab Sample ID: 240-64671-5

Date Collected: 05/10/16 14:30

Matrix: Water

Date Received: 05/11/16 09:40

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.91		0.50	0.19	mg/L			05/11/16 22:20	5
Nitrate as N	0.50	U	0.50	0.18	mg/L			05/11/16 22:20	5
Sulfate	1.0	U	1.0	0.13	mg/L			05/11/16 22:04	1
TOC Result 1	220		10	0.80	mg/L			05/22/16 05:24	10
TOC Result 2	230		10	0.80	mg/L			05/22/16 05:24	10
TOC Result 3	230		10	0.80	mg/L			05/22/16 05:24	10
TOC Result 4	220		10	0.80	mg/L			05/22/16 05:24	10
Total Organic Carbon	230		10	0.80	mg/L			05/22/16 05:24	10
Total Dissolved Solids	1200		10	7.4	mg/L			05/13/16 09:46	1
Orthophosphate as P	0.092	J	0.50	0.025	mg/L			05/11/16 14:52	5

Client Sample ID: G-OUTFALL-051016

Lab Sample ID: 240-64671-7

Date Collected: 05/10/16 14:40

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/18/16 14:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/18/16 14:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/18/16 14:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/18/16 14:50	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/18/16 14:50	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/18/16 14:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/18/16 14:50	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/18/16 14:50	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/18/16 14:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/16 14:50	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/18/16 14:50	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/18/16 14:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/18/16 14:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/18/16 14:50	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/18/16 14:50	1
2-Hexanone	10	U	10	0.48	ug/L			05/18/16 14:50	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/18/16 14:50	1
Acetone	2.4	J	10	0.94	ug/L			05/18/16 14:50	1
Benzene	1.0	U	1.0	0.35	ug/L			05/18/16 14:50	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/18/16 14:50	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/18/16 14:50	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/18/16 14:50	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/18/16 14:50	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/18/16 14:50	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/16 14:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/18/16 14:50	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/18/16 14:50	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/18/16 14:50	1
cis-1,2-Dichloroethene	0.62	J	1.0	0.26	ug/L			05/18/16 14:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/18/16 14:50	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/18/16 14:50	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/18/16 14:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/18/16 14:50	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-OUTFALL-051016

Lab Sample ID: 240-64671-7

Date Collected: 05/10/16 14:40

Matrix: Water

Date Received: 05/11/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/18/16 14:50	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/18/16 14:50	1
Methyl acetate	10	U	10	2.3	ug/L			05/18/16 14:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/18/16 14:50	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/18/16 14:50	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/18/16 14:50	1
Styrene	1.0	U	1.0	0.45	ug/L			05/18/16 14:50	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/18/16 14:50	1
Toluene	1.0	U	1.0	0.23	ug/L			05/18/16 14:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/18/16 14:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/18/16 14:50	1
Trichloroethene	1.2		1.0	0.22	ug/L			05/18/16 14:50	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/18/16 14:50	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/18/16 14:50	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/18/16 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	86		80 - 120		05/18/16 14:50	1
<i>Dibromofluoromethane (Surr)</i>	89		79 - 120		05/18/16 14:50	1
<i>4-Bromofluorobenzene (Surr)</i>	77		61 - 120		05/18/16 14:50	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	88		78 - 125		05/18/16 14:50	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18000		100	25	ug/L		05/13/16 11:47	05/18/16 14:32	1
Manganese	910		15	5.1	ug/L		05/13/16 11:47	05/18/16 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	250		5.0	1.9	mg/L			05/20/16 19:45	1
Chloride	200		1.0	0.41	mg/L			05/11/16 22:37	1
Nitrite as N	0.50	U	0.50	0.19	mg/L			05/12/16 00:32	5
Nitrate as N	0.12		0.10	0.035	mg/L			05/11/16 22:37	1
Sulfate	50		1.0	0.13	mg/L			05/11/16 22:37	1
TOC Result 1	7.0		1.0	0.080	mg/L			05/22/16 02:18	1
TOC Result 2	6.9		1.0	0.080	mg/L			05/22/16 02:18	1
TOC Result 3	6.9		1.0	0.080	mg/L			05/22/16 02:18	1
TOC Result 4	6.9		1.0	0.080	mg/L			05/22/16 02:18	1
Total Organic Carbon	6.9		1.0	0.080	mg/L			05/22/16 02:18	1
Total Dissolved Solids	580		10	7.4	mg/L			05/17/16 10:40	1
Orthophosphate as P	0.080	J	0.20	0.010	mg/L			05/11/16 14:52	2

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	1.0	0.44	ug/L	8260C
1,1,1,2-Tetrachloroethane	1.0	0.22	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.45	ug/L	8260C
1,1,2-Trichloroethane	1.0	0.24	ug/L	8260C
1,1-Dichloroethane	1.0	0.30	ug/L	8260C
1,1-Dichloroethene	1.0	0.45	ug/L	8260C
1,2,4-Trichlorobenzene	1.0	0.32	ug/L	8260C
1,2-Dibromo-3-Chloropropane	2.0	0.82	ug/L	8260C
1,2-Dichlorobenzene	1.0	0.25	ug/L	8260C
1,2-Dichloroethane	1.0	0.23	ug/L	8260C
1,2-Dichloropropane	1.0	0.25	ug/L	8260C
1,3-Dichlorobenzene	1.0	0.19	ug/L	8260C
1,4-Dichlorobenzene	1.0	0.27	ug/L	8260C
2-Butanone (MEK)	10	0.53	ug/L	8260C
2-Hexanone	10	0.48	ug/L	8260C
4-Methyl-2-pentanone (MIBK)	10	0.99	ug/L	8260C
Acetone	10	0.94	ug/L	8260C
Benzene	1.0	0.35	ug/L	8260C
Bromoform	1.0	0.56	ug/L	8260C
Bromomethane	1.0	0.44	ug/L	8260C
Carbon disulfide	1.0	0.38	ug/L	8260C
Carbon tetrachloride	1.0	0.43	ug/L	8260C
Chlorobenzene	1.0	0.25	ug/L	8260C
Chlorodibromomethane	1.0	0.43	ug/L	8260C
Chloroethane	1.0	0.32	ug/L	8260C
Chloroform	1.0	0.25	ug/L	8260C
Chloromethane	1.0	0.44	ug/L	8260C
cis-1,2-Dichloroethene	1.0	0.26	ug/L	8260C
cis-1,3-Dichloropropene	1.0	0.46	ug/L	8260C
Cyclohexane	1.0	0.45	ug/L	8260C
Dichlorobromomethane	1.0	0.29	ug/L	8260C
Dichlorodifluoromethane	1.0	0.32	ug/L	8260C
Ethylbenzene	1.0	0.25	ug/L	8260C
Ethylene Dibromide	1.0	0.32	ug/L	8260C
Isopropylbenzene	1.0	0.35	ug/L	8260C
Methyl acetate	10	2.3	ug/L	8260C
Methyl tert-butyl ether	1.0	0.20	ug/L	8260C
Methylcyclohexane	1.0	0.43	ug/L	8260C
Methylene Chloride	1.0	0.33	ug/L	8260C
Styrene	1.0	0.45	ug/L	8260C
Tetrachloroethene	1.0	0.31	ug/L	8260C
Toluene	1.0	0.23	ug/L	8260C
trans-1,2-Dichloroethene	1.0	0.30	ug/L	8260C
trans-1,3-Dichloropropene	1.0	0.56	ug/L	8260C
Trichloroethene	1.0	0.22	ug/L	8260C
Trichlorofluoromethane	1.0	0.49	ug/L	8260C
Vinyl chloride	1.0	0.29	ug/L	8260C
Xylenes, Total	2.0	0.52	ug/L	8260C

Method: RSK-175 - Dissolved Gases (GC)

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units	Method
Ethane	0.50	0.14	ug/L	RSK-175
Ethene	0.50	0.13	ug/L	RSK-175
Methane	0.50	0.080	ug/L	RSK-175

Method: 6010C - Metals (ICP) - Total Recoverable

Prep: 3005A

Analyte	RL	MDL	Units	Method
Iron	100	25	ug/L	6010C
Manganese	15	5.1	ug/L	6010C

General Chemistry

Analyte	RL	MDL	Units	Method
Alkalinity	5.0	1.9	mg/L	2320B-1997
Chloride	1.0	0.41	mg/L	300.0
Nitrate as N	0.10	0.035	mg/L	300.0
Nitrite as N	0.10	0.038	mg/L	300.0
Sulfate	1.0	0.13	mg/L	300.0
TOC Result 1	1.0	0.080	mg/L	9060A
TOC Result 2	1.0	0.080	mg/L	9060A
TOC Result 3	1.0	0.080	mg/L	9060A
TOC Result 4	1.0	0.080	mg/L	9060A
Total Organic Carbon	1.0	0.080	mg/L	9060A
Total Dissolved Solids	10	7.4	mg/L	SM 2540C
Orthophosphate as P	0.10	0.0050	mg/L	SM 4500 P E

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DBFM (79-120)	BFB (61-120)	12DCE (78-125)
240-64546-E-1 MSD	Matrix Spike Duplicate	114	111	106	108
240-64546-F-1 MS	Matrix Spike	93	89	87	89
240-64548-1	TB-050616	92	92	81	92
240-64548-2	MRC-MW-14B-050616	111	109	99	105
240-64548-3	SWMW-1I-050616	117	119	102	113
240-64615-1	TB-050916	91	92	81	90
240-64615-2	MRC-MW-12A-050916	89	91	79	90
240-64615-3	MRC-MW-12B-050916	109	108	95	110
240-64615-4	G-SWMW-3I-050916	90	91	78	88
240-64671-1	TB-051016	92	94	83	91
240-64671-2	G-SWMW-4I-051016	91	93	81	90
240-64671-2	G-SWMW-4I-051016	100	99	96	109
240-64671-3	G-SWMW-4S-051016	96	98	84	92
240-64671-4	G-SWMW-5I-051016	93	98	83	92
240-64671-5	G-SWMW-2I-051016	90	90	80	90
240-64671-7	G-OUTFALL-051016	86	89	77	88
240-64676-E-5 MS	Matrix Spike	92	89	84	90
240-64676-H-5 MSD	Matrix Spike Duplicate	95	92	88	91
240-64717-B-2 MS	Matrix Spike	99	98	101	102
240-64717-B-2 MSD	Matrix Spike Duplicate	101	96	101	101
LCS 240-230196/4	Lab Control Sample	103	99	96	96
LCS 240-230444/4	Lab Control Sample	93	90	86	87
LCS 240-230805/4	Lab Control Sample	93	90	85	89
LCS 240-231016/4	Lab Control Sample	102	98	101	104
MB 240-230196/6	Method Blank	95	95	86	97
MB 240-230444/6	Method Blank	94	94	83	91
MB 240-230805/6	Method Blank	92	92	83	89
MB 240-231016/31	Method Blank	100	96	95	106

Surrogate Legend

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

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		trifluoroet (66-132)
240-64548-2	MRC-MW-14B-050616	66
240-64548-2	MRC-MW-14B-050616	96
240-64548-2 MS	MRC-MW-14B-050616	93
240-64548-2 MSD	MRC-MW-14B-050616	90
240-64548-3	SWMW-1I-050616	92
240-64579-N-3 MSD	Matrix Spike Duplicate	85
240-64579-O-3 MS	Matrix Spike	102
240-64615-2	MRC-MW-12A-050916	102

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		1,1,1-Trifluoroethane	1,1,2-Trifluoroethane	1,1,1,2-Tetrafluoroethane	1,1,2,2-Tetrafluoroethane
240-64615-4	G-SWMW-3I-050916	101			
240-64671-2	G-SWMW-4I-051016	93			
240-64671-5	G-SWMW-2I-051016	96			
LCS 240-229899/30	Lab Control Sample	94			
LCS 240-230633/34	Lab Control Sample	94			
LCS 240-231220/5	Lab Control Sample	112			
LCS 240-231640/5	Lab Control Sample	107			
MB 240-229899/29	Method Blank	91			
MB 240-230633/33	Method Blank	93			
MB 240-231220/4	Method Blank	112			
MB 240-231640/4	Method Blank	106			

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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

Lab Sample ID: MB 240-230196/6

Matrix: Water

Analysis Batch: 230196

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/13/16 10:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/13/16 10:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/13/16 10:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/13/16 10:38	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/13/16 10:38	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/13/16 10:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/13/16 10:38	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/13/16 10:38	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/13/16 10:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/13/16 10:38	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/13/16 10:38	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/13/16 10:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/13/16 10:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/13/16 10:38	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/13/16 10:38	1
2-Hexanone	10	U	10	0.48	ug/L			05/13/16 10:38	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/13/16 10:38	1
Acetone	10	U	10	0.94	ug/L			05/13/16 10:38	1
Benzene	1.0	U	1.0	0.35	ug/L			05/13/16 10:38	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/13/16 10:38	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/13/16 10:38	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/13/16 10:38	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/13/16 10:38	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/13/16 10:38	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/13/16 10:38	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/13/16 10:38	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/13/16 10:38	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/13/16 10:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/13/16 10:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/13/16 10:38	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/13/16 10:38	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/13/16 10:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/13/16 10:38	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/13/16 10:38	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/13/16 10:38	1
Methyl acetate	10	U	10	2.3	ug/L			05/13/16 10:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/13/16 10:38	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/13/16 10:38	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/13/16 10:38	1
Styrene	1.0	U	1.0	0.45	ug/L			05/13/16 10:38	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/13/16 10:38	1
Toluene	1.0	U	1.0	0.23	ug/L			05/13/16 10:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/13/16 10:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/13/16 10:38	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/13/16 10:38	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/13/16 10:38	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/13/16 10:38	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/13/16 10:38	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		05/13/16 10:38	1
Dibromofluoromethane (Surr)	95		79 - 120		05/13/16 10:38	1
4-Bromofluorobenzene (Surr)	86		61 - 120		05/13/16 10:38	1
1,2-Dichloroethane-d4 (Surr)	97		78 - 125		05/13/16 10:38	1

Lab Sample ID: LCS 240-230196/4
Matrix: Water
Analysis Batch: 230196

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-Trichloroethane	10.0	11.7		ug/L		117	77 - 123
1,1,2,2-Tetrachloroethane	10.0	9.23		ug/L		92	71 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.2		ug/L		112	67 - 138
1,1,2-Trichloroethane	10.0	10.8		ug/L		108	80 - 120
1,1-Dichloroethane	10.0	11.0		ug/L		110	79 - 125
1,1-Dichloroethene	10.0	11.9		ug/L		119	76 - 124
1,2,4-Trichlorobenzene	10.0	9.93		ug/L		99	61 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.50		ug/L		95	50 - 132
Ethylene Dibromide	10.0	11.0		ug/L		110	80 - 120
1,2-Dichlorobenzene	10.0	11.2		ug/L		112	79 - 120
1,2-Dichloroethane	10.0	10.9		ug/L		109	80 - 120
1,2-Dichloropropane	10.0	11.6		ug/L		116	78 - 124
1,3-Dichlorobenzene	10.0	11.1		ug/L		111	79 - 120
1,4-Dichlorobenzene	10.0	11.4		ug/L		114	79 - 120
2-Butanone (MEK)	20.0	19.4		ug/L		97	56 - 138
2-Hexanone	20.0	18.1		ug/L		91	55 - 141
4-Methyl-2-pentanone (MIBK)	20.0	19.7		ug/L		99	64 - 135
Acetone	20.0	20.1		ug/L		101	34 - 148
Benzene	10.0	11.4		ug/L		114	80 - 120
Dichlorobromomethane	10.0	11.2		ug/L		112	80 - 120
Bromoform	10.0	8.78		ug/L		88	56 - 122
Bromomethane	10.0	10.8		ug/L		108	38 - 132
Carbon disulfide	10.0	13.1		ug/L		131	65 - 144
Carbon tetrachloride	10.0	11.2		ug/L		112	77 - 131
Chlorobenzene	10.0	10.8		ug/L		108	80 - 120
Chloroethane	10.0	10.7		ug/L		107	36 - 126
Chloroform	10.0	11.5		ug/L		115	80 - 120
Chloromethane	10.0	10.6		ug/L		106	48 - 133
cis-1,2-Dichloroethene	10.0	11.6		ug/L		116	79 - 120
cis-1,3-Dichloropropene	10.0	11.2		ug/L		112	74 - 126
Cyclohexane	10.0	10.8		ug/L		108	60 - 140
Chlorodibromomethane	10.0	9.89		ug/L		99	74 - 120
Dichlorodifluoromethane	10.0	8.87		ug/L		89	23 - 136
Ethylbenzene	10.0	10.9		ug/L		109	80 - 120
Isopropylbenzene	10.0	10.8		ug/L		108	77 - 120
Methyl acetate	50.0	53.5		ug/L		107	67 - 131
Methyl tert-butyl ether	10.0	11.0		ug/L		110	69 - 121
Methylcyclohexane	10.0	10.2		ug/L		102	61 - 134
Methylene Chloride	10.0	12.5		ug/L		125	77 - 129
Styrene	10.0	10.6		ug/L		106	76 - 122
Tetrachloroethene	10.0	11.5		ug/L		115	78 - 121
Toluene	10.0	11.5		ug/L		115	80 - 120
trans-1,2-Dichloroethene	10.0	11.9		ug/L		119	80 - 124

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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

Lab Sample ID: LCS 240-230196/4
Matrix: Water
Analysis Batch: 230196

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	10.8		ug/L		108	75 - 131
Trichloroethene	10.0	11.5		ug/L		115	80 - 121
Trichlorofluoromethane	10.0	10.5		ug/L		105	61 - 133
Vinyl chloride	10.0	9.79		ug/L		98	52 - 121
Xylenes, Total	20.0	21.2		ug/L		106	80 - 120
m-Xylene & p-Xylene	10.0	10.7		ug/L		107	80 - 120
o-Xylene	10.0	10.5		ug/L		105	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	99		79 - 120
4-Bromofluorobenzene (Surr)	96		61 - 120
1,2-Dichloroethane-d4 (Surr)	96		78 - 125

Lab Sample ID: MB 240-230444/6
Matrix: Water
Analysis Batch: 230444

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-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/16/16 09:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/16/16 09:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/16/16 09:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/16/16 09:07	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/16/16 09:07	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/16/16 09:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/16/16 09:07	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/16/16 09:07	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/16/16 09:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/16/16 09:07	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/16/16 09:07	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/16/16 09:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/16/16 09:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/16/16 09:07	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/16/16 09:07	1
2-Hexanone	10	U	10	0.48	ug/L			05/16/16 09:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/16/16 09:07	1
Acetone	10	U	10	0.94	ug/L			05/16/16 09:07	1
Benzene	1.0	U	1.0	0.35	ug/L			05/16/16 09:07	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/16/16 09:07	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/16/16 09:07	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/16/16 09:07	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/16/16 09:07	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/16/16 09:07	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/16/16 09:07	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/16/16 09:07	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/16/16 09:07	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/16/16 09:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/16/16 09:07	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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

Lab Sample ID: MB 240-230444/6

Matrix: Water

Analysis Batch: 230444

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/16/16 09:07	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/16/16 09:07	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/16/16 09:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/16/16 09:07	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/16/16 09:07	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/16/16 09:07	1
Methyl acetate	10	U	10	2.3	ug/L			05/16/16 09:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/16/16 09:07	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/16/16 09:07	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/16/16 09:07	1
Styrene	1.0	U	1.0	0.45	ug/L			05/16/16 09:07	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/16/16 09:07	1
Toluene	1.0	U	1.0	0.23	ug/L			05/16/16 09:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/16/16 09:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/16/16 09:07	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/16/16 09:07	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/16/16 09:07	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/16/16 09:07	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/16/16 09:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	94		80 - 120		05/16/16 09:07	1
Dibromofluoromethane (Surr)	94		79 - 120		05/16/16 09:07	1
4-Bromofluorobenzene (Surr)	83		61 - 120		05/16/16 09:07	1
1,2-Dichloroethane-d4 (Surr)	91		78 - 125		05/16/16 09:07	1

Lab Sample ID: LCS 240-230444/4

Matrix: Water

Analysis Batch: 230444

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	10.0	7.58		ug/L		76	71 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.9		ug/L		109	67 - 138
1,1,2-Trichloroethane	10.0	9.73		ug/L		97	80 - 120
1,1-Dichloroethane	10.0	9.28		ug/L		93	79 - 125
1,1-Dichloroethene	10.0	10.3		ug/L		103	76 - 124
1,2,4-Trichlorobenzene	10.0	8.43		ug/L		84	61 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.57		ug/L		86	50 - 132
Ethylene Dibromide	10.0	9.37		ug/L		94	80 - 120
1,2-Dichlorobenzene	10.0	9.42		ug/L		94	79 - 120
1,2-Dichloroethane	10.0	9.11		ug/L		91	80 - 120
1,2-Dichloropropane	10.0	9.62		ug/L		96	78 - 124
1,3-Dichlorobenzene	10.0	9.28		ug/L		93	79 - 120
1,4-Dichlorobenzene	10.0	9.49		ug/L		95	79 - 120
2-Butanone (MEK)	20.0	16.2		ug/L		81	56 - 138
2-Hexanone	20.0	15.4		ug/L		77	55 - 141

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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

Lab Sample ID: LCS 240-230444/4
Matrix: Water
Analysis Batch: 230444

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	20.0	17.1		ug/L		85	64 - 135
Acetone	20.0	16.1		ug/L		81	34 - 148
Benzene	10.0	9.49		ug/L		95	80 - 120
Dichlorobromomethane	10.0	9.38		ug/L		94	80 - 120
Bromoform	10.0	7.93		ug/L		79	56 - 122
Bromomethane	10.0	9.65		ug/L		96	38 - 132
Carbon disulfide	10.0	10.7		ug/L		107	65 - 144
Carbon tetrachloride	10.0	9.99		ug/L		100	77 - 131
Chlorobenzene	10.0	9.07		ug/L		91	80 - 120
Chloroethane	10.0	9.98		ug/L		100	36 - 126
Chloroform	10.0	9.42		ug/L		94	80 - 120
Chloromethane	10.0	9.34		ug/L		93	48 - 133
cis-1,2-Dichloroethene	10.0	9.57		ug/L		96	79 - 120
cis-1,3-Dichloropropene	10.0	9.23		ug/L		92	74 - 126
Cyclohexane	10.0	10.0		ug/L		100	60 - 140
Chlorodibromomethane	10.0	8.55		ug/L		85	74 - 120
Dichlorodifluoromethane	10.0	10.5		ug/L		105	23 - 136
Ethylbenzene	10.0	9.54		ug/L		95	80 - 120
Isopropylbenzene	10.0	9.28		ug/L		93	77 - 120
Methyl acetate	50.0	46.0		ug/L		92	67 - 131
Methyl tert-butyl ether	10.0	9.40		ug/L		94	69 - 121
Methylcyclohexane	10.0	10.3		ug/L		103	61 - 134
Methylene Chloride	10.0	10.1		ug/L		101	77 - 129
Styrene	10.0	8.91		ug/L		89	76 - 122
Tetrachloroethene	10.0	10.1		ug/L		101	78 - 121
Toluene	10.0	9.75		ug/L		98	80 - 120
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	80 - 124
trans-1,3-Dichloropropene	10.0	9.16		ug/L		92	75 - 131
Trichloroethene	10.0	9.86		ug/L		99	80 - 121
Trichlorofluoromethane	10.0	12.1		ug/L		121	61 - 133
Vinyl chloride	10.0	9.55		ug/L		95	52 - 121
Xylenes, Total	20.0	18.1		ug/L		90	80 - 120
m-Xylene & p-Xylene	10.0	9.08		ug/L		91	80 - 120
o-Xylene	10.0	8.98		ug/L		90	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	90		79 - 120
4-Bromofluorobenzene (Surr)	86		61 - 120
1,2-Dichloroethane-d4 (Surr)	87		78 - 125

Lab Sample ID: MB 240-230805/6
Matrix: Water
Analysis Batch: 230805

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-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/18/16 10:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/18/16 10:26	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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

Lab Sample ID: MB 240-230805/6

Matrix: Water

Analysis Batch: 230805

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/18/16 10:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/18/16 10:26	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/18/16 10:26	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/18/16 10:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/18/16 10:26	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/18/16 10:26	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/18/16 10:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/16 10:26	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/18/16 10:26	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/18/16 10:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/18/16 10:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/18/16 10:26	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/18/16 10:26	1
2-Hexanone	10	U	10	0.48	ug/L			05/18/16 10:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/18/16 10:26	1
Acetone	10	U	10	0.94	ug/L			05/18/16 10:26	1
Benzene	1.0	U	1.0	0.35	ug/L			05/18/16 10:26	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/18/16 10:26	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/18/16 10:26	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/18/16 10:26	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/18/16 10:26	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/18/16 10:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/18/16 10:26	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/18/16 10:26	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/18/16 10:26	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/18/16 10:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/18/16 10:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/18/16 10:26	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/18/16 10:26	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/18/16 10:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/18/16 10:26	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/18/16 10:26	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/18/16 10:26	1
Methyl acetate	10	U	10	2.3	ug/L			05/18/16 10:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/18/16 10:26	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/18/16 10:26	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/18/16 10:26	1
Styrene	1.0	U	1.0	0.45	ug/L			05/18/16 10:26	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/18/16 10:26	1
Toluene	1.0	U	1.0	0.23	ug/L			05/18/16 10:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/18/16 10:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/18/16 10:26	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/18/16 10:26	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/18/16 10:26	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/18/16 10:26	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/18/16 10:26	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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

Lab Sample ID: MB 240-230805/6
Matrix: Water
Analysis Batch: 230805

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	92		80 - 120		05/18/16 10:26	1
Dibromofluoromethane (Surr)	92		79 - 120		05/18/16 10:26	1
4-Bromofluorobenzene (Surr)	83		61 - 120		05/18/16 10:26	1
1,2-Dichloroethane-d4 (Surr)	89		78 - 125		05/18/16 10:26	1

Lab Sample ID: LCS 240-230805/4
Matrix: Water
Analysis Batch: 230805

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	10.0	8.27		ug/L		83	71 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.1		ug/L		101	67 - 138
1,1,2-Trichloroethane	10.0	9.74		ug/L		97	80 - 120
1,1-Dichloroethane	10.0	10.0		ug/L		100	79 - 125
1,1-Dichloroethene	10.0	11.0		ug/L		110	76 - 124
1,2,4-Trichlorobenzene	10.0	9.43		ug/L		94	61 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.03		ug/L		80	50 - 132
Ethylene Dibromide	10.0	9.74		ug/L		97	80 - 120
1,2-Dichlorobenzene	10.0	10.2		ug/L		102	79 - 120
1,2-Dichloroethane	10.0	9.66		ug/L		97	80 - 120
1,2-Dichloropropane	10.0	10.4		ug/L		104	78 - 124
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	79 - 120
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	79 - 120
2-Butanone (MEK)	20.0	16.6		ug/L		83	56 - 138
2-Hexanone	20.0	15.1		ug/L		76	55 - 141
4-Methyl-2-pentanone (MIBK)	20.0	17.2		ug/L		86	64 - 135
Acetone	20.0	17.2		ug/L		86	34 - 148
Benzene	10.0	10.3		ug/L		103	80 - 120
Dichlorobromomethane	10.0	9.71		ug/L		97	80 - 120
Bromoform	10.0	6.50		ug/L		65	56 - 122
Bromomethane	10.0	8.09		ug/L		81	38 - 132
Carbon disulfide	10.0	11.0		ug/L		110	65 - 144
Carbon tetrachloride	10.0	10.3		ug/L		103	77 - 131
Chlorobenzene	10.0	9.71		ug/L		97	80 - 120
Chloroethane	10.0	8.69		ug/L		87	36 - 126
Chloroform	10.0	10.4		ug/L		104	80 - 120
Chloromethane	10.0	9.86		ug/L		99	48 - 133
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	79 - 120
cis-1,3-Dichloropropene	10.0	9.76		ug/L		98	74 - 126
Cyclohexane	10.0	9.50		ug/L		95	60 - 140
Chlorodibromomethane	10.0	7.92		ug/L		79	74 - 120
Dichlorodifluoromethane	10.0	5.99		ug/L		60	23 - 136
Ethylbenzene	10.0	10.2		ug/L		102	80 - 120
Isopropylbenzene	10.0	9.72		ug/L		97	77 - 120
Methyl acetate	50.0	44.3		ug/L		89	67 - 131
Methyl tert-butyl ether	10.0	9.94		ug/L		99	69 - 121

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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

Lab Sample ID: LCS 240-230805/4

Matrix: Water

Analysis Batch: 230805

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylcyclohexane	10.0	9.11		ug/L		91	61 - 134
Methylene Chloride	10.0	11.3		ug/L		113	77 - 129
Styrene	10.0	9.82		ug/L		98	76 - 122
Tetrachloroethene	10.0	10.5		ug/L		105	78 - 121
Toluene	10.0	10.4		ug/L		104	80 - 120
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	80 - 124
trans-1,3-Dichloropropene	10.0	9.11		ug/L		91	75 - 131
Trichloroethene	10.0	10.6		ug/L		106	80 - 121
Trichlorofluoromethane	10.0	9.02		ug/L		90	61 - 133
Vinyl chloride	10.0	8.62		ug/L		86	52 - 121
Xylenes, Total	20.0	19.5		ug/L		97	80 - 120
m-Xylene & p-Xylene	10.0	10.0		ug/L		100	80 - 120
o-Xylene	10.0	9.47		ug/L		95	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	90		79 - 120
4-Bromofluorobenzene (Surr)	85		61 - 120
1,2-Dichloroethane-d4 (Surr)	89		78 - 125

Lab Sample ID: MB 240-231016/31

Matrix: Water

Analysis Batch: 231016

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-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/19/16 11:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/19/16 11:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/19/16 11:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/19/16 11:25	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/19/16 11:25	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/19/16 11:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/19/16 11:25	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			05/19/16 11:25	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			05/19/16 11:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/16 11:25	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/19/16 11:25	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/19/16 11:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/19/16 11:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/19/16 11:25	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/19/16 11:25	1
2-Hexanone	10	U	10	0.48	ug/L			05/19/16 11:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/19/16 11:25	1
Acetone	10	U	10	0.94	ug/L			05/19/16 11:25	1
Benzene	1.0	U	1.0	0.35	ug/L			05/19/16 11:25	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			05/19/16 11:25	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/19/16 11:25	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/19/16 11:25	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			05/19/16 11:25	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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

Lab Sample ID: MB 240-231016/31

Matrix: Water

Analysis Batch: 231016

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/19/16 11:25	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/19/16 11:25	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/19/16 11:25	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/19/16 11:25	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/19/16 11:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/19/16 11:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/19/16 11:25	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/19/16 11:25	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			05/19/16 11:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/19/16 11:25	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/19/16 11:25	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/19/16 11:25	1
Methyl acetate	10	U	10	2.3	ug/L			05/19/16 11:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/19/16 11:25	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/19/16 11:25	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/19/16 11:25	1
Styrene	1.0	U	1.0	0.45	ug/L			05/19/16 11:25	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/19/16 11:25	1
Toluene	1.0	U	1.0	0.23	ug/L			05/19/16 11:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/19/16 11:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/19/16 11:25	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/19/16 11:25	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/19/16 11:25	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/19/16 11:25	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/19/16 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		05/19/16 11:25	1
Dibromofluoromethane (Surr)	96		79 - 120		05/19/16 11:25	1
4-Bromofluorobenzene (Surr)	95		61 - 120		05/19/16 11:25	1
1,2-Dichloroethane-d4 (Surr)	106		78 - 125		05/19/16 11:25	1

Lab Sample ID: LCS 240-231016/4

Matrix: Water

Analysis Batch: 231016

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-Trichloroethane	10.0	11.5		ug/L		115	77 - 123
1,1,2,2-Tetrachloroethane	10.0	9.75		ug/L		98	71 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	13.2		ug/L		132	67 - 138
1,1,2-Trichloroethane	10.0	10.9		ug/L		109	80 - 120
1,1-Dichloroethane	10.0	12.3		ug/L		123	79 - 125
1,1-Dichloroethene	10.0	12.4		ug/L		124	76 - 124
1,2,4-Trichlorobenzene	10.0	10.8		ug/L		108	61 - 120
1,2-Dibromo-3-Chloropropane	10.0	6.46		ug/L		65	50 - 132
Ethylene Dibromide	10.0	10.6		ug/L		106	80 - 120
1,2-Dichlorobenzene	10.0	12.1	*	ug/L		121	79 - 120

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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

Lab Sample ID: LCS 240-231016/4

Matrix: Water

Analysis Batch: 231016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	10.0	12.9	*	ug/L		129	80 - 120
1,2-Dichloropropane	10.0	13.0	*	ug/L		130	78 - 124
1,3-Dichlorobenzene	10.0	11.7		ug/L		117	79 - 120
1,4-Dichlorobenzene	10.0	12.0		ug/L		120	79 - 120
2-Butanone (MEK)	20.0	18.5		ug/L		92	56 - 138
2-Hexanone	20.0	17.1		ug/L		86	55 - 141
4-Methyl-2-pentanone (MIBK)	20.0	18.4		ug/L		92	64 - 135
Acetone	20.0	17.4		ug/L		87	34 - 148
Benzene	10.0	12.5	*	ug/L		125	80 - 120
Dichlorobromomethane	10.0	11.3		ug/L		113	80 - 120
Bromoform	10.0	7.49		ug/L		75	56 - 122
Bromomethane	10.0	13.6	*	ug/L		136	38 - 132
Carbon disulfide	10.0	13.4		ug/L		134	65 - 144
Carbon tetrachloride	10.0	11.0		ug/L		110	77 - 131
Chlorobenzene	10.0	11.8		ug/L		118	80 - 120
Chloroethane	10.0	11.9		ug/L		119	36 - 126
Chloroform	10.0	12.3	*	ug/L		123	80 - 120
Chloromethane	10.0	10.3		ug/L		103	48 - 133
cis-1,2-Dichloroethene	10.0	12.0		ug/L		120	79 - 120
cis-1,3-Dichloropropene	10.0	9.71		ug/L		97	74 - 126
Cyclohexane	10.0	13.8		ug/L		138	60 - 140
Chlorodibromomethane	10.0	9.04		ug/L		90	74 - 120
Dichlorodifluoromethane	10.0	8.28		ug/L		83	23 - 136
Ethylbenzene	10.0	12.1	*	ug/L		121	80 - 120
Isopropylbenzene	10.0	12.4	*	ug/L		124	77 - 120
Methyl acetate	50.0	48.0		ug/L		96	67 - 131
Methyl tert-butyl ether	10.0	8.09		ug/L		81	69 - 121
Methylcyclohexane	10.0	13.2		ug/L		132	61 - 134
Methylene Chloride	10.0	12.4		ug/L		124	77 - 129
Styrene	10.0	12.0		ug/L		120	76 - 122
Tetrachloroethene	10.0	11.4		ug/L		114	78 - 121
Toluene	10.0	12.2	*	ug/L		122	80 - 120
trans-1,2-Dichloroethene	10.0	12.7	*	ug/L		127	80 - 124
trans-1,3-Dichloropropene	10.0	7.62		ug/L		76	75 - 131
Trichloroethene	10.0	11.9		ug/L		119	80 - 121
Trichlorofluoromethane	10.0	21.6	*	ug/L		216	61 - 133
Vinyl chloride	10.0	10.8		ug/L		108	52 - 121
Xylenes, Total	20.0	24.2	*	ug/L		121	80 - 120
m-Xylene & p-Xylene	10.0	12.4	*	ug/L		124	80 - 120
o-Xylene	10.0	11.8		ug/L		118	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	98		79 - 120
4-Bromofluorobenzene (Surr)	101		61 - 120
1,2-Dichloroethane-d4 (Surr)	104		78 - 125

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-229899/29
Matrix: Water
Analysis Batch: 229899

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethene	0.50	U	0.50	0.13	ug/L			05/12/16 00:33	1
Ethane	0.50	U	0.50	0.14	ug/L			05/12/16 00:33	1
Methane	0.50	U	0.50	0.080	ug/L			05/12/16 00:33	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier							
1,1,1-Trifluoroethane	91		66 - 132				05/12/16 00:33	1	

Lab Sample ID: LCS 240-229899/30
Matrix: Water
Analysis Batch: 229899

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
								Ethene
Ethane	374	406		ug/L		109	80 - 120	
Methane	199	199		ug/L		100	76 - 120	
Surrogate	LCS LCS		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1,1,1-Trifluoroethane	94		66 - 132				05/12/16 00:33	1

Lab Sample ID: MB 240-230633/33
Matrix: Water
Analysis Batch: 230633

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethene	0.50	U	0.50	0.13	ug/L			05/17/16 23:47	1
Ethane	0.50	U	0.50	0.14	ug/L			05/17/16 23:47	1
Methane	0.50	U	0.50	0.080	ug/L			05/17/16 23:47	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier							
1,1,1-Trifluoroethane	93		66 - 132				05/17/16 23:47	1	

Lab Sample ID: LCS 240-230633/34
Matrix: Water
Analysis Batch: 230633

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
								Ethene
Ethane	374	347		ug/L		93	80 - 120	
Methane	199	174		ug/L		87	76 - 120	
Surrogate	LCS LCS		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1,1,1-Trifluoroethane	94		66 - 132				05/17/16 23:47	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 240-64548-2 MS
Matrix: Water
Analysis Batch: 230633

Client Sample ID: MRC-MW-14B-050616
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	
Ethene	63		3490	3020		ug/L		85	60 - 120		
Ethane	5.0	U	3740	3380		ug/L		90	61 - 120		
Methane	18000		1990	19900	4	ug/L		114	34 - 153		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
1,1,1-Trifluoroethane	93		66 - 132								

Lab Sample ID: 240-64548-2 MSD
Matrix: Water
Analysis Batch: 230633

Client Sample ID: MRC-MW-14B-050616
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	RPD	Limit
Ethene	63		3490	2930		ug/L		82	60 - 120		3	17
Ethane	5.0	U	3740	3260		ug/L		87	61 - 120		3	21
Methane	18000		1990	19600	4	ug/L		99	34 - 153		1	22
		MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits									
1,1,1-Trifluoroethane	90		66 - 132									

Lab Sample ID: MB 240-231220/4
Matrix: Water
Analysis Batch: 231220

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed		Dil Fac	
	Result	Qualifier						05/20/16	14:08		
Ethene	0.50	U	0.50	0.13	ug/L			05/20/16	14:08	1	
Ethane	0.50	U	0.50	0.14	ug/L			05/20/16	14:08	1	
Methane	0.50	U	0.50	0.080	ug/L			05/20/16	14:08	1	
		MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac					
1,1,1-Trifluoroethane	112		66 - 132		05/20/16 14:08	1					

Lab Sample ID: LCS 240-231220/5
Matrix: Water
Analysis Batch: 231220

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
							Result	Qualifier	Limits
Ethene	349	391		ug/L		112	81 - 120		
Ethane	374	425		ug/L		114	80 - 120		
Methane	199	205		ug/L		103	76 - 120		
		LCS	LCS						
Surrogate	%Recovery	Qualifier	Limits						
1,1,1-Trifluoroethane	112		66 - 132						

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 240-231640/4
Matrix: Water
Analysis Batch: 231640

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethene	0.50	U	0.50	0.13	ug/L			05/24/16 14:36	1
Ethane	0.50	U	0.50	0.14	ug/L			05/24/16 14:36	1
Methane	0.50	U	0.50	0.080	ug/L			05/24/16 14:36	1
Surrogate	MB MB		Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1,1,1-Trifluoroethane	106		66 - 132					05/24/16 14:36	1

Lab Sample ID: LCS 240-231640/5
Matrix: Water
Analysis Batch: 231640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
								Ethene
Ethane	374	423		ug/L		113	80 - 120	
Methane	199	203		ug/L		102	76 - 120	
Surrogate	LCS LCS		Limits			D	%Rec	%Rec. Limits
	%Recovery	Qualifier						
1,1,1-Trifluoroethane	107		66 - 132					

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 240-229825/1-A
Matrix: Water
Analysis Batch: 230193

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 229825

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	100	U	100	25	ug/L		05/11/16 10:31	05/12/16 12:58	1
Manganese	15	U	15	5.1	ug/L		05/11/16 10:31	05/12/16 12:58	1

Lab Sample ID: LCS 240-229825/2-A
Matrix: Water
Analysis Batch: 230193

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 229825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	511		ug/L		102	80 - 120

Lab Sample ID: MB 240-230236/1-A
Matrix: Water
Analysis Batch: 230706

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 230236

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	100	U	100	25	ug/L		05/13/16 10:47	05/17/16 09:44	1
Manganese	15	U	15	5.1	ug/L		05/13/16 10:47	05/17/16 09:44	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-230236/2-A
Matrix: Water
Analysis Batch: 230706

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 230236
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	1000	971		ug/L		97	80 - 120
Manganese	500	475		ug/L		95	80 - 120

Lab Sample ID: MB 240-230249/1-A
Matrix: Water
Analysis Batch: 230854

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 230249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	100	U	100	25	ug/L		05/13/16 11:47	05/18/16 11:27	1
Manganese	15	U	15	5.1	ug/L		05/13/16 11:47	05/18/16 11:27	1

Lab Sample ID: LCS 240-230249/2-A
Matrix: Water
Analysis Batch: 230854

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 230249
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	1000	995		ug/L		99	80 - 120
Manganese	500	493		ug/L		99	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-231124/2
Matrix: Water
Analysis Batch: 231124

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	1.9	mg/L			05/19/16 17:49	1

Lab Sample ID: LCS 240-231124/3
Matrix: Water
Analysis Batch: 231124

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	368	361		mg/L		98	90 - 127

Lab Sample ID: MB 240-231415/30
Matrix: Water
Analysis Batch: 231415

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	1.9	mg/L			05/20/16 22:51	1

Lab Sample ID: MB 240-231415/5
Matrix: Water
Analysis Batch: 231415

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	1.9	mg/L			05/20/16 17:32	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 240-231415/29
Matrix: Water
Analysis Batch: 231415

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	368	376		mg/L		102	90 - 127

Lab Sample ID: LCS 240-231415/4
Matrix: Water
Analysis Batch: 231415

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	368	374		mg/L		102	90 - 127

Lab Sample ID: 240-64615-2 DU
Matrix: Water
Analysis Batch: 231415

Client Sample ID: MRC-MW-12A-050916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	93		91.8		mg/L		1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-229421/3
Matrix: Water
Analysis Batch: 229421

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.41	mg/L			05/07/16 14:56	1
Sulfate	1.0	U	1.0	0.13	mg/L			05/07/16 14:56	1

Lab Sample ID: LCS 240-229421/4
Matrix: Water
Analysis Batch: 229421

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.0		mg/L		102	90 - 110
Sulfate	50.0	48.5		mg/L		97	90 - 110

Lab Sample ID: MB 240-229422/3
Matrix: Water
Analysis Batch: 229422

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			05/07/16 14:56	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			05/07/16 14:56	1

Lab Sample ID: LCS 240-229422/4
Matrix: Water
Analysis Batch: 229422

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.44		mg/L		98	90 - 110
Nitrate as N	2.50	2.54		mg/L		102	90 - 110

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-229710/3
Matrix: Water
Analysis Batch: 229710

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1.0	U	1.0	0.41	mg/L			05/10/16 15:29	1
Sulfate	1.0	U	1.0	0.13	mg/L			05/10/16 15:29	1

Lab Sample ID: LCS 240-229710/4
Matrix: Water
Analysis Batch: 229710

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.2		mg/L		96	90 - 110

Lab Sample ID: MB 240-229711/3
Matrix: Water
Analysis Batch: 229711

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrite as N	0.10	U	0.10	0.038	mg/L			05/10/16 15:29	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			05/10/16 15:29	1

Lab Sample ID: LCS 240-229711/4
Matrix: Water
Analysis Batch: 229711

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.50	2.53		mg/L		101	90 - 110

Lab Sample ID: MB 240-229802/27
Matrix: Water
Analysis Batch: 229802

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1.0	U	1.0	0.41	mg/L			05/11/16 17:25	1
Sulfate	1.0	U	1.0	0.13	mg/L			05/11/16 17:25	1

Lab Sample ID: LCS 240-229802/28
Matrix: Water
Analysis Batch: 229802

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.0		mg/L		96	90 - 110

Lab Sample ID: 240-64671-7 MS
Matrix: Water
Analysis Batch: 229802

Client Sample ID: G-OUTFALL-051016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-64671-7 MSD
Matrix: Water
Analysis Batch: 229802

Client Sample ID: G-OUTFALL-051016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50		50.0	107		mg/L		115	80 - 120	0	15

Lab Sample ID: MB 240-229803/27
Matrix: Water
Analysis Batch: 229803

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			05/11/16 17:25	1
Nitrate as N	0.10	U	0.10	0.035	mg/L			05/11/16 17:25	1

Lab Sample ID: MB 240-229803/51
Matrix: Water
Analysis Batch: 229803

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.10	0.038	mg/L			05/11/16 23:59	1

Lab Sample ID: LCS 240-229803/28
Matrix: Water
Analysis Batch: 229803

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.34		mg/L		93	90 - 110
Nitrate as N	2.50	2.48		mg/L		99	90 - 110

Lab Sample ID: LCS 240-229803/52
Matrix: Water
Analysis Batch: 229803

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.50	2.35		mg/L		94	90 - 110

Lab Sample ID: 240-64671-7 MS
Matrix: Water
Analysis Batch: 229803

Client Sample ID: G-OUTFALL-051016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.10	U	2.50	2.84		mg/L		114	80 - 120
Nitrate as N	0.12		2.50	2.66		mg/L		102	80 - 120

Lab Sample ID: 240-64671-7 MSD
Matrix: Water
Analysis Batch: 229803

Client Sample ID: G-OUTFALL-051016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.10	U	2.50	2.82		mg/L		113	80 - 120	1	15
Nitrate as N	0.12		2.50	2.64		mg/L		101	80 - 120	1	15

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-229916/3
Matrix: Water
Analysis Batch: 229916

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			05/12/16 13:41	1

Lab Sample ID: LCS 240-229916/4
Matrix: Water
Analysis Batch: 229916

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	54.7		mg/L		109	90 - 110

Lab Sample ID: MB 240-230602/3
Matrix: Water
Analysis Batch: 230602

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			05/17/16 09:54	1

Lab Sample ID: LCS 240-230602/4
Matrix: Water
Analysis Batch: 230602

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.7		mg/L		97	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-230269/4
Matrix: Water
Analysis Batch: 230269

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.0	U	1.0	0.080	mg/L			05/13/16 08:28	1
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			05/13/16 08:28	1

Lab Sample ID: LCS 240-230269/6
Matrix: Water
Analysis Batch: 230269

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	14.4	15.0		mg/L		104	88 - 115
Total Organic Carbon	14.4	15.0		mg/L		104	88 - 115

Lab Sample ID: LLCS 240-230269/5
Matrix: Water
Analysis Batch: 230269

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	7.20	7.55		mg/L		105	88 - 115
Total Organic Carbon	7.20	7.55		mg/L		105	88 - 115

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 240-231370/35
Matrix: Water
Analysis Batch: 231370

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	1.0	U	1.0	0.080	mg/L			05/22/16 03:00	1
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			05/22/16 03:00	1

Lab Sample ID: MB 240-231370/4
Matrix: Water
Analysis Batch: 231370

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	1.0	U	1.0	0.080	mg/L			05/21/16 17:32	1
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			05/21/16 17:32	1

Lab Sample ID: LCS 240-231370/37
Matrix: Water
Analysis Batch: 231370

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	14.4	13.9		mg/L		96	88 - 115

Lab Sample ID: LCS 240-231370/6
Matrix: Water
Analysis Batch: 231370

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	14.4	14.2		mg/L		99	88 - 115

Lab Sample ID: LLCS 240-231370/36
Matrix: Water
Analysis Batch: 231370

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	7.20	6.72		mg/L		93	88 - 115

Lab Sample ID: LLCS 240-231370/5
Matrix: Water
Analysis Batch: 231370

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	7.20	6.64		mg/L		92	88 - 115

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-229808/1
Matrix: Water
Analysis Batch: 229808

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L			05/11/16 10:11	1

Lab Sample ID: LCS 240-229808/2
Matrix: Water
Analysis Batch: 229808

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	577	533		mg/L		92	88 - 110

Lab Sample ID: MB 240-230211/1
Matrix: Water
Analysis Batch: 230211

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L			05/13/16 09:46	1

Lab Sample ID: LCS 240-230211/2
Matrix: Water
Analysis Batch: 230211

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	577	545		mg/L		94	88 - 110

Lab Sample ID: MB 240-230645/1
Matrix: Water
Analysis Batch: 230645

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L			05/17/16 10:32	1

Lab Sample ID: LCS 240-230645/2
Matrix: Water
Analysis Batch: 230645

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	577	550		mg/L		95	88 - 110

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 240-229291/3
Matrix: Water
Analysis Batch: 229291

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.10	U	0.10	0.0050	mg/L			05/07/16 14:32	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: LCS 240-229291/4
Matrix: Water
Analysis Batch: 229291

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	1.84	1.80		mg/L		98	89 - 115

Lab Sample ID: 240-64548-3 MS
Matrix: Water
Analysis Batch: 229291

Client Sample ID: SWMW-11-050616
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.11		0.500	0.683		mg/L		115	56 - 139

Lab Sample ID: 240-64548-3 MSD
Matrix: Water
Analysis Batch: 229291

Client Sample ID: SWMW-11-050616
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate as P	0.11		0.500	0.627		mg/L		104	56 - 139	8	20

Lab Sample ID: MB 240-229708/3
Matrix: Water
Analysis Batch: 229708

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.10	U	0.10	0.0050	mg/L			05/10/16 16:23	1

Lab Sample ID: LCS 240-229708/4
Matrix: Water
Analysis Batch: 229708

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.920	0.886		mg/L		96	89 - 115

Lab Sample ID: 240-64615-2 MS
Matrix: Water
Analysis Batch: 229708

Client Sample ID: MRC-MW-12A-050916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.014	J	1.00	0.984		mg/L		97	56 - 139

Lab Sample ID: 240-64615-2 MSD
Matrix: Water
Analysis Batch: 229708

Client Sample ID: MRC-MW-12A-050916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate as P	0.014	J	1.00	0.955		mg/L		94	56 - 139	3	20

Lab Sample ID: MB 240-229913/3
Matrix: Water
Analysis Batch: 229913

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.10	U	0.10	0.0050	mg/L			05/11/16 14:52	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Lab Sample ID: LCS 240-229913/4
Matrix: Water
Analysis Batch: 229913

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.920	0.903		mg/L		98	89 - 115

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

GC/MS VOA

Analysis Batch: 230196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-1	TB-050616	Total/NA	Water	8260C	
240-64548-3	SWMW-1I-050616	Total/NA	Water	8260C	
LCS 240-230196/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-230196/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 230444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total/NA	Water	8260C	
240-64615-1	TB-050916	Total/NA	Water	8260C	
240-64615-2	MRC-MW-12A-050916	Total/NA	Water	8260C	
240-64615-3	MRC-MW-12B-050916	Total/NA	Water	8260C	
240-64615-4	G-SWMW-3I-050916	Total/NA	Water	8260C	
LCS 240-230444/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-230444/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 230805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64671-1	TB-051016	Total/NA	Water	8260C	
240-64671-2	G-SWMW-4I-051016	Total/NA	Water	8260C	
240-64671-3	G-SWMW-4S-051016	Total/NA	Water	8260C	
240-64671-4	G-SWMW-5I-051016	Total/NA	Water	8260C	
240-64671-5	G-SWMW-2I-051016	Total/NA	Water	8260C	
240-64671-7	G-OUTFALL-051016	Total/NA	Water	8260C	
LCS 240-230805/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-230805/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 231016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64671-2	G-SWMW-4I-051016	Total/NA	Water	8260C	
LCS 240-231016/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-231016/31	Method Blank	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 229899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total/NA	Water	RSK-175	
LCS 240-229899/30	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-229899/29	Method Blank	Total/NA	Water	RSK-175	

Analysis Batch: 230633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total/NA	Water	RSK-175	
240-64548-2 MS	MRC-MW-14B-050616	Total/NA	Water	RSK-175	
240-64548-2 MSD	MRC-MW-14B-050616	Total/NA	Water	RSK-175	
240-64548-3	SWMW-1I-050616	Total/NA	Water	RSK-175	
LCS 240-230633/34	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-230633/33	Method Blank	Total/NA	Water	RSK-175	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

GC VOA (Continued)

Analysis Batch: 231220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64615-2	MRC-MW-12A-050916	Total/NA	Water	RSK-175	
240-64615-4	G-SWMW-3I-050916	Total/NA	Water	RSK-175	
240-64671-5	G-SWMW-2I-051016	Total/NA	Water	RSK-175	
LCS 240-231220/5	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-231220/4	Method Blank	Total/NA	Water	RSK-175	

Analysis Batch: 231640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64671-2	G-SWMW-4I-051016	Total/NA	Water	RSK-175	
LCS 240-231640/5	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-231640/4	Method Blank	Total/NA	Water	RSK-175	

Metals

Prep Batch: 229825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total Recoverable	Water	3005A	
240-64548-3	SWMW-1I-050616	Total Recoverable	Water	3005A	
LCS 240-229825/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-229825/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 230193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total Recoverable	Water	6010C	229825
240-64548-3	SWMW-1I-050616	Total Recoverable	Water	6010C	229825
CRI 240-230193/20	DL		Water	6010C	
CRI 240-230193/71	DL		Water	6010C	
ICSA 240-230193/8	ICS		Water	6010C	
ICSAB 240-230193/9	ICS		Water	6010C	
LCS 240-229825/2-A	Lab Control Sample	Total Recoverable	Water	6010C	229825
MB 240-229825/1-A	Method Blank	Total Recoverable	Water	6010C	229825

Prep Batch: 230236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64615-2	MRC-MW-12A-050916	Total Recoverable	Water	3005A	
LCS 240-230236/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-230236/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 230249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64671-2	G-SWMW-4I-051016	Total Recoverable	Water	3005A	
240-64671-5	G-SWMW-2I-051016	Total Recoverable	Water	3005A	
240-64671-7	G-OUTFALL-051016	Total Recoverable	Water	3005A	
LCS 240-230249/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-230249/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 230706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64615-2	MRC-MW-12A-050916	Total Recoverable	Water	6010C	230236
CRI 240-230706/20	DL		Water	6010C	

TestAmerica Canton

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Metals (Continued)

Analysis Batch: 230706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
CRI 240-230706/63	DL		Water	6010C	
ICSA 240-230706/8	ICS		Water	6010C	
ICSAB 240-230706/9	ICS		Water	6010C	
LCS 240-230236/2-A	Lab Control Sample	Total Recoverable	Water	6010C	230236
MB 240-230236/1-A	Method Blank	Total Recoverable	Water	6010C	230236

Analysis Batch: 230854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64671-2	G-SWMW-4I-051016	Total Recoverable	Water	6010C	230249
240-64671-5	G-SWMW-2I-051016	Total Recoverable	Water	6010C	230249
240-64671-7	G-OUTFALL-051016	Total Recoverable	Water	6010C	230249
CRI 240-230854/124	DL		Water	6010C	
CRI 240-230854/20	DL		Water	6010C	
ICSA 240-230854/8	ICS		Water	6010C	
ICSAB 240-230854/9	ICS		Water	6010C	
LCS 240-230249/2-A	Lab Control Sample	Total Recoverable	Water	6010C	230249
MB 240-230249/1-A	Method Blank	Total Recoverable	Water	6010C	230249

General Chemistry

Analysis Batch: 229291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total/NA	Water	SM 4500 P E	
240-64548-3	SWMW-1I-050616	Total/NA	Water	SM 4500 P E	
240-64548-3 MS	SWMW-1I-050616	Total/NA	Water	SM 4500 P E	
240-64548-3 MSD	SWMW-1I-050616	Total/NA	Water	SM 4500 P E	
LCS 240-229291/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 240-229291/3	Method Blank	Total/NA	Water	SM 4500 P E	

Analysis Batch: 229421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total/NA	Water	300.0	
240-64548-3	SWMW-1I-050616	Total/NA	Water	300.0	
LCS 240-229421/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-229421/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 229422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total/NA	Water	300.0	
240-64548-3	SWMW-1I-050616	Total/NA	Water	300.0	
LCS 240-229422/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-229422/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 229708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64615-2	MRC-MW-12A-050916	Total/NA	Water	SM 4500 P E	
240-64615-2 MS	MRC-MW-12A-050916	Total/NA	Water	SM 4500 P E	
240-64615-2 MSD	MRC-MW-12A-050916	Total/NA	Water	SM 4500 P E	
LCS 240-229708/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 240-229708/3	Method Blank	Total/NA	Water	SM 4500 P E	

TestAmerica Canton

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

General Chemistry (Continued)

Analysis Batch: 229710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64615-2	MRC-MW-12A-050916	Total/NA	Water	300.0	
LCS 240-229710/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-229710/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 229711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64615-2	MRC-MW-12A-050916	Total/NA	Water	300.0	
LCS 240-229711/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-229711/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 229802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64671-2	G-SWMW-4I-051016	Total/NA	Water	300.0	
240-64671-5	G-SWMW-2I-051016	Total/NA	Water	300.0	
240-64671-7	G-OUTFALL-051016	Total/NA	Water	300.0	
240-64671-7 MS	G-OUTFALL-051016	Total/NA	Water	300.0	
240-64671-7 MSD	G-OUTFALL-051016	Total/NA	Water	300.0	
LCS 240-229802/28	Lab Control Sample	Total/NA	Water	300.0	
MB 240-229802/27	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 229803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64671-2	G-SWMW-4I-051016	Total/NA	Water	300.0	
240-64671-5	G-SWMW-2I-051016	Total/NA	Water	300.0	
240-64671-7	G-OUTFALL-051016	Total/NA	Water	300.0	
240-64671-7	G-OUTFALL-051016	Total/NA	Water	300.0	
240-64671-7 MS	G-OUTFALL-051016	Total/NA	Water	300.0	
240-64671-7 MSD	G-OUTFALL-051016	Total/NA	Water	300.0	
LCS 240-229803/28	Lab Control Sample	Total/NA	Water	300.0	
LCS 240-229803/52	Lab Control Sample	Total/NA	Water	300.0	
MB 240-229803/27	Method Blank	Total/NA	Water	300.0	
MB 240-229803/51	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 229808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total/NA	Water	SM 2540C	
240-64548-3	SWMW-1I-050616	Total/NA	Water	SM 2540C	
240-64615-2	MRC-MW-12A-050916	Total/NA	Water	SM 2540C	
LCS 240-229808/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-229808/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 229913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64671-2	G-SWMW-4I-051016	Total/NA	Water	SM 4500 P E	
240-64671-5	G-SWMW-2I-051016	Total/NA	Water	SM 4500 P E	
240-64671-7	G-OUTFALL-051016	Total/NA	Water	SM 4500 P E	
LCS 240-229913/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 240-229913/3	Method Blank	Total/NA	Water	SM 4500 P E	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

General Chemistry (Continued)

Analysis Batch: 229916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-3	SWMW-1I-050616	Total/NA	Water	300.0	
LCS 240-229916/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-229916/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 230211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64671-2	G-SWMW-4I-051016	Total/NA	Water	SM 2540C	
240-64671-5	G-SWMW-2I-051016	Total/NA	Water	SM 2540C	
LCS 240-230211/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-230211/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 230269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total/NA	Water	9060A	
240-64548-3	SWMW-1I-050616	Total/NA	Water	9060A	
240-64615-2	MRC-MW-12A-050916	Total/NA	Water	9060A	
240-64615-3	MRC-MW-12B-050916	Total/NA	Water	9060A	
240-64615-4	G-SWMW-3I-050916	Total/NA	Water	9060A	
LCS 240-230269/6	Lab Control Sample	Total/NA	Water	9060A	
LLCS 240-230269/5	Lab Control Sample	Total/NA	Water	9060A	
MB 240-230269/4	Method Blank	Total/NA	Water	9060A	

Analysis Batch: 230602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total/NA	Water	300.0	
LCS 240-230602/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-230602/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 230645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64671-7	G-OUTFALL-051016	Total/NA	Water	SM 2540C	
LCS 240-230645/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-230645/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 231124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64548-2	MRC-MW-14B-050616	Total/NA	Water	2320B-1997	
240-64548-3	SWMW-1I-050616	Total/NA	Water	2320B-1997	
LCS 240-231124/3	Lab Control Sample	Total/NA	Water	2320B-1997	
MB 240-231124/2	Method Blank	Total/NA	Water	2320B-1997	

Analysis Batch: 231370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64671-2	G-SWMW-4I-051016	Total/NA	Water	9060A	
240-64671-3	G-SWMW-4S-051016	Total/NA	Water	9060A	
240-64671-4	G-SWMW-5I-051016	Total/NA	Water	9060A	
240-64671-5	G-SWMW-2I-051016	Total/NA	Water	9060A	
240-64671-7	G-OUTFALL-051016	Total/NA	Water	9060A	
LCS 240-231370/37	Lab Control Sample	Total/NA	Water	9060A	
LCS 240-231370/6	Lab Control Sample	Total/NA	Water	9060A	
LLCS 240-231370/36	Lab Control Sample	Total/NA	Water	9060A	

TestAmerica Canton

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

General Chemistry (Continued)

Analysis Batch: 231370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 240-231370/5	Lab Control Sample	Total/NA	Water	9060A	
MB 240-231370/35	Method Blank	Total/NA	Water	9060A	
MB 240-231370/4	Method Blank	Total/NA	Water	9060A	

Analysis Batch: 231415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-64615-2	MRC-MW-12A-050916	Total/NA	Water	2320B-1997	
240-64615-2 DU	MRC-MW-12A-050916	Total/NA	Water	2320B-1997	
240-64671-2	G-SWMW-4I-051016	Total/NA	Water	2320B-1997	
240-64671-5	G-SWMW-2I-051016	Total/NA	Water	2320B-1997	
240-64671-7	G-OUTFALL-051016	Total/NA	Water	2320B-1997	
LCS 240-231415/29	Lab Control Sample	Total/NA	Water	2320B-1997	
LCS 240-231415/4	Lab Control Sample	Total/NA	Water	2320B-1997	
MB 240-231415/30	Method Blank	Total/NA	Water	2320B-1997	
MB 240-231415/5	Method Blank	Total/NA	Water	2320B-1997	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: TB-050616

Lab Sample ID: 240-64548-1

Date Collected: 05/06/16 00:00

Matrix: Water

Date Received: 05/07/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	230196	05/13/16 15:08	LEE	TAL CAN

Client Sample ID: MRC-MW-14B-050616

Lab Sample ID: 240-64548-2

Date Collected: 05/06/16 11:50

Matrix: Water

Date Received: 05/07/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	230444	05/16/16 10:46	LEE	TAL CAN
Total/NA	Analysis	RSK-175		1	229899	05/12/16 06:17	BPM	TAL CAN
Total/NA	Analysis	RSK-175		10	230633	05/18/16 00:21	BPM	TAL CAN
Total Recoverable	Prep	3005A			229825	05/11/16 10:31	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	230193	05/12/16 13:46	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	231124	05/19/16 21:26	JWW	TAL CAN
Total/NA	Analysis	300.0		1	229421	05/07/16 17:23	LKG	TAL CAN
Total/NA	Analysis	300.0		1	229422	05/07/16 17:23	LKG	TAL CAN
Total/NA	Analysis	300.0		1	230602	05/17/16 15:22	LKG	TAL CAN
Total/NA	Analysis	9060A		4	230269	05/13/16 09:56	LKG	TAL CAN
Total/NA	Analysis	SM 2540C		1	229808	05/11/16 10:11	GNR	TAL CAN
Total/NA	Analysis	SM 4500 P E		1	229291	05/07/16 14:38	BLW	TAL CAN

Client Sample ID: SWMW-11-050616

Lab Sample ID: 240-64548-3

Date Collected: 05/06/16 13:25

Matrix: Water

Date Received: 05/07/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	230196	05/13/16 15:54	LEE	TAL CAN
Total/NA	Analysis	RSK-175		10	230633	05/18/16 01:13	BPM	TAL CAN
Total Recoverable	Prep	3005A			229825	05/11/16 10:31	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	230193	05/12/16 13:50	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	231124	05/19/16 21:16	JWW	TAL CAN
Total/NA	Analysis	300.0		1	229421	05/07/16 18:29	LKG	TAL CAN
Total/NA	Analysis	300.0		1	229422	05/07/16 18:29	LKG	TAL CAN
Total/NA	Analysis	300.0		1	229916	05/12/16 20:04	LCN	TAL CAN
Total/NA	Analysis	9060A		1	230269	05/13/16 10:21	LKG	TAL CAN
Total/NA	Analysis	SM 2540C		1	229808	05/11/16 10:11	GNR	TAL CAN
Total/NA	Analysis	SM 4500 P E		1	229291	05/07/16 14:35	BLW	TAL CAN

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: TB-050916

Date Collected: 05/09/16 00:00

Date Received: 05/10/16 10:05

Lab Sample ID: 240-64615-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	230444	05/16/16 12:16	LEE	TAL CAN

Client Sample ID: MRC-MW-12A-050916

Date Collected: 05/09/16 10:55

Date Received: 05/10/16 10:05

Lab Sample ID: 240-64615-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		33.33	230444	05/16/16 12:38	LEE	TAL CAN
Total/NA	Analysis	RSK-175		10	231220	05/20/16 17:18	BPM	TAL CAN
Total Recoverable	Prep	3005A			230236	05/13/16 10:47	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	230706	05/17/16 10:11	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	231415	05/20/16 17:43	LKG	TAL CAN
Total/NA	Analysis	300.0		1	229710	05/10/16 17:49	LCN	TAL CAN
Total/NA	Analysis	300.0		1	229711	05/10/16 17:49	LCN	TAL CAN
Total/NA	Analysis	9060A		1	230269	05/13/16 10:49	LKG	TAL CAN
Total/NA	Analysis	SM 2540C		1	229808	05/11/16 10:11	GNR	TAL CAN
Total/NA	Analysis	SM 4500 P E		2	229708	05/10/16 16:23	JWW	TAL CAN

Client Sample ID: MRC-MW-12B-050916

Date Collected: 05/09/16 12:20

Date Received: 05/10/16 10:05

Lab Sample ID: 240-64615-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	230444	05/16/16 13:00	LEE	TAL CAN
Total/NA	Analysis	9060A		1	230269	05/13/16 11:30	LKG	TAL CAN

Client Sample ID: G-SWMW-3I-050916

Date Collected: 05/09/16 14:15

Date Received: 05/10/16 10:05

Lab Sample ID: 240-64615-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	230444	05/16/16 13:22	LEE	TAL CAN
Total/NA	Analysis	RSK-175		10	231220	05/20/16 17:36	BPM	TAL CAN
Total/NA	Analysis	9060A		4	230269	05/13/16 11:54	LKG	TAL CAN

Client Sample ID: TB-051016

Date Collected: 05/10/16 00:00

Date Received: 05/11/16 09:40

Lab Sample ID: 240-64671-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	230805	05/18/16 12:57	LEE	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-4I-051016

Lab Sample ID: 240-64671-2

Date Collected: 05/10/16 10:00

Matrix: Water

Date Received: 05/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	230805	05/18/16 13:20	LEE	TAL CAN
Total/NA	Analysis	8260C		5	231016	05/19/16 11:47	LEE	TAL CAN
Total/NA	Analysis	RSK-175		1	231640	05/24/16 16:02	BPM	TAL CAN
Total Recoverable	Prep	3005A			230249	05/13/16 11:47	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	230854	05/18/16 14:23	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	231415	05/20/16 19:15	LKG	TAL CAN
Total/NA	Analysis	300.0		1	229802	05/11/16 21:31	LCN	TAL CAN
Total/NA	Analysis	300.0		5	229803	05/11/16 21:47	LCN	TAL CAN
Total/NA	Analysis	9060A		20	231370	05/22/16 04:05	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	230211	05/13/16 09:46	GNR	TAL CAN
Total/NA	Analysis	SM 4500 P E		5	229913	05/11/16 14:52	GNR	TAL CAN

Client Sample ID: G-SWMW-4S-051016

Lab Sample ID: 240-64671-3

Date Collected: 05/10/16 11:10

Matrix: Water

Date Received: 05/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		3.33	230805	05/18/16 13:42	LEE	TAL CAN
Total/NA	Analysis	9060A		1	231370	05/22/16 04:32	TPH	TAL CAN

Client Sample ID: G-SWMW-5I-051016

Lab Sample ID: 240-64671-4

Date Collected: 05/10/16 12:30

Matrix: Water

Date Received: 05/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		6.67	230805	05/18/16 14:05	LEE	TAL CAN
Total/NA	Analysis	9060A		20	231370	05/22/16 04:58	TPH	TAL CAN

Client Sample ID: G-SWMW-2I-051016

Lab Sample ID: 240-64671-5

Date Collected: 05/10/16 14:30

Matrix: Water

Date Received: 05/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	230805	05/18/16 14:27	LEE	TAL CAN
Total/NA	Analysis	RSK-175		20	231220	05/20/16 19:19	BPM	TAL CAN
Total Recoverable	Prep	3005A			230249	05/13/16 11:47	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	230854	05/18/16 14:27	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	231415	05/20/16 19:35	LKG	TAL CAN
Total/NA	Analysis	300.0		1	229802	05/11/16 22:04	LCN	TAL CAN
Total/NA	Analysis	300.0		5	229803	05/11/16 22:20	LCN	TAL CAN
Total/NA	Analysis	9060A		10	231370	05/22/16 05:24	TPH	TAL CAN

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Client Sample ID: G-SWMW-2I-051016

Lab Sample ID: 240-64671-5

Date Collected: 05/10/16 14:30

Matrix: Water

Date Received: 05/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	230211	05/13/16 09:46	GNR	TAL CAN
Total/NA	Analysis	SM 4500 P E		5	229913	05/11/16 14:52	GNR	TAL CAN

Client Sample ID: G-OUTFALL-051016

Lab Sample ID: 240-64671-7

Date Collected: 05/10/16 14:40

Matrix: Water

Date Received: 05/11/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	230805	05/18/16 14:50	LEE	TAL CAN
Total Recoverable	Prep	3005A			230249	05/13/16 11:47	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	230854	05/18/16 14:32	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	231415	05/20/16 19:45	LKG	TAL CAN
Total/NA	Analysis	300.0		1	229802	05/11/16 22:37	LCN	TAL CAN
Total/NA	Analysis	300.0		1	229803	05/11/16 22:37	LCN	TAL CAN
Total/NA	Analysis	300.0		5	229803	05/12/16 00:32	LCN	TAL CAN
Total/NA	Analysis	9060A		1	231370	05/22/16 02:18	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	230645	05/17/16 10:40	GNR	TAL CAN
Total/NA	Analysis	SM 4500 P E		2	229913	05/11/16 14:52	GNR	TAL CAN

Laboratory References:

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

Certification Summary

Client: Tetra Tech, Inc.
 Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

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	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-16 *
Illinois	NELAP	5	200004	07-31-16 *
Kansas	NELAP	7	E-10336	07-31-16 *
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-16
Nevada	State Program	9	OH-000482008A	07-31-16 *
New Jersey	NELAP	2	OH001	06-30-16 *
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-16 *
Texas	NELAP	6	T104704517-15-5	08-31-16 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16
Wisconsin	State Program	5	999518190	08-31-16 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010C	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9060A	Organic Carbon, Total (TOC)	SW846	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
SM 4500 P E	Orthophosphate	SM	TAL CAN

Protocol References:

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

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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.

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Block G GW Remedy

TestAmerica Job ID: 240-64548-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-64548-1	TB-050616	Water	05/06/16 00:00	05/07/16 10:00
240-64548-2	MRC-MW-14B-050616	Water	05/06/16 11:50	05/07/16 10:00
240-64548-3	SWMW-1I-050616	Water	05/06/16 13:25	05/07/16 10:00
240-64615-1	TB-050916	Water	05/09/16 00:00	05/10/16 10:05
240-64615-2	MRC-MW-12A-050916	Water	05/09/16 10:55	05/10/16 10:05
240-64615-3	MRC-MW-12B-050916	Water	05/09/16 12:20	05/10/16 10:05
240-64615-4	G-SWMW-3I-050916	Water	05/09/16 14:15	05/10/16 10:05
240-64671-1	TB-051016	Water	05/10/16 00:00	05/11/16 09:40
240-64671-2	G-SWMW-4I-051016	Water	05/10/16 10:00	05/11/16 09:40
240-64671-3	G-SWMW-4S-051016	Water	05/10/16 11:10	05/11/16 09:40
240-64671-4	G-SWMW-5I-051016	Water	05/10/16 12:30	05/11/16 09:40
240-64671-5	G-SWMW-2I-051016	Water	05/10/16 14:30	05/11/16 09:40
240-64671-7	G-OUTFALL-051016	Water	05/10/16 14:40	05/11/16 09:40

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ZPID Analysis Batch Number: 229899Lab Sample ID: 240-64548-2 Client Sample ID: MRC-MW-14B-050616Date Analyzed: 05/12/16 06:17 Lab File ID: RSK0051149.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.87	Incomplete Integration	matthewsb	05/12/16 06:41
Ethane	2.19	Split Peak	matthewsb	05/12/16 06:41
1,1,1-Trifluoroethane	3.34	Incomplete Integration	matthewsb	05/12/16 06:41

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ZPID Analysis Batch Number: 230633Lab Sample ID: 240-64548-2 Client Sample ID: MRC-MW-14B-050616Date Analyzed: 05/18/16 00:21 Lab File ID: RSK0051735.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.87	Incomplete Integration	matthewsb	05/18/16 06:35
Ethane	2.19	Incomplete Integration	matthewsb	05/18/16 06:35

Lab Sample ID: 240-64548-3 Client Sample ID: SWMW-1I-050616Date Analyzed: 05/18/16 01:13 Lab File ID: RSK0051738.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.87	Incomplete Integration	matthewsb	05/18/16 06:36

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ZPID Analysis Batch Number: 231220

Lab Sample ID: 240-64615-4 Client Sample ID: G-SWMW-3I-050916

Date Analyzed: 05/20/16 17:36 Lab File ID: RSK0052016.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.87	Incomplete Integration	matthewsb	05/21/16 09:33

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ZPID Analysis Batch Number: 231640

Lab Sample ID: 240-64671-2 Client Sample ID: G-SWMW-4I-051016

Date Analyzed: 05/24/16 16:02 Lab File ID: RSK0052409.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.87	Incomplete Integration	matthewsb	05/25/16 06:34
Ethane	2.34	Incomplete Integration	matthewsb	05/25/16 06:34

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Batch Number: 229421

Lab Sample ID: 240-64548-2 Client Sample ID: MRC-MW-14B-050616

Date Analyzed: 05/07/16 17:23 Lab File ID: 13240-0054274-012.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	3.96	Peak not integrated	grossman1	05/09/16 12:49

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Batch Number: 229422

Lab Sample ID: 240-64548-2 Client Sample ID: MRC-MW-14B-050616

Date Analyzed: 05/07/16 17:23 Lab File ID: 13240-0054274-012.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	4.59	Peak not integrated	grossman1	05/09/16 12:49

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Batch Number: 229710

Lab Sample ID: 240-64615-2 Client Sample ID: MRC-MW-12A-050916

Date Analyzed: 05/10/16 17:49 Lab File ID: 12240-0054334-011.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	3.88	Unspecified		
Sulfate	8.54	Unspecified		

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Batch Number: 229802

Lab Sample ID: 240-64671-5 Client Sample ID: G-SWMW-2I-051016

Date Analyzed: 05/11/16 22:04 Lab File ID: 45240-0054361-044.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	3.91	Unspecified		

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Batch Number: 229803

Lab Sample ID: 240-64671-2 Client Sample ID: G-SWMW-4I-051016

Date Analyzed: 05/11/16 21:47 Lab File ID: 44240-0054361-043.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	4.56	Unspecified		

Lab Sample ID: 240-64671-5 Client Sample ID: G-SWMW-2I-051016

Date Analyzed: 05/11/16 22:20 Lab File ID: 46240-0054361-045.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	4.58	Unspecified		

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: VERONICA Analysis Batch Number: 228222

Lab Sample ID: STD1 240-228222/1 IC Client Sample ID: _____

Date Analyzed: 04/29/16 21:12 Lab File ID: 149240-0054002-001.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.14	Peak not integrated	grossman1	05/01/16 19:50

Lab Sample ID: STD2 240-228222/2 IC Client Sample ID: _____

Date Analyzed: 04/29/16 21:32 Lab File ID: 150240-0054002-002.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.14	Peak not integrated	grossman1	05/01/16 19:44

Lab Sample ID: STD3 240-228222/3 IC Client Sample ID: _____

Date Analyzed: 04/29/16 21:53 Lab File ID: 151240-0054002-003.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.13	Peak not integrated	grossman1	05/01/16 19:44

Lab Sample ID: STD4 240-228222/4 IC Client Sample ID: _____

Date Analyzed: 04/29/16 22:13 Lab File ID: 152240-0054002-004.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.15	Peak not integrated	grossman1	05/01/16 19:44

Lab Sample ID: STD5 240-228222/5 ICRT Client Sample ID: _____

Date Analyzed: 04/29/16 22:33 Lab File ID: 153240-0054002-005.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.15	Peak not integrated	grossman1	05/01/16 19:44

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: VERONICA Analysis Batch Number: 228222

Lab Sample ID: STD6 240-228222/6 IC Client Sample ID: _____

Date Analyzed: 04/29/16 22:53 Lab File ID: 154240-0054002-006.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.16	Peak not integrated	grossman1	05/01/16 19:44

Lab Sample ID: STD7 240-228222/7 IC Client Sample ID: _____

Date Analyzed: 04/29/16 23:13 Lab File ID: 155240-0054002-007.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.15	Peak not integrated	grossman1	05/01/16 19:44

Lab Sample ID: STD8 240-228222/8 IC Client Sample ID: _____

Date Analyzed: 04/29/16 23:33 Lab File ID: 156240-0054002-008.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.15	Peak not integrated	grossman1	05/01/16 19:45

Lab Sample ID: STD9 240-228222/9 IC Client Sample ID: _____

Date Analyzed: 04/29/16 23:54 Lab File ID: 157240-0054002-009.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.15	Peak not integrated	grossman1	05/01/16 19:45

Lab Sample ID: ICV 240-228222/10 Client Sample ID: _____

Date Analyzed: 04/30/16 00:14 Lab File ID: 158240-0054002-010.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.15	Peak not integrated	grossman1	05/01/16 19:45

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: VERONICA Analysis Batch Number: 229916

Lab Sample ID: CCV 240-229916/1 Client Sample ID: _____

Date Analyzed: 05/12/16 13:01 Lab File ID: 982240-0054383-001.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.15	Baseline Smoothing	nolle1	05/13/16 08:55

Lab Sample ID: CCV 240-229916/13 Client Sample ID: _____

Date Analyzed: 05/12/16 17:03 Lab File ID: 994240-0054383-013.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.15	Baseline Smoothing	nolle1	05/13/16 08:56

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MT6500ICV_00031	09/08/16	03/08/16	DIWATER, Lot DIWATER	1000 mL	MTTRICV1_00006	5 mL	Iron	12500 ug/L
.MTTRICV1_00006	10/01/16		CPI, Lot 1080445		MTTRICV3_00007	6 mL	Manganese	1500 ug/L
.MTTRICV3_00007	01/01/17		CPI, Lot 1084215				Iron	2500 ug/mL
							Manganese	250 mg/L
MTAGSPIKEW_00057	06/09/17	03/28/16	DIWATER, Lot DIWATER	1000 mL	MTAG_00006	2.5 mL	Ag	2500 ug/L
.MTAG_00006	06/09/17		HIGH PURITY STANDARDS, Lot 1507504		MTTMHNO3_00083	50 mL	Nitric acid	50000000 ug/L
.MTTMHNO3_00083	03/16/18		Macron/Avantor, Lot 0000129810				Ag	1000 ug/mL
							Nitric acid	100 %
MTICP1_00051	12/09/16	03/28/16	DIWATER, Lot DI WATER	1000 mL	MTICPSPIKE1A_00010	50 mL	Al	100000 ug/L
							As	100000 ug/L
							B	50000 ug/L
							Ba	100000 ug/L
							Be	2500 ug/L
							Cd	2500 ug/L
							Co	25000 ug/L
							Cr	10000 ug/L
							Cu	12500 ug/L
							Iron	50000 ug/L
							Manganese	25000 ug/L
							Ni	25000 ug/L
							Pb	25000 ug/L
							Se	100000 ug/L
							Tl	100000 ug/L
							V	25000 ug/L
							Zn	25000 ug/L
					MTICPSPIKEB_00009	50 mL	Mo	50000 ug/L
							Sb	25000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00006	50 mL	Li	50000 ug/L
							Si	50000 ug/L
							SiO2	107000 ug/L
							Sr	50000 ug/L
					MTTMHNO3_00083	50 mL	Nitric acid	50000000 ug/L
.MTICPSPIKE1A_00010	12/09/16		High Purity Standards, Lot 1534135				Al	2000 ug/mL
							As	2000 ug/mL
							B	1000 ug/mL
							Ba	2000 ug/mL
							Be	50 ug/mL
							Cd	50 ug/mL
							Co	500 ug/mL
							Cr	200 ug/mL
							Cu	250 ug/mL
							Iron	1000 ug/mL
							Manganese	500 ug/mL
							Ni	500 ug/mL
							Pb	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Se	2000 ug/mL
							Tl	2000 ug/mL
							V	500 ug/mL
							Zn	500 ug/mL
.MTICPSPIKEB_00009	12/09/16		High Purity Standards, Lot 1534137			(Purchased Reagent)	Mo	1000 ug/mL
							Sb	500 ug/mL
							Sn	2000 ug/mL
							Ti	1000 ug/mL
.MTICPSpikeOdd_00006	12/09/16		High Purity Standards, Lot 1534138			(Purchased Reagent)	Li	1000 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sr	1000 ug/mL
.MTTMHNO3_00083	03/16/18		Macron/Avantor, Lot 0000129810			(Purchased Reagent)	Nitric acid	100 %
MTICP2A_00059	10/19/16	03/28/16	DIWATER, Lot DIWATER	1000 mL	MTTMHNO3_00083	50 mL	Nitric acid	50000 mg/L
					MTTRCAL2_00013	250 mL	Ca	2500 mg/L
							K	2500 mg/L
							Mg	2500 mg/L
							Na	2500 mg/L
.MTTMHNO3_00083	03/16/18		Macron/Avantor, Lot 0000129810			(Purchased Reagent)	Nitric acid	100 %
.MTTRCAL2_00013	10/19/16		HIGH PURITY STANDARDS, Lot 1506106			(Purchased Reagent)	Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
MTICPCCV_00071	10/29/16	04/29/16	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00012	200 mL	Iron	25000 ug/L
							Manganese	2000 ug/L
.MTICPCCV1_00012	01/01/17		INORGANIC VENTURES, Lot J2-MEB612087			(Purchased Reagent)	Iron	250000 ug/L
							Manganese	20000 ug/L
MTICPCCV_00072	11/13/16	05/13/16	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00013	200 mL	Iron	25000 ug/L
							Manganese	2000 ug/L
.MTICPCCV1_00013	04/21/19		INORGANIC VENTURES, Lot K2-MEB632080			(Purchased Reagent)	Iron	250000 ug/L
							Manganese	20000 ug/L
MTICPICSABW_00010	06/02/16	12/02/15	DIWATER, Lot DIWATER	1000 mL	MTICPICSAB1_00004	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
							Cd	1000 ug/L
							Co	500 ug/L
							Cr	500 ug/L
							Cu	500 ug/L
							Iron	200000 ug/L
							K	10000 ug/L
							Li	500 ug/L
							Manganese	500 ug/L
							Mg	500000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Na	10000 ug/L
							Ni	1000 ug/L
							Pb	1000 ug/L
							Se	1000 ug/L
							Sr	1500 ug/L
							Tl	1000 ug/L
							V	500 ug/L
							Zn	1000 ug/L
					MTICPICSAB2_00004	100 mL	Ag	1000 ug/L
							Mo	1000 ug/L
							Sb	1000 ug/L
							Si	10000 ug/L
							Sn	500 ug/L
							Ti	500 ug/L
.MTICPICSAB1_00004	07/01/16		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
							Cd	10000 ug/L
							Co	5000 ug/L
							Cr	5000 ug/L
							Cu	5000 ug/L
							Iron	2000000 ug/L
							K	100000 ug/L
							Li	5000 ug/L
							Manganese	5000 ug/L
							Mg	5000000 ug/L
							Na	100000 ug/L
							Ni	10000 ug/L
							Pb	10000 ug/L
							Se	10000 ug/L
							Sr	15000 ug/L
							Tl	10000 ug/L
							V	5000 ug/L
							Zn	10000 ug/L
.MTICPICSAB2_00004	07/01/16		INORGANIC VENTURES, Lot H2-MEB546051			(Purchased Reagent)	Ag	10000 ug/L
							Mo	10000 ug/L
							Sb	10000 ug/L
							Si	100000 ug/L
							Sn	5000 ug/L
							Ti	5000 ug/L
MTTMHCL_00109	04/29/18		Fisher, Lot 4115120			(Purchased Reagent)	Hydrogen Chloride	100 %
MTTMHCL_00110	05/10/18		Fisher, Lot 4115120			(Purchased Reagent)	Hydrogen Chloride	100 %
MTTMHNO3_00086	05/03/18		Macron/Avantor, Lot 0000129810			(Purchased Reagent)	Nitric acid	100 %

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MTTRCRIC_00035	10/01/16	04/26/16	DIWATER, Lot DIWATER	500 mL	MTTRCRI6010C_00012	25 mL	Iron	200 ug/L
.MTTRCRI6010C_00012	10/01/16	Inorganic Ventures, Lot H2-MEB552050			(Purchased Reagent)		Manganese	15 ug/L
							Iron	4000 ug/L
							Manganese	300 ug/L
MTTRICSAW_00030	09/04/16	03/04/16	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00014	100 mL	Al	500000 ug/L
							Ca	500000 ug/L
							Iron	200000 ug/L
							Mg	500000 ug/L
.MTTRICSA_00014	04/02/18	INORGANIC VENTURES, Lot J2-MEB572053			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Iron	2000 ug/mL
							Mg	5000 ug/mL
SAICALSURR_00009	07/14/16	Matheson Trigas, Lot 109-46-10609			(Purchased Reagent)		1,1,1-Trifluoroethane	172158 ug/L
SARSK2NDSRCE_00010	10/13/18	Air Liquide-Scott Specialty gases, Lot 403-120156			(Purchased Reagent)		Ethane	12338 ug/L
							Ethene	11518 ug/L
							Methane	6558 ug/L
SARSKHIGHCALP_00007	09/18/17	Matheson Trigas, Lot 109-56-13135			(Purchased Reagent)		Acetylene	10657 ug/L
							Ethane	12338 ug/L
							Ethene	11518 ug/L
							Methane	6558 ug/L
							Propane	18077 ug/L
SARSKLOWCAL_00008	09/18/17	MATHESON TRI-GAS INC., Lot 109-56-13136			(Purchased Reagent)		Acetylene	1066 ug/L
							Ethane	1234 ug/L
							Ethene	1152 ug/L
							Methane	656 ug/L
							Propane	1808 ug/L
SARSKSURR_00009	11/19/16	Matheson Trigas, Lot 9302603973			(Purchased Reagent)		1,1,1-Trifluoroethane	11190 ug/L
VM50IS_00053	05/24/16	11/24/15	MEOH, Lot 118655	100 mL	vm30241_00002	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00002	11/30/19	restek, Lot A0107133			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00238	04/19/16	04/12/16	MEOH, Lot na	2 mL	vm50ss_stk_00068	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_00068	06/21/16	12/21/15	MEOH, Lot 0000118655	200 mL	VM567650_00023	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_00023	06/30/19	Restek, Lot A0104073			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00239	04/26/16	04/19/16	MEOH, Lot na	2 mL	vm50ss_stk_00068	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_00068	06/21/16	12/21/15	MEOH, Lot 0000118655	200 mL	VM567650_00023	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_00023	06/30/19		Restek, Lot A0104073		(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_00068	06/21/16	12/21/15	MEOH, Lot 0000118655	200 mL	VM567650_00023	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_00023	06/30/19		Restek, Lot A0104073		(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_00069	10/18/16	04/19/16	MEOH, Lot 0000118655	200 mL	VM567650_00023	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_00023	06/30/19		Restek, Lot A0104073		(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_00145	04/25/16	04/18/16	MEOH, Lot na	3 mL	VMACROLSTD_00035	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00035	04/30/16	03/30/16	MEOH, Lot 0000118655	20 mL	VM568720_00011	250 uL	Acrolein	250 ug/mL
..VM568720_00011	04/30/16		restek, Lot A0115761		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00150	04/19/16	04/12/16	MEOH, Lot NA	2 mL	VMFASG_00041	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_00041	04/28/16	03/28/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASGW_00151	04/27/16	04/20/16	MEOH, Lot NA	2 mL	VMFASG_00041	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_00041	04/28/16	03/28/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063			(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
VMFASGW_00154	05/13/16	05/06/16	MEOH, Lot NA	2 mL	VMFASG_00044	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_00044	05/28/16	04/28/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063			(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
VMFASGW_00155	05/18/16	05/11/16	MEOH, Lot NA	2 mL	VMFASG_00044	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_00044	05/28/16	04/28/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 mL	Bromomethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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
							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
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASGW_00156	05/24/16	05/17/16	MEOH, Lot NA	2 mL	VMFASG_00044	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_00044	05/28/16	04/28/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063			(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
VMFASPW_00149	04/19/16	04/12/16	MEOH, Lot n/a	2 mL	VMRFASP_00027	2 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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
							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
							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
							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
							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
.VMRFASP_00027	04/30/16	04/05/16	MEOH, Lot 0000118655	50 mL	VM569720S_00001	1 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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.: 240-64548-1

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	
							Dichlorobromomethane	50 ug/mL	
							Ethylbenzene	50 ug/mL	
							Ethylene Dibromide	50 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	
							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	
							Xylenes, Total	100 ug/mL	
..VM569721S_00001			Restek, Lot A0108163		VM569721S_00001	0.4 mL	2-Butanone (MEK)	100 ug/mL	
							2-Hexanone	100 ug/mL	
							4-Methyl-2-pentanone (MIBK)	100 ug/mL	
							Acetone	100 ug/mL	
..VM569720S_00001	01/31/17		Restek, Lot A0108163				(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL	
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL	
							1,1,2-Trichloroethane	2500 ug/mL	
							1,1-Dichloroethane	2500 ug/mL	
							1,1-Dichloroethene	2500 ug/mL	
							1,2,4-Trichlorobenzene	2500 ug/mL	
							1,2-Dibromo-3-Chloropropane	2500 ug/mL	
							1,2-Dichlorobenzene	2500 ug/mL	
							1,2-Dichloroethane	2500 ug/mL	
							1,2-Dichloropropane	2500 ug/mL	
							1,3-Dichlorobenzene	2500 ug/mL	
							1,4-Dichlorobenzene	2500 ug/mL	
							Benzene	2500 ug/mL	
							Bromoform	2500 ug/mL	
							Carbon disulfide	2500 ug/mL	
							Carbon tetrachloride	2500 ug/mL	
							Chlorobenzene	2500 ug/mL	
							Chlorodibromomethane	2500 ug/mL	
							Chloroform	2500 ug/mL	
							cis-1,2-Dichloroethene	2500 ug/mL	
							cis-1,3-Dichloropropene	2500 ug/mL	
							Cyclohexane	2500 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..VM569721S_00001	01/31/18		Restek, Lot A0108157		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMFASPW_00150	04/27/16	04/20/16	MEOH, Lot n/a	2 mL	VMRFASP_00027	2 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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
							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
							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
.VMRFASP_00027	04/30/16	04/05/16	MEOH, Lot 0000118655	50 mL	VM569720S_00001	1 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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	50 ug/mL		
							Methylcyclohexane	50 ug/mL		
							Methylene Chloride	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		
							Xylenes, Total	100 ug/mL		
							VM569721S_00001	0.4 mL	2-Butanone (MEK)	100 ug/mL
									2-Hexanone	100 ug/mL
									4-Methyl-2-pentanone (MIBK)	100 ug/mL
		Acetone	100 ug/mL							
..VM569720S_00001	01/31/17	Restek, Lot A0108163	(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL					
				1,1,2,2-Tetrachloroethane	2500 ug/mL					
				1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL					
				1,1,2-Trichloroethane	2500 ug/mL					
				1,1-Dichloroethane	2500 ug/mL					
				1,1-Dichloroethene	2500 ug/mL					
				1,2,4-Trichlorobenzene	2500 ug/mL					
				1,2-Dibromo-3-Chloropropane	2500 ug/mL					
				1,2-Dichlorobenzene	2500 ug/mL					
				1,2-Dichloroethane	2500 ug/mL					
				1,2-Dichloropropane	2500 ug/mL					
				1,3-Dichlorobenzene	2500 ug/mL					
				1,4-Dichlorobenzene	2500 ug/mL					
				Benzene	2500 ug/mL					
				Bromoform	2500 ug/mL					
				Carbon disulfide	2500 ug/mL					
				Carbon tetrachloride	2500 ug/mL					
				Chlorobenzene	2500 ug/mL					
				Chlorodibromomethane	2500 ug/mL					
				Chloroform	2500 ug/mL					
				cis-1,2-Dichloroethene	2500 ug/mL					
				cis-1,3-Dichloropropene	2500 ug/mL					
				Cyclohexane	2500 ug/mL					
				Dichlorobromomethane	2500 ug/mL					
				Ethylbenzene	2500 ug/mL					
				Ethylene Dibromide	2500 ug/mL					
				Isopropylbenzene	2500 ug/mL					
				m-Xylene & p-Xylene	2500 ug/mL					
				Methyl acetate	12500 ug/mL					
				Methyl tert-butyl ether	2500 ug/mL					
				Methylcyclohexane	2500 ug/mL					
				Methylene Chloride	2500 ug/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..VM569721S_00001	01/31/18		Restek, Lot A0108157			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMFASPW_00153	05/17/16	05/10/16	MEOH, Lot n/a	2 mL	VMRFASP_00029	2 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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
							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
.VMRFASP_00029	06/02/16	05/02/16	MEOH, Lot 0000118655	50 mL	VM569720S_00001	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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
					VM569721S_00001	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM569720S_00001	01/31/17		Restek, Lot A0108163			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..VM569721S_00001	01/31/18		Restek, Lot A0108157			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMFASPW_00154	05/25/16	05/18/16	MEOH, Lot n/a	2 mL	VMRFASP_00029	2 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMRFASP_00029	06/02/16	05/02/16	MEOH, Lot 0000118655	50 mL	VM569720S_00001	1 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
					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							
Xylenes, Total	100 ug/mL							
VM569721S_00001	0.4 mL	2-Butanone (MEK)	100 ug/mL					
		2-Hexanone	100 ug/mL					
		4-Methyl-2-pentanone (MIBK)	100 ug/mL					
		Acetone	100 ug/mL					
.VM569720S_00001	01/31/17	Restek, Lot A0108163			(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
o-Xylene	2500 ug/mL							
Styrene	2500 ug/mL							
Tetrachloroethene	2500 ug/mL							
Toluene	2500 ug/mL							
trans-1,2-Dichloroethene	2500 ug/mL							
trans-1,3-Dichloropropene	2500 ug/mL							
Trichloroethene	2500 ug/mL							
Xylenes, Total	5000 ug/mL							
..VM569721S_00001	01/31/18		Restek, Lot A0108157		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMGAS_00148	04/22/16	04/15/16	MEOH, Lot 0000118655	10 mL	vm569722_00004	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
.vm569722_00004	04/30/18		Restek, Lot A0110070			(Purchased Reagent)	Dichlorofluoromethane	50 ug/mL							
							Trichlorofluoromethane	50 ug/mL							
							Vinyl chloride	50 ug/mL							
							Bromomethane	2500 ug/mL							
							Butadiene	2500 ug/mL							
							Chloroethane	2500 ug/mL							
							Chloromethane	2500 ug/mL							
							Dichlorodifluoromethane	2500 ug/mL							
							Trichlorofluoromethane	2500 ug/mL							
VMRGAS_00151	05/16/16	05/09/16	MEOH, Lot 0000118655	10 mL	vm569722_00004	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_00004	04/30/18		Restek, Lot A0110070			(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														
VMRGAS_00153	05/24/16	05/17/16	MEOH, Lot 0000127999	10 mL	vm569722_00004	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_00004	04/30/18		Restek, Lot A0110070			(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_00181	04/22/16	04/15/16	MEOH, Lot NA	1 mL	VMRPRIM_00015	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							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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-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
							2-Methyl-2-propanol	500 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
							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-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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
							sec-Butylbenzene	50 ug/mL
							Styrene	50 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	50 ug/mL
.VMRPRIM_00015	06/30/16	01/30/16	MEOH, Lot 0000118655	50 mL	VM569720_00001	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
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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
							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-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-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
					VM569721_00001	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00001	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00004	0.5 mL	Vinyl acetate	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VM569720_00001	01/31/17		Restek, Lot A0108166			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..VM569721_00001	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00001	01/31/18		restek, Lot A0108172		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00004	06/30/16		Restek, Lot A0115764		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VMRPRIMW_00184	05/13/16	05/06/16	MEOH, Lot NA	1 mL	VMRPRIM_00015	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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
							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
							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
							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
							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
.VMRPRIM_00015	06/30/16	01/30/16	MEOH, Lot 0000118655	50 mL	VM569720_00001	1 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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.: 240-64548-1

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	
							Dichlorobromomethane	50 ug/mL	
							Ethylbenzene	50 ug/mL	
							Ethylene Dibromide	50 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	
							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	
							Xylenes, Total	100 ug/mL	
..VM569721_00001					VM569721_00001	0.4 mL	2-Butanone (MEK)	100 ug/mL	
							2-Hexanone	100 ug/mL	
							4-Methyl-2-pentanone (MIBK)	100 ug/mL	
							Acetone	100 ug/mL	
..VM569720_00001	01/31/17		Restek, Lot A0108166				(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL	
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL	
							1,1,2-Trichloroethane	2500 ug/mL	
							1,1-Dichloroethane	2500 ug/mL	
							1,1-Dichloroethene	2500 ug/mL	
							1,2,4-Trichlorobenzene	2500 ug/mL	
							1,2-Dibromo-3-Chloropropane	2500 ug/mL	
							1,2-Dichlorobenzene	2500 ug/mL	
							1,2-Dichloroethane	2500 ug/mL	
							1,2-Dichloropropane	2500 ug/mL	
							1,3-Dichlorobenzene	2500 ug/mL	
							1,4-Dichlorobenzene	2500 ug/mL	
							Benzene	2500 ug/mL	
							Bromoform	2500 ug/mL	
							Carbon disulfide	2500 ug/mL	
							Carbon tetrachloride	2500 ug/mL	
							Chlorobenzene	2500 ug/mL	
							Chlorodibromomethane	2500 ug/mL	
							Chloroform	2500 ug/mL	
							cis-1,2-Dichloroethene	2500 ug/mL	
							cis-1,3-Dichloropropene	2500 ug/mL	
							Cyclohexane	2500 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..VM569721_00001	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMRPRIMW_00185	05/21/16	05/14/16	MEOH, Lot NA	1 mL	VMRPRIM_00015	1 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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
							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
							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
.VMRPRIM_00015	06/30/16	01/30/16	MEOH, Lot 0000118655	50 mL	VM569720_00001	1 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	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
							Xylenes, Total	100 ug/mL
					VM569721_00001	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM569720_00001	01/31/17		Restek, Lot A0108166			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..VM569721_00001	04/30/18		Restek, Lot A0110400			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
WC LCS_00045	11/04/16	05/04/16	DIWATER, Lot 222	1 L	WCWIBBYDEMAND_00008	1000 mL	TOC Result 1	14.4 mg/L
							Total Organic Carbon	14.4 mg/L
.WCWIBBYDEMAND_00008	11/30/18		Phenova, Lot 8162-07			(Purchased Reagent)	TOC Result 1	14.4 mL
							Total Organic Carbon	14.4 mL
WC LCS_00046	11/04/16	05/04/16	DIWATER, Lot 222	1 L	WCWIBBYDEMAND_00008	1000 mL	TOC Result 1	14.4 mg/L
							Total Organic Carbon	14.4 mg/L
.WCWIBBYDEMAND_00008	11/30/18		Phenova, Lot 8162-07			(Purchased Reagent)	TOC Result 1	14.4 mL
							Total Organic Carbon	14.4 mL
WC TOC CCV_00299	05/18/16	05/11/16	DIWATER, Lot 2222	250 mL	WCCARBON1000_00027	6.25 mL	TOC Result 1	25 mg/L
							Total Organic Carbon	25 mg/L
.WCCARBON1000_00027	11/02/17		Absolute Standards, Lot 110215			(Purchased Reagent)	TOC Result 1	1000 mg/L
							Total Organic Carbon	1000 mg/L
WC TOC CCV_00302	05/28/16	05/21/16	DIWATER, Lot 2222	250 mL	WCCARBON1000_00028	6.25 mL	TOC Result 1	25 mg/L
							Total Organic Carbon	25 mg/L
.WCCARBON1000_00028	05/03/18		Absolute Standards, Lot 041916			(Purchased Reagent)	TOC Result 1	1000 mg/L
							Total Organic Carbon	1000 mg/L
WC TOC CCVL_00093	05/17/16	05/10/16	DIWATER, Lot xxx	250 mL	WCCARBON1000_00027	1.25 mL	TOC Result 1	5 mg/L
							Total Organic Carbon	5 mg/L
.WCCARBON1000_00027	11/02/17		Absolute Standards, Lot 110215			(Purchased Reagent)	TOC Result 1	1000 mg/L
							Total Organic Carbon	1000 mg/L
WC TOC CCVL_00095	05/28/16	05/21/16	DIWATER, Lot xxx	250 mL	WCCARBON1000_00028	1.25 mL	TOC Result 1	5 mg/L
							Total Organic Carbon	5 mg/L
.WCCARBON1000_00028	05/03/18		Absolute Standards, Lot 041916			(Purchased Reagent)	TOC Result 1	1000 mg/L
							Total Organic Carbon	1000 mg/L
WCALKMSMSD_00016	10/31/18		HACH, Lot A5295			(Purchased Reagent)	Alkalinity	25000 mg/L
WCICCSOLN_00249	04/10/16	03/10/16	ELUENT, Lot 2372329	20 mL	WCICSOLNA1_00014	1.6 mL	Bromide	40 mg/L
							Chloride	200 mg/L
							Fluoride	10 mg/L
							Nitrate as N	10 mg/L
							Sulfate	200 mg/L
					WCICSOLNB1_00012	1.6 mL	Nitrite as N	10 mg/L
.WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142			(Purchased Reagent)	Bromide	500 ug/mL
							Chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoride	125 ug/mL
							Nitrate as N	125 ug/mL
							Sulfate	2500 ug/mL
.WCICSOLNB1_00012	10/01/16		Inorganic Ventures, Lot J2-MEB594141			(Purchased Reagent)	Nitrite as N	125 ug/mL
WCICCALSO LN_00256	05/06/16	04/29/16	ELUENT, Lot 1847588	20 mL	WCICSOLNA1_00014	1.6 mL	Bromide	40 mg/L
							Chloride	200 mg/L
							Fluoride	10 mg/L
							Sulfate	200 mg/L
.WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142			(Purchased Reagent)	Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Sulfate	2500 ug/mL
WCICCCV_00676	05/13/16	05/06/16	ELUENT, Lot 2490810	100 mL	WCICSOLNA1_00014	2 mL	Chloride	50 mg/L
							Nitrate as N	2.5 mg/L
							Sulfate	50 mg/L
					WCICSOLNB1_00012	2 mL	Nitrite as N	2.5 mg/L
.WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142			(Purchased Reagent)	Chloride	2500 ug/mL
							Nitrate as N	125 ug/mL
							Sulfate	2500 ug/mL
.WCICSOLNB1_00012	10/01/16		Inorganic Ventures, Lot J2-MEB594141			(Purchased Reagent)	Nitrite as N	125 ug/mL
WCICCCV_00677	05/16/16	05/09/16	ELUENT, Lot 2490810	100 mL	WCICSOLNA1_00014	2 mL	Sulfate	50 mg/L
.WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142			(Purchased Reagent)	Sulfate	2500 ug/mL
WCICCCV_00678	05/18/16	05/11/16	ELUENT, Lot 2490810	100 mL	WCICSOLNA1_00014	2 mL	Chloride	50 mg/L
							Sulfate	50 mg/L
.WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142			(Purchased Reagent)	Chloride	2500 ug/mL
							Sulfate	2500 ug/mL
WCICLCS_00497	03/17/16	03/10/16	ELUENT, Lot 2372329	100 mL	WCICSOLNA2_00015	10 mL	Chloride	50 mg/L
							Nitrate as N	2.5 mg/L
							Sulfate	50 mg/L
					WCICSOLNB2_00014	10 mL	Nitrite as N	2.5 mg/L
.WCICSOLNA2_00015	08/27/16		High Purity Standards, Lot 1523752			(Purchased Reagent)	Chloride	500 ug/mL
							Nitrate as N	25 ug/mL
							Sulfate	500 ug/mL
.WCICSOLNB2_00014	08/27/16		High Purity Standards, Lot 1523753			(Purchased Reagent)	Nitrite as N	25 ug/mL
WCICLCS_00518	05/06/16	04/29/16	ELUENT, Lot 2438553	100 mL	WCICSOLNA2_00016	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831			(Purchased Reagent)	Sulfate	500 ug/mL
WCICLCS_00519	05/13/16	05/06/16	MOHMWATER, Lot 032916	100 mL	WCICSOLNA2_00016	10 mL	Chloride	50 mg/L
							Nitrate as N	2.5 mg/L
							Sulfate	50 mg/L
					WCICSOLNB2_00015	10 mL	Nitrite as N	2.5 mg/L
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831			(Purchased Reagent)	Chloride	500 ug/mL
							Nitrate as N	25 ug/mL
							Sulfate	500 ug/mL
.WCICSOLNB2_00015	03/23/17		High Purity Standards, Lot 1607832			(Purchased Reagent)	Nitrite as N	25 ug/mL
WCICLCS_00520	05/13/16	05/06/16	ELUENT, Lot 2438553	100 mL	WCICSOLNA2_00016	10 mL	Sulfate	50 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831			(Purchased Reagent)	Sulfate	500 ug/mL
WCICLCS 00523	05/21/16	05/14/16	MOHMWATER, Lot 032916	100 mL	WCICSOLNA2_00016	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831			(Purchased Reagent)	Sulfate	500 ug/mL
WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142			(Purchased Reagent)	Chloride	2500 ug/mL
							Nitrate as N	125 ug/mL
							Sulfate	2500 ug/mL
WCICSOLNB1_00012	10/01/16		Inorganic Ventures, Lot J2-MEB594141			(Purchased Reagent)	Nitrite as N	125 ug/mL
WCPHENOMINER 00015	05/31/18		PHENOVA-WIBBY, Lot 8156-08			(Purchased Reagent)	Alkalinity	368 mg/L
WCPHENOVOLID 00015	09/30/18		PHENOVA- WIBBY, Lot 8160-09			(Purchased Reagent)	Total Dissolved Solids	577 mg/L
WCPHos 1ppm 00012	06/02/16	05/02/16	DIWATER, Lot DI	500 mL	WCPHOSPHATE_00006	0.5 mL	Orthophosphate as P	1 mg/L
.WCPHOSPHATE_00006	07/18/16		LABCHEM, Lot D198-09			(Purchased Reagent)	Orthophosphate as P	1000 mg/L
WCPHOS50PPM 00077	06/02/16	05/02/16	DIWATER, Lot 2222	100 mL	WCPHOSPHATE_00006	5 mL	Orthophosphate as P	50 mg/L
.WCPHOSPHATE_00006	07/18/16		LABCHEM, Lot D198-09			(Purchased Reagent)	Orthophosphate as P	1000 mg/L
WCWIBBYNUTRIE 00053	07/25/16		PHENOVA, Lot 8913-10			(Purchased Reagent)	Orthophosphate as P	1.84 mg/L

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

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-050616	240-64548-1	92	92	92	81
MRC-MW-14B-050616	240-64548-2	109	105	111	99
SWMW-1I-050616	240-64548-3	119	113	117	102
TB-050916	240-64615-1	92	90	91	81
MRC-MW-12A-050916	240-64615-2	91	90	89	79
MRC-MW-12B-050916	240-64615-3	108	110	109	95
G-SWMW-3I-050916	240-64615-4	91	88	90	78
TB-051016	240-64671-1	94	91	92	83
G-SWMW-4I-051016	240-64671-2	93	90	91	81
G-SWMW-4I-051016	240-64671-2	99	109	100	96
G-SWMW-4S-051016	240-64671-3	98	92	96	84
G-SWMW-5I-051016	240-64671-4	98	92	93	83
G-SWMW-2I-051016	240-64671-5	90	90	90	80
G-OUTFALL-051016	240-64671-7	89	88	86	77
	MB 240-230196/6	95	97	95	86
	MB 240-230444/6	94	91	94	83
	MB 240-230805/6	92	89	92	83
	MB 240-231016/31	96	106	100	95
	LCS 240-230196/4	99	96	103	96
	LCS 240-230444/4	90	87	93	86
	LCS 240-230805/4	90	89	93	85
	LCS 240-231016/4	98	104	102	101
	240-64546-F-1 MS	89	89	93	87
	240-64676-E-5 MS	89	90	92	84
	240-64717-B-2 MS	98	102	99	101
	240-64546-E-1 MSD	111	108	114	106
	240-64676-H-5 MSD	92	91	95	88
	240-64717-B-2 MSD	96	101	101	101

QC LIMITS

DBFM = Dibromofluoromethane (Surr)	79-120
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 III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXJ4603.D

Lab ID: LCS 240-230196/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	11.7	117	77-123	
1,1,2,2-Tetrachloroethane	10.0	9.23	92	71-123	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.2	112	67-138	
1,1,2-Trichloroethane	10.0	10.8	108	80-120	
1,1-Dichloroethane	10.0	11.0	110	79-125	
1,1-Dichloroethene	10.0	11.9	119	76-124	
1,2,4-Trichlorobenzene	10.0	9.93	99	61-120	
1,2-Dibromo-3-Chloropropane	10.0	9.50	95	50-132	
Ethylene Dibromide	10.0	11.0	110	80-120	
1,2-Dichlorobenzene	10.0	11.2	112	79-120	
1,2-Dichloroethane	10.0	10.9	109	80-120	
1,2-Dichloropropane	10.0	11.6	116	78-124	
1,3-Dichlorobenzene	10.0	11.1	111	79-120	
1,4-Dichlorobenzene	10.0	11.4	114	79-120	
2-Butanone (MEK)	20.0	19.4	97	56-138	
2-Hexanone	20.0	18.1	91	55-141	
4-Methyl-2-pentanone (MIBK)	20.0	19.7	99	64-135	
Acetone	20.0	20.1	101	34-148	
Benzene	10.0	11.4	114	80-120	
Dichlorobromomethane	10.0	11.2	112	80-120	
Bromoform	10.0	8.78	88	56-122	
Bromomethane	10.0	10.8	108	38-132	
Carbon disulfide	10.0	13.1	131	65-144	
Carbon tetrachloride	10.0	11.2	112	77-131	
Chlorobenzene	10.0	10.8	108	80-120	
Chloroethane	10.0	10.7	107	36-126	
Chloroform	10.0	11.5	115	80-120	
Chloromethane	10.0	10.6	106	48-133	
cis-1,2-Dichloroethene	10.0	11.6	116	79-120	
cis-1,3-Dichloropropene	10.0	11.2	112	74-126	
Cyclohexane	10.0	10.8	108	60-140	
Chlorodibromomethane	10.0	9.89	99	74-120	
Dichlorodifluoromethane	10.0	8.87	89	23-136	
Ethylbenzene	10.0	10.9	109	80-120	
Isopropylbenzene	10.0	10.8	108	77-120	
Methyl acetate	50.0	53.5	107	67-131	
Methyl tert-butyl ether	10.0	11.0	110	69-121	
Methylcyclohexane	10.0	10.2	102	61-134	
Methylene Chloride	10.0	12.5	125	77-129	
Styrene	10.0	10.6	106	76-122	
Tetrachloroethene	10.0	11.5	115	78-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXJ4603.D

Lab ID: LCS 240-230196/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	10.0	11.5	115	80-120	
trans-1,2-Dichloroethene	10.0	11.9	119	80-124	
trans-1,3-Dichloropropene	10.0	10.8	108	75-131	
Trichloroethene	10.0	11.5	115	80-121	
Trichlorofluoromethane	10.0	10.5	105	61-133	
Vinyl chloride	10.0	9.79	98	52-121	
Xylenes, Total	20.0	21.2	106	80-120	
m-Xylene & p-Xylene	10.0	10.7	107	80-120	
o-Xylene	10.0	10.5	105	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXJ4655.D

Lab ID: LCS 240-230444/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	10.0	100	77-123	
1,1,2,2-Tetrachloroethane	10.0	7.58	76	71-123	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.9	109	67-138	
1,1,2-Trichloroethane	10.0	9.73	97	80-120	
1,1-Dichloroethane	10.0	9.28	93	79-125	
1,1-Dichloroethene	10.0	10.3	103	76-124	
1,2,4-Trichlorobenzene	10.0	8.43	84	61-120	
1,2-Dibromo-3-Chloropropane	10.0	8.57	86	50-132	
Ethylene Dibromide	10.0	9.37	94	80-120	
1,2-Dichlorobenzene	10.0	9.42	94	79-120	
1,2-Dichloroethane	10.0	9.11	91	80-120	
1,2-Dichloropropane	10.0	9.62	96	78-124	
1,3-Dichlorobenzene	10.0	9.28	93	79-120	
1,4-Dichlorobenzene	10.0	9.49	95	79-120	
2-Butanone (MEK)	20.0	16.2	81	56-138	
2-Hexanone	20.0	15.4	77	55-141	
4-Methyl-2-pentanone (MIBK)	20.0	17.1	85	64-135	
Acetone	20.0	16.1	81	34-148	
Benzene	10.0	9.49	95	80-120	
Dichlorobromomethane	10.0	9.38	94	80-120	
Bromoform	10.0	7.93	79	56-122	
Bromomethane	10.0	9.65	96	38-132	
Carbon disulfide	10.0	10.7	107	65-144	
Carbon tetrachloride	10.0	9.99	100	77-131	
Chlorobenzene	10.0	9.07	91	80-120	
Chloroethane	10.0	9.98	100	36-126	
Chloroform	10.0	9.42	94	80-120	
Chloromethane	10.0	9.34	93	48-133	
cis-1,2-Dichloroethene	10.0	9.57	96	79-120	
cis-1,3-Dichloropropene	10.0	9.23	92	74-126	
Cyclohexane	10.0	10.0	100	60-140	
Chlorodibromomethane	10.0	8.55	85	74-120	
Dichlorodifluoromethane	10.0	10.5	105	23-136	
Ethylbenzene	10.0	9.54	95	80-120	
Isopropylbenzene	10.0	9.28	93	77-120	
Methyl acetate	50.0	46.0	92	67-131	
Methyl tert-butyl ether	10.0	9.40	94	69-121	
Methylcyclohexane	10.0	10.3	103	61-134	
Methylene Chloride	10.0	10.1	101	77-129	
Styrene	10.0	8.91	89	76-122	
Tetrachloroethene	10.0	10.1	101	78-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXJ4655.D
 Lab ID: LCS 240-230444/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	10.0	9.75	98	80-120	
trans-1,2-Dichloroethene	10.0	10.0	100	80-124	
trans-1,3-Dichloropropene	10.0	9.16	92	75-131	
Trichloroethene	10.0	9.86	99	80-121	
Trichlorofluoromethane	10.0	12.1	121	61-133	
Vinyl chloride	10.0	9.55	95	52-121	
Xylenes, Total	20.0	18.1	90	80-120	
m-Xylene & p-Xylene	10.0	9.08	91	80-120	
o-Xylene	10.0	8.98	90	80-120	

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.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXJ4743.D

Lab ID: LCS 240-230805/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	10.2	102	77-123	
1,1,2,2-Tetrachloroethane	10.0	8.27	83	71-123	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.1	101	67-138	
1,1,2-Trichloroethane	10.0	9.74	97	80-120	
1,1-Dichloroethane	10.0	10.0	100	79-125	
1,1-Dichloroethene	10.0	11.0	110	76-124	
1,2,4-Trichlorobenzene	10.0	9.43	94	61-120	
1,2-Dibromo-3-Chloropropane	10.0	8.03	80	50-132	
Ethylene Dibromide	10.0	9.74	97	80-120	
1,2-Dichlorobenzene	10.0	10.2	102	79-120	
1,2-Dichloroethane	10.0	9.66	97	80-120	
1,2-Dichloropropane	10.0	10.4	104	78-124	
1,3-Dichlorobenzene	10.0	10.1	101	79-120	
1,4-Dichlorobenzene	10.0	10.2	102	79-120	
2-Butanone (MEK)	20.0	16.6	83	56-138	
2-Hexanone	20.0	15.1	76	55-141	
4-Methyl-2-pentanone (MIBK)	20.0	17.2	86	64-135	
Acetone	20.0	17.2	86	34-148	
Benzene	10.0	10.3	103	80-120	
Dichlorobromomethane	10.0	9.71	97	80-120	
Bromoform	10.0	6.50	65	56-122	
Bromomethane	10.0	8.09	81	38-132	
Carbon disulfide	10.0	11.0	110	65-144	
Carbon tetrachloride	10.0	10.3	103	77-131	
Chlorobenzene	10.0	9.71	97	80-120	
Chloroethane	10.0	8.69	87	36-126	
Chloroform	10.0	10.4	104	80-120	
Chloromethane	10.0	9.86	99	48-133	
cis-1,2-Dichloroethene	10.0	10.5	105	79-120	
cis-1,3-Dichloropropene	10.0	9.76	98	74-126	
Cyclohexane	10.0	9.50	95	60-140	
Chlorodibromomethane	10.0	7.92	79	74-120	
Dichlorodifluoromethane	10.0	5.99	60	23-136	
Ethylbenzene	10.0	10.2	102	80-120	
Isopropylbenzene	10.0	9.72	97	77-120	
Methyl acetate	50.0	44.3	89	67-131	
Methyl tert-butyl ether	10.0	9.94	99	69-121	
Methylcyclohexane	10.0	9.11	91	61-134	
Methylene Chloride	10.0	11.3	113	77-129	
Styrene	10.0	9.82	98	76-122	
Tetrachloroethene	10.0	10.5	105	78-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXJ4743.D

Lab ID: LCS 240-230805/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	10.0	10.4	104	80-120	
trans-1,2-Dichloroethene	10.0	10.7	107	80-124	
trans-1,3-Dichloropropene	10.0	9.11	91	75-131	
Trichloroethene	10.0	10.6	106	80-121	
Trichlorofluoromethane	10.0	9.02	90	61-133	
Vinyl chloride	10.0	8.62	86	52-121	
Xylenes, Total	20.0	19.5	97	80-120	
m-Xylene & p-Xylene	10.0	10.0	100	80-120	
o-Xylene	10.0	9.47	95	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXC8039.D

Lab ID: LCS 240-231016/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	11.5	115	77-123	
1,1,2,2-Tetrachloroethane	10.0	9.75	98	71-123	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	13.2	132	67-138	
1,1,2-Trichloroethane	10.0	10.9	109	80-120	
1,1-Dichloroethane	10.0	12.3	123	79-125	
1,1-Dichloroethene	10.0	12.4	124	76-124	
1,2,4-Trichlorobenzene	10.0	10.8	108	61-120	
1,2-Dibromo-3-Chloropropane	10.0	6.46	65	50-132	
Ethylene Dibromide	10.0	10.6	106	80-120	
1,2-Dichlorobenzene	10.0	12.1	121	79-120	*
1,2-Dichloroethane	10.0	12.9	129	80-120	*
1,2-Dichloropropane	10.0	13.0	130	78-124	*
1,3-Dichlorobenzene	10.0	11.7	117	79-120	
1,4-Dichlorobenzene	10.0	12.0	120	79-120	
2-Butanone (MEK)	20.0	18.5	92	56-138	
2-Hexanone	20.0	17.1	86	55-141	
4-Methyl-2-pentanone (MIBK)	20.0	18.4	92	64-135	
Acetone	20.0	17.4	87	34-148	
Benzene	10.0	12.5	125	80-120	*
Dichlorobromomethane	10.0	11.3	113	80-120	
Bromoform	10.0	7.49	75	56-122	
Bromomethane	10.0	13.6	136	38-132	*
Carbon disulfide	10.0	13.4	134	65-144	
Carbon tetrachloride	10.0	11.0	110	77-131	
Chlorobenzene	10.0	11.8	118	80-120	
Chloroethane	10.0	11.9	119	36-126	
Chloroform	10.0	12.3	123	80-120	*
Chloromethane	10.0	10.3	103	48-133	
cis-1,2-Dichloroethene	10.0	12.0	120	79-120	
cis-1,3-Dichloropropene	10.0	9.71	97	74-126	
Cyclohexane	10.0	13.8	138	60-140	
Chlorodibromomethane	10.0	9.04	90	74-120	
Dichlorodifluoromethane	10.0	8.28	83	23-136	
Ethylbenzene	10.0	12.1	121	80-120	*
Isopropylbenzene	10.0	12.4	124	77-120	*
Methyl acetate	50.0	48.0	96	67-131	
Methyl tert-butyl ether	10.0	8.09	81	69-121	
Methylcyclohexane	10.0	13.2	132	61-134	
Methylene Chloride	10.0	12.4	124	77-129	
Styrene	10.0	12.0	120	76-122	
Tetrachloroethene	10.0	11.4	114	78-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXC8039.D

Lab ID: LCS 240-231016/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	10.0	12.2	122	80-120	*
trans-1,2-Dichloroethene	10.0	12.7	127	80-124	*
trans-1,3-Dichloropropene	10.0	7.62	76	75-131	
Trichloroethene	10.0	11.9	119	80-121	
Trichlorofluoromethane	10.0	21.6	216	61-133	*
Vinyl chloride	10.0	10.8	108	52-121	
Xylenes, Total	20.0	24.2	121	80-120	*
m-Xylene & p-Xylene	10.0	12.4	124	80-120	*
o-Xylene	10.0	11.8	118	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXJ4680.D

Lab ID: 240-64546-F-1 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	1.0 U	4.98	50	69-122	F1
1,1,2,2-Tetrachloroethane	10.0	1.0 U	4.79	48	61-130	F1
1,1,2-Trichloroethane	10.0	1.0 U	5.60	56	72-125	F1
1,1-Dichloroethane	10.0	1.0 U	5.16	52	73-124	F1
1,1-Dichloroethene	10.0	1.0 U	5.05	51	67-124	F1
1,2,4-Trichlorobenzene	10.0	1.0 U	4.47	45	48-120	F1
Ethylene Dibromide	10.0	1.0 U	5.54	55	69-125	F1
1,2-Dichlorobenzene	10.0	1.0 U	5.38	54	67-118	F1
1,2-Dichloroethane	10.0	1.0 U	5.71	57	74-125	F1
1,2-Dichloropropane	10.0	1.0 U	5.59	56	73-122	F1
1,3-Dichlorobenzene	10.0	1.0 U	5.29	53	65-120	F1
1,4-Dichlorobenzene	10.0	1.0 U	5.33	53	66-120	F1
Benzene	10.0	1.0 U	5.38	54	73-121	F1
Dichlorobromomethane	10.0	0.62 J	5.90	53	72-120	F1
Bromoform	10.0	1.0	4.72	37	45-121	F1
Bromomethane	10.0	1.0 U	2.75	27	26-136	
Carbon tetrachloride	10.0	1.0 U	4.58	46	65-129	F1
Chlorobenzene	10.0	1.0 U	5.27	53	72-120	F1
Chloroethane	10.0	1.0 U	3.55	36	27-131	
Chloroform	10.0	0.44 J	6.11	57	73-121	F1
Chloromethane	10.0	1.0 U	4.89	49	39-134	
cis-1,2-Dichloroethene	10.0	1.0 U	5.73	57	66-124	F1
cis-1,3-Dichloropropene	10.0	1.0 U	4.68	47	60-120	F1
Chlorodibromomethane	10.0	0.88 J	5.47	46	62-122	F1
Dichlorodifluoromethane	10.0	1.0 U	6.84	68	14-137	
Ethylbenzene	10.0	1.0 U	4.85	49	68-121	F1
Isopropylbenzene	10.0	1.0 U	4.58	46	61-122	F1
Methylene Chloride	10.0	1.0 U	5.05	51	70-124	F1
Styrene	10.0	1.0 U	4.81	48	64-126	F1
Tetrachloroethene	10.0	1.0 U	4.73	47	59-125	F1
Toluene	10.0	1.0 U	5.26	53	72-122	F1
trans-1,2-Dichloroethene	10.0	1.0 U	5.28	53	72-125	F1
trans-1,3-Dichloropropene	10.0	1.0 U	4.48	45	58-132	F1
Trichloroethene	10.0	1.0 U	5.29	53	61-129	F1
Trichlorofluoromethane	10.0	1.0 U	4.67	47	49-133	F1
Vinyl chloride	10.0	1.0 U	4.46	45	44-122	
Xylenes, Total	20.0	2.0 U	9.75	49	67-122	F1
m-Xylene & p-Xylene	10.0	2.0 U	4.82	48	66-123	F1
o-Xylene	10.0	1.0 U	4.93	49	68-121	F1

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXJ4769.D

Lab ID: 240-64676-E-5 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	1.0 U	9.92	99	69-122	
1,1,2,2-Tetrachloroethane	10.0	1.0 U	8.01	80	61-130	
1,1,2-Trichloroethane	10.0	1.0 U	9.54	95	72-125	
1,1-Dichloroethane	10.0	1.0 U	9.74	97	73-124	
1,1-Dichloroethene	10.0	1.0 U	10.5	105	67-124	
1,2-Dichloroethane	10.0	1.0 U	9.65	96	74-125	
1,2-Dichloropropane	10.0	1.0 U	10.2	102	73-122	
2-Butanone (MEK)	20.0	10 U	15.9	80	49-132	
2-Hexanone	20.0	10 U	18.4	92	49-142	
4-Methyl-2-pentanone (MIBK)	20.0	10 U	21.2	106	58-136	
Acetone	20.0	10 U	18.3	91	32-126	
Benzene	10.0	1.0 U	9.88	99	73-121	
Dichlorobromomethane	10.0	1.0 U	9.26	93	72-120	
Bromoform	10.0	1.0 U	4.95	50	45-121	
Bromomethane	10.0	1.0 U	8.05	81	26-136	
Carbon disulfide	10.0	1.0 U	10.1	101	54-144	
Carbon tetrachloride	10.0	1.0 U	9.42	94	65-129	
Chlorobenzene	10.0	1.0 U	9.22	92	72-120	
Chloroethane	10.0	1.0 U	9.02	90	27-131	
Chloroform	10.0	1.0 U	9.87	99	73-121	
Chloromethane	10.0	1.0 U	9.66	97	39-134	
cis-1,2-Dichloroethene	10.0	1.0 U	10.2	102	66-124	
cis-1,3-Dichloropropene	10.0	1.0 U	8.82	88	60-120	
Chlorodibromomethane	10.0	1.0 U	6.97	70	62-122	
Ethylbenzene	10.0	1.0 U	9.30	93	68-121	
Methylene Chloride	10.0	1.0 U	10.4	104	70-124	
Styrene	10.0	1.0 U	8.97	90	64-126	
Tetrachloroethene	10.0	1.0 U	9.47	95	59-125	
Toluene	10.0	1.0 U	9.70	97	72-122	
trans-1,2-Dichloroethene	10.0	1.0 U	10.3	103	72-125	
trans-1,3-Dichloropropene	10.0	1.0 U	7.98	80	58-132	
Trichloroethene	10.0	1.0 U	9.95	100	61-129	
Vinyl chloride	10.0	1.0 U	9.23	92	44-122	
Xylenes, Total	20.0	2.0 U	18.0	90	67-122	
m-Xylene & p-Xylene	10.0	2.0 U	9.13	91	66-123	
o-Xylene	10.0	1.0 U	8.90	89	68-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXC8064.D

Lab ID: 240-64717-B-2 MS

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	500 U	4110	82	69-122	
1,1,2,2-Tetrachloroethane	5000	500 U	4140	83	61-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	500 U	4530	91	44-140	
1,1-Dichloroethane	5000	500 U	5240	105	73-124	
1,1-Dichloroethene	5000	500 U	5090	102	67-124	
1,2,4-Trichlorobenzene	5000	500 U	4120	82	48-120	
1,2-Dibromo-3-Chloropropane	5000	1000 U	2090	42	42-130	
Ethylene Dibromide	5000	500 U	4020	80	69-125	
1,2-Dichlorobenzene	5000	500 U	4890	98	67-118	
1,2-Dichloroethane	5000	500 U	5290	106	74-125	
1,2-Dichloropropane	5000	500 U	5200	104	73-122	
1,3-Dichlorobenzene	5000	500 U	4730	95	65-120	
1,4-Dichlorobenzene	5000	500 U	4770	95	66-120	
2-Butanone (MEK)	10000	5000 U	7590	76	49-132	
2-Hexanone	10000	5000 U	6660	67	49-142	
4-Methyl-2-pentanone (MIBK)	10000	5000 U	7580	76	58-136	
Acetone	10000	5000 U	7280	73	32-126	
Benzene	5000	500 U	5060	101	73-121	
Dichlorobromomethane	5000	500 U	4190	84	72-120	
Bromoform	5000	500 U	2430	49	45-121	
Bromomethane	5000	500 U	6210	124	26-136	
Carbon disulfide	5000	500 U	5340	107	54-144	
Carbon tetrachloride	5000	500 U	3280	66	65-129	
Chlorobenzene	5000	500 U	4880	98	72-120	
Chloroethane	5000	500 U	5940	119	27-131	
Chloroform	5000	500 U	5210	104	73-121	
Chloromethane	5000	500 U	5270	105	39-134	
cis-1,2-Dichloroethene	5000	12000	17000	97	66-124	
cis-1,3-Dichloropropene	5000	500 U	3110	62	60-120	
Chlorodibromomethane	5000	500 U	3120	62	62-122	
Dichlorodifluoromethane	5000	500 U	3690	74	14-137	
Ethylbenzene	5000	500 U	4790	96	68-121	
Isopropylbenzene	5000	500 U	4760	95	61-122	
Methyl tert-butyl ether	5000	500 U	3260	65	61-121	
Methylene Chloride	5000	500 U	5630	113	70-124	
Styrene	5000	500 U	4960	99	64-126	
Tetrachloroethene	5000	500 U	4190	84	59-125	
Toluene	5000	500 U	4830	97	72-122	
trans-1,2-Dichloroethene	5000	500 U	5470	109	72-125	
trans-1,3-Dichloropropene	5000	500 U	2270	45	58-132	F1
Trichloroethene	5000	1600	6090	90	61-129	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXC8064.D
 Lab ID: 240-64717-B-2 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Trichlorofluoromethane	5000	500 U	10300	206	49-133	F1
Vinyl chloride	5000	2600	7800	105	44-122	
Xylenes, Total	10000	1000 U	9730	97	67-122	
m-Xylene & p-Xylene	5000	1000 U	4970	99	66-123	
o-Xylene	5000	500 U	4760	95	68-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXJ4681.D

Lab ID: 240-64546-E-1 MSD

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	10.0	11.4	114	78	14	69-122	F2
1,1,2,2-Tetrachloroethane	10.0	9.00	90	61	18	61-130	F2
1,1,2-Trichloroethane	10.0	10.9	109	64	19	72-125	F2
1,1-Dichloroethane	10.0	10.8	108	71	14	73-124	F2
1,1-Dichloroethene	10.0	11.4	114	78	24	67-124	F2
1,2,4-Trichlorobenzene	10.0	9.44	94	72	28	48-120	F2
Ethylene Dibromide	10.0	10.6	106	63	24	69-125	F2
1,2-Dichlorobenzene	10.0	10.7	107	66	15	67-118	F2
1,2-Dichloroethane	10.0	11.0	110	63	24	74-125	F2
1,2-Dichloropropane	10.0	11.2	112	67	15	73-122	F2
1,3-Dichlorobenzene	10.0	10.4	104	66	15	65-120	F2
1,4-Dichlorobenzene	10.0	10.4	104	65	16	66-120	F2
Benzene	10.0	11.0	110	68	13	73-121	F2
Dichlorobromomethane	10.0	11.3	106	62	19	72-120	F2
Bromoform	10.0	8.59	76	58	19	45-121	F2
Bromomethane	10.0	9.74	97	112	35	26-136	F2
Carbon tetrachloride	10.0	11.4	114	85	20	65-129	F2
Chlorobenzene	10.0	10.5	105	66	15	72-120	F2
Chloroethane	10.0	10.6	106	99	35	27-131	F2
Chloroform	10.0	11.3	109	60	17	73-121	F2
Chloromethane	10.0	11.9	119	83	20	39-134	F2
cis-1,2-Dichloroethene	10.0	10.9	109	62	22	66-124	F2
cis-1,3-Dichloropropene	10.0	10.1	101	73	21	60-120	F2
Chlorodibromomethane	10.0	9.98	91	58	19	62-122	F2
Dichlorodifluoromethane	10.0	12.8	128	61	34	14-137	F2
Ethylbenzene	10.0	10.5	105	74	16	68-121	F2
Isopropylbenzene	10.0	9.96	100	74	20	61-122	F2
Methylene Chloride	10.0	11.0	110	74	14	70-124	F2
Styrene	10.0	10.2	102	72	15	64-126	F2
Tetrachloroethene	10.0	10.9	109	79	20	59-125	F2
Toluene	10.0	11.1	111	72	15	72-122	F2
trans-1,2-Dichloroethene	10.0	11.2	112	72	25	72-125	F2
trans-1,3-Dichloropropene	10.0	9.60	96	73	22	58-132	F2
Trichloroethene	10.0	11.3	113	72	14	61-129	F2
Trichlorofluoromethane	10.0	12.3	123	90	25	49-133	F2
Vinyl chloride	10.0	11.2	112	86	35	44-122	F2
Xylenes, Total	20.0	20.8	104	72	14	67-122	F2
m-Xylene & p-Xylene	10.0	10.5	105	74	15	66-123	F2
o-Xylene	10.0	10.3	103	70	14	68-121	F2

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXJ4770.D

Lab ID: 240-64676-H-5 MSD

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	10.0	10.1	101	1	14	69-122	
1,1,2,2-Tetrachloroethane	10.0	8.13	81	2	18	61-130	
1,1,2-Trichloroethane	10.0	10.0	100	5	19	72-125	
1,1-Dichloroethane	10.0	10.4	104	7	14	73-124	
1,1-Dichloroethene	10.0	11.0	110	4	24	67-124	
1,2-Dichloroethane	10.0	10.0	100	4	24	74-125	
1,2-Dichloropropane	10.0	10.3	103	1	15	73-122	
2-Butanone (MEK)	20.0	16.6	83	4	19	49-132	
2-Hexanone	20.0	19.3	97	5	27	49-142	
4-Methyl-2-pentanone (MIBK)	20.0	21.2	106	0	32	58-136	
Acetone	20.0	21.8	109	18	28	32-126	
Benzene	10.0	10.1	101	2	13	73-121	
Dichlorobromomethane	10.0	9.31	93	1	19	72-120	
Bromoform	10.0	5.25	53	6	19	45-121	
Bromomethane	10.0	8.69	87	8	35	26-136	
Carbon disulfide	10.0	10.6	106	5	34	54-144	
Carbon tetrachloride	10.0	9.93	99	5	20	65-129	
Chlorobenzene	10.0	9.71	97	5	15	72-120	
Chloroethane	10.0	9.71	97	7	35	27-131	
Chloroform	10.0	10.2	102	4	17	73-121	
Chloromethane	10.0	9.69	97	0	20	39-134	
cis-1,2-Dichloroethene	10.0	10.2	102	1	22	66-124	
cis-1,3-Dichloropropene	10.0	8.76	88	1	21	60-120	
Chlorodibromomethane	10.0	6.91	69	1	19	62-122	
Ethylbenzene	10.0	9.78	98	5	16	68-121	
Methylene Chloride	10.0	11.4	114	9	14	70-124	
Styrene	10.0	9.57	96	6	15	64-126	
Tetrachloroethene	10.0	10.0	100	6	20	59-125	
Toluene	10.0	10.2	102	5	15	72-122	
trans-1,2-Dichloroethene	10.0	11.2	112	9	25	72-125	
trans-1,3-Dichloropropene	10.0	7.96	80	0	22	58-132	
Trichloroethene	10.0	10.4	104	5	14	61-129	
Vinyl chloride	10.0	9.20	92	0	35	44-122	
Xylenes, Total	20.0	18.9	95	5	14	67-122	
m-Xylene & p-Xylene	10.0	9.57	96	5	15	66-123	
o-Xylene	10.0	9.34	93	5	14	68-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXC8065.D

Lab ID: 240-64717-B-2 MSD

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	5000	4350	87	6	14	69-122	
1,1,2,2-Tetrachloroethane	5000	4190	84	1	18	61-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	5160	103	13	35	44-140	
1,1-Dichloroethane	5000	5240	105	0	14	73-124	
1,1-Dichloroethene	5000	5050	101	1	24	67-124	
1,2,4-Trichlorobenzene	5000	4310	86	5	28	48-120	
1,2-Dibromo-3-Chloropropane	5000	2420	48	15	24	42-130	
Ethylene Dibromide	5000	4270	85	6	24	69-125	
1,2-Dichlorobenzene	5000	4950	99	1	15	67-118	
1,2-Dichloroethane	5000	5480	110	3	24	74-125	
1,2-Dichloropropane	5000	5290	106	2	15	73-122	
1,3-Dichlorobenzene	5000	4820	96	2	15	65-120	
1,4-Dichlorobenzene	5000	4890	98	2	16	66-120	
2-Butanone (MEK)	10000	7690	77	1	19	49-132	
2-Hexanone	10000	6880	69	3	27	49-142	
4-Methyl-2-pentanone (MIBK)	10000	7480	75	1	32	58-136	
Acetone	10000	7100	71	2	28	32-126	
Benzene	5000	5140	103	2	13	73-121	
Dichlorobromomethane	5000	4380	88	4	19	72-120	
Bromoform	5000	2680	54	10	19	45-121	
Bromomethane	5000	6980	140	12	35	26-136	F1
Carbon disulfide	5000	5300	106	1	34	54-144	
Carbon tetrachloride	5000	3790	76	14	20	65-129	
Chlorobenzene	5000	4870	97	0	15	72-120	
Chloroethane	5000	5630	113	5	35	27-131	
Chloroform	5000	5200	104	0	17	73-121	
Chloromethane	5000	4860	97	8	20	39-134	
cis-1,2-Dichloroethene	5000	16500	87	3	22	66-124	
cis-1,3-Dichloropropene	5000	3460	69	11	21	60-120	
Chlorodibromomethane	5000	3340	67	7	19	62-122	
Dichlorodifluoromethane	5000	3530	71	5	34	14-137	
Ethylbenzene	5000	4970	99	4	16	68-121	
Isopropylbenzene	5000	5030	101	6	20	61-122	
Methyl tert-butyl ether	5000	3240	65	1	12	61-121	
Methylene Chloride	5000	5470	109	3	14	70-124	
Styrene	5000	4940	99	0	15	64-126	
Tetrachloroethene	5000	4590	92	9	20	59-125	
Toluene	5000	5070	101	5	15	72-122	
trans-1,2-Dichloroethene	5000	5340	107	2	25	72-125	
trans-1,3-Dichloropropene	5000	2670	53	16	22	58-132	F1
Trichloroethene	5000	6170	92	1	14	61-129	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXC8065.D

Lab ID: 240-64717-B-2 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Trichlorofluoromethane	5000	10100	202	2	25	49-133	F1
Vinyl chloride	5000	7310	95	6	35	44-122	
Xylenes, Total	10000	9890	99	2	14	67-122	
m-Xylene & p-Xylene	5000	5050	101	2	15	66-123	
o-Xylene	5000	4840	97	2	14	68-121	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab File ID: UXJ4606.D Lab Sample ID: MB 240-230196/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX11 Date Analyzed: 05/13/2016 10:38
 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 240-230196/4	UXJ4603.D	05/13/2016 09:30
TB-050616	240-64548-1	UXJ4618.D	05/13/2016 15:08
SWMW-1I-050616	240-64548-3	UXJ4620.D	05/13/2016 15:54

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab File ID: UXJ4658.D Lab Sample ID: MB 240-230444/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX11 Date Analyzed: 05/16/2016 09:07
 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 240-230444/4	UXJ4655.D	05/16/2016 07:59
MRC-MW-14B-050616	240-64548-2	UXJ4662.D	05/16/2016 10:46
TB-050916	240-64615-1	UXJ4666.D	05/16/2016 12:16
MRC-MW-12A-050916	240-64615-2	UXJ4667.D	05/16/2016 12:38
MRC-MW-12B-050916	240-64615-3	UXJ4668.D	05/16/2016 13:00
G-SWMW-3I-050916	240-64615-4	UXJ4669.D	05/16/2016 13:22
	240-64546-F-1 MS	UXJ4680.D	05/16/2016 17:31
	240-64546-E-1 MSD	UXJ4681.D	05/16/2016 17:53

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab File ID: UXJ4746.D Lab Sample ID: MB 240-230805/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX11 Date Analyzed: 05/18/2016 10:26
 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 240-230805/4	UXJ4743.D	05/18/2016 09:18
TB-051016	240-64671-1	UXJ4752.D	05/18/2016 12:57
G-SWMW-4I-051016	240-64671-2	UXJ4753.D	05/18/2016 13:20
G-SWMW-4S-051016	240-64671-3	UXJ4754.D	05/18/2016 13:42
G-SWMW-5I-051016	240-64671-4	UXJ4755.D	05/18/2016 14:05
G-SWMW-2I-051016	240-64671-5	UXJ4756.D	05/18/2016 14:27
G-OUTFALL-051016	240-64671-7	UXJ4757.D	05/18/2016 14:50
	240-64676-E-5 MS	UXJ4769.D	05/18/2016 19:20
	240-64676-H-5 MSD	UXJ4770.D	05/18/2016 19:42

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab File ID: UXC8043.D Lab Sample ID: MB 240-231016/31
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX15 Date Analyzed: 05/19/2016 11:25
 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 240-231016/4	UXC8039.D	05/19/2016 09:55
G-SWMW-4I-051016	240-64671-2	UXC8044.D	05/19/2016 11:47
	240-64717-B-2 MS	UXC8064.D	05/19/2016 19:17
	240-64717-B-2 MSD	UXC8065.D	05/19/2016 19:40

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab File ID: BFB6420A.D BFB Injection Date: 04/20/2016
 Instrument ID: A3UX11 BFB Injection Time: 08:39
 Analysis Batch No.: 226738

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.1	
75	30.0 - 60.0 % of mass 95	50.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	86.0	
175	5.0 - 9.0 % of mass 174	6.8	(8.0) 1
176	95.0 - 101.0 % of mass 174	83.5	(97.1) 1
177	5.0 - 9.0 % of mass 176	5.9	(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 240-226738/2	UXJ3913.D	04/20/2016	09:25
	STD8260 240-226738/3	UXJ3914.D	04/20/2016	09:48
	STD8260 240-226738/4	UXJ3915.D	04/20/2016	10:10
	STD8260 240-226738/5	UXJ3916.D	04/20/2016	10:33
	STD8260 240-226738/6	UXJ3917.D	04/20/2016	10:56
	STD8260 240-226738/7	UXJ3918.D	04/20/2016	11:18
	ICV 240-226738/14	UXJ3919.D	04/20/2016	12:08
	ICV 240-226738/15	UXJ3926.D	04/20/2016	14:47

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab File ID: BFB6513.D BFB Injection Date: 05/13/2016
 Instrument ID: A3UX11 BFB Injection Time: 08:17
 Analysis Batch No.: 230196

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	49.2
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 (0.4) 1
174	50.0 - 120.00 % of mass 95	96.5
175	5.0 - 9.0 % of mass 174	7.0 (7.2) 1
176	95.0 - 101.0 % of mass 174	93.5 (97.0) 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 240-230196/2	UXJ4602.D	05/13/2016	09:07
	LCS 240-230196/4	UXJ4603.D	05/13/2016	09:30
	CCV 240-230196/3	UXJ4604.D	05/13/2016	09:52
	MB 240-230196/6	UXJ4606.D	05/13/2016	10:38
TB-050616	240-64548-1	UXJ4618.D	05/13/2016	15:08
SWMW-1I-050616	240-64548-3	UXJ4620.D	05/13/2016	15:54

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab File ID: BFB6516.D BFB Injection Date: 05/16/2016
 Instrument ID: A3UX11 BFB Injection Time: 07:10
 Analysis Batch No.: 230444

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	47.2
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	100.3
175	5.0 - 9.0 % of mass 174	7.4 (7.3) 1
176	95.0 - 101.0 % of mass 174	100.8 (100.5) 1
177	5.0 - 9.0 % of mass 176	6.8 (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 240-230444/2	UXJ4654.D	05/16/2016	07:37
	LCS 240-230444/4	UXJ4655.D	05/16/2016	07:59
	CCV 240-230444/3	UXJ4656.D	05/16/2016	08:22
	MB 240-230444/6	UXJ4658.D	05/16/2016	09:07
MRC-MW-14B-050616	240-64548-2	UXJ4662.D	05/16/2016	10:46
TB-050916	240-64615-1	UXJ4666.D	05/16/2016	12:16
MRC-MW-12A-050916	240-64615-2	UXJ4667.D	05/16/2016	12:38
MRC-MW-12B-050916	240-64615-3	UXJ4668.D	05/16/2016	13:00
G-SWMW-3I-050916	240-64615-4	UXJ4669.D	05/16/2016	13:22
	240-64546-F-1 MS	UXJ4680.D	05/16/2016	17:31
	240-64546-E-1 MSD	UXJ4681.D	05/16/2016	17:53

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab File ID: BFB6518.D BFB Injection Date: 05/18/2016
 Instrument ID: A3UX11 BFB Injection Time: 08:31
 Analysis Batch No.: 230805

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.8
75	30.0 - 60.0 % of mass 95	47.1
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	97.8
175	5.0 - 9.0 % of mass 174	7.5 (7.7) 1
176	95.0 - 101.0 % of mass 174	95.2 (97.3) 1
177	5.0 - 9.0 % of mass 176	6.1 (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 240-230805/2	UXJ4742.D	05/18/2016	08:56
	LCS 240-230805/4	UXJ4743.D	05/18/2016	09:18
	CCV 240-230805/3	UXJ4744.D	05/18/2016	09:41
	MB 240-230805/6	UXJ4746.D	05/18/2016	10:26
TB-051016	240-64671-1	UXJ4752.D	05/18/2016	12:57
G-SWMW-4I-051016	240-64671-2	UXJ4753.D	05/18/2016	13:20
G-SWMW-4S-051016	240-64671-3	UXJ4754.D	05/18/2016	13:42
G-SWMW-5I-051016	240-64671-4	UXJ4755.D	05/18/2016	14:05
G-SWMW-2I-051016	240-64671-5	UXJ4756.D	05/18/2016	14:27
G-OUTFALL-051016	240-64671-7	UXJ4757.D	05/18/2016	14:50
	240-64676-E-5 MS	UXJ4769.D	05/18/2016	19:20
	240-64676-H-5 MSD	UXJ4770.D	05/18/2016	19:42

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab File ID: BFB578.D BFB Injection Date: 04/19/2016
 Instrument ID: A3UX15 BFB Injection Time: 13:14
 Analysis Batch No.: 226549

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	45.6	
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	(0.2) 1
174	50.0 - 120.00 % of mass 95	88.7	
175	5.0 - 9.0 % of mass 174	6.2	(7.0) 1
176	95.0 - 101.0 % of mass 174	86.7	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.4	(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 240-226549/2	UXC7212B.D	04/19/2016	14:03
	STD8260 240-226549/3	UXC7213B.D	04/19/2016	14:25
	STD8260 240-226549/4	UXC7214.D	04/19/2016	14:48
	STD8260 240-226549/5	UXC7215.D	04/19/2016	15:11
	STD8260 240-226549/6	UXC7216.D	04/19/2016	15:33
	STD8260 240-226549/7	UXC7217.D	04/19/2016	15:56
	ICV 240-226549/14	UXC7218.D	04/19/2016	16:19
	ICV 240-226549/15	UXC7225.D	04/19/2016	18:55

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab File ID: BFB599.D BFB Injection Date: 05/19/2016
 Instrument ID: A3UX15 BFB Injection Time: 08:55
 Analysis Batch No.: 231016

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.9	
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	6.6	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	76.3	
175	5.0 - 9.0 % of mass 174	5.2	(6.8) 1
176	95.0 - 101.0 % of mass 174	74.0	(97.0) 1
177	5.0 - 9.0 % of mass 176	4.8	(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 240-231016/2	UXC8038.D	05/19/2016	09:32
	LCS 240-231016/4	UXC8039.D	05/19/2016	09:55
	CCV 240-231016/3	UXC8040.D	05/19/2016	10:18
	MB 240-231016/31	UXC8043.D	05/19/2016	11:25
G-SWMW-4I-051016	240-64671-2	UXC8044.D	05/19/2016	11:47
	240-64717-B-2 MS	UXC8064.D	05/19/2016	19:17
	240-64717-B-2 MSD	UXC8065.D	05/19/2016	19:40

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Sample No.: STD8260 240-226738/4 Date Analyzed: 04/20/2016 10:10
 Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXJ3915.D Heated Purge: (Y/N) N
 Calibration ID: 34082

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	906401	5.12	513238	7.78	187714	10.01	
UPPER LIMIT	1812802	5.62	1026476	8.28	375428	10.51	
LOWER LIMIT	453201	4.62	256619	7.28	93857	9.51	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-226738/14		928410	5.12	501834	7.78	190361	10.01
ICV 240-226738/15		848792	5.12	499263	7.78	161872	10.01
CCVIS 240-230196/2		1362757	5.12	697748	7.78	279709	10.03
CCVIS 240-230444/2		1345908	5.12	683637	7.78	275122	10.03
CCVIS 240-230805/2		1261908	5.12	645878	7.78	260659	10.01

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Sample No.: CCVIS 240-230196/2 Date Analyzed: 05/13/2016 09:07
 Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXJ4602.D Heated Purge: (Y/N) N
 Calibration ID: 34088

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1362757	5.12	697748	7.78	279709	10.03	
UPPER LIMIT	2725514	5.62	1395496	8.28	559418	10.53	
LOWER LIMIT	681379	4.62	348874	7.28	139855	9.53	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-230196/4	1051244	5.12	569963	7.78	226466	10.03	
CCV 240-230196/3	1036782	5.12	561402	7.78	202938	10.03	
MB 240-230196/6	951768	5.12	536816	7.78	195525	10.03	
240-64548-1	TB-050616	920721	5.12	507597	7.78	189025	10.01
240-64548-3	SWMW-1I-050616	741903	5.12	421587	7.78	141034	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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Sample No.: CCVIS 240-230444/2 Date Analyzed: 05/16/2016 07:37
 Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXJ4654.D Heated Purge: (Y/N) N
 Calibration ID: 34088

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1345908	5.12	683637	7.78	275122	10.03	
UPPER LIMIT	2691816	5.62	1367274	8.28	550244	10.53	
LOWER LIMIT	672954	4.62	341819	7.28	137561	9.53	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-230444/4		1163056	5.12	618203	7.78	258784	10.03
CCV 240-230444/3		1082631	5.12	593319	7.78	222351	10.01
MB 240-230444/6		954055	5.12	531425	7.78	201840	10.01
240-64548-2	MRC-MW-14B-050616	815569	5.12	438828	7.78	166777	10.01
240-64615-1	TB-050916	913894	5.12	516822	7.78	188982	10.01
240-64615-2	MRC-MW-12A-050916	940148	5.12	524319	7.78	197300	10.03
240-64615-3	MRC-MW-12B-050916	782233	5.12	434591	7.78	160855	10.03
240-64615-4	G-SWMW-3I-050916	949347	5.12	523291	7.78	193500	10.01
240-64546-F-1 MS		957600	5.12	525859	7.78	204193	10.01
240-64546-E-1 MSD		806778	5.12	436133	7.78	173333	10.01

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Sample No.: CCVIS 240-230805/2 Date Analyzed: 05/18/2016 08:56
 Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXJ4742.D Heated Purge: (Y/N) N
 Calibration ID: 34088

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1261908	5.12	645878	7.78	260659	10.01	
UPPER LIMIT	2523816	5.62	1291756	8.28	521318	10.51	
LOWER LIMIT	630954	4.62	322939	7.28	130330	9.51	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-230805/4		1119221	5.12	618370	7.78	233798	10.01
CCV 240-230805/3		1031663	5.12	582290	7.78	211528	10.03
MB 240-230805/6		946301	5.12	530922	7.78	205308	10.01
240-64671-1	TB-051016	888732	5.12	507153	7.78	187931	10.01
240-64671-2	G-SWMW-4I-051016	929127	5.12	532330	7.78	190196	10.01
240-64671-3	G-SWMW-4S-051016	874647	5.12	504073	7.78	173821	10.01
240-64671-4	G-SWMW-5I-051016	867315	5.12	497733	7.78	180006	10.01
240-64671-5	G-SWMW-2I-051016	928956	5.12	528805	7.78	192056	10.01
240-64671-7	G-OUTFALL-051016	935040	5.12	546423	7.78	193810	10.01
240-64676-E-5 MS		956669	5.12	538838	7.78	214167	10.01
240-64676-H-5 MSD		929999	5.12	504522	7.78	210903	10.01

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Sample No.: STD8260 240-226549/4 Date Analyzed: 04/19/2016 14:48
 Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXC7214.D Heated Purge: (Y/N) N
 Calibration ID: 34036

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	974986	5.15	736266	7.81	371049	10.04	
UPPER LIMIT	1949972	5.65	1472532	8.31	742098	10.54	
LOWER LIMIT	487493	4.65	368133	7.31	185525	9.54	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-226549/14		965674	5.15	688137	7.81	328764	10.04
ICV 240-226549/15		960373	5.15	735596	7.81	374094	10.04
CCVIS 240-231016/2		757210	5.13	597387	7.81	310193	10.04

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Sample No.: CCVIS 240-231016/2 Date Analyzed: 05/19/2016 09:32
 Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXC8038.D Heated Purge: (Y/N) N
 Calibration ID: 34040

	FB		CBZ		DCB			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	757210	5.13	597387	7.81	310193	10.04		
UPPER LIMIT	1514420	5.63	1194774	8.31	620386	10.54		
LOWER LIMIT	378605	4.63	298694	7.31	155097	9.54		
LAB SAMPLE ID	CLIENT SAMPLE ID							
LCS 240-231016/4			774879	5.15	595741	7.81	310210	10.04
CCV 240-231016/3			752336	5.15	593890	7.81	289871	10.04
MB 240-231016/31			725511	5.15	560607	7.81	272713	10.04
240-64671-2	G-SMMW-4I-051016		719762	5.15	556443	7.81	272741	10.04
240-64717-B-2 MS			694564	5.15	547561	7.81	292668	10.04
240-64717-B-2 MSD			754747	5.15	565440	7.81	297331	10.04

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: TB-050616 Lab Sample ID: 240-64548-1
 Matrix: Water Lab File ID: UXJ4618.D
 Analysis Method: 8260C Date Collected: 05/06/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/13/2016 15:08
 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.: 230196 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: TB-050616 Lab Sample ID: 240-64548-1
 Matrix: Water Lab File ID: UXJ4618.D
 Analysis Method: 8260C Date Collected: 05/06/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/13/2016 15:08
 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.: 230196 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		79-120
460-00-4	4-Bromofluorobenzene (Surr)	81		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: MRC-MW-14B-050616 Lab Sample ID: 240-64548-2
 Matrix: Water Lab File ID: UXJ4662.D
 Analysis Method: 8260C Date Collected: 05/06/2016 11:50
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 10:46
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	2.2
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	2.3
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	1.2
75-34-3	1,1-Dichloroethane	11		5.0	1.5
75-35-4	1,1-Dichloroethene	5.0	U	5.0	2.3
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10	4.1
106-93-4	Ethylene Dibromide	5.0	U	5.0	1.6
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	1.3
107-06-2	1,2-Dichloroethane	1.7	J	5.0	1.2
78-87-5	1,2-Dichloropropane	5.0	U	5.0	1.3
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.95
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	1.4
78-93-3	2-Butanone (MEK)	88		50	2.7
591-78-6	2-Hexanone	50	U	50	2.4
108-10-1	4-Methyl-2-pentanone (MIBK)	50	U	50	5.0
67-64-1	Acetone	13	J	50	4.7
71-43-2	Benzene	6.7		5.0	1.8
75-27-4	Dichlorobromomethane	5.0	U	5.0	1.5
75-25-2	Bromoform	5.0	U	5.0	2.8
74-83-9	Bromomethane	5.0	U	5.0	2.2
75-15-0	Carbon disulfide	5.0	U	5.0	1.9
56-23-5	Carbon tetrachloride	5.0	U	5.0	2.2
108-90-7	Chlorobenzene	5.0	U	5.0	1.3
75-00-3	Chloroethane	11		5.0	1.6
67-66-3	Chloroform	5.0	U	5.0	1.3
74-87-3	Chloromethane	5.0	U	5.0	2.2
156-59-2	cis-1,2-Dichloroethene	6.9		5.0	1.3
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	2.3
110-82-7	Cyclohexane	5.0	U	5.0	2.3
124-48-1	Chlorodibromomethane	5.0	U	5.0	2.2
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	1.6
100-41-4	Ethylbenzene	5.0	U	5.0	1.3
98-82-8	Isopropylbenzene	5.0	U	5.0	1.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: MRC-MW-14B-050616 Lab Sample ID: 240-64548-2
 Matrix: Water Lab File ID: UXJ4662.D
 Analysis Method: 8260C Date Collected: 05/06/2016 11:50
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 10:46
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	50	U	50	11
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	1.0
108-87-2	Methylcyclohexane	5.0	U	5.0	2.2
75-09-2	Methylene Chloride	5.0	U	5.0	1.7
100-42-5	Styrene	5.0	U	5.0	2.3
127-18-4	Tetrachloroethene	5.0	U	5.0	1.6
108-88-3	Toluene	5.0	U	5.0	1.2
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	1.5
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	2.8
79-01-6	Trichloroethene	5.0	U	5.0	1.1
75-69-4	Trichlorofluoromethane	5.0	U	5.0	2.5
75-01-4	Vinyl chloride	3.0	J	5.0	1.5
1330-20-7	Xylenes, Total	10	U	10	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	111		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		79-120
460-00-4	4-Bromofluorobenzene (Surr)	99		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: SMMW-1I-050616 Lab Sample ID: 240-64548-3
 Matrix: Water Lab File ID: UXJ4620.D
 Analysis Method: 8260C Date Collected: 05/06/2016 13:25
 Sample wt/vol: 5 (mL) Date Analyzed: 05/13/2016 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.: 230196 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.68	J	1.0	0.45
79-00-5	1,1,2-Trichloroethane	0.40	J	1.0	0.24
75-34-3	1,1-Dichloroethane	24		1.0	0.30
75-35-4	1,1-Dichloroethene	0.51	J	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	4.2	J	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	2.8	J	10	0.94
71-43-2	Benzene	11		1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.6		1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.2		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	0.61	J	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: SMMW-1I-050616 Lab Sample ID: 240-64548-3
 Matrix: Water Lab File ID: UXJ4620.D
 Analysis Method: 8260C Date Collected: 05/06/2016 13:25
 Sample wt/vol: 5 (mL) Date Analyzed: 05/13/2016 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.: 230196 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.93	J	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	2.2		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	27		1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	117		80-120
1868-53-7	Dibromofluoromethane (Surr)	119		79-120
460-00-4	4-Bromofluorobenzene (Surr)	102		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: TB-050916 Lab Sample ID: 240-64615-1
 Matrix: Water Lab File ID: UXJ4666.D
 Analysis Method: 8260C Date Collected: 05/09/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 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.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: TB-050916 Lab Sample ID: 240-64615-1
 Matrix: Water Lab File ID: UXJ4666.D
 Analysis Method: 8260C Date Collected: 05/09/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 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.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		79-120
460-00-4	4-Bromofluorobenzene (Surr)	81		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: MRC-MW-12A-050916 Lab Sample ID: 240-64615-2
 Matrix: Water Lab File ID: UXJ4667.D
 Analysis Method: 8260C Date Collected: 05/09/2016 10:55
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 12:38
 Soil Aliquot Vol: _____ Dilution Factor: 33.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	33	U	33	15
79-34-5	1,1,2,2-Tetrachloroethane	33	U	33	7.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	33	U	33	15
79-00-5	1,1,2-Trichloroethane	33	U	33	8.0
75-34-3	1,1-Dichloroethane	21	J	33	10
75-35-4	1,1-Dichloroethene	140		33	15
120-82-1	1,2,4-Trichlorobenzene	33	U	33	11
96-12-8	1,2-Dibromo-3-Chloropropane	67	U	67	27
106-93-4	Ethylene Dibromide	33	U	33	11
95-50-1	1,2-Dichlorobenzene	33	U	33	8.3
107-06-2	1,2-Dichloroethane	33	U	33	7.7
78-87-5	1,2-Dichloropropane	33	U	33	8.3
541-73-1	1,3-Dichlorobenzene	33	U	33	6.3
106-46-7	1,4-Dichlorobenzene	33	U	33	9.0
78-93-3	2-Butanone (MEK)	330	U	330	18
591-78-6	2-Hexanone	330	U	330	16
108-10-1	4-Methyl-2-pentanone (MIBK)	330	U	330	33
67-64-1	Acetone	330	U	330	31
71-43-2	Benzene	33	U	33	12
75-27-4	Dichlorobromomethane	33	U	33	9.7
75-25-2	Bromoform	33	U	33	19
74-83-9	Bromomethane	33	U	33	15
75-15-0	Carbon disulfide	33	U	33	13
56-23-5	Carbon tetrachloride	33	U	33	14
108-90-7	Chlorobenzene	33	U	33	8.3
75-00-3	Chloroethane	33	U	33	11
67-66-3	Chloroform	33	U	33	8.3
74-87-3	Chloromethane	33	U	33	15
156-59-2	cis-1,2-Dichloroethene	590		33	8.7
10061-01-5	cis-1,3-Dichloropropene	33	U	33	15
110-82-7	Cyclohexane	33	U	33	15
124-48-1	Chlorodibromomethane	33	U	33	14
75-71-8	Dichlorodifluoromethane	33	U	33	11
100-41-4	Ethylbenzene	33	U	33	8.3
98-82-8	Isopropylbenzene	33	U	33	12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: MRC-MW-12A-050916 Lab Sample ID: 240-64615-2
 Matrix: Water Lab File ID: UXJ4667.D
 Analysis Method: 8260C Date Collected: 05/09/2016 10:55
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 12:38
 Soil Aliquot Vol: _____ Dilution Factor: 33.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	330	U	330	76
1634-04-4	Methyl tert-butyl ether	33	U	33	6.7
108-87-2	Methylcyclohexane	33	U	33	14
75-09-2	Methylene Chloride	33	U	33	11
100-42-5	Styrene	33	U	33	15
127-18-4	Tetrachloroethene	33	U	33	10
108-88-3	Toluene	33	U	33	7.7
156-60-5	trans-1,2-Dichloroethene	33	U	33	10
10061-02-6	trans-1,3-Dichloropropene	33	U	33	19
79-01-6	Trichloroethene	7.8	J	33	7.3
75-69-4	Trichlorofluoromethane	33	U	33	16
75-01-4	Vinyl chloride	32	J	33	9.7
1330-20-7	Xylenes, Total	67	U	67	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		79-120
460-00-4	4-Bromofluorobenzene (Surr)	79		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		78-125

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GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: MRC-MW-12B-050916 Lab Sample ID: 240-64615-3
 Matrix: Water Lab File ID: UXJ4668.D
 Analysis Method: 8260C Date Collected: 05/09/2016 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 13:00
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20	U	20	8.8
79-34-5	1,1,2,2-Tetrachloroethane	20	U	20	4.4
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	9.0
79-00-5	1,1,2-Trichloroethane	20	U	20	4.8
75-34-3	1,1-Dichloroethane	14	J	20	6.0
75-35-4	1,1-Dichloroethene	95		20	9.0
120-82-1	1,2,4-Trichlorobenzene	20	U	20	6.4
96-12-8	1,2-Dibromo-3-Chloropropane	40	U	40	16
106-93-4	Ethylene Dibromide	20	U	20	6.4
95-50-1	1,2-Dichlorobenzene	20	U	20	5.0
107-06-2	1,2-Dichloroethane	20	U	20	4.6
78-87-5	1,2-Dichloropropane	20	U	20	5.0
541-73-1	1,3-Dichlorobenzene	20	U	20	3.8
106-46-7	1,4-Dichlorobenzene	20	U	20	5.4
78-93-3	2-Butanone (MEK)	200	U	200	11
591-78-6	2-Hexanone	200	U	200	9.6
108-10-1	4-Methyl-2-pentanone (MIBK)	200	U	200	20
67-64-1	Acetone	200	U	200	19
71-43-2	Benzene	20	U	20	7.0
75-27-4	Dichlorobromomethane	20	U	20	5.8
75-25-2	Bromoform	20	U	20	11
74-83-9	Bromomethane	20	U	20	8.8
75-15-0	Carbon disulfide	20	U	20	7.6
56-23-5	Carbon tetrachloride	20	U	20	8.6
108-90-7	Chlorobenzene	20	U	20	5.0
75-00-3	Chloroethane	20	U	20	6.4
67-66-3	Chloroform	20	U	20	5.0
74-87-3	Chloromethane	20	U	20	8.8
156-59-2	cis-1,2-Dichloroethene	190		20	5.2
10061-01-5	cis-1,3-Dichloropropene	20	U	20	9.2
110-82-7	Cyclohexane	20	U	20	9.0
124-48-1	Chlorodibromomethane	20	U	20	8.6
75-71-8	Dichlorodifluoromethane	20	U	20	6.4
100-41-4	Ethylbenzene	20	U	20	5.0
98-82-8	Isopropylbenzene	20	U	20	7.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: MRC-MW-12B-050916 Lab Sample ID: 240-64615-3
 Matrix: Water Lab File ID: UXJ4668.D
 Analysis Method: 8260C Date Collected: 05/09/2016 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 13:00
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	200	U	200	45
1634-04-4	Methyl tert-butyl ether	20	U	20	4.0
108-87-2	Methylcyclohexane	20	U	20	8.6
75-09-2	Methylene Chloride	20	U	20	6.6
100-42-5	Styrene	20	U	20	9.0
127-18-4	Tetrachloroethene	20	U	20	6.2
108-88-3	Toluene	20	U	20	4.6
156-60-5	trans-1,2-Dichloroethene	20	U	20	6.0
10061-02-6	trans-1,3-Dichloropropene	20	U	20	11
79-01-6	Trichloroethene	490		20	4.4
75-69-4	Trichlorofluoromethane	20	U	20	9.8
75-01-4	Vinyl chloride	20	U	20	5.8
1330-20-7	Xylenes, Total	40	U	40	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	109		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		79-120
460-00-4	4-Bromofluorobenzene (Surr)	95		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		78-125

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Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-3I-050916 Lab Sample ID: 240-64615-4
 Matrix: Water Lab File ID: UXJ4669.D
 Analysis Method: 8260C Date Collected: 05/09/2016 14:15
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 13:22
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10	U	10	4.4
79-34-5	1,1,2,2-Tetrachloroethane	10	U	10	2.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	4.5
79-00-5	1,1,2-Trichloroethane	10	U	10	2.4
75-34-3	1,1-Dichloroethane	9.4	J	10	3.0
75-35-4	1,1-Dichloroethene	70		10	4.5
120-82-1	1,2,4-Trichlorobenzene	10	U	10	3.2
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	8.2
106-93-4	Ethylene Dibromide	10	U	10	3.2
95-50-1	1,2-Dichlorobenzene	10	U	10	2.5
107-06-2	1,2-Dichloroethane	10	U	10	2.3
78-87-5	1,2-Dichloropropane	10	U	10	2.5
541-73-1	1,3-Dichlorobenzene	10	U	10	1.9
106-46-7	1,4-Dichlorobenzene	10	U	10	2.7
78-93-3	2-Butanone (MEK)	90	J	100	5.3
591-78-6	2-Hexanone	100	U	100	4.8
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	9.9
67-64-1	Acetone	100	U	100	9.4
71-43-2	Benzene	10	U	10	3.5
75-27-4	Dichlorobromomethane	10	U	10	2.9
75-25-2	Bromoform	10	U	10	5.6
74-83-9	Bromomethane	10	U	10	4.4
75-15-0	Carbon disulfide	10	U	10	3.8
56-23-5	Carbon tetrachloride	10	U	10	4.3
108-90-7	Chlorobenzene	10	U	10	2.5
75-00-3	Chloroethane	10	U	10	3.2
67-66-3	Chloroform	10	U	10	2.5
74-87-3	Chloromethane	10	U	10	4.4
156-59-2	cis-1,2-Dichloroethene	260		10	2.6
10061-01-5	cis-1,3-Dichloropropene	10	U	10	4.6
110-82-7	Cyclohexane	10	U	10	4.5
124-48-1	Chlorodibromomethane	10	U	10	4.3
75-71-8	Dichlorodifluoromethane	10	U	10	3.2
100-41-4	Ethylbenzene	10	U	10	2.5
98-82-8	Isopropylbenzene	10	U	10	3.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-3I-050916 Lab Sample ID: 240-64615-4
 Matrix: Water Lab File ID: UXJ4669.D
 Analysis Method: 8260C Date Collected: 05/09/2016 14:15
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 13:22
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	100	U	100	23
1634-04-4	Methyl tert-butyl ether	10	U	10	2.0
108-87-2	Methylcyclohexane	10	U	10	4.3
75-09-2	Methylene Chloride	10	U	10	3.3
100-42-5	Styrene	10	U	10	4.5
127-18-4	Tetrachloroethene	10	U	10	3.1
108-88-3	Toluene	10	U	10	2.3
156-60-5	trans-1,2-Dichloroethene	10	U	10	3.0
10061-02-6	trans-1,3-Dichloropropene	10	U	10	5.6
79-01-6	Trichloroethene	22		10	2.2
75-69-4	Trichlorofluoromethane	10	U	10	4.9
75-01-4	Vinyl chloride	11		10	2.9
1330-20-7	Xylenes, Total	20	U	20	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		79-120
460-00-4	4-Bromofluorobenzene (Surr)	78		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: TB-051016 Lab Sample ID: 240-64671-1
 Matrix: Water Lab File ID: UXJ4752.D
 Analysis Method: 8260C Date Collected: 05/10/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 12:57
 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: TB-051016 Lab Sample ID: 240-64671-1
 Matrix: Water Lab File ID: UXJ4752.D
 Analysis Method: 8260C Date Collected: 05/10/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 12:57
 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120
460-00-4	4-Bromofluorobenzene (Surr)	83		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SMMW-4I-051016 Lab Sample ID: 240-64671-2
 Matrix: Water Lab File ID: UXJ4753.D
 Analysis Method: 8260C Date Collected: 05/10/2016 10:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 13:20
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	0.88
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.44
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.90
79-00-5	1,1,2-Trichloroethane	2.0	U	2.0	0.48
75-34-3	1,1-Dichloroethane	2.2		2.0	0.60
75-35-4	1,1-Dichloroethene	3.5		2.0	0.90
120-82-1	1,2,4-Trichlorobenzene	2.0	U	2.0	0.64
96-12-8	1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6
106-93-4	Ethylene Dibromide	2.0	U	2.0	0.64
95-50-1	1,2-Dichlorobenzene	2.0	U	2.0	0.50
107-06-2	1,2-Dichloroethane	1.2	J	2.0	0.46
78-87-5	1,2-Dichloropropane	2.0	U	2.0	0.50
541-73-1	1,3-Dichlorobenzene	2.0	U	2.0	0.38
106-46-7	1,4-Dichlorobenzene	2.0	U	2.0	0.54
591-78-6	2-Hexanone	20	U	20	0.96
108-10-1	4-Methyl-2-pentanone (MIBK)	3.9	J	20	2.0
67-64-1	Acetone	2.8	J	20	1.9
71-43-2	Benzene	2.0	U	2.0	0.70
75-27-4	Dichlorobromomethane	2.0	U	2.0	0.58
75-25-2	Bromoform	2.0	U	2.0	1.1
74-83-9	Bromomethane	2.0	U	2.0	0.88
75-15-0	Carbon disulfide	2.0	U	2.0	0.76
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.86
108-90-7	Chlorobenzene	2.0	U	2.0	0.50
75-00-3	Chloroethane	6.1		2.0	0.64
67-66-3	Chloroform	2.0	U	2.0	0.50
74-87-3	Chloromethane	2.0	U	2.0	0.88
156-59-2	cis-1,2-Dichloroethene	22		2.0	0.52
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0	0.92
110-82-7	Cyclohexane	2.0	U	2.0	0.90
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.86
75-71-8	Dichlorodifluoromethane	2.0	U	2.0	0.64
100-41-4	Ethylbenzene	2.0	U	2.0	0.50
98-82-8	Isopropylbenzene	2.0	U	2.0	0.70
79-20-9	Methyl acetate	20	U	20	4.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-4I-051016 Lab Sample ID: 240-64671-2
 Matrix: Water Lab File ID: UXJ4753.D
 Analysis Method: 8260C Date Collected: 05/10/2016 10:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 13:20
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	2.0	U	2.0	0.40
108-87-2	Methylcyclohexane	2.0	U	2.0	0.86
75-09-2	Methylene Chloride	2.0	U	2.0	0.66
100-42-5	Styrene	2.0	U	2.0	0.90
127-18-4	Tetrachloroethene	2.0	U	2.0	0.62
108-88-3	Toluene	2.0	U	2.0	0.46
156-60-5	trans-1,2-Dichloroethene	2.0	U	2.0	0.60
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0	1.1
79-01-6	Trichloroethene	2.0	U	2.0	0.44
75-69-4	Trichlorofluoromethane	2.0	U	2.0	0.98
75-01-4	Vinyl chloride	43		2.0	0.58
1330-20-7	Xylenes, Total	4.0	U	4.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120
460-00-4	4-Bromofluorobenzene (Surr)	81		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-4I-051016 Lab Sample ID: 240-64671-2
 Matrix: Water Lab File ID: UXC8044.D
 Analysis Method: 8260C Date Collected: 05/10/2016 10:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/19/2016 11:47
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	140		50	2.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		79-120
460-00-4	4-Bromofluorobenzene (Surr)	96		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-4S-051016 Lab Sample ID: 240-64671-3
 Matrix: Water Lab File ID: UXJ4754.D
 Analysis Method: 8260C Date Collected: 05/10/2016 11:10
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 13:42
 Soil Aliquot Vol: _____ Dilution Factor: 3.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3.3	U	3.3	1.5
79-34-5	1,1,2,2-Tetrachloroethane	3.3	U	3.3	0.73
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.3	U	3.3	1.5
79-00-5	1,1,2-Trichloroethane	3.3	U	3.3	0.80
75-34-3	1,1-Dichloroethane	6.3		3.3	1.0
75-35-4	1,1-Dichloroethene	34		3.3	1.5
120-82-1	1,2,4-Trichlorobenzene	3.3	U	3.3	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	6.7	U	6.7	2.7
106-93-4	Ethylene Dibromide	3.3	U	3.3	1.1
95-50-1	1,2-Dichlorobenzene	3.3	U	3.3	0.83
107-06-2	1,2-Dichloroethane	3.3	U	3.3	0.77
78-87-5	1,2-Dichloropropane	3.3	U	3.3	0.83
541-73-1	1,3-Dichlorobenzene	3.3	U	3.3	0.63
106-46-7	1,4-Dichlorobenzene	3.3	U	3.3	0.90
78-93-3	2-Butanone (MEK)	27	J	33	1.8
591-78-6	2-Hexanone	33	U	33	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	33	U	33	3.3
67-64-1	Acetone	11	J	33	3.1
71-43-2	Benzene	1.7	J	3.3	1.2
75-27-4	Dichlorobromomethane	3.3	U	3.3	0.97
75-25-2	Bromoform	3.3	U	3.3	1.9
74-83-9	Bromomethane	3.3	U	3.3	1.5
75-15-0	Carbon disulfide	3.3	U	3.3	1.3
56-23-5	Carbon tetrachloride	3.3	U	3.3	1.4
108-90-7	Chlorobenzene	3.3	U	3.3	0.83
75-00-3	Chloroethane	3.3	U	3.3	1.1
67-66-3	Chloroform	3.5		3.3	0.83
74-87-3	Chloromethane	3.3	U	3.3	1.5
156-59-2	cis-1,2-Dichloroethene	41		3.3	0.87
10061-01-5	cis-1,3-Dichloropropene	3.3	U	3.3	1.5
110-82-7	Cyclohexane	3.3	U	3.3	1.5
124-48-1	Chlorodibromomethane	3.3	U	3.3	1.4
75-71-8	Dichlorodifluoromethane	3.3	U	3.3	1.1
100-41-4	Ethylbenzene	3.3	U	3.3	0.83
98-82-8	Isopropylbenzene	3.3	U	3.3	1.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-4S-051016 Lab Sample ID: 240-64671-3
 Matrix: Water Lab File ID: UXJ4754.D
 Analysis Method: 8260C Date Collected: 05/10/2016 11:10
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 13:42
 Soil Aliquot Vol: _____ Dilution Factor: 3.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	33	U	33	7.6
1634-04-4	Methyl tert-butyl ether	3.3	U	3.3	0.67
108-87-2	Methylcyclohexane	3.3	U	3.3	1.4
75-09-2	Methylene Chloride	1.6	J	3.3	1.1
100-42-5	Styrene	3.3	U	3.3	1.5
127-18-4	Tetrachloroethene	3.3	U	3.3	1.0
108-88-3	Toluene	3.3	U	3.3	0.77
156-60-5	trans-1,2-Dichloroethene	3.3	U	3.3	1.0
10061-02-6	trans-1,3-Dichloropropene	3.3	U	3.3	1.9
79-01-6	Trichloroethene	110		3.3	0.73
75-69-4	Trichlorofluoromethane	3.3	U	3.3	1.6
75-01-4	Vinyl chloride	4.4		3.3	0.97
1330-20-7	Xylenes, Total	6.7	U	6.7	1.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		79-120
460-00-4	4-Bromofluorobenzene (Surr)	84		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-5I-051016 Lab Sample ID: 240-64671-4
 Matrix: Water Lab File ID: UXJ4755.D
 Analysis Method: 8260C Date Collected: 05/10/2016 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 14:05
 Soil Aliquot Vol: _____ Dilution Factor: 6.67
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	6.7	U	6.7	2.9
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U	6.7	1.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U	6.7	3.0
79-00-5	1,1,2-Trichloroethane	6.7	U	6.7	1.6
75-34-3	1,1-Dichloroethane	5.1	J	6.7	2.0
75-35-4	1,1-Dichloroethene	37		6.7	3.0
120-82-1	1,2,4-Trichlorobenzene	6.7	U	6.7	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	13	U	13	5.5
106-93-4	Ethylene Dibromide	6.7	U	6.7	2.1
95-50-1	1,2-Dichlorobenzene	6.7	U	6.7	1.7
107-06-2	1,2-Dichloroethane	6.7	U	6.7	1.5
78-87-5	1,2-Dichloropropane	6.7	U	6.7	1.7
541-73-1	1,3-Dichlorobenzene	6.7	U	6.7	1.3
106-46-7	1,4-Dichlorobenzene	6.7	U	6.7	1.8
78-93-3	2-Butanone (MEK)	230		67	3.5
591-78-6	2-Hexanone	67	U	67	3.2
108-10-1	4-Methyl-2-pentanone (MIBK)	67	U	67	6.6
67-64-1	Acetone	67	U	67	6.3
71-43-2	Benzene	3.0	J	6.7	2.3
75-27-4	Dichlorobromomethane	6.7	U	6.7	1.9
75-25-2	Bromoform	6.7	U	6.7	3.7
74-83-9	Bromomethane	6.7	U	6.7	2.9
75-15-0	Carbon disulfide	6.7	U	6.7	2.5
56-23-5	Carbon tetrachloride	6.7	U	6.7	2.9
108-90-7	Chlorobenzene	6.7	U	6.7	1.7
75-00-3	Chloroethane	2.6	J	6.7	2.1
67-66-3	Chloroform	6.7	U	6.7	1.7
74-87-3	Chloromethane	6.7	U	6.7	2.9
156-59-2	cis-1,2-Dichloroethene	170		6.7	1.7
10061-01-5	cis-1,3-Dichloropropene	6.7	U	6.7	3.1
110-82-7	Cyclohexane	6.7	U	6.7	3.0
124-48-1	Chlorodibromomethane	6.7	U	6.7	2.9
75-71-8	Dichlorodifluoromethane	6.7	U	6.7	2.1
100-41-4	Ethylbenzene	6.7	U	6.7	1.7
98-82-8	Isopropylbenzene	6.7	U	6.7	2.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-5I-051016 Lab Sample ID: 240-64671-4
 Matrix: Water Lab File ID: UXJ4755.D
 Analysis Method: 8260C Date Collected: 05/10/2016 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 14:05
 Soil Aliquot Vol: _____ Dilution Factor: 6.67
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	67	U	67	15
1634-04-4	Methyl tert-butyl ether	6.7	U	6.7	1.3
108-87-2	Methylcyclohexane	6.7	U	6.7	2.9
75-09-2	Methylene Chloride	6.7	U	6.7	2.2
100-42-5	Styrene	6.7	U	6.7	3.0
127-18-4	Tetrachloroethene	6.7	U	6.7	2.1
108-88-3	Toluene	6.7	U	6.7	1.5
156-60-5	trans-1,2-Dichloroethene	6.7	U	6.7	2.0
10061-02-6	trans-1,3-Dichloropropene	6.7	U	6.7	3.7
79-01-6	Trichloroethene	6.7	U	6.7	1.5
75-69-4	Trichlorofluoromethane	6.7	U	6.7	3.3
75-01-4	Vinyl chloride	4.5	J	6.7	1.9
1330-20-7	Xylenes, Total	13	U	13	3.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		79-120
460-00-4	4-Bromofluorobenzene (Surr)	83		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SMMW-2I-051016 Lab Sample ID: 240-64671-5
 Matrix: Water Lab File ID: UXJ4756.D
 Analysis Method: 8260C Date Collected: 05/10/2016 14:30
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	2.6		1.0	0.30
75-35-4	1,1-Dichloroethene	1.1		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	30		10	0.53
591-78-6	2-Hexanone	0.60	J	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	J	10	0.99
67-64-1	Acetone	14		10	0.94
71-43-2	Benzene	16		1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	14		1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	3.4		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	0.54	J	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-2I-051016 Lab Sample ID: 240-64671-5
 Matrix: Water Lab File ID: UXJ4756.D
 Analysis Method: 8260C Date Collected: 05/10/2016 14:30
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	J	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	2.8		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	3.5		1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		79-120
460-00-4	4-Bromofluorobenzene (Surr)	80		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-OUTFALL-051016 Lab Sample ID: 240-64671-7
 Matrix: Water Lab File ID: UXJ4757.D
 Analysis Method: 8260C Date Collected: 05/10/2016 14:40
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	2.4	J	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.62	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-OUTFALL-051016 Lab Sample ID: 240-64671-7
 Matrix: Water Lab File ID: UXJ4757.D
 Analysis Method: 8260C Date Collected: 05/10/2016 14:40
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.2		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	86		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		79-120
460-00-4	4-Bromofluorobenzene (Surr)	77		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		78-125

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 226738

SDG No.: _____

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

Calibration Start Date: 04/20/2016 09:25 Calibration End Date: 04/20/2016 11:18 Calibration ID: 34082

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-226738/7	UXJ3918.D
Level 2	STD8260 240-226738/6	UXJ3917.D
Level 3	STD8260 240-226738/5	UXJ3916.D
Level 4	STD8260 240-226738/4	UXJ3915.D
Level 5	STD8260 240-226738/3	UXJ3914.D
Level 6	STD8260 240-226738/2	UXJ3913.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	0.1993 0.1423	0.1669	0.1636	0.1864	0.1828	Ave		0.1736			0.1000	11.6		20.0			
Chloromethane	0.2502 0.2033	0.2714	0.2305	0.2230	0.2207	Ave		0.2332			0.1000	10.3		20.0			
Vinyl chloride	0.2332 0.1745	0.2601	0.2112	0.2178	0.2085	Ave		0.2175			0.1000	13.1		20.0			
Butadiene	0.2482 0.1746	0.2401	0.2019	0.2167	0.2165	Ave		0.2163				12.3		20.0			
Bromomethane	0.0961 0.0977	0.1274	0.0986	0.0995	0.1002	Ave		0.1032			0.0500	11.5		20.0			
Chloroethane	0.1087 0.1059	0.1330	0.1139	0.1129	0.1147	Ave		0.1149			0.0500	8.3		20.0			
Dichlorofluoromethane	0.2548 0.2378	0.3209	0.2520	0.2586	0.2599	Ave		0.2640				11.0		20.0			
Trichlorofluoromethane	0.1977 0.1936	0.1690	0.1852	0.2074	0.2252	Ave		0.1964			0.1000	9.8		20.0			
Ethyl ether	0.2410 0.2078	0.3075	0.2284	0.2320	0.2327	Ave		0.2416				14.1		20.0			
Acrolein	0.0236 0.0207	0.0273	0.0262	0.0250	0.0239	Ave		0.0244				9.5		20.0			
1,1-Dichloroethene	0.1869 0.1731	0.2248	0.1870	0.1946	0.1936	Ave		0.1933			0.1000	8.9		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1340 0.1064	0.1160	0.1146	0.1181	0.1272	Ave		0.1194			0.0500	8.2		20.0			
Acetone	0.1106 0.0366	0.1024	0.0750	0.0614	0.0492	Qua	0.1647	0.0575	-0.000288		0.0100			0.9990		0.9900	
Iodomethane	0.2581 0.2365	0.3110	0.2646	0.2515	0.2560	Ave		0.2630				9.6		20.0			
Carbon disulfide	0.5144 0.4320	0.5844	0.4652	0.4717	0.4809	Ave		0.4914			0.1000	10.7		20.0			

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.: 240-64548-1 Analy Batch No.: 226738

SDG No.: _____

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

Calibration Start Date: 04/20/2016 09:25 Calibration End Date: 04/20/2016 11:18 Calibration ID: 34082

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	0.1522 0.1536	0.1716	0.1617	0.1613	0.1633	Ave		0.1606			4.4		20.0				
Methyl acetate	0.1583 0.1261	0.1796	0.1535	0.1466	0.1443	Ave		0.1514		0.1000	11.7		20.0				
Methylene Chloride	0.3965 0.1985	0.3715	0.2552	0.2188	0.2152	Lin1	0.2545	0.1964		0.1000				0.9960		0.9900	
2-Methyl-2-propanol	0.0144 0.0091	0.0165	0.0122	0.0116	0.0110	Qua	0.0374	0.0124	-0.000008					0.9990		0.9900	
Acrylonitrile	0.0803 0.0649	0.0899	0.0758	0.0736	0.0738	Ave		0.0764			10.9		20.0				
Methyl tert-butyl ether	0.6891 0.6170	0.7690	0.6749	0.6504	0.6607	Ave		0.6769		0.1000	7.6		20.0				
trans-1,2-Dichloroethene	0.2913 0.2486	0.3091	0.2685	0.2529	0.2661	Ave		0.2727		0.1000	8.5		20.0				
Hexane	0.0660 0.0536	0.0507	0.0543	0.0644	0.0680	Ave		0.0595			12.5		20.0				
1,1-Dichloroethane	0.4956 0.4458	0.5665	0.4781	0.4496	0.4597	Ave		0.4826		0.2000	9.4		20.0				
Vinyl acetate	0.3981 0.3772	0.4533	0.3934	0.3798	0.3938	Ave		0.3993			7.0		20.0				
cis-1,2-Dichloroethene	0.2889 0.2612	0.3309	0.2828	0.2670	0.2711	Ave		0.2836		0.1000	8.9		20.0				
2-Butanone (MEK)	0.0996 0.0654	0.1163	0.0922	0.0866	0.0751	Qua	0.0976	0.0838	-0.000247	0.0100				0.9990		0.9900	
2,2-Dichloropropane	0.2045 0.1860	0.2403	0.1954	0.2014	0.2065	Ave		0.2057			9.0		20.0				
Chlorobromomethane	0.1227 0.1247	0.1516	0.1355	0.1208	0.1308	Ave		0.1310			8.8		20.0				
Tetrahydrofuran	0.0582 0.0463	0.0629	0.0529	0.0518	0.0524	Ave		0.0541			10.6		20.0				
Chloroform	0.4632 0.4077	0.5095	0.4329	0.4028	0.4182	Ave		0.4390		0.2000	9.3		20.0				
1,1,1-Trichloroethane	0.2988 0.2779	0.3434	0.2934	0.2950	0.2971	Ave		0.3009		0.1000	7.4		20.0				
Cyclohexane	0.3606 0.2936	0.3365	0.2986	0.3491	0.3561	Ave		0.3324		0.1000	8.8		20.0				
1,1-Dichloropropene	0.3743 0.3422	0.4157	0.3404	0.3528	0.3587	Ave		0.3640			7.7		20.0				
Carbon tetrachloride	0.2887 0.2864	0.3176	0.2657	0.2931	0.3031	Ave		0.2924		0.1000	6.0		20.0				

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.: 240-64548-1 Analy Batch No.: 226738

SDG No.: _____

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

Calibration Start Date: 04/20/2016 09:25 Calibration End Date: 04/20/2016 11:18 Calibration ID: 34082

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	0.0079 0.0073	0.0084	0.0087	0.0077	0.0077	Ave		0.0079			6.5		20.0				
1,2-Dichloroethane	0.3599 0.3206	0.3783	0.3362	0.3103	0.3181	Ave		0.3372		0.1000	7.9		20.0				
Benzene	1.1380 1.0515	1.2783	1.0825	1.0196	1.0398	Ave		1.1016		0.5000	8.7		20.0				
n-Heptane	0.0718 0.0525	0.0491	0.0448	0.0599	0.0656	Ave		0.0573			18.0		20.0				
Trichloroethene	0.2735 0.2632	0.3222	0.2626	0.2585	0.2679	Ave		0.2747		0.1500	8.7		20.0				
Methylcyclohexane	0.3391 0.2892	0.3024	0.2666	0.3322	0.3485	Ave		0.3130		0.1000	10.2		20.0				
1,2-Dichloropropane	0.2485 0.2452	0.3016	0.2549	0.2380	0.2419	Ave		0.2550		0.1000	9.2		20.0				
Dibromomethane	0.1500 0.1278	0.1583	0.1321	0.1241	0.1286	Ave		0.1368			10.2		20.0				
1,4-Dioxane	0.0010 0.0013	0.0012	0.0012	0.0015	0.0015	Ave		0.0013			15.0		20.0				
Dichlorobromomethane	0.2656 0.3015	0.3222	0.2897	0.2760	0.2880	Ave		0.2905		0.1500	6.8		20.0				
2-Chloroethyl vinyl ether	0.1317 0.1338	0.1538	0.1355	0.1349	0.1403	Ave		0.1383			5.9		20.0				
cis-1,3-Dichloropropene	0.3386 0.3749	0.3934	0.3564	0.3457	0.3669	Ave		0.3627		0.1500	5.5		20.0				
4-Methyl-2-pentanone (MIBK)	0.1673 0.1485	0.1989	0.1629	0.1606	0.1601	Ave		0.1664		0.0500	10.3		20.0				
Toluene	1.9124 2.0010	2.0990	1.8477	1.7837	1.8355	Ave		1.9132		0.4000	6.2		20.0				
trans-1,3-Dichloropropene	0.4650 0.6143	0.5595	0.5254	0.5141	0.5575	Ave		0.5393		0.1000	9.3		20.0				
Ethyl methacrylate	0.4135 0.5057	0.4523	0.4395	0.4401	0.4706	Ave		0.4536			7.0		20.0				
1,1,2-Trichloroethane	0.3312 0.3411	0.3785	0.3395	0.3095	0.3211	Ave		0.3368		0.1000	7.0		20.0				
Tetrachloroethene	0.3531 0.3545	0.3752	0.3257	0.3173	0.3327	Ave		0.3431		0.1500	6.3		20.0				
1,3-Dichloropropane	0.6159 0.6539	0.7351	0.6367	0.5874	0.6035	Ave		0.6387			8.3		20.0				
2-Hexanone	0.2183 0.1909	0.2426	0.2160	0.1958	0.1891	Ave		0.2088		0.0500	10.0		20.0				

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.: 240-64548-1 Analy Batch No.: 226738

SDG No.: _____

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

Calibration Start Date: 04/20/2016 09:25 Calibration End Date: 04/20/2016 11:18 Calibration ID: 34082

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	0.2879 0.3722	0.3509	0.3212	0.3171	0.3382	Ave		0.3313			8.8		20.0				
Ethylene Dibromide	0.2911 0.3077	0.3497	0.2961	0.2868	0.2947	Ave		0.3044			7.7		20.0				
Chlorobenzene	1.0120 0.9962	1.1718	1.0054	0.9354	0.9791	Ave		1.0166		0.3000	7.9		20.0				
1,1,1,2-Tetrachloroethane	0.3173 0.3363	0.3589	0.3318	0.3071	0.3221	Ave		0.3289			5.5		20.0				
Ethylbenzene	0.4781 0.5309	0.5610	0.4979	0.5002	0.5234	Ave		0.5153			5.7		20.0				
m-Xylene & p-Xylene	0.5952 0.6273	0.6640	0.6095	0.5694	0.6072	Ave		0.6121			5.2		20.0				
o-Xylene	0.5461 0.5589	0.5994	0.5512	0.5262	0.5424	Ave		0.5540			4.5		20.0				
Styrene	0.8613 0.9843	1.0236	0.9444	0.8934	0.9471	Ave		0.9423		0.3000	6.3		20.0				
Bromoform	0.1157 0.1652	0.1458	0.1329	0.1390	0.1510	Ave		0.1416		0.1000	11.9		20.0				
Isopropylbenzene	1.1590 1.1999	1.3078	1.1817	1.1294	1.1846	Ave		1.1937		0.1000	5.1		20.0				
1,1,2,2-Tetrachloroethane	0.7623 0.6293	0.8461	0.7024	0.6585	0.6408	Ave		0.7065		0.3000	11.9		20.0				
Bromobenzene	0.8438 0.8526	1.0183	0.8619	0.8371	0.8349	Ave		0.8748			8.1		20.0				
1,2,3-Trichloropropane	0.2546 0.2157	0.2897	0.2301	0.2292	0.2295	Ave		0.2415			11.1		20.0				
trans-1,4-Dichloro-2-butene	0.1707 0.2090	0.1715	0.1742	0.1785	0.2097	Ave		0.1856			10.0		20.0				
N-Propylbenzene	0.8057 0.8007	0.9062	0.8118	0.8116	0.8107	Ave		0.8245			4.9		20.0				
2-Chlorotoluene	0.7225 0.7115	0.8370	0.7461	0.7137	0.6934	Ave		0.7374			7.0		20.0				
1,3,5-Trimethylbenzene	2.0463 2.2503	2.2937	2.1203	2.0339	2.1167	Ave		2.1435			5.0		20.0				
4-Chlorotoluene	0.7827 0.7648	0.8791	0.7743	0.7413	0.7550	Ave		0.7829			6.3		20.0				
tert-Butylbenzene	1.7487 1.8139	1.9706	1.7808	1.7290	1.7726	Ave		1.8026			4.8		20.0				
1,2,4-Trimethylbenzene	2.1324 2.3121	2.5946	2.1634	2.1478	2.2386	Ave		2.2648			7.7		20.0				

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.: 240-64548-1 Analy Batch No.: 226738

SDG No.: _____

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

Calibration Start Date: 04/20/2016 09:25 Calibration End Date: 04/20/2016 11:18 Calibration ID: 34082

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	2.2635 2.3993	2.5607	2.3141	2.3358	2.3462	Ave		2.3699			4.4		20.0				
1,3-Dichlorobenzene	1.5149 1.3829	1.6266	1.4107	1.3088	1.3497	Ave		1.4323		0.6000	8.2		20.0				
4-Isopropyltoluene	2.0291 2.2168	2.2948	2.0808	2.0246	2.1111	Ave		2.1262			5.1		20.0				
1,4-Dichlorobenzene	1.4754 1.4495	1.7737	1.4907	1.3548	1.3951	Ave		1.4899		0.5000	9.9		20.0				
n-Butylbenzene	1.6757 1.7617	1.9222	1.6545	1.6713	1.7079	Ave		1.7322			5.8		20.0				
1,2-Dichlorobenzene	1.3643 1.3507	1.6350	1.3737	1.2976	1.3403	Ave		1.3936		0.4000	8.7		20.0				
1,2-Dibromo-3-Chloropropane	0.1295 0.1095	0.1442	0.1218	0.1290	0.1248	Ave		0.1265		0.0500	9.0		20.0				
1,2,4-Trichlorobenzene	0.9740 0.7455	1.1025	0.8899	0.8296	0.8541	Ave		0.8993		0.2000	13.8		20.0				
Hexachlorobutadiene	0.4561 0.3172	0.5163	0.3888	0.3757	0.3732	Ave		0.4046			17.4		20.0				
Naphthalene	1.9597 1.5442	2.2644	1.9167	1.9004	1.9030	Ave		1.9147			12.0		20.0				
1,2,3-Trichlorobenzene	0.8775 0.6096	1.0141	0.8166	0.7708	0.7435	Ave		0.8053			16.9		20.0				
Dibromofluoromethane (Surr)	0.2395 0.2173	0.2562	0.2245	0.2198	0.2251	Ave		0.2304			6.4		20.0				
1,2-Dichloroethane-d4 (Surr)	0.3008 0.2735	0.3196	0.2839	0.2731	0.2722	Ave		0.2872			6.7		20.0				
Toluene-d8 (Surr)	1.6750 1.6926	1.6872	1.5724	1.5175	1.5862	Ave		1.6218			4.5		20.0				
4-Bromofluorobenzene (Surr)	0.3294 0.3510	0.3831	0.3514	0.3325	0.3425	Ave		0.3483			5.5		20.0				

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.: 240-64548-1 Analy Batch No.: 226738

SDG No.: _____

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

Calibration Start Date: 04/20/2016 09:25 Calibration End Date: 04/20/2016 11:18 Calibration ID: 34082

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-226738/7	UXJ3918.D
Level 2	STD8260 240-226738/6	UXJ3917.D
Level 3	STD8260 240-226738/5	UXJ3916.D
Level 4	STD8260 240-226738/4	UXJ3915.D
Level 5	STD8260 240-226738/3	UXJ3914.D
Level 6	STD8260 240-226738/2	UXJ3913.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	16753 687059	24764	73293	168931	343221	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	21027 981904	40251	103310	202151	414277	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	19599 842542	38580	94638	197459	391317	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	20863 843274	35610	90453	196453	406404	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	8077 471856	18893	44173	90149	188191	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	9134 511461	19735	51025	102302	215402	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	21417 1148327	47595	112902	234360	487916	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	16621 934996	25074	82978	187944	422836	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	20256 1003554	45614	102342	210267	436820	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	9904 498950	20263	58803	113354	224076	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	15709 835919	33338	83806	176357	363494	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	11262 513736	17203	51344	107064	238857	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Qua	18588 353674	30376	67194	111312	184637	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	21691 1142117	46132	118576	227969	480620	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	43237 2085905	86687	208441	427543	902815	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	12789 741711	25458	72470	146207	306648	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 226738

SDG No.: _____

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

Calibration Start Date: 04/20/2016 09:25 Calibration End Date: 04/20/2016 11:18 Calibration ID: 34082

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	66541 3043716	133206	343860	664265	1354694	5.00 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Lin1	33322 958626	55112	114352	198287	403951	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Qua	12112 439468	24461	54879	105190	206633	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	67527 3132957	133393	339791	667246	1385042	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	57921 2979473	114072	302434	589527	1240391	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	24481 1200396	45845	120328	229231	499496	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	5545 258808	7515	24334	58343	127697	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	41658 2152926	84025	214262	407555	863011	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	33462 1821742	67246	176284	344217	739193	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	24284 1261099	49082	126714	241965	508885	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Qua	16736 631190	34504	82591	157037	282025	2.00 80.0	4.00	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	17188 898255	35651	87554	182509	387609	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobromomethane	FB	Ave	10311 602053	22486	60709	109505	245468	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	9777 447100	18661	47408	93868	196762	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	38933 1968856	75573	193971	365063	785088	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	25113 1341854	50944	131469	267414	557725	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	30305 1417924	49921	133788	316448	668456	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	31462 1652311	61657	152533	319788	673311	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	24262 1383111	47113	119059	265684	569044	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBZ	Ave	9468 455908	17892	54896	99034	199972	25.0 1000	50.0	125	250	500
1,2-Dichloroethane	FB	Ave	30253 1547987	56111	150637	281267	597216	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 226738

SDG No.: _____

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

Calibration Start Date: 04/20/2016 09:25 Calibration End Date: 04/20/2016 11:18 Calibration ID: 34082

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
Benzene	FB	Ave	95647 5077825	189614	485092	924179	1951960	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	6036 253562	7281	20072	54293	123071	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	22991 1271086	47793	117684	234338	502986	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	28504 1396455	44858	119474	301102	654166	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	20890 1184145	44732	114237	215707	454090	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	12610 617281	23484	59213	112455	241488	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	1753 127248	3507	10977	27635	57610	20.0 800	40.0	100	200	400
Dichlorobromomethane	FB	Ave	22328 1455894	47797	129817	250124	540568	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	22146 1291778	45631	121403	244624	526911	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	28463 1810453	58356	159695	313354	688713	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	28131 1434326	59004	146013	291224	601183	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	92228 5008452	179618	465269	915484	1903440	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	22424 1537454	47875	132307	263854	578146	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	19940 1265775	38702	110657	225869	488051	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	15971 853761	32386	85495	158863	332946	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	17027 887185	32105	82001	162833	345036	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	29703 1636645	62903	160318	301469	625858	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	21059 955569	41529	108799	201019	392136	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Ave	13884 931704	30025	80880	162772	350678	1.00 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBZ	Ave	14040 770187	29927	74550	147178	305623	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	48804 2493406	100273	253155	480058	1015287	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 226738

SDG No.: _____

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

Calibration Start Date: 04/20/2016 09:25 Calibration End Date: 04/20/2016 11:18 Calibration ID: 34082

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	15302 841625	30709	83559	157630	334053	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	23056 1328869	48010	125364	256727	542799	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	28706 1570100	56818	153485	292236	629631	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	26337 1398789	51289	138802	270056	562512	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	41534 2463643	87590	237800	458503	982173	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	5580 413440	12474	33462	71347	156550	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	55895 3003323	111917	297550	579657	1228366	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	13122 618987	26118	65688	123602	253927	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	14525 838587	31434	80607	157141	330842	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	4383 212146	8944	21522	43033	90956	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	2939 205526	5294	16293	33511	83117	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	13869 787561	27975	75924	152343	321287	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	12438 699853	25838	69780	133976	274770	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	35225 2213359	70803	198297	381799	838814	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	13474 752269	27136	72417	139156	299210	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	30103 1784066	60831	166551	324566	702451	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	36707 2274148	80094	202334	403166	887116	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	38964 2359892	79047	216423	438455	929774	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	26078 1360134	50213	131931	245689	534871	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	34930 2180373	70839	194607	380043	836582	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	25398 1425690	54751	139418	254312	552860	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 226738

SDG No.: _____

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

Calibration Start Date: 04/20/2016 09:25 Calibration End Date: 04/20/2016 11:18 Calibration ID: 34082

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	28845 1732720	59336	154740	313726	676812	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	23486 1328550	50472	128471	243581	531159	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	2230 107702	4450	11394	24206	49447	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	16767 733290	34033	83229	155723	338448	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	7852 312000	15938	36363	70519	147900	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	33734 1518789	69901	179262	356732	754128	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	15105 599573	31303	76370	144691	294641	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	20129 1049175	38007	100598	199235	422655	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	25285 1320718	47404	127217	247572	511011	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	80775 4236311	144383	395944	778818	1644843	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	15886 878450	32780	88477	170670	355125	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 BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 226549

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2016 14:03 Calibration End Date: 04/19/2016 15:56 Calibration ID: 34036

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-226549/7	UXC7217.D
Level 2	STD8260 240-226549/6	UXC7216.D
Level 3	STD8260 240-226549/5	UXC7215.D
Level 4	STD8260 240-226549/4	UXC7214.D
Level 5	STD8260 240-226549/3	UXC7213B.D
Level 6	STD8260 240-226549/2	UXC7212B.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	0.3471 0.3301	0.3069	0.3320	0.3029	0.3094	Ave		0.3214			0.1000	5.5		20.0			
Chloromethane	0.4510 0.3778	0.4178	0.4017	0.3954	0.3934	Ave		0.4062			0.1000	6.3		20.0			
Vinyl chloride	0.3677 0.3544	0.3463	0.3559	0.3474	0.3484	Ave		0.3534			0.1000	2.3		20.0			
Butadiene	0.3694 0.3365	0.3360	0.3378	0.3227	0.3248	Ave		0.3379				5.0		20.0			
Bromomethane	0.1384 0.0915	0.1058	0.1018	0.0811	0.0834	Lin1	0.0450	0.0863			0.0500			0.9950		0.9900	
Chloroethane	0.2099 0.1701	0.1827	0.1847	0.1721	0.1674	Ave		0.1811			0.0500	8.7		20.0			
Dichlorofluoromethane	0.5109 0.3999	0.4243	0.4265	0.3958	0.3927	Ave		0.4250				10.5		20.0			
Trichlorofluoromethane	0.2067 0.2133	0.1787	0.2029	0.1806	0.1814	Ave		0.1939			0.1000	7.9		20.0			
Ethyl ether	0.2388 0.2144	0.2406	0.2207	0.2236	0.2247	Ave		0.2271				4.6		20.0			
Acrolein	0.0317 0.0259	0.0278	0.0245	0.0282	0.0281	Ave		0.0277				8.9		20.0			
1,1-Dichloroethene	0.3141 0.2735	0.2937	0.2740	0.2702	0.2645	Ave		0.2817			0.1000	6.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2319 0.2070	0.1966	0.2034	0.1952	0.1917	Ave		0.2043			0.0500	7.2		20.0			
Acetone	0.1265 0.0766	0.1090	0.0720	0.0796	0.0833	Lin1	0.0956	0.0762			0.0100			0.9950		0.9900	
Iodomethane	0.4458 0.3991	0.4116	0.4109	0.4029	0.3847	Ave		0.4092				5.0		20.0			
Carbon disulfide	0.8989 0.8129	0.8305	0.8090	0.8002	0.7702	Ave		0.8203			0.1000	5.3		20.0			

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.: 240-64548-1 Analy Batch No.: 226549

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2016 14:03 Calibration End Date: 04/19/2016 15:56 Calibration ID: 34036

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	0.2052 0.1856	0.1838	0.1897	0.1894	0.1877	Ave		0.1902			4.0		20.0				
Methyl acetate	0.1834 0.1500	0.1755	0.1528	0.1560	0.1544	Ave		0.1620		0.1000	8.6		20.0				
Methylene Chloride	0.6943 0.2911	0.4793	0.3645	0.3263	0.3046	Lin1	0.4085	0.2824		0.1000				1.0000		0.9900	
2-Methyl-2-propanol	0.0139 0.0140	0.0195	0.0126	0.0161	0.0164	Ave		0.0154			16.1		20.0				
Methyl tert-butyl ether	0.7613 0.7099	0.7727	0.7022	0.7339	0.7224	Ave		0.7337		0.1000	3.8		20.0				
Acrylonitrile	0.0863 0.0794	0.0878	0.0805	0.0831	0.0824	Ave		0.0832			3.9		20.0				
trans-1,2-Dichloroethene	0.3271 0.2885	0.3113	0.2970	0.2989	0.2882	Ave		0.3018		0.1000	5.0		20.0				
Hexane	0.0754 0.0708	0.0696	0.0677	0.0640	0.0659	Ave		0.0689			5.8		20.0				
1,1-Dichloroethane	0.5547 0.5068	0.5416	0.5135	0.5201	0.5113	Ave		0.5247		0.2000	3.7		20.0				
Vinyl acetate	0.3703 0.3861	0.3445	0.3729	0.3674	0.3485	Ave		0.3650			4.3		20.0				
2,2-Dichloropropane	0.2791 0.2745	0.2642	0.2543	0.2625	0.2558	Ave		0.2651			3.7		20.0				
cis-1,2-Dichloroethene	0.3627 0.3168	0.3506	0.3237	0.3295	0.3180	Ave		0.3335		0.1000	5.7		20.0				
2-Butanone (MEK)	0.1096 0.0988	0.0987	0.0946	0.0988	0.1014	Ave		0.1003		0.0100	5.0		20.0				
Chlorobromomethane	0.1680 0.1479	0.1595	0.1524	0.1510	0.1504	Ave		0.1549			4.9		20.0				
Tetrahydrofuran	0.0783 0.0593	0.0809	0.0611	0.0633	0.0631	Ave		0.0677			13.8		20.0				
Chloroform	0.5420 0.4765	0.5229	0.4880	0.4968	0.4796	Ave		0.5010		0.2000	5.2		20.0				
1,1,1-Trichloroethane	0.3794 0.3446	0.3650	0.3420	0.3486	0.3366	Ave		0.3527		0.1000	4.6		20.0				
Cyclohexane	0.5068 0.4880	0.4817	0.4700	0.4613	0.4595	Ave		0.4779		0.1000	3.8		20.0				
1,1-Dichloropropene	0.4277 0.4031	0.4091	0.3964	0.4036	0.3862	Ave		0.4043			3.4		20.0				
Carbon tetrachloride	0.2977 0.3086	0.3027	0.2885	0.2995	0.2964	Ave		0.2989		0.1000	2.2		20.0				

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.: 240-64548-1 Analy Batch No.: 226549

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2016 14:03 Calibration End Date: 04/19/2016 15:56 Calibration ID: 34036

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6																
Isobutyl alcohol	0.0072 0.0054	0.0069	0.0050	0.0057	0.0060	Ave		0.0060			14.6		20.0				
Benzene	1.3282 1.1877	1.2532	1.1984	1.2091	1.1713	Ave		1.2247		0.5000	4.7		20.0				
1,2-Dichloroethane	0.3952 0.3489	0.3738	0.3603	0.3597	0.3548	Ave		0.3655		0.1000	4.6		20.0				
n-Heptane	0.0679 0.0669	0.0677	0.0633	0.0621	0.0613	Ave		0.0648			4.6		20.0				
Trichloroethene	0.3526 0.3167	0.3311	0.3127	0.3255	0.3117	Ave		0.3250		0.1500	4.8		20.0				
Methylcyclohexane	0.4539 0.4547	0.4525	0.4263	0.4312	0.4306	Ave		0.4415		0.1000	3.1		20.0				
1,2-Dichloropropane	0.2966 0.2771	0.2789	0.2755	0.2794	0.2754	Ave		0.2805		0.1000	2.9		20.0				
Dibromomethane	0.1732 0.1495	0.1593	0.1520	0.1520	0.1515	Ave		0.1562			5.7		20.0				
1,4-Dioxane	0.0014 0.0017	0.0028	0.0015	0.0024	0.0026	Ave		0.0021			28.2	*	20.0				
Dichlorobromomethane	0.3453 0.3475	0.3413	0.3315	0.3434	0.3414	Ave		0.3417		0.1500	1.6		20.0				
2-Chloroethyl vinyl ether	0.1589 0.1513	0.1520	0.1530	0.1510	0.1514	Ave		0.1529			2.0		20.0				
cis-1,3-Dichloropropene	0.4366 0.4572	0.4412	0.4355	0.4487	0.4470	Ave		0.4444		0.1500	1.9		20.0				
4-Methyl-2-pentanone (MIBK)	0.2133 0.1890	0.1962	0.1836	0.1875	0.1931	Ave		0.1938		0.0500	5.4		20.0				
Toluene	1.9416 1.7590	1.7545	1.7575	1.6902	1.6280	Ave		1.7551		0.4000	6.0		20.0				
trans-1,3-Dichloropropene	0.5272 0.5519	0.4923	0.5185	0.5020	0.5117	Ave		0.5173		0.1000	4.0		20.0				
Ethyl methacrylate	0.4236 0.4292	0.3940	0.4231	0.4090	0.4128	Ave		0.4153			3.1		20.0				
1,1,2-Trichloroethane	0.3555 0.3088	0.3139	0.3196	0.3020	0.2980	Ave		0.3163		0.1000	6.6		20.0				
Tetrachloroethene	0.3755 0.3437	0.3463	0.3402	0.3367	0.3207	Ave		0.3438		0.1500	5.2		20.0				
1,3-Dichloropropane	0.6321 0.5715	0.5917	0.5811	0.5547	0.5460	Ave		0.5795			5.3		20.0				
2-Hexanone	0.2037 0.1942	0.1875	0.2033	0.1823	0.1920	Ave		0.1938		0.0500	4.4		20.0				

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.: 240-64548-1 Analy Batch No.: 226549

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2016 14:03 Calibration End Date: 04/19/2016 15:56 Calibration ID: 34036

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	0.3299 0.3551	0.3186	0.3202	0.3271	0.3368	Ave		0.3313			4.0		20.0				
Ethylene Dibromide	0.3402 0.3127	0.3133	0.3145	0.3096	0.3071	Ave		0.3162			3.8		20.0				
Chlorobenzene	1.2271 1.1235	1.1980	1.1293	1.1345	1.0881	Ave		1.1501		0.3000	4.5		20.0				
1,1,1,2-Tetrachloroethane	0.3669 0.3711	0.3682	0.3391	0.3678	0.3646	Ave		0.3630			3.3		20.0				
Ethylbenzene	0.6182 0.5985	0.6224	0.5865	0.6064	0.5830	Ave		0.6025			2.7		20.0				
m-Xylene & p-Xylene	1.5575 1.4725	1.5184	1.4246	1.4731	1.4267	Ave		1.4788			3.5		20.0				
o-Xylene	0.7518 0.7205	0.7839	0.7010	0.7440	0.7210	Ave		0.7370			4.0		20.0				
Styrene	1.2788 1.2491	1.3106	1.2024	1.2744	1.2347	Ave		1.2583		0.3000	3.0		20.0				
Bromoform	0.1778 0.2063	0.1792	0.1786	0.1903	0.2007	Ave		0.1888		0.1000	6.6		20.0				
Isopropylbenzene	1.8080 1.7381	1.8381	1.6422	1.7915	1.7230	Ave		1.7568		0.1000	4.0		20.0				
1,1,2,2-Tetrachloroethane	0.8316 0.7455	0.7294	0.7450	0.7351	0.7307	Ave		0.7529		0.3000	5.2		20.0				
Bromobenzene	1.0697 0.9835	0.9784	0.9717	0.9719	0.9263	Ave		0.9836			4.8		20.0				
1,2,3-Trichloropropane	0.2770 0.2382	0.2427	0.2396	0.2354	0.2316	Ave		0.2441			6.8		20.0				
trans-1,4-Dichloro-2-butene	0.2547 0.2599	0.2390	0.2373	0.2328	0.2404	Ave		0.2440			4.4		20.0				
N-Propylbenzene	1.0761 1.0159	0.9460	0.9523	0.9871	0.9379	Ave		0.9859			5.4		20.0				
2-Chlorotoluene	0.9235 0.8623	0.8689	0.8259	0.8617	0.8111	Ave		0.8589			4.6		20.0				
1,3,5-Trimethylbenzene	2.9089 2.8897	2.8395	2.7006	2.8752	2.7489	Ave		2.8271			3.0		20.0				
4-Chlorotoluene	3.2123 2.9663	2.9398	2.8414	2.9128	2.7780	Ave		2.9418			5.1		20.0				
tert-Butylbenzene	2.5087 2.4128	2.4313	2.2709	2.4021	2.2949	Ave		2.3868			3.7		20.0				
1,2,4-Trimethylbenzene	2.9567 2.9303	2.9282	2.7726	2.9354	2.8184	Ave		2.8903			2.6		20.0				

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.: 240-64548-1 Analy Batch No.: 226549

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2016 14:03 Calibration End Date: 04/19/2016 15:56 Calibration ID: 34036

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	3.2646 3.2221	3.1263	2.9438	3.1900	3.0460	Ave		3.1321			3.8		20.0				
1,3-Dichlorobenzene	1.8157 1.6256	1.7516	1.6064	1.6627	1.5873	Ave		1.6749		0.6000	5.4		20.0				
4-Isopropyltoluene	2.7742 2.7982	2.7666	2.5882	2.8108	2.6707	Ave		2.7348			3.2		20.0				
1,4-Dichlorobenzene	1.8427 1.6422	1.7444	1.6411	1.6952	1.6135	Ave		1.6965		0.5000	5.0		20.0				
n-Butylbenzene	2.1545 2.1962	2.1672	1.9992	2.2013	2.1354	Ave		2.1423			3.5		20.0				
1,2-Dichlorobenzene	1.6402 1.4696	1.6168	1.4667	1.5648	1.5017	Ave		1.5433		0.4000	4.9		20.0				
1,2-Dibromo-3-Chloropropane	0.1100 0.1271	0.1318	0.1127	0.1294	0.1347	Ave		0.1243		0.0500	8.3		20.0				
1,2,4-Trichlorobenzene	1.0572 0.8855	1.1331	0.9146	1.0691	1.0176	Ave		1.0128		0.2000	9.4		20.0				
Hexachlorobutadiene	0.4949 0.3841	0.5226	0.4232	0.4794	0.4531	Ave		0.4595			11.0		20.0				
Naphthalene	2.3904 2.0077	2.5111	2.1076	2.4312	2.3866	Ave		2.3058			8.7		20.0				
1,2,3-Trichlorobenzene	0.9975 0.7620	1.0359	0.8536	0.9809	0.9426	Ave		0.9288			11.0		20.0				
Dibromofluoromethane (Surr)	0.2698 0.2571	0.2523	0.2589	0.2641	0.2627	Ave		0.2608			2.3		20.0				
1,2-Dichloroethane-d4 (Surr)	0.3490 0.2969	0.3111	0.3103	0.3044	0.3046	Ave		0.3127			5.9		20.0				
Toluene-d8 (Surr)	1.6206 1.5439	1.4388	1.5579	1.4912	1.4576	Ave		1.5183			4.5		20.0				
4-Bromofluorobenzene (Surr)	0.5620 0.5439	0.5728	0.5406	0.5709	0.5537	Ave		0.5573			2.4		20.0				

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.: 240-64548-1 Analy Batch No.: 226549

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2016 14:03 Calibration End Date: 04/19/2016 15:56 Calibration ID: 34036

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-226549/7	UXC7217.D
Level 2	STD8260 240-226549/6	UXC7216.D
Level 3	STD8260 240-226549/5	UXC7215.D
Level 4	STD8260 240-226549/4	UXC7214.D
Level 5	STD8260 240-226549/3	UXC7213B.D
Level 6	STD8260 240-226549/2	UXC7212B.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	33123 1330189	59449	160549	295285	610306	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	43043 1522792	80926	194209	385478	775908	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	35089 1428487	67070	172076	338697	687290	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	35256 1356281	65075	163315	314605	640693	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Lin1	13212 368867	20485	49204	79078	164584	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	20031 685613	35380	89306	167770	330242	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	48758 1611765	82180	206216	385925	774557	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	19723 859592	34620	98124	176048	357752	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	22795 863972	46605	106704	217995	443238	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	15126 521545	26927	59121	137533	276973	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	29980 1102249	56888	132492	263402	521705	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	22134 834391	38077	98368	190362	378193	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	24138 617760	42216	69643	155193	328673	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	42544 1608271	79726	198658	392869	758730	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	85795 3276078	160846	391184	780197	1519238	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	19581 747945	35601	91738	184619	370193	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 226549

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2016 14:03 Calibration End Date: 04/19/2016 15:56 Calibration ID: 34036

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	87538 3022355	169945	369312	760503	1522308	5.00 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Lin1	66259 1173188	92841	176230	318113	600873	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	13264 565603	37843	60778	156556	324196	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	72655 2860817	149666	339526	715583	1424927	1.00 40.0	2.00	5.00	10.0	20.0
Acrylonitrile	FB	Ave	82377 3199922	169960	389039	809816	1624497	10.0 400	20.0	50.0	100	200
trans-1,2-Dichloroethene	FB	Ave	31220 1162503	60300	143614	291447	568471	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	7196 285359	13484	32755	62376	130068	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	52944 2042360	104906	248271	507130	1008552	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	35339 1556073	66725	180316	358174	687472	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	26640 1106224	51176	122979	255960	504632	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	34613 1276673	67908	156499	321229	627236	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	20927 796487	38234	91441	192615	399822	2.00 80.0	4.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	16032 595882	30890	73709	147253	296654	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	14939 478338	31333	59108	123466	249109	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	51732 1920357	101278	235955	484391	946015	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	36213 1388698	70694	165365	339910	663988	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	48365 1966606	93291	227253	449734	906407	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	40818 1624690	79232	191643	393513	761765	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	28412 1243505	58625	139497	291970	584605	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	FB	Ave	17223 540024	33354	60012	139288	293664	25.0 1000	50.0	125	250	500
Benzene	FB	Ave	126766 4786694	242730	579444	1178904	2310431	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 226549

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2016 14:03 Calibration End Date: 04/19/2016 15:56 Calibration ID: 34036

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	37715 1406223	72403	174195	350744	699903	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	6479 269419	13112	30589	60527	120889	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	33648 1276190	64125	151203	317396	614862	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	43323 1832695	87642	206102	420427	849423	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	28303 1116918	54020	133201	272445	543280	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	16528 602405	30845	73495	148223	298736	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	2742 135641	10785	14824	46873	100885	20.0 800	40.0	100	200	400
Dichlorobromomethane	FB	Ave	32954 1400578	66111	160279	334768	673478	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	30328 1219158	58861	147961	294435	597089	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	41668 1842686	85448	210585	437485	881741	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	40705 1523063	76020	177539	365539	761740	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	129872 5014754	253536	597673	1244431	2411068	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	35266 1573494	71141	176321	369636	757885	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	28337 1223468	56933	143879	301135	611342	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	23782 880328	45355	108703	222356	441332	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	25117 979721	50038	115696	247915	474949	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	42278 1629263	85499	197630	408370	808689	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	27247 1107177	54197	138308	268394	568776	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Ave	22064 1012286	46036	108906	240826	498752	1.00 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBZ	Ave	22757 891367	45280	106947	227935	454831	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	82082 3202858	173117	384062	835316	1611547	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

Analy Batch No.: 226549

SDG No.: _____

Instrument ID: A3UX15

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2016 14:03

Calibration End Date: 04/19/2016 15:56

Calibration ID: 34036

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	24543 1057952	53212	115318	270827	540006	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	41349 1706259	89944	199443	446487	863375	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	104182 4197833	219421	484482	1084578	2112990	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	50287 2054146	113279	238379	547764	1067759	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	85534 3560947	189396	408921	938302	1828618	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	11892 588278	25896	60736	140104	297274	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	120933 4955212	265620	558459	1319012	2551737	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	26015 1000688	54963	120307	272776	546975	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	33462 1320016	73723	156913	360628	693432	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	8666 319776	18289	38697	87351	173386	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	7968 348896	18008	38319	86366	179941	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	33662 1363625	71281	153785	366260	702097	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	28890 1157400	65469	133373	319730	607198	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	90994 3878645	213954	436116	1066853	2057746	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	100487 3981433	221514	458840	1080788	2079535	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	78475 3238555	183196	366721	891285	1717927	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	92491 3933145	220637	447740	1089171	2109782	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	102121 4324845	235563	475379	1183633	2280159	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	56797 2181933	131980	259414	616925	1188242	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	86781 3755791	208460	417964	1042941	1999235	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	57644 2204142	131438	265023	629017	1207842	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 226549

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2016 14:03 Calibration End Date: 04/19/2016 15:56 Calibration ID: 34036

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	67395 2947784	163299	322840	816808	1598504	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	51309 1972568	121827	236860	580632	1124175	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	3442 170609	9934	18203	48011	100820	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	33070 1188557	85379	147691	396689	761773	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	15482 515487	39377	68338	177888	339198	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	74775 2694767	189211	340357	902112	1786580	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	31202 1022734	78057	137852	363979	705591	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	25751 1036019	48860	125187	257458	518253	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	33309 1196389	60251	150055	296824	600852	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	108399 4401578	207910	529809	1097933	2158803	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	37592 1550581	82780	183856	420337	820106	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.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: ICV 240-226738/14 Calibration Date: 04/20/2016 12:08
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ3919.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	0.1736	0.1832	0.1000	0.0106	0.0100	5.5	20.0
Chloromethane	Ave	0.2332	0.2453	0.1000	0.0105	0.0100	5.2	20.0
Vinyl chloride	Ave	0.2175	0.2228	0.1000	0.0102	0.0100	2.4	20.0
Butadiene	Ave	0.2163	0.2282		0.0105	0.0100	5.5	30.0
Bromomethane	Ave	0.1032	0.1072	0.0500	0.0104	0.0100	3.8	20.0
Chloroethane	Ave	0.1149	0.1208	0.0500	0.0105	0.0100	5.2	20.0
Dichlorofluoromethane	Ave	0.2640	0.2821		0.0107	0.0100	6.9	20.0
Trichlorofluoromethane	Ave	0.1964	0.2188	0.1000	0.0111	0.0100	11.4	20.0
Ethyl ether	Ave	0.2416	0.2170		0.00898	0.0100	-10.2	20.0
Acrolein	Ave	0.0244	0.0347		0.0709	0.0500	41.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1194	0.1397	0.0500	0.0117	0.0100	17.0	20.0
1,1-Dichloroethene	Ave	0.1933	0.2129	0.1000	0.0110	0.0100	10.1	20.0
Acetone	Qua		0.0534	0.0100	0.0172	0.0200	-14.1	50.0
Iodomethane	Ave	0.2630	0.2945		0.0112	0.0100	12.0	20.0
Carbon disulfide	Ave	0.4914	0.5391	0.1000	0.0110	0.0100	9.7	20.0
3-Chloro-1-propene	Ave	0.1606	0.1759		0.0109	0.0100	9.5	20.0
Methyl acetate	Ave	0.1514	0.1447	0.1000	0.0478	0.0500	-4.4	20.0
Methylene Chloride	Lin1		0.2351	0.1000	0.0107	0.0100	6.7	50.0
2-Methyl-2-propanol	Qua		0.0110		0.0911	0.100	-8.9	50.0
Acrylonitrile	Ave	0.0764	0.0725		0.0949	0.100	-5.1	20.0
Methyl tert-butyl ether	Ave	0.6769	0.6511	0.1000	0.00962	0.0100	-3.8	20.0
trans-1,2-Dichloroethene	Ave	0.2727	0.2754	0.1000	0.0101	0.0100	1.0	20.0
Hexane	Ave	0.0595	0.0747		0.0126	0.0100	25.6*	20.0
1,1-Dichloroethane	Ave	0.4826	0.4668	0.2000	0.00967	0.0100	-3.3	20.0
Vinyl acetate	Ave	0.3993	0.3822		0.00957	0.0100	-4.3	50.0
2-Butanone (MEK)	Qua		0.0769	0.0100	0.0182	0.0200	-9.2	20.0
cis-1,2-Dichloroethene	Ave	0.2836	0.2703	0.1000	0.00953	0.0100	-4.7	20.0
2,2-Dichloropropane	Ave	0.2057	0.2000		0.00972	0.0100	-2.8	20.0
Chlorobromomethane	Ave	0.1310	0.1285		0.00981	0.0100	-1.9	20.0
Tetrahydrofuran	Ave	0.0541	0.0497		0.0184	0.0200	-8.2	20.0
Chloroform	Ave	0.4390	0.4218	0.2000	0.00961	0.0100	-3.9	20.0
1,1,1-Trichloroethane	Ave	0.3009	0.2922	0.1000	0.00971	0.0100	-2.9	20.0
Cyclohexane	Ave	0.3324	0.3681	0.1000	0.0111	0.0100	10.7	20.0
1,1-Dichloropropene	Ave	0.3640	0.3585		0.00985	0.0100	-1.5	20.0
Carbon tetrachloride	Ave	0.2924	0.3046	0.1000	0.0104	0.0100	4.1	20.0
Isobutyl alcohol	Ave	0.0079	0.0069		0.216	0.250	-13.6	20.0
1,2-Dichloroethane	Ave	0.3372	0.3165	0.1000	0.00939	0.0100	-6.1	20.0
Benzene	Ave	1.102	1.045	0.5000	0.00948	0.0100	-5.2	20.0
n-Heptane	Ave	0.0573	0.0623		0.0109	0.0100	8.8	20.0
Trichloroethene	Ave	0.2747	0.2646	0.1500	0.00963	0.0100	-3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: ICV 240-226738/14 Calibration Date: 04/20/2016 12:08
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ3919.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	0.3130	0.3286	0.1000	0.0105	0.0100	5.0	20.0
1,2-Dichloropropane	Ave	0.2550	0.2450	0.1000	0.00961	0.0100	-3.9	20.0
Dibromomethane	Ave	0.1368	0.1239		0.00905	0.0100	-9.5	20.0
1,4-Dioxane	Ave	0.0013	0.0014		0.209	0.200	4.4	50.0
Dichlorobromomethane	Ave	0.2905	0.2754	0.1500	0.00948	0.0100	-5.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1383	0.1237		0.00894	0.0100	-10.6	20.0
cis-1,3-Dichloropropene	Ave	0.3627	0.3502	0.1500	0.00966	0.0100	-3.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1664	0.1500	0.0500	0.0180	0.0200	-9.9	20.0
Toluene	Ave	1.913	1.832	0.4000	0.00957	0.0100	-4.3	20.0
trans-1,3-Dichloropropene	Ave	0.5393	0.5082	0.1000	0.00942	0.0100	-5.8	20.0
Ethyl methacrylate	Ave	0.4536	0.4422		0.00975	0.0100	-2.5	20.0
1,1,2-Trichloroethane	Ave	0.3368	0.3069	0.1000	0.00911	0.0100	-8.9	20.0
Tetrachloroethene	Ave	0.3431	0.3250	0.1500	0.00947	0.0100	-5.3	20.0
1,3-Dichloropropane	Ave	0.6387	0.5900		0.00924	0.0100	-7.6	20.0
2-Hexanone	Ave	0.2088	0.1799	0.0500	0.0172	0.0200	-13.9	20.0
Chlorodibromomethane	Ave	0.3313	0.3095		0.00934	0.0100	-6.6	20.0
Ethylene Dibromide	Ave	0.3044	0.2959		0.00972	0.0100	-2.8	20.0
Chlorobenzene	Ave	1.017	0.9260	0.3000	0.00911	0.0100	-8.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3289	0.3051		0.00928	0.0100	-7.2	20.0
Ethylbenzene	Ave	0.5153	0.5031		0.00976	0.0100	-2.4	20.0
m-Xylene & p-Xylene	Ave	0.6121	0.5846		0.00955	0.0100	-4.5	20.0
o-Xylene	Ave	0.5540	0.5080		0.00917	0.0100	-8.3	20.0
Styrene	Ave	0.9423	0.8833	0.3000	0.00937	0.0100	-6.3	20.0
Bromoform	Ave	0.1416	0.1367	0.1000	0.00965	0.0100	-3.5	20.0
Isopropylbenzene	Ave	1.194	1.136	0.1000	0.00952	0.0100	-4.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7065	0.6338	0.3000	0.00897	0.0100	-10.3	20.0
Bromobenzene	Ave	0.8748	0.7988		0.00913	0.0100	-8.7	20.0
1,2,3-Trichloropropane	Ave	0.2415	0.2268		0.00939	0.0100	-6.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1856	0.1635		0.00881	0.0100	-11.9	20.0
N-Propylbenzene	Ave	0.8245	0.7688		0.00933	0.0100	-6.7	20.0
2-Chlorotoluene	Ave	0.7374	0.6723		0.00912	0.0100	-8.8	20.0
1,3,5-Trimethylbenzene	Ave	2.144	2.022		0.00943	0.0100	-5.7	20.0
4-Chlorotoluene	Ave	0.7829	0.7301		0.00933	0.0100	-6.7	20.0
tert-Butylbenzene	Ave	1.803	1.688		0.00936	0.0100	-6.4	20.0
1,2,4-Trimethylbenzene	Ave	2.265	2.082		0.00919	0.0100	-8.1	20.0
sec-Butylbenzene	Ave	2.370	2.197		0.00927	0.0100	-7.3	20.0
1,3-Dichlorobenzene	Ave	1.432	1.293	0.6000	0.00902	0.0100	-9.8	20.0
4-Isopropyltoluene	Ave	2.126	1.968		0.00925	0.0100	-7.5	20.0
1,4-Dichlorobenzene	Ave	1.490	1.346	0.5000	0.00903	0.0100	-9.7	20.0
n-Butylbenzene	Ave	1.732	1.588		0.00917	0.0100	-8.3	20.0
1,2-Dichlorobenzene	Ave	1.394	1.294	0.4000	0.00929	0.0100	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: ICV 240-226738/14 Calibration Date: 04/20/2016 12:08
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ3919.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	0.1265	0.1156	0.0500	0.00914	0.0100	-8.6	50.0
1,2,4-Trichlorobenzene	Ave	0.8993	0.7381	0.2000	0.00821	0.0100	-17.9	50.0
Hexachlorobutadiene	Ave	0.4046	0.3227		0.00798	0.0100	-20.2*	20.0
Naphthalene	Ave	1.915	1.563		0.00816	0.0100	-18.4	50.0
1,2,3-Trichlorobenzene	Ave	0.8053	0.6126		0.00761	0.0100	-23.9*	20.0
Dibromofluoromethane (Surr)	Ave	0.2304	0.2593		0.0113	0.0100	12.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2872	0.3152		0.0110	0.0100	9.8	20.0
Toluene-d8 (Surr)	Ave	1.622	1.844		0.0114	0.0100	13.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3483	0.3867		0.0111	0.0100	11.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: ICV 240-226738/15 Calibration Date: 04/20/2016 14:47
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 12:31
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 14:24
 Lab File ID: UXJ3926.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	0.0197	0.0213		0.108	0.100	7.7	20.0
Isopropyl ether	Ave	0.2267	0.2431		0.0107	0.0100	7.3	20.0
2-Chloro-1,3-butadiene	Ave	0.3888	0.4018		0.0103	0.0100	3.3	20.0
Tert-butyl ethyl ether	Ave	0.6903	0.7169		0.0104	0.0100	3.8	20.0
Ethyl acetate	Ave	0.1764	0.1871		0.0212	0.0200	6.0	50.0
Propionitrile	Ave	0.0243	0.0246		0.101	0.100	1.2	20.0
Methacrylonitrile	Ave	0.1323	0.1358		0.103	0.100	2.7	20.0
Tert-amyl methyl ether	Ave	0.6160	0.6225		0.0101	0.0100	1.1	20.0
n-Butanol	Ave	0.0053	0.0048		0.223	0.250	-10.8	20.0
Methyl methacrylate	Ave	0.1805	0.1852		0.0205	0.0200	2.6	20.0
2-Nitropropane	Ave	0.0409	0.0406		0.0198	0.0200	-0.9	20.0
1-Chlorohexane	Ave	0.4151	0.3997		0.00963	0.0100	-3.7	20.0
Cyclohexanone	Ave	0.0165	0.0166		0.101	0.100	0.8	20.0
1,2,3-Trimethylbenzene	Ave	2.204	2.204		0.0100	0.0100	-0.0	20.0
1,3,5-Trichlorobenzene	Ave	0.9682	0.8891		0.00918	0.0100	-8.2	20.0
2-Methylnaphthalene	Ave	1.247	0.4679		0.00750	0.0200	-62.5*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-230196/2 Calibration Date: 05/13/2016 09:07
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ4602.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	0.1736	0.1793	0.1000	0.0103	0.0100	3.3	20.0
Chloromethane	Ave	0.2332	0.2565	0.1000	0.0110	0.0100	10.0	20.0
Vinyl chloride	Ave	0.2175	0.2173	0.1000	0.00999	0.0100	-0.1	20.0
Butadiene	Ave	0.2163	0.2084		0.00963	0.0100	-3.7	20.0
Bromomethane	Ave	0.1032	0.0970	0.0500	0.00939	0.0100	-6.1	20.0
Chloroethane	Ave	0.1149	0.1156	0.0500	0.0101	0.0100	0.7	20.0
Dichlorofluoromethane	Ave	0.2640	0.2751		0.0104	0.0100	4.2	20.0
Trichlorofluoromethane	Ave	0.1964	0.2419	0.1000	0.0123	0.0100	23.2*	20.0
Ethyl ether	Ave	0.2416	0.2282		0.00945	0.0100	-5.5	20.0
Acrolein	Ave	0.0244	0.0312		0.0638	0.0500	27.5	50.0
1,1-Dichloroethene	Ave	0.1933	0.1948	0.1000	0.0101	0.0100	0.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1194	0.1230	0.0500	0.0103	0.0100	3.0	20.0
Acetone	Qua		0.0650	0.0100	0.0222	0.0200	11.2	50.0
Iodomethane	Ave	0.2630	0.2568		0.00977	0.0100	-2.3	20.0
Carbon disulfide	Ave	0.4914	0.4748	0.1000	0.00966	0.0100	-3.4	20.0
3-Chloro-1-propene	Ave	0.1606	0.1719		0.0107	0.0100	7.0	20.0
Methyl acetate	Ave	0.1514	0.1250	0.1000	0.0413	0.0500	-17.4	20.0
Methylene Chloride	Lin1		0.2392	0.1000	0.0109	0.0100	8.8	50.0
2-Methyl-2-propanol	Qua		0.0091		0.0743	0.100	-25.7	50.0
Acrylonitrile	Ave	0.0764	0.0658		0.0861	0.100	-13.9	20.0
Methyl tert-butyl ether	Ave	0.6769	0.6216	0.1000	0.00918	0.0100	-8.2	20.0
trans-1,2-Dichloroethene	Ave	0.2727	0.2684	0.1000	0.00984	0.0100	-1.6	20.0
Hexane	Ave	0.0595	0.0554		0.00932	0.0100	-6.8	20.0
1,1-Dichloroethane	Ave	0.4826	0.4566	0.2000	0.00946	0.0100	-5.4	20.0
Vinyl acetate	Ave	0.3993	0.3449		0.00864	0.0100	-13.6	50.0
cis-1,2-Dichloroethene	Ave	0.2836	0.2711	0.1000	0.00956	0.0100	-4.4	20.0
2,2-Dichloropropane	Ave	0.2057	0.1870		0.00909	0.0100	-9.1	20.0
2-Butanone (MEK)	Qua		0.0694	0.0100	0.0162	0.0200	-19.2	20.0
Chlorobromomethane	Ave	0.1310	0.1267		0.00967	0.0100	-3.3	20.0
Tetrahydrofuran	Ave	0.0541	0.0433		0.0160	0.0200	-19.9	20.0
Chloroform	Ave	0.4390	0.4186	0.2000	0.00953	0.0100	-4.7	20.0
1,1,1-Trichloroethane	Ave	0.3009	0.2787	0.1000	0.00926	0.0100	-7.4	20.0
Cyclohexane	Ave	0.3324	0.2896	0.1000	0.00871	0.0100	-12.9	20.0
1,1-Dichloropropene	Ave	0.3640	0.3349		0.00920	0.0100	-8.0	20.0
Carbon tetrachloride	Ave	0.2924	0.2753	0.1000	0.00941	0.0100	-5.9	20.0
Isobutyl alcohol	Ave	0.0079	0.0061		0.191	0.250	-23.4*	20.0
1,2-Dichloroethane	Ave	0.3372	0.3015	0.1000	0.00894	0.0100	-10.6	20.0
Benzene	Ave	1.102	1.047	0.5000	0.00950	0.0100	-5.0	20.0
n-Heptane	Ave	0.0573	0.0491		0.00857	0.0100	-14.3	20.0
Trichloroethene	Ave	0.2747	0.2662	0.1500	0.00969	0.0100	-3.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-230196/2 Calibration Date: 05/13/2016 09:07
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ4602.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	0.3130	0.2798	0.1000	0.00894	0.0100	-10.6	20.0
1,2-Dichloropropane	Ave	0.2550	0.2397	0.1000	0.00940	0.0100	-6.0	20.0
Dibromomethane	Ave	0.1368	0.1167		0.00853	0.0100	-14.7	20.0
1,4-Dioxane	Ave	0.0013	0.0010		0.146	0.200	-27.0	50.0
Dichlorobromomethane	Ave	0.2905	0.2786	0.1500	0.00959	0.0100	-4.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1383	0.1129		0.0163	0.0200	-18.4	20.0
cis-1,3-Dichloropropene	Ave	0.3627	0.3373	0.1500	0.00930	0.0100	-7.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1664	0.1240	0.0500	0.0149	0.0200	-25.5*	20.0
Toluene	Ave	1.913	1.908	0.4000	0.00997	0.0100	-0.3	20.0
trans-1,3-Dichloropropene	Ave	0.5393	0.5204	0.1000	0.00965	0.0100	-3.5	20.0
Ethyl methacrylate	Ave	0.4536	0.4176		0.00921	0.0100	-7.9	20.0
1,1,2-Trichloroethane	Ave	0.3368	0.3082	0.1000	0.00915	0.0100	-8.5	20.0
Tetrachloroethene	Ave	0.3431	0.3487	0.1500	0.0102	0.0100	1.6	20.0
1,3-Dichloropropane	Ave	0.6387	0.5760		0.00902	0.0100	-9.8	20.0
2-Hexanone	Ave	0.2088	0.1650	0.0500	0.0158	0.0200	-21.0*	20.0
Chlorodibromomethane	Ave	0.3313	0.3178		0.00959	0.0100	-4.1	20.0
Ethylene Dibromide	Ave	0.3044	0.2724		0.00895	0.0100	-10.5	20.0
Chlorobenzene	Ave	1.017	0.9562	0.3000	0.00941	0.0100	-5.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3289	0.3064		0.00932	0.0100	-6.8	20.0
Ethylbenzene	Ave	0.5153	0.4927		0.00956	0.0100	-4.4	20.0
m-Xylene & p-Xylene	Ave	0.6121	0.5681		0.00928	0.0100	-7.2	20.0
o-Xylene	Ave	0.5540	0.5069		0.00915	0.0100	-8.5	20.0
Styrene	Ave	0.9423	0.8480	0.3000	0.00900	0.0100	-10.0	20.0
Bromoform	Ave	0.1416	0.1248	0.1000	0.00882	0.0100	-11.8	20.0
Isopropylbenzene	Ave	1.194	1.065	0.1000	0.00892	0.0100	-10.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7065	0.5122	0.3000	0.00725	0.0100	-27.5*	20.0
Bromobenzene	Ave	0.8748	0.7535		0.00861	0.0100	-13.9	20.0
1,2,3-Trichloropropane	Ave	0.2415	0.1663		0.00689	0.0100	-31.1*	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1856	0.1163		0.00627	0.0100	-37.3*	20.0
N-Propylbenzene	Ave	0.8245	0.6893		0.00836	0.0100	-16.4	20.0
2-Chlorotoluene	Ave	0.7374	0.6126		0.00831	0.0100	-16.9	20.0
1,3,5-Trimethylbenzene	Ave	2.144	1.927		0.00899	0.0100	-10.1	20.0
4-Chlorotoluene	Ave	0.7829	0.6724		0.00859	0.0100	-14.1	20.0
tert-Butylbenzene	Ave	1.803	1.537		0.00853	0.0100	-14.7	20.0
1,2,4-Trimethylbenzene	Ave	2.265	2.045		0.00903	0.0100	-9.7	20.0
sec-Butylbenzene	Ave	2.370	2.124		0.00896	0.0100	-10.4	20.0
1,3-Dichlorobenzene	Ave	1.432	1.304	0.6000	0.00911	0.0100	-8.9	20.0
4-Isopropyltoluene	Ave	2.126	1.966		0.00925	0.0100	-7.5	20.0
1,4-Dichlorobenzene	Ave	1.490	1.375	0.5000	0.00923	0.0100	-7.7	20.0
n-Butylbenzene	Ave	1.732	1.589		0.00917	0.0100	-8.3	20.0
1,2-Dichlorobenzene	Ave	1.394	1.295	0.4000	0.00929	0.0100	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-230196/2 Calibration Date: 05/13/2016 09:07
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ4602.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	0.1265	0.0917	0.0500	0.00725	0.0100	-27.5	50.0
1,2,4-Trichlorobenzene	Ave	0.8993	0.7309	0.2000	0.00813	0.0100	-18.7	50.0
Hexachlorobutadiene	Ave	0.4046	0.3679		0.00909	0.0100	-9.1	20.0
Naphthalene	Ave	1.915	1.226		0.00640	0.0100	-36.0	50.0
1,2,3-Trichlorobenzene	Ave	0.8053	0.5731		0.00712	0.0100	-28.8*	20.0
Dibromofluoromethane (Surr)	Ave	0.2304	0.2141		0.0111	0.0120	-7.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2872	0.2449		0.0102	0.0120	-14.7	20.0
Toluene-d8 (Surr)	Ave	1.622	1.551		0.0114	0.0120	-4.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3483	0.3038		0.0104	0.0120	-12.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-230444/2 Calibration Date: 05/16/2016 07:37
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ4654.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	0.1736	0.1571	0.1000	0.00905	0.0100	-9.5	20.0
Chloromethane	Ave	0.2332	0.2313	0.1000	0.00992	0.0100	-0.8	20.0
Vinyl chloride	Ave	0.2175	0.1973	0.1000	0.00907	0.0100	-9.3	20.0
Butadiene	Ave	0.2163	0.1801		0.00832	0.0100	-16.8	20.0
Bromomethane	Ave	0.1032	0.1061	0.0500	0.0103	0.0100	2.8	20.0
Chloroethane	Ave	0.1149	0.1201	0.0500	0.0105	0.0100	4.6	20.0
Dichlorofluoromethane	Ave	0.2640	0.2685		0.0102	0.0100	1.7	20.0
Trichlorofluoromethane	Ave	0.1964	0.2100	0.1000	0.0107	0.0100	6.9	20.0
Ethyl ether	Ave	0.2416	0.2331		0.00965	0.0100	-3.5	20.0
Acrolein	Ave	0.0244	0.0288		0.0589	0.0500	17.8	50.0
1,1-Dichloroethene	Ave	0.1933	0.1957	0.1000	0.0101	0.0100	1.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1194	0.1368	0.0500	0.0115	0.0100	14.6	20.0
Acetone	Qua		0.0610	0.0100	0.0205	0.0200	2.3	50.0
Iodomethane	Ave	0.2630	0.2904		0.0110	0.0100	10.4	20.0
Carbon disulfide	Ave	0.4914	0.5239	0.1000	0.0107	0.0100	6.6	20.0
3-Chloro-1-propene	Ave	0.1606	0.1794		0.0112	0.0100	11.7	20.0
Methyl acetate	Ave	0.1514	0.1338	0.1000	0.0442	0.0500	-11.6	20.0
Methylene Chloride	Lin1		0.2501	0.1000	0.0114	0.0100	14.4	50.0
2-Methyl-2-propanol	Qua		0.0097		0.0800	0.100	-20.0	50.0
Acrylonitrile	Ave	0.0764	0.0697		0.0912	0.100	-8.8	20.0
Methyl tert-butyl ether	Ave	0.6769	0.6571	0.1000	0.00971	0.0100	-2.9	20.0
trans-1,2-Dichloroethene	Ave	0.2727	0.2864	0.1000	0.0105	0.0100	5.0	20.0
Hexane	Ave	0.0595	0.0728		0.0122	0.0100	22.4*	20.0
1,1-Dichloroethane	Ave	0.4826	0.4915	0.2000	0.0102	0.0100	1.9	20.0
Vinyl acetate	Ave	0.3993	0.3957		0.00991	0.0100	-0.9	50.0
2-Butanone (MEK)	Qua		0.0763	0.0100	0.0180	0.0200	-9.9	20.0
cis-1,2-Dichloroethene	Ave	0.2836	0.2883	0.1000	0.0102	0.0100	1.6	20.0
2,2-Dichloropropane	Ave	0.2057	0.2155		0.0105	0.0100	4.8	20.0
Chlorobromomethane	Ave	0.1310	0.1395		0.0106	0.0100	6.5	20.0
Tetrahydrofuran	Ave	0.0541	0.0440		0.0163	0.0200	-18.6	20.0
Chloroform	Ave	0.4390	0.4415	0.2000	0.0101	0.0100	0.5	20.0
1,1,1-Trichloroethane	Ave	0.3009	0.3114	0.1000	0.0103	0.0100	3.5	20.0
Cyclohexane	Ave	0.3324	0.3380	0.1000	0.0102	0.0100	1.7	20.0
1,1-Dichloropropene	Ave	0.3640	0.3622		0.00995	0.0100	-0.5	20.0
Carbon tetrachloride	Ave	0.2924	0.3044	0.1000	0.0104	0.0100	4.1	20.0
Isobutyl alcohol	Ave	0.0079	0.0060		0.189	0.250	-24.3*	20.0
1,2-Dichloroethane	Ave	0.3372	0.3083	0.1000	0.00914	0.0100	-8.6	20.0
Benzene	Ave	1.102	1.110	0.5000	0.0101	0.0100	0.7	20.0
n-Heptane	Ave	0.0573	0.0639		0.0111	0.0100	11.5	20.0
Trichloroethene	Ave	0.2747	0.2820	0.1500	0.0103	0.0100	2.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-230444/2 Calibration Date: 05/16/2016 07:37
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ4654.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	0.3130	0.3359	0.1000	0.0107	0.0100	7.3	20.0
1,2-Dichloropropane	Ave	0.2550	0.2519	0.1000	0.00988	0.0100	-1.2	20.0
Dibromomethane	Ave	0.1368	0.1228		0.00897	0.0100	-10.3	20.0
1,4-Dioxane	Ave	0.0013	0.0011		0.166	0.200	-17.1	50.0
Dichlorobromomethane	Ave	0.2905	0.2890	0.1500	0.00995	0.0100	-0.5	20.0
2-Chloroethyl vinyl ether	Ave	0.1383	0.1203		0.0174	0.0200	-13.0	20.0
cis-1,3-Dichloropropene	Ave	0.3627	0.3587	0.1500	0.00989	0.0100	-1.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1664	0.1302	0.0500	0.0157	0.0200	-21.7*	20.0
Toluene	Ave	1.913	2.023	0.4000	0.0106	0.0100	5.7	20.0
trans-1,3-Dichloropropene	Ave	0.5393	0.5591	0.1000	0.0104	0.0100	3.7	20.0
Ethyl methacrylate	Ave	0.4536	0.4450		0.00981	0.0100	-1.9	20.0
1,1,2-Trichloroethane	Ave	0.3368	0.3377	0.1000	0.0100	0.0100	0.3	20.0
Tetrachloroethene	Ave	0.3431	0.3835	0.1500	0.0112	0.0100	11.8	20.0
1,3-Dichloropropane	Ave	0.6387	0.6081		0.00952	0.0100	-4.8	20.0
2-Hexanone	Ave	0.2088	0.1756	0.0500	0.0168	0.0200	-15.9	20.0
Chlorodibromomethane	Ave	0.3313	0.3357		0.0101	0.0100	1.3	20.0
Ethylene Dibromide	Ave	0.3044	0.2956		0.00971	0.0100	-2.9	20.0
Chlorobenzene	Ave	1.017	1.007	0.3000	0.00991	0.0100	-0.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3289	0.3394		0.0103	0.0100	3.2	20.0
Ethylbenzene	Ave	0.5153	0.5217		0.0101	0.0100	1.3	20.0
m-Xylene & p-Xylene	Ave	0.6121	0.6120		0.0100	0.0100	-0.0	20.0
o-Xylene	Ave	0.5540	0.5415		0.00977	0.0100	-2.3	20.0
Styrene	Ave	0.9423	0.9263	0.3000	0.00983	0.0100	-1.7	20.0
Bromoform	Ave	0.1416	0.1342	0.1000	0.00948	0.0100	-5.2	20.0
Isopropylbenzene	Ave	1.194	1.158	0.1000	0.00970	0.0100	-3.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7065	0.5602	0.3000	0.00793	0.0100	-20.7*	20.0
Bromobenzene	Ave	0.8748	0.7976		0.00912	0.0100	-8.8	20.0
1,2,3-Trichloropropane	Ave	0.2415	0.1867		0.00773	0.0100	-22.7*	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1856	0.1240		0.00668	0.0100	-33.2*	20.0
N-Propylbenzene	Ave	0.8245	0.7423		0.00900	0.0100	-10.0	20.0
2-Chlorotoluene	Ave	0.7374	0.6463		0.00876	0.0100	-12.4	20.0
1,3,5-Trimethylbenzene	Ave	2.144	2.062		0.00962	0.0100	-3.8	20.0
4-Chlorotoluene	Ave	0.7829	0.7158		0.00914	0.0100	-8.6	20.0
tert-Butylbenzene	Ave	1.803	1.683		0.00934	0.0100	-6.6	20.0
1,2,4-Trimethylbenzene	Ave	2.265	2.093		0.00924	0.0100	-7.6	20.0
sec-Butylbenzene	Ave	2.370	2.293		0.00967	0.0100	-3.3	20.0
1,3-Dichlorobenzene	Ave	1.432	1.415	0.6000	0.00988	0.0100	-1.2	20.0
4-Isopropyltoluene	Ave	2.126	2.132		0.0100	0.0100	0.3	20.0
1,4-Dichlorobenzene	Ave	1.490	1.443	0.5000	0.00968	0.0100	-3.2	20.0
n-Butylbenzene	Ave	1.732	1.711		0.00988	0.0100	-1.2	20.0
1,2-Dichlorobenzene	Ave	1.394	1.360	0.4000	0.00976	0.0100	-2.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-230444/2 Calibration Date: 05/16/2016 07:37
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ4654.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	0.1265	0.1011	0.0500	0.00800	0.0100	-20.0	50.0
1,2,4-Trichlorobenzene	Ave	0.8993	0.7812	0.2000	0.00869	0.0100	-13.1	50.0
Hexachlorobutadiene	Ave	0.4046	0.4131		0.0102	0.0100	2.1	20.0
Naphthalene	Ave	1.915	1.338		0.00699	0.0100	-30.1	50.0
1,2,3-Trichlorobenzene	Ave	0.8053	0.6292		0.00781	0.0100	-21.9*	20.0
Dibromofluoromethane (Surr)	Ave	0.2304	0.2205		0.0114	0.0120	-4.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2872	0.2517		0.0105	0.0120	-12.4	20.0
Toluene-d8 (Surr)	Ave	1.622	1.613		0.0119	0.0120	-0.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3483	0.2998		0.0103	0.0120	-13.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-230805/2 Calibration Date: 05/18/2016 08:56
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ4742.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	0.1736	0.1239	0.1000	0.00714	0.0100	-28.6*	20.0
Chloromethane	Ave	0.2332	0.2354	0.1000	0.0101	0.0100	1.0	20.0
Vinyl chloride	Ave	0.2175	0.1875	0.1000	0.00862	0.0100	-13.8	20.0
Butadiene	Ave	0.2163	0.1837		0.00849	0.0100	-15.1	20.0
Bromomethane	Ave	0.1032	0.1043	0.0500	0.0101	0.0100	1.1	20.0
Chloroethane	Ave	0.1149	0.1185	0.0500	0.0103	0.0100	3.1	20.0
Dichlorofluoromethane	Ave	0.2640	0.2852		0.0108	0.0100	8.1	20.0
Trichlorofluoromethane	Ave	0.1964	0.1813	0.1000	0.00923	0.0100	-7.7	20.0
Ethyl ether	Ave	0.2416	0.2415		0.0100	0.0100	-0.0	20.0
Acrolein	Ave	0.0244	0.0348		0.0711	0.0500	42.2	50.0
1,1-Dichloroethene	Ave	0.1933	0.2023	0.1000	0.0105	0.0100	4.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1194	0.1268	0.0500	0.0106	0.0100	6.2	20.0
Acetone	Qua		0.0683	0.0100	0.0237	0.0200	18.5	50.0
Iodomethane	Ave	0.2630	0.2849		0.0108	0.0100	8.3	20.0
Carbon disulfide	Ave	0.4914	0.4904	0.1000	0.00998	0.0100	-0.2	20.0
3-Chloro-1-propene	Ave	0.1606	0.1797		0.0112	0.0100	11.8	20.0
Methyl acetate	Ave	0.1514	0.1312	0.1000	0.0433	0.0500	-13.3	20.0
Methylene Chloride	Lin1		0.2568	0.1000	0.0118	0.0100	17.8	50.0
2-Methyl-2-propanol	Qua		0.0096		0.0787	0.100	-21.3	50.0
Acrylonitrile	Ave	0.0764	0.0678		0.0887	0.100	-11.3	20.0
Methyl tert-butyl ether	Ave	0.6769	0.6479	0.1000	0.00957	0.0100	-4.3	20.0
trans-1,2-Dichloroethene	Ave	0.2727	0.2879	0.1000	0.0106	0.0100	5.6	20.0
Hexane	Ave	0.0595	0.0585		0.00983	0.0100	-1.7	20.0
1,1-Dichloroethane	Ave	0.4826	0.4921	0.2000	0.0102	0.0100	2.0	20.0
Vinyl acetate	Ave	0.3993	0.3802		0.00952	0.0100	-4.8	50.0
2-Butanone (MEK)	Qua		0.0733	0.0100	0.0172	0.0200	-14.0	20.0
cis-1,2-Dichloroethene	Ave	0.2836	0.2991	0.1000	0.0105	0.0100	5.4	20.0
2,2-Dichloropropane	Ave	0.2057	0.2097		0.0102	0.0100	1.9	20.0
Chlorobromomethane	Ave	0.1310	0.1432		0.0109	0.0100	9.3	20.0
Tetrahydrofuran	Ave	0.0541	0.0439		0.0163	0.0200	-18.7	20.0
Chloroform	Ave	0.4390	0.4454	0.2000	0.0101	0.0100	1.5	20.0
1,1,1-Trichloroethane	Ave	0.3009	0.3085	0.1000	0.0103	0.0100	2.5	20.0
Cyclohexane	Ave	0.3324	0.3050	0.1000	0.00918	0.0100	-8.2	20.0
1,1-Dichloropropene	Ave	0.3640	0.3553		0.00976	0.0100	-2.4	20.0
Carbon tetrachloride	Ave	0.2924	0.2979	0.1000	0.0102	0.0100	1.9	20.0
Isobutyl alcohol	Ave	0.0079	0.0060		0.188	0.250	-24.8*	20.0
1,2-Dichloroethane	Ave	0.3372	0.3157	0.1000	0.00936	0.0100	-6.4	20.0
Benzene	Ave	1.102	1.134	0.5000	0.0103	0.0100	3.0	20.0
n-Heptane	Ave	0.0573	0.0528		0.00922	0.0100	-7.8	20.0
Trichloroethene	Ave	0.2747	0.2860	0.1500	0.0104	0.0100	4.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-230805/2 Calibration Date: 05/18/2016 08:56
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ4742.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	0.3130	0.2915	0.1000	0.00931	0.0100	-6.9	20.0
1,2-Dichloropropane	Ave	0.2550	0.2570	0.1000	0.0101	0.0100	0.8	20.0
Dibromomethane	Ave	0.1368	0.1250		0.00914	0.0100	-8.6	20.0
1,4-Dioxane	Ave	0.0013	0.0012		0.181	0.200	-9.5	50.0
Dichlorobromomethane	Ave	0.2905	0.2951	0.1500	0.0102	0.0100	1.6	20.0
2-Chloroethyl vinyl ether	Ave	0.1383	0.1189		0.0172	0.0200	-14.0	20.0
cis-1,3-Dichloropropene	Ave	0.3627	0.3624	0.1500	0.00999	0.0100	-0.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1664	0.1286	0.0500	0.0155	0.0200	-22.7*	20.0
Toluene	Ave	1.913	2.061	0.4000	0.0108	0.0100	7.7	20.0
trans-1,3-Dichloropropene	Ave	0.5393	0.5452	0.1000	0.0101	0.0100	1.1	20.0
Ethyl methacrylate	Ave	0.4536	0.4299		0.00948	0.0100	-5.2	20.0
1,1,2-Trichloroethane	Ave	0.3368	0.3341	0.1000	0.00992	0.0100	-0.8	20.0
Tetrachloroethene	Ave	0.3431	0.3918	0.1500	0.0114	0.0100	14.2	20.0
1,3-Dichloropropane	Ave	0.6387	0.6197		0.00970	0.0100	-3.0	20.0
2-Hexanone	Ave	0.2088	0.1643	0.0500	0.0157	0.0200	-21.3*	20.0
Chlorodibromomethane	Ave	0.3313	0.3061		0.00924	0.0100	-7.6	20.0
Ethylene Dibromide	Ave	0.3044	0.2967		0.00975	0.0100	-2.5	20.0
Chlorobenzene	Ave	1.017	1.030	0.3000	0.0101	0.0100	1.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3289	0.3435		0.0104	0.0100	4.4	20.0
Ethylbenzene	Ave	0.5153	0.5433		0.0105	0.0100	5.4	20.0
m-Xylene & p-Xylene	Ave	0.6121	0.6320		0.0103	0.0100	3.3	20.0
o-Xylene	Ave	0.5540	0.5568		0.0100	0.0100	0.5	20.0
Styrene	Ave	0.9423	0.9629	0.3000	0.0102	0.0100	2.2	20.0
Bromoform	Ave	0.1416	0.1108	0.1000	0.00783	0.0100	-21.7*	20.0
Isopropylbenzene	Ave	1.194	1.217	0.1000	0.0102	0.0100	1.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7065	0.5234	0.3000	0.00741	0.0100	-25.9*	20.0
Bromobenzene	Ave	0.8748	0.8306		0.00950	0.0100	-5.0	20.0
1,2,3-Trichloropropane	Ave	0.2415	0.1685		0.00698	0.0100	-30.2*	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1856	0.1041		0.00561	0.0100	-43.9*	20.0
N-Propylbenzene	Ave	0.8245	0.7604		0.00922	0.0100	-7.8	20.0
2-Chlorotoluene	Ave	0.7374	0.6753		0.00916	0.0100	-8.4	20.0
1,3,5-Trimethylbenzene	Ave	2.144	2.111		0.00985	0.0100	-1.5	20.0
4-Chlorotoluene	Ave	0.7829	0.7234		0.00924	0.0100	-7.6	20.0
tert-Butylbenzene	Ave	1.803	1.748		0.00970	0.0100	-3.0	20.0
1,2,4-Trimethylbenzene	Ave	2.265	2.248		0.00992	0.0100	-0.8	20.0
sec-Butylbenzene	Ave	2.370	2.380		0.0100	0.0100	0.4	20.0
1,3-Dichlorobenzene	Ave	1.432	1.470	0.6000	0.0103	0.0100	2.6	20.0
4-Isopropyltoluene	Ave	2.126	2.179		0.0102	0.0100	2.5	20.0
1,4-Dichlorobenzene	Ave	1.490	1.469	0.5000	0.00986	0.0100	-1.4	20.0
n-Butylbenzene	Ave	1.732	1.762		0.0102	0.0100	1.7	20.0
1,2-Dichlorobenzene	Ave	1.394	1.414	0.4000	0.0101	0.0100	1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-230805/2 Calibration Date: 05/18/2016 08:56
 Instrument ID: A3UX11 Calib Start Date: 04/20/2016 09:25
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/20/2016 11:18
 Lab File ID: UXJ4742.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	0.1265	0.0890	0.0500	0.00703	0.0100	-29.7	50.0
1,2,4-Trichlorobenzene	Ave	0.8993	0.7950	0.2000	0.00884	0.0100	-11.6	50.0
Hexachlorobutadiene	Ave	0.4046	0.4098		0.0101	0.0100	1.3	20.0
Naphthalene	Ave	1.915	1.322		0.00690	0.0100	-31.0	50.0
1,2,3-Trichlorobenzene	Ave	0.8053	0.6479		0.00805	0.0100	-19.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2304	0.2124		0.0110	0.0120	-7.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2872	0.2511		0.0105	0.0120	-12.6	20.0
Toluene-d8 (Surr)	Ave	1.622	1.562		0.0115	0.0120	-3.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3483	0.2942		0.0101	0.0120	-15.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: ICV 240-226549/14 Calibration Date: 04/19/2016 16:19
 Instrument ID: A3UX15 Calib Start Date: 04/19/2016 14:03
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/19/2016 15:56
 Lab File ID: UXC7218.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	0.3214	0.3172	0.1000	0.00987	0.0100	-1.3	20.0
Chloromethane	Ave	0.4062	0.4017	0.1000	0.00989	0.0100	-1.1	20.0
Vinyl chloride	Ave	0.3534	0.3662	0.1000	0.0104	0.0100	3.6	20.0
Butadiene	Ave	0.3379	0.3310		0.00980	0.0100	-2.0	30.0
Bromomethane	Lin1		0.1084	0.0500	0.0120	0.0100	20.4*	20.0
Chloroethane	Ave	0.1811	0.1849	0.0500	0.0102	0.0100	2.1	20.0
Dichlorofluoromethane	Ave	0.4250	0.4365		0.0103	0.0100	2.7	20.0
Trichlorofluoromethane	Ave	0.1939	0.2255	0.1000	0.0116	0.0100	16.3	20.0
Ethyl ether	Ave	0.2271	0.2361		0.0104	0.0100	3.9	20.0
Acrolein	Ave	0.0277	0.0361		0.0653	0.0500	30.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2043	0.2446	0.0500	0.0120	0.0100	19.7	20.0
1,1-Dichloroethene	Ave	0.2817	0.3117	0.1000	0.0111	0.0100	10.7	20.0
Acetone	Lin1		0.0615	0.0100	0.0149	0.0200	-25.6	50.0
Iodomethane	Ave	0.4092	0.4774		0.0117	0.0100	16.7	20.0
Carbon disulfide	Ave	0.8203	0.9435	0.1000	0.0115	0.0100	15.0	20.0
3-Chloro-1-propene	Ave	0.1902	0.2097		0.0110	0.0100	10.2	20.0
Methyl acetate	Ave	0.1620	0.1596	0.1000	0.0492	0.0500	-1.5	20.0
Methylene Chloride	Lin1		0.3497	0.1000	0.0109	0.0100	9.4	50.0
2-Methyl-2-propanol	Ave	0.0154	0.0142		0.0922	0.100	-7.8	50.0
Acrylonitrile	Ave	0.0832	0.0841		0.101	0.100	1.0	20.0
Methyl tert-butyl ether	Ave	0.7337	0.7612	0.1000	0.0104	0.0100	3.7	20.0
trans-1,2-Dichloroethene	Ave	0.3018	0.3239	0.1000	0.0107	0.0100	7.3	20.0
Hexane	Ave	0.0689	0.0792		0.0115	0.0100	15.0	20.0
1,1-Dichloroethane	Ave	0.5247	0.5346	0.2000	0.0102	0.0100	1.9	20.0
Vinyl acetate	Ave	0.3650	0.3927		0.0108	0.0100	7.6	50.0
2,2-Dichloropropane	Ave	0.2651	0.2709		0.0102	0.0100	2.2	20.0
cis-1,2-Dichloroethene	Ave	0.3335	0.3419	0.1000	0.0103	0.0100	2.5	20.0
2-Butanone (MEK)	Ave	0.1003	0.0871	0.0100	0.0174	0.0200	-13.2	20.0
Chlorobromomethane	Ave	0.1549	0.1600		0.0103	0.0100	3.3	20.0
Tetrahydrofuran	Ave	0.0677	0.0629		0.0186	0.0200	-7.0	20.0
Chloroform	Ave	0.5010	0.5077	0.2000	0.0101	0.0100	1.3	20.0
1,1,1-Trichloroethane	Ave	0.3527	0.3610	0.1000	0.0102	0.0100	2.4	20.0
Cyclohexane	Ave	0.4779	0.5302	0.1000	0.0111	0.0100	10.9	20.0
1,1-Dichloropropene	Ave	0.4043	0.4193		0.0104	0.0100	3.7	20.0
Carbon tetrachloride	Ave	0.2989	0.3200	0.1000	0.0107	0.0100	7.1	20.0
Isobutyl alcohol	Ave	0.0060	0.0051		0.213	0.250	-15.0	20.0
Benzene	Ave	1.225	1.244	0.5000	0.0102	0.0100	1.6	20.0
1,2-Dichloroethane	Ave	0.3655	0.3774	0.1000	0.0103	0.0100	3.3	20.0
n-Heptane	Ave	0.0648	0.0689		0.0106	0.0100	6.3	20.0
Trichloroethene	Ave	0.3250	0.3367	0.1500	0.0104	0.0100	3.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: ICV 240-226549/14 Calibration Date: 04/19/2016 16:19
 Instrument ID: A3UX15 Calib Start Date: 04/19/2016 14:03
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/19/2016 15:56
 Lab File ID: UXC7218.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	0.4415	0.4681	0.1000	0.0106	0.0100	6.0	20.0
1,2-Dichloropropane	Ave	0.2805	0.2865	0.1000	0.0102	0.0100	2.2	20.0
1,4-Dioxane	Ave	0.0021	0.0016		0.156	0.200	-21.9	50.0
Dibromomethane	Ave	0.1562	0.1556		0.00996	0.0100	-0.4	20.0
Dichlorobromomethane	Ave	0.3417	0.3446	0.1500	0.0101	0.0100	0.8	20.0
2-Chloroethyl vinyl ether	Ave	0.1529	0.1518		0.00993	0.0100	-0.7	20.0
cis-1,3-Dichloropropene	Ave	0.4444	0.4500	0.1500	0.0101	0.0100	1.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1938	0.1847	0.0500	0.0191	0.0200	-4.7	20.0
Toluene	Ave	1.755	1.779	0.4000	0.0101	0.0100	1.4	20.0
trans-1,3-Dichloropropene	Ave	0.5173	0.5194	0.1000	0.0100	0.0100	0.4	20.0
Ethyl methacrylate	Ave	0.4153	0.4369		0.0105	0.0100	5.2	20.0
1,1,2-Trichloroethane	Ave	0.3163	0.3186	0.1000	0.0101	0.0100	0.7	20.0
Tetrachloroethene	Ave	0.3438	0.3562	0.1500	0.0104	0.0100	3.6	20.0
1,3-Dichloropropane	Ave	0.5795	0.5764		0.00995	0.0100	-0.5	20.0
2-Hexanone	Ave	0.1938	0.1736	0.0500	0.0179	0.0200	-10.4	20.0
Chlorodibromomethane	Ave	0.3313	0.3307		0.00998	0.0100	-0.2	20.0
Ethylene Dibromide	Ave	0.3162	0.3296		0.0104	0.0100	4.2	20.0
Chlorobenzene	Ave	1.150	1.143	0.3000	0.00994	0.0100	-0.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3630	0.3609		0.00994	0.0100	-0.6	20.0
Ethylbenzene	Ave	0.6025	0.6023		0.0100	0.0100	-0.0	20.0
m-Xylene & p-Xylene	Ave	1.479	1.467		0.00992	0.0100	-0.8	20.0
o-Xylene	Ave	0.7370	0.7118		0.00966	0.0100	-3.4	20.0
Styrene	Ave	1.258	1.244	0.3000	0.00989	0.0100	-1.1	20.0
Bromoform	Ave	0.1888	0.1943	0.1000	0.0103	0.0100	2.9	20.0
Isopropylbenzene	Ave	1.757	1.722	0.1000	0.00980	0.0100	-2.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7529	0.7535	0.3000	0.0100	0.0100	0.0	20.0
Bromobenzene	Ave	0.9836	0.9856		0.0100	0.0100	0.2	20.0
1,2,3-Trichloropropane	Ave	0.2441	0.2494		0.0102	0.0100	2.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2440	0.2465		0.0101	0.0100	1.0	20.0
N-Propylbenzene	Ave	0.9859	0.9825		0.00997	0.0100	-0.3	20.0
2-Chlorotoluene	Ave	0.8589	0.8636		0.0101	0.0100	0.5	20.0
1,3,5-Trimethylbenzene	Ave	2.827	2.770		0.00980	0.0100	-2.0	20.0
4-Chlorotoluene	Ave	2.942	2.923		0.00994	0.0100	-0.6	20.0
tert-Butylbenzene	Ave	2.387	2.329		0.00976	0.0100	-2.4	20.0
1,2,4-Trimethylbenzene	Ave	2.890	2.796		0.00968	0.0100	-3.2	20.0
sec-Butylbenzene	Ave	3.132	3.019		0.00964	0.0100	-3.6	20.0
1,3-Dichlorobenzene	Ave	1.675	1.614	0.6000	0.00963	0.0100	-3.7	20.0
4-Isopropyltoluene	Ave	2.735	2.651		0.00969	0.0100	-3.1	20.0
1,4-Dichlorobenzene	Ave	1.697	1.645	0.5000	0.00970	0.0100	-3.0	20.0
n-Butylbenzene	Ave	2.142	2.011		0.00939	0.0100	-6.1	20.0
1,2-Dichlorobenzene	Ave	1.543	1.462	0.4000	0.00947	0.0100	-5.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: ICV 240-226549/14 Calibration Date: 04/19/2016 16:19
 Instrument ID: A3UX15 Calib Start Date: 04/19/2016 14:03
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/19/2016 15:56
 Lab File ID: UXC7218.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	0.1243	0.1200	0.0500	0.00966	0.0100	-3.4	50.0
1,2,4-Trichlorobenzene	Ave	1.013	0.8754	0.2000	0.00864	0.0100	-13.6	50.0
Hexachlorobutadiene	Ave	0.4595	0.3648		0.00794	0.0100	-20.6*	20.0
Naphthalene	Ave	2.306	2.002		0.00868	0.0100	-13.2	50.0
1,2,3-Trichlorobenzene	Ave	0.9288	0.7590		0.00817	0.0100	-18.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2608	0.2595		0.00849	0.00853	-0.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3127	0.3057		0.00834	0.00853	-2.3	20.0
Toluene-d8 (Surr)	Ave	1.518	1.553		0.00872	0.00853	2.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5573	0.5554		0.00850	0.00853	-0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-231016/2 Calibration Date: 05/19/2016 09:32
 Instrument ID: A3UX15 Calib Start Date: 04/19/2016 14:03
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/19/2016 15:56
 Lab File ID: UXC8038.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	0.3214	0.3173	0.1000	0.00987	0.0100	-1.3	20.0
Chloromethane	Ave	0.4062	0.4294	0.1000	0.0106	0.0100	5.7	20.0
Vinyl chloride	Ave	0.3534	0.3915	0.1000	0.0111	0.0100	10.8	20.0
Butadiene	Ave	0.3379	0.3702		0.0110	0.0100	9.6	20.0
Bromomethane	Lin1		0.1376	0.0500	0.0154	0.0100	54.2*	20.0
Chloroethane	Ave	0.1811	0.2231	0.0500	0.0123	0.0100	23.1*	20.0
Dichlorofluoromethane	Ave	0.4250	0.5194		0.0122	0.0100	22.2*	20.0
Trichlorofluoromethane	Ave	0.1939	0.4412	0.1000	0.0227	0.0100	127.5*	20.0
Ethyl ether	Ave	0.2271	0.2435		0.0107	0.0100	7.2	20.0
Acrolein	Ave	0.0277	0.0358		0.0646	0.0500	29.2	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2043	0.2246	0.0500	0.0110	0.0100	9.9	20.0
1,1-Dichloroethene	Ave	0.2817	0.2932	0.1000	0.0104	0.0100	4.1	20.0
Acetone	Lin1		0.0852	0.0100	0.0211	0.0200	5.4	50.0
Iodomethane	Ave	0.4092	0.4654		0.0114	0.0100	13.7	20.0
Carbon disulfide	Ave	0.8203	0.9032	0.1000	0.0110	0.0100	10.1	20.0
3-Chloro-1-propene	Ave	0.1902	0.1708		0.00898	0.0100	-10.2	20.0
Methyl acetate	Ave	0.1620	0.1408	0.1000	0.0434	0.0500	-13.1	20.0
Methylene Chloride	Lin1		0.3587	0.1000	0.0113	0.0100	12.6	50.0
2-Methyl-2-propanol	Ave	0.0154	0.0075		0.0484	0.100	-51.6*	50.0
Acrylonitrile	Ave	0.0832	0.0838		0.101	0.100	0.7	20.0
Methyl tert-butyl ether	Ave	0.7337	0.5354	0.1000	0.00730	0.0100	-27.0*	20.0
trans-1,2-Dichloroethene	Ave	0.3018	0.3340	0.1000	0.0111	0.0100	10.6	20.0
Hexane	Ave	0.0689	0.0740		0.0107	0.0100	7.4	20.0
1,1-Dichloroethane	Ave	0.5247	0.5855	0.2000	0.0112	0.0100	11.6	20.0
Vinyl acetate	Ave	0.3650	0.3113		0.00853	0.0100	-14.7	50.0
2,2-Dichloropropane	Ave	0.2651	0.2036		0.00768	0.0100	-23.2*	20.0
2-Butanone (MEK)	Ave	0.1003	0.0911	0.0100	0.0182	0.0200	-9.2	20.0
cis-1,2-Dichloroethene	Ave	0.3335	0.3565	0.1000	0.0107	0.0100	6.9	20.0
Chlorobromomethane	Ave	0.1549	0.1530		0.00988	0.0100	-1.2	20.0
Tetrahydrofuran	Ave	0.0677	0.0493		0.0146	0.0200	-27.1*	20.0
Chloroform	Ave	0.5010	0.5432	0.2000	0.0108	0.0100	8.4	20.0
1,1,1-Trichloroethane	Ave	0.3527	0.3587	0.1000	0.0102	0.0100	1.7	20.0
Cyclohexane	Ave	0.4779	0.5521	0.1000	0.0116	0.0100	15.5	20.0
1,1-Dichloropropene	Ave	0.4043	0.4512		0.0112	0.0100	11.6	20.0
Carbon tetrachloride	Ave	0.2989	0.2849	0.1000	0.00953	0.0100	-4.7	20.0
Isobutyl alcohol	Ave	0.0060	0.0039		0.163	0.250	-35.0*	20.0
Benzene	Ave	1.225	1.323	0.5000	0.0108	0.0100	8.0	20.0
1,2-Dichloroethane	Ave	0.3655	0.4089	0.1000	0.0112	0.0100	11.9	20.0
n-Heptane	Ave	0.0648	0.0733		0.0113	0.0100	13.0	20.0
Trichloroethene	Ave	0.3250	0.3333	0.1500	0.0103	0.0100	2.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-231016/2 Calibration Date: 05/19/2016 09:32
 Instrument ID: A3UX15 Calib Start Date: 04/19/2016 14:03
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/19/2016 15:56
 Lab File ID: UXC8038.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	0.4415	0.5095	0.1000	0.0115	0.0100	15.4	20.0
1,2-Dichloropropane	Ave	0.2805	0.3086	0.1000	0.0110	0.0100	10.0	20.0
Dibromomethane	Ave	0.1562	0.1593		0.0102	0.0100	2.0	20.0
1,4-Dioxane	Ave	0.0021	0.0021		0.199	0.200	-0.3	50.0
Dichlorobromomethane	Ave	0.3417	0.3334	0.1500	0.00976	0.0100	-2.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1529	0.1443		0.0189	0.0200	-5.7	20.0
cis-1,3-Dichloropropene	Ave	0.4444	0.3668	0.1500	0.00825	0.0100	-17.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1938	0.1586	0.0500	0.0164	0.0200	-18.1	20.0
Toluene	Ave	1.755	1.830	0.4000	0.0104	0.0100	4.3	20.0
trans-1,3-Dichloropropene	Ave	0.5173	0.3467	0.1000	0.00670	0.0100	-33.0*	20.0
Ethyl methacrylate	Ave	0.4153	0.3108		0.00748	0.0100	-25.2*	20.0
1,1,2-Trichloroethane	Ave	0.3163	0.3054	0.1000	0.00966	0.0100	-3.4	20.0
Tetrachloroethene	Ave	0.3438	0.3452	0.1500	0.0100	0.0100	0.4	20.0
1,3-Dichloropropane	Ave	0.5795	0.5829		0.0101	0.0100	0.6	20.0
2-Hexanone	Ave	0.1938	0.1643	0.0500	0.0170	0.0200	-15.2	20.0
Chlorodibromomethane	Ave	0.3313	0.2649		0.00800	0.0100	-20.0	20.0
Ethylene Dibromide	Ave	0.3162	0.2900		0.00917	0.0100	-8.3	20.0
Chlorobenzene	Ave	1.150	1.192	0.3000	0.0104	0.0100	3.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3630	0.2979		0.00821	0.0100	-17.9	20.0
Ethylbenzene	Ave	0.6025	0.6404		0.0106	0.0100	6.3	20.0
m-Xylene & p-Xylene	Ave	1.479	1.603		0.0108	0.0100	8.4	20.0
o-Xylene	Ave	0.7370	0.7654		0.0104	0.0100	3.8	20.0
Styrene	Ave	1.258	1.324	0.3000	0.0105	0.0100	5.2	20.0
Bromoform	Ave	0.1888	0.1200	0.1000	0.00635	0.0100	-36.5*	20.0
Isopropylbenzene	Ave	1.757	1.896	0.1000	0.0108	0.0100	7.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7529	0.6706	0.3000	0.00891	0.0100	-10.9	20.0
Bromobenzene	Ave	0.9836	0.9333		0.00949	0.0100	-5.1	20.0
1,2,3-Trichloropropane	Ave	0.2441	0.2085		0.00854	0.0100	-14.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2440	0.1833		0.00751	0.0100	-24.9*	20.0
N-Propylbenzene	Ave	0.9859	1.008		0.0102	0.0100	2.3	20.0
2-Chlorotoluene	Ave	0.8589	0.8750		0.0102	0.0100	1.9	20.0
1,3,5-Trimethylbenzene	Ave	2.827	2.993		0.0106	0.0100	5.9	20.0
4-Chlorotoluene	Ave	2.942	3.140		0.0107	0.0100	6.8	20.0
tert-Butylbenzene	Ave	2.387	2.487		0.0104	0.0100	4.2	20.0
1,2,4-Trimethylbenzene	Ave	2.890	3.126		0.0108	0.0100	8.2	20.0
sec-Butylbenzene	Ave	3.132	3.533		0.0113	0.0100	12.8	20.0
1,3-Dichlorobenzene	Ave	1.675	1.760	0.6000	0.0105	0.0100	5.1	20.0
4-Isopropyltoluene	Ave	2.735	3.083		0.0113	0.0100	12.7	20.0
1,4-Dichlorobenzene	Ave	1.697	1.796	0.5000	0.0106	0.0100	5.9	20.0
n-Butylbenzene	Ave	2.142	2.674		0.0125	0.0100	24.8*	20.0
1,2-Dichlorobenzene	Ave	1.543	1.663	0.4000	0.0108	0.0100	7.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-231016/2 Calibration Date: 05/19/2016 09:32
 Instrument ID: A3UX15 Calib Start Date: 04/19/2016 14:03
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 04/19/2016 15:56
 Lab File ID: UXC8038.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	0.1243	0.0762	0.0500	0.00613	0.0100	-38.7	50.0
1,2,4-Trichlorobenzene	Ave	1.013	1.077	0.2000	0.0106	0.0100	6.3	50.0
Hexachlorobutadiene	Ave	0.4595	0.5381		0.0117	0.0100	17.1	20.0
Naphthalene	Ave	2.306	2.199		0.00954	0.0100	-4.6	50.0
1,2,3-Trichlorobenzene	Ave	0.9288	1.011		0.0109	0.0100	8.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2608	0.2568		0.00840	0.00853	-1.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3127	0.3216		0.00877	0.00853	2.8	20.0
Toluene-d8 (Surr)	Ave	1.518	1.506		0.00846	0.00853	-0.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5573	0.5586		0.00855	0.00853	0.2	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-230196/6
 Matrix: Water Lab File ID: UXJ4606.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/13/2016 10:38
 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.: 230196 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-230196/6
 Matrix: Water Lab File ID: UXJ4606.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/13/2016 10:38
 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.: 230196 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120
460-00-4	4-Bromofluorobenzene (Surr)	86		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-230444/6
 Matrix: Water Lab File ID: UXJ4658.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 09:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-230444/6
 Matrix: Water Lab File ID: UXJ4658.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 09:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120
460-00-4	4-Bromofluorobenzene (Surr)	83		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-230805/6
 Matrix: Water Lab File ID: UXJ4746.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 10:26
 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-230805/6
 Matrix: Water Lab File ID: UXJ4746.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 10:26
 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		79-120
460-00-4	4-Bromofluorobenzene (Surr)	83		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-231016/31
 Matrix: Water Lab File ID: UXC8043.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/19/2016 11:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-231016/31
 Matrix: Water Lab File ID: UXC8043.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/19/2016 11:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		79-120
460-00-4	4-Bromofluorobenzene (Surr)	95		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-230196/4
 Matrix: Water Lab File ID: UXJ4603.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/13/2016 09:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230196 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	11.7		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	9.23		1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11.2		1.0	0.45
79-00-5	1,1,2-Trichloroethane	10.8		1.0	0.24
75-34-3	1,1-Dichloroethane	11.0		1.0	0.30
75-35-4	1,1-Dichloroethene	11.9		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	9.93		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	9.50		2.0	0.82
106-93-4	Ethylene Dibromide	11.0		1.0	0.32
95-50-1	1,2-Dichlorobenzene	11.2		1.0	0.25
107-06-2	1,2-Dichloroethane	10.9		1.0	0.23
78-87-5	1,2-Dichloropropane	11.6		1.0	0.25
541-73-1	1,3-Dichlorobenzene	11.1		1.0	0.19
106-46-7	1,4-Dichlorobenzene	11.4		1.0	0.27
78-93-3	2-Butanone (MEK)	19.4		10	0.53
591-78-6	2-Hexanone	18.1		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	19.7		10	0.99
67-64-1	Acetone	20.1		10	0.94
71-43-2	Benzene	11.4		1.0	0.35
75-27-4	Dichlorobromomethane	11.2		1.0	0.29
75-25-2	Bromoform	8.78		1.0	0.56
74-83-9	Bromomethane	10.8		1.0	0.44
75-15-0	Carbon disulfide	13.1		1.0	0.38
56-23-5	Carbon tetrachloride	11.2		1.0	0.43
108-90-7	Chlorobenzene	10.8		1.0	0.25
75-00-3	Chloroethane	10.7		1.0	0.32
67-66-3	Chloroform	11.5		1.0	0.25
74-87-3	Chloromethane	10.6		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	11.6		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	11.2		1.0	0.46
110-82-7	Cyclohexane	10.8		1.0	0.45
124-48-1	Chlorodibromomethane	9.89		1.0	0.43
75-71-8	Dichlorodifluoromethane	8.87		1.0	0.32
100-41-4	Ethylbenzene	10.9		1.0	0.25
98-82-8	Isopropylbenzene	10.8		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-230196/4
 Matrix: Water Lab File ID: UXJ4603.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/13/2016 09:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230196 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	53.5		10	2.3
1634-04-4	Methyl tert-butyl ether	11.0		1.0	0.20
108-87-2	Methylcyclohexane	10.2		1.0	0.43
75-09-2	Methylene Chloride	12.5		1.0	0.33
100-42-5	Styrene	10.6		1.0	0.45
127-18-4	Tetrachloroethene	11.5		1.0	0.31
108-88-3	Toluene	11.5		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	11.9		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	10.8		1.0	0.56
79-01-6	Trichloroethene	11.5		1.0	0.22
75-69-4	Trichlorofluoromethane	10.5		1.0	0.49
75-01-4	Vinyl chloride	9.79		1.0	0.29
1330-20-7	Xylenes, Total	21.2		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		79-120
460-00-4	4-Bromofluorobenzene (Surr)	96		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-230444/4
 Matrix: Water Lab File ID: UXJ4655.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 07:59
 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.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10.0		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	7.58		1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10.9		1.0	0.45
79-00-5	1,1,2-Trichloroethane	9.73		1.0	0.24
75-34-3	1,1-Dichloroethane	9.28		1.0	0.30
75-35-4	1,1-Dichloroethene	10.3		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	8.43		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	8.57		2.0	0.82
106-93-4	Ethylene Dibromide	9.37		1.0	0.32
95-50-1	1,2-Dichlorobenzene	9.42		1.0	0.25
107-06-2	1,2-Dichloroethane	9.11		1.0	0.23
78-87-5	1,2-Dichloropropane	9.62		1.0	0.25
541-73-1	1,3-Dichlorobenzene	9.28		1.0	0.19
106-46-7	1,4-Dichlorobenzene	9.49		1.0	0.27
78-93-3	2-Butanone (MEK)	16.2		10	0.53
591-78-6	2-Hexanone	15.4		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	17.1		10	0.99
67-64-1	Acetone	16.1		10	0.94
71-43-2	Benzene	9.49		1.0	0.35
75-27-4	Dichlorobromomethane	9.38		1.0	0.29
75-25-2	Bromoform	7.93		1.0	0.56
74-83-9	Bromomethane	9.65		1.0	0.44
75-15-0	Carbon disulfide	10.7		1.0	0.38
56-23-5	Carbon tetrachloride	9.99		1.0	0.43
108-90-7	Chlorobenzene	9.07		1.0	0.25
75-00-3	Chloroethane	9.98		1.0	0.32
67-66-3	Chloroform	9.42		1.0	0.25
74-87-3	Chloromethane	9.34		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.57		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	9.23		1.0	0.46
110-82-7	Cyclohexane	10.0		1.0	0.45
124-48-1	Chlorodibromomethane	8.55		1.0	0.43
75-71-8	Dichlorodifluoromethane	10.5		1.0	0.32
100-41-4	Ethylbenzene	9.54		1.0	0.25
98-82-8	Isopropylbenzene	9.28		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-230444/4
 Matrix: Water Lab File ID: UXJ4655.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 07:59
 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.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	46.0		10	2.3
1634-04-4	Methyl tert-butyl ether	9.40		1.0	0.20
108-87-2	Methylcyclohexane	10.3		1.0	0.43
75-09-2	Methylene Chloride	10.1		1.0	0.33
100-42-5	Styrene	8.91		1.0	0.45
127-18-4	Tetrachloroethene	10.1		1.0	0.31
108-88-3	Toluene	9.75		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	10.0		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	9.16		1.0	0.56
79-01-6	Trichloroethene	9.86		1.0	0.22
75-69-4	Trichlorofluoromethane	12.1		1.0	0.49
75-01-4	Vinyl chloride	9.55		1.0	0.29
1330-20-7	Xylenes, Total	18.1		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		79-120
460-00-4	4-Bromofluorobenzene (Surr)	86		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-230805/4
 Matrix: Water Lab File ID: UXJ4743.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10.2		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	8.27		1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10.1		1.0	0.45
79-00-5	1,1,2-Trichloroethane	9.74		1.0	0.24
75-34-3	1,1-Dichloroethane	10.0		1.0	0.30
75-35-4	1,1-Dichloroethene	11.0		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	9.43		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	8.03		2.0	0.82
106-93-4	Ethylene Dibromide	9.74		1.0	0.32
95-50-1	1,2-Dichlorobenzene	10.2		1.0	0.25
107-06-2	1,2-Dichloroethane	9.66		1.0	0.23
78-87-5	1,2-Dichloropropane	10.4		1.0	0.25
541-73-1	1,3-Dichlorobenzene	10.1		1.0	0.19
106-46-7	1,4-Dichlorobenzene	10.2		1.0	0.27
78-93-3	2-Butanone (MEK)	16.6		10	0.53
591-78-6	2-Hexanone	15.1		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	17.2		10	0.99
67-64-1	Acetone	17.2		10	0.94
71-43-2	Benzene	10.3		1.0	0.35
75-27-4	Dichlorobromomethane	9.71		1.0	0.29
75-25-2	Bromoform	6.50		1.0	0.56
74-83-9	Bromomethane	8.09		1.0	0.44
75-15-0	Carbon disulfide	11.0		1.0	0.38
56-23-5	Carbon tetrachloride	10.3		1.0	0.43
108-90-7	Chlorobenzene	9.71		1.0	0.25
75-00-3	Chloroethane	8.69		1.0	0.32
67-66-3	Chloroform	10.4		1.0	0.25
74-87-3	Chloromethane	9.86		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	10.5		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	9.76		1.0	0.46
110-82-7	Cyclohexane	9.50		1.0	0.45
124-48-1	Chlorodibromomethane	7.92		1.0	0.43
75-71-8	Dichlorodifluoromethane	5.99		1.0	0.32
100-41-4	Ethylbenzene	10.2		1.0	0.25
98-82-8	Isopropylbenzene	9.72		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-230805/4
 Matrix: Water Lab File ID: UXJ4743.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	44.3		10	2.3
1634-04-4	Methyl tert-butyl ether	9.94		1.0	0.20
108-87-2	Methylcyclohexane	9.11		1.0	0.43
75-09-2	Methylene Chloride	11.3		1.0	0.33
100-42-5	Styrene	9.82		1.0	0.45
127-18-4	Tetrachloroethene	10.5		1.0	0.31
108-88-3	Toluene	10.4		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	10.7		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	9.11		1.0	0.56
79-01-6	Trichloroethene	10.6		1.0	0.22
75-69-4	Trichlorofluoromethane	9.02		1.0	0.49
75-01-4	Vinyl chloride	8.62		1.0	0.29
1330-20-7	Xylenes, Total	19.5		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		79-120
460-00-4	4-Bromofluorobenzene (Surr)	85		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-231016/4
 Matrix: Water Lab File ID: UXC8039.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/19/2016 09:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	11.5		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	9.75		1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13.2		1.0	0.45
79-00-5	1,1,2-Trichloroethane	10.9		1.0	0.24
75-34-3	1,1-Dichloroethane	12.3		1.0	0.30
75-35-4	1,1-Dichloroethene	12.4		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	10.8		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	6.46		2.0	0.82
106-93-4	Ethylene Dibromide	10.6		1.0	0.32
95-50-1	1,2-Dichlorobenzene	12.1		1.0	0.25
107-06-2	1,2-Dichloroethane	12.9		1.0	0.23
78-87-5	1,2-Dichloropropane	13.0		1.0	0.25
541-73-1	1,3-Dichlorobenzene	11.7		1.0	0.19
106-46-7	1,4-Dichlorobenzene	12.0		1.0	0.27
78-93-3	2-Butanone (MEK)	18.5		10	0.53
591-78-6	2-Hexanone	17.1		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	18.4		10	0.99
67-64-1	Acetone	17.4		10	0.94
71-43-2	Benzene	12.5		1.0	0.35
75-27-4	Dichlorobromomethane	11.3		1.0	0.29
75-25-2	Bromoform	7.49		1.0	0.56
74-83-9	Bromomethane	13.6		1.0	0.44
75-15-0	Carbon disulfide	13.4		1.0	0.38
56-23-5	Carbon tetrachloride	11.0		1.0	0.43
108-90-7	Chlorobenzene	11.8		1.0	0.25
75-00-3	Chloroethane	11.9		1.0	0.32
67-66-3	Chloroform	12.3		1.0	0.25
74-87-3	Chloromethane	10.3		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	12.0		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	9.71		1.0	0.46
110-82-7	Cyclohexane	13.8		1.0	0.45
124-48-1	Chlorodibromomethane	9.04		1.0	0.43
75-71-8	Dichlorodifluoromethane	8.28		1.0	0.32
100-41-4	Ethylbenzene	12.1		1.0	0.25
98-82-8	Isopropylbenzene	12.4		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-231016/4
 Matrix: Water Lab File ID: UXC8039.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/19/2016 09:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	48.0		10	2.3
1634-04-4	Methyl tert-butyl ether	8.09		1.0	0.20
108-87-2	Methylcyclohexane	13.2		1.0	0.43
75-09-2	Methylene Chloride	12.4		1.0	0.33
100-42-5	Styrene	12.0		1.0	0.45
127-18-4	Tetrachloroethene	11.4		1.0	0.31
108-88-3	Toluene	12.2		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	12.7		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	7.62		1.0	0.56
79-01-6	Trichloroethene	11.9		1.0	0.22
75-69-4	Trichlorofluoromethane	21.6		1.0	0.49
75-01-4	Vinyl chloride	10.8		1.0	0.29
1330-20-7	Xylenes, Total	24.2		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		79-120
460-00-4	4-Bromofluorobenzene (Surr)	101		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64546-F-1 MS
 Matrix: Water Lab File ID: UXJ4680.D
 Analysis Method: 8260C Date Collected: 05/05/2016 14:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 17:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	4.98		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	4.79		1.0	0.22
79-00-5	1,1,2-Trichloroethane	5.60		1.0	0.24
75-34-3	1,1-Dichloroethane	5.16		1.0	0.30
75-35-4	1,1-Dichloroethene	5.05		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	4.47		1.0	0.32
106-93-4	Ethylene Dibromide	5.54		1.0	0.32
95-50-1	1,2-Dichlorobenzene	5.38		1.0	0.25
107-06-2	1,2-Dichloroethane	5.71		1.0	0.23
78-87-5	1,2-Dichloropropane	5.59		1.0	0.25
541-73-1	1,3-Dichlorobenzene	5.29		1.0	0.19
106-46-7	1,4-Dichlorobenzene	5.33		1.0	0.27
71-43-2	Benzene	5.38		1.0	0.35
75-27-4	Dichlorobromomethane	5.90		1.0	0.29
75-25-2	Bromoform	4.72		1.0	0.56
74-83-9	Bromomethane	2.75		1.0	0.44
56-23-5	Carbon tetrachloride	4.58		1.0	0.43
108-90-7	Chlorobenzene	5.27		1.0	0.25
75-00-3	Chloroethane	3.55		1.0	0.32
67-66-3	Chloroform	6.11		1.0	0.25
74-87-3	Chloromethane	4.89		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	5.73		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	4.68		1.0	0.46
124-48-1	Chlorodibromomethane	5.47		1.0	0.43
75-71-8	Dichlorodifluoromethane	6.84		1.0	0.32
100-41-4	Ethylbenzene	4.85		1.0	0.25
98-82-8	Isopropylbenzene	4.58		1.0	0.35
75-09-2	Methylene Chloride	5.05		1.0	0.33
100-42-5	Styrene	4.81		1.0	0.45
127-18-4	Tetrachloroethene	4.73		1.0	0.31
108-88-3	Toluene	5.26		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	5.28		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	4.48		1.0	0.56
79-01-6	Trichloroethene	5.29		1.0	0.22
75-69-4	Trichlorofluoromethane	4.67		1.0	0.49
75-01-4	Vinyl chloride	4.46		1.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64546-F-1 MS
 Matrix: Water Lab File ID: UXJ4680.D
 Analysis Method: 8260C Date Collected: 05/05/2016 14:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 17:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	9.75		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		79-120
460-00-4	4-Bromofluorobenzene (Surr)	87		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64676-E-5 MS
 Matrix: Water Lab File ID: UXJ4769.D
 Analysis Method: 8260C Date Collected: 05/10/2016 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 19:20
 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	9.92		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	8.01		1.0	0.22
79-00-5	1,1,2-Trichloroethane	9.54		1.0	0.24
75-34-3	1,1-Dichloroethane	9.74		1.0	0.30
75-35-4	1,1-Dichloroethene	10.5		1.0	0.45
107-06-2	1,2-Dichloroethane	9.65		1.0	0.23
78-87-5	1,2-Dichloropropane	10.2		1.0	0.25
78-93-3	2-Butanone (MEK)	15.9		10	0.53
591-78-6	2-Hexanone	18.4		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	21.2		10	0.99
67-64-1	Acetone	18.3		10	0.94
71-43-2	Benzene	9.88		1.0	0.35
75-27-4	Dichlorobromomethane	9.26		1.0	0.29
75-25-2	Bromoform	4.95		1.0	0.56
74-83-9	Bromomethane	8.05		1.0	0.44
75-15-0	Carbon disulfide	10.1		1.0	0.38
56-23-5	Carbon tetrachloride	9.42		1.0	0.43
108-90-7	Chlorobenzene	9.22		1.0	0.25
75-00-3	Chloroethane	9.02		1.0	0.32
67-66-3	Chloroform	9.87		1.0	0.25
74-87-3	Chloromethane	9.66		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	10.2		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	8.82		1.0	0.46
124-48-1	Chlorodibromomethane	6.97		1.0	0.43
100-41-4	Ethylbenzene	9.30		1.0	0.25
75-09-2	Methylene Chloride	10.4		1.0	0.33
100-42-5	Styrene	8.97		1.0	0.45
127-18-4	Tetrachloroethene	9.47		1.0	0.31
108-88-3	Toluene	9.70		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	10.3		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	7.98		1.0	0.56
79-01-6	Trichloroethene	9.95		1.0	0.22
75-01-4	Vinyl chloride	9.23		1.0	0.29
1330-20-7	Xylenes, Total	18.0		2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64676-E-5 MS
 Matrix: Water Lab File ID: UXJ4769.D
 Analysis Method: 8260C Date Collected: 05/10/2016 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 19:20
 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.: 230805 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		79-120
460-00-4	4-Bromofluorobenzene (Surr)	84		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64717-B-2 MS
 Matrix: Water Lab File ID: UXC8064.D
 Analysis Method: 8260C Date Collected: 05/10/2016 10:40
 Sample wt/vol: 5 (mL) Date Analyzed: 05/19/2016 19:17
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	4110		500	220
79-34-5	1,1,2,2-Tetrachloroethane	4140		500	110
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4530		500	230
75-34-3	1,1-Dichloroethane	5240		500	150
75-35-4	1,1-Dichloroethene	5090		500	230
120-82-1	1,2,4-Trichlorobenzene	4120		500	160
96-12-8	1,2-Dibromo-3-Chloropropane	2090		1000	410
106-93-4	Ethylene Dibromide	4020		500	160
95-50-1	1,2-Dichlorobenzene	4890		500	130
107-06-2	1,2-Dichloroethane	5290		500	120
78-87-5	1,2-Dichloropropane	5200		500	130
541-73-1	1,3-Dichlorobenzene	4730		500	95
106-46-7	1,4-Dichlorobenzene	4770		500	140
78-93-3	2-Butanone (MEK)	7590		5000	270
591-78-6	2-Hexanone	6660		5000	240
108-10-1	4-Methyl-2-pentanone (MIBK)	7580		5000	500
67-64-1	Acetone	7280		5000	470
71-43-2	Benzene	5060		500	180
75-27-4	Dichlorobromomethane	4190		500	150
75-25-2	Bromoform	2430		500	280
74-83-9	Bromomethane	6210		500	220
75-15-0	Carbon disulfide	5340		500	190
56-23-5	Carbon tetrachloride	3280		500	220
108-90-7	Chlorobenzene	4880		500	130
75-00-3	Chloroethane	5940		500	160
67-66-3	Chloroform	5210		500	130
74-87-3	Chloromethane	5270		500	220
156-59-2	cis-1,2-Dichloroethene	17000		500	130
10061-01-5	cis-1,3-Dichloropropene	3110		500	230
124-48-1	Chlorodibromomethane	3120		500	220
75-71-8	Dichlorodifluoromethane	3690		500	160
100-41-4	Ethylbenzene	4790		500	130
98-82-8	Isopropylbenzene	4760		500	180
1634-04-4	Methyl tert-butyl ether	3260		500	100
75-09-2	Methylene Chloride	5630		500	170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64717-B-2 MS
 Matrix: Water Lab File ID: UXC8064.D
 Analysis Method: 8260C Date Collected: 05/10/2016 10:40
 Sample wt/vol: 5 (mL) Date Analyzed: 05/19/2016 19:17
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	4960		500	230
127-18-4	Tetrachloroethene	4190		500	160
108-88-3	Toluene	4830		500	120
156-60-5	trans-1,2-Dichloroethene	5470		500	150
10061-02-6	trans-1,3-Dichloropropene	2270		500	280
79-01-6	Trichloroethene	6090		500	110
75-69-4	Trichlorofluoromethane	10300		500	250
75-01-4	Vinyl chloride	7800		500	150
1330-20-7	Xylenes, Total	9730		1000	260

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		79-120
460-00-4	4-Bromofluorobenzene (Surr)	101		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64546-E-1 MSD
 Matrix: Water Lab File ID: UXJ4681.D
 Analysis Method: 8260C Date Collected: 05/05/2016 14:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 17:53
 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.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	11.4		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	9.00		1.0	0.22
79-00-5	1,1,2-Trichloroethane	10.9		1.0	0.24
75-34-3	1,1-Dichloroethane	10.8		1.0	0.30
75-35-4	1,1-Dichloroethene	11.4		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	9.44		1.0	0.32
106-93-4	Ethylene Dibromide	10.6		1.0	0.32
95-50-1	1,2-Dichlorobenzene	10.7		1.0	0.25
107-06-2	1,2-Dichloroethane	11.0		1.0	0.23
78-87-5	1,2-Dichloropropane	11.2		1.0	0.25
541-73-1	1,3-Dichlorobenzene	10.4		1.0	0.19
106-46-7	1,4-Dichlorobenzene	10.4		1.0	0.27
71-43-2	Benzene	11.0		1.0	0.35
75-27-4	Dichlorobromomethane	11.3		1.0	0.29
75-25-2	Bromoform	8.59		1.0	0.56
74-83-9	Bromomethane	9.74		1.0	0.44
56-23-5	Carbon tetrachloride	11.4		1.0	0.43
108-90-7	Chlorobenzene	10.5		1.0	0.25
75-00-3	Chloroethane	10.6		1.0	0.32
67-66-3	Chloroform	11.3		1.0	0.25
74-87-3	Chloromethane	11.9		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	10.9		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	10.1		1.0	0.46
124-48-1	Chlorodibromomethane	9.98		1.0	0.43
75-71-8	Dichlorodifluoromethane	12.8		1.0	0.32
100-41-4	Ethylbenzene	10.5		1.0	0.25
98-82-8	Isopropylbenzene	9.96		1.0	0.35
75-09-2	Methylene Chloride	11.0		1.0	0.33
100-42-5	Styrene	10.2		1.0	0.45
127-18-4	Tetrachloroethene	10.9		1.0	0.31
108-88-3	Toluene	11.1		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	11.2		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	9.60		1.0	0.56
79-01-6	Trichloroethene	11.3		1.0	0.22
75-69-4	Trichlorofluoromethane	12.3		1.0	0.49
75-01-4	Vinyl chloride	11.2		1.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64546-E-1 MSD
 Matrix: Water Lab File ID: UXJ4681.D
 Analysis Method: 8260C Date Collected: 05/05/2016 14:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/16/2016 17:53
 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.: 230444 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	20.8		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	114		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		79-120
460-00-4	4-Bromofluorobenzene (Surr)	106		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64676-H-5 MSD
 Matrix: Water Lab File ID: UXJ4770.D
 Analysis Method: 8260C Date Collected: 05/10/2016 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 19:42
 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.: 230805 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10.1		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	8.13		1.0	0.22
79-00-5	1,1,2-Trichloroethane	10.0		1.0	0.24
75-34-3	1,1-Dichloroethane	10.4		1.0	0.30
75-35-4	1,1-Dichloroethene	11.0		1.0	0.45
107-06-2	1,2-Dichloroethane	10.0		1.0	0.23
78-87-5	1,2-Dichloropropane	10.3		1.0	0.25
78-93-3	2-Butanone (MEK)	16.6		10	0.53
591-78-6	2-Hexanone	19.3		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	21.2		10	0.99
67-64-1	Acetone	21.8		10	0.94
71-43-2	Benzene	10.1		1.0	0.35
75-27-4	Dichlorobromomethane	9.31		1.0	0.29
75-25-2	Bromoform	5.25		1.0	0.56
74-83-9	Bromomethane	8.69		1.0	0.44
75-15-0	Carbon disulfide	10.6		1.0	0.38
56-23-5	Carbon tetrachloride	9.93		1.0	0.43
108-90-7	Chlorobenzene	9.71		1.0	0.25
75-00-3	Chloroethane	9.71		1.0	0.32
67-66-3	Chloroform	10.2		1.0	0.25
74-87-3	Chloromethane	9.69		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	10.2		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	8.76		1.0	0.46
124-48-1	Chlorodibromomethane	6.91		1.0	0.43
100-41-4	Ethylbenzene	9.78		1.0	0.25
75-09-2	Methylene Chloride	11.4		1.0	0.33
100-42-5	Styrene	9.57		1.0	0.45
127-18-4	Tetrachloroethene	10.0		1.0	0.31
108-88-3	Toluene	10.2		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	11.2		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	7.96		1.0	0.56
79-01-6	Trichloroethene	10.4		1.0	0.22
75-01-4	Vinyl chloride	9.20		1.0	0.29
1330-20-7	Xylenes, Total	18.9		2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64676-H-5 MSD
 Matrix: Water Lab File ID: UXJ4770.D
 Analysis Method: 8260C Date Collected: 05/10/2016 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 05/18/2016 19:42
 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.: 230805 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		79-120
460-00-4	4-Bromofluorobenzene (Surr)	88		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64717-B-2 MSD
 Matrix: Water Lab File ID: UXC8065.D
 Analysis Method: 8260C Date Collected: 05/10/2016 10:40
 Sample wt/vol: 5 (mL) Date Analyzed: 05/19/2016 19:40
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	4350		500	220
79-34-5	1,1,2,2-Tetrachloroethane	4190		500	110
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5160		500	230
75-34-3	1,1-Dichloroethane	5240		500	150
75-35-4	1,1-Dichloroethene	5050		500	230
120-82-1	1,2,4-Trichlorobenzene	4310		500	160
96-12-8	1,2-Dibromo-3-Chloropropane	2420		1000	410
106-93-4	Ethylene Dibromide	4270		500	160
95-50-1	1,2-Dichlorobenzene	4950		500	130
107-06-2	1,2-Dichloroethane	5480		500	120
78-87-5	1,2-Dichloropropane	5290		500	130
541-73-1	1,3-Dichlorobenzene	4820		500	95
106-46-7	1,4-Dichlorobenzene	4890		500	140
78-93-3	2-Butanone (MEK)	7690		5000	270
591-78-6	2-Hexanone	6880		5000	240
108-10-1	4-Methyl-2-pentanone (MIBK)	7480		5000	500
67-64-1	Acetone	7100		5000	470
71-43-2	Benzene	5140		500	180
75-27-4	Dichlorobromomethane	4380		500	150
75-25-2	Bromoform	2680		500	280
74-83-9	Bromomethane	6980		500	220
75-15-0	Carbon disulfide	5300		500	190
56-23-5	Carbon tetrachloride	3790		500	220
108-90-7	Chlorobenzene	4870		500	130
75-00-3	Chloroethane	5630		500	160
67-66-3	Chloroform	5200		500	130
74-87-3	Chloromethane	4860		500	220
156-59-2	cis-1,2-Dichloroethene	16500		500	130
10061-01-5	cis-1,3-Dichloropropene	3460		500	230
124-48-1	Chlorodibromomethane	3340		500	220
75-71-8	Dichlorodifluoromethane	3530		500	160
100-41-4	Ethylbenzene	4970		500	130
98-82-8	Isopropylbenzene	5030		500	180
1634-04-4	Methyl tert-butyl ether	3240		500	100
75-09-2	Methylene Chloride	5470		500	170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64717-B-2 MSD
 Matrix: Water Lab File ID: UXC8065.D
 Analysis Method: 8260C Date Collected: 05/10/2016 10:40
 Sample wt/vol: 5 (mL) Date Analyzed: 05/19/2016 19:40
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	4940		500	230
127-18-4	Tetrachloroethene	4590		500	160
108-88-3	Toluene	5070		500	120
156-60-5	trans-1,2-Dichloroethene	5340		500	150
10061-02-6	trans-1,3-Dichloropropene	2670		500	280
79-01-6	Trichloroethene	6170		500	110
75-69-4	Trichlorofluoromethane	10100		500	250
75-01-4	Vinyl chloride	7310		500	150
1330-20-7	Xylenes, Total	9890		1000	260

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		79-120
460-00-4	4-Bromofluorobenzene (Surr)	101		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		78-125

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: A3UX11 Start Date: 04/20/2016 08:39

Analysis Batch Number: 226738 End Date: 04/20/2016 17:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-226738/1		04/20/2016 08:39	1	BFB6420A.D	DB-624 0.18 (mm)
STD8260 240-226738/2 IC		04/20/2016 09:25	1	UXJ3913.D	DB-624 0.18 (mm)
STD8260 240-226738/3 IC		04/20/2016 09:48	1	UXJ3914.D	DB-624 0.18 (mm)
STD8260 240-226738/4 ICIS		04/20/2016 10:10	1	UXJ3915.D	DB-624 0.18 (mm)
STD8260 240-226738/5 IC		04/20/2016 10:33	1	UXJ3916.D	DB-624 0.18 (mm)
STD8260 240-226738/6 IC		04/20/2016 10:56	1	UXJ3917.D	DB-624 0.18 (mm)
STD8260 240-226738/7 IC		04/20/2016 11:18	1	UXJ3918.D	DB-624 0.18 (mm)
ICV 240-226738/14		04/20/2016 12:08	1	UXJ3919.D	DB-624 0.18 (mm)
STD6 240-226738/8 IC		04/20/2016 12:31	1		DB-624 0.18 (mm)
STD5 240-226738/9 IC		04/20/2016 12:54	1		DB-624 0.18 (mm)
STD4 240-226738/10 IC		04/20/2016 13:16	1		DB-624 0.18 (mm)
STD3 240-226738/11 IC		04/20/2016 13:39	1		DB-624 0.18 (mm)
STD2 240-226738/12 IC		04/20/2016 14:02	1		DB-624 0.18 (mm)
STD1 240-226738/13 IC		04/20/2016 14:24	1		DB-624 0.18 (mm)
ICV 240-226738/15		04/20/2016 14:47	1	UXJ3926.D	DB-624 0.18 (mm)
STDHT6 240-226738/17 IC		04/20/2016 15:10	1		DB-624 0.18 (mm)
STDHT5 240-226738/18 IC		04/20/2016 15:33	1		DB-624 0.18 (mm)
STDHT4 240-226738/19 IC		04/20/2016 15:55	1		DB-624 0.18 (mm)
STDHT3 240-226738/20 IC		04/20/2016 16:18	1		DB-624 0.18 (mm)
STDHT2 240-226738/21 IC		04/20/2016 16:41	1		DB-624 0.18 (mm)
STDHT1 240-226738/22 IC		04/20/2016 17:04	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: A3UX11 Start Date: 05/13/2016 08:17

Analysis Batch Number: 230196 End Date: 05/13/2016 15:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-230196/1		05/13/2016 08:17	1	BFB6513.D	DB-624 0.18 (mm)
CCVIS 240-230196/2		05/13/2016 09:07	1	UXJ4602.D	DB-624 0.18 (mm)
LCS 240-230196/4		05/13/2016 09:30	1	UXJ4603.D	DB-624 0.18 (mm)
CCV 240-230196/3		05/13/2016 09:52	1	UXJ4604.D	DB-624 0.18 (mm)
ZZZZZ		05/13/2016 10:15	1		DB-624 0.18 (mm)
MB 240-230196/6		05/13/2016 10:38	1	UXJ4606.D	DB-624 0.18 (mm)
ZZZZZ		05/13/2016 10:59	500		DB-624 0.18 (mm)
ZZZZZ		05/13/2016 12:07	20		DB-624 0.18 (mm)
ZZZZZ		05/13/2016 12:30	100		DB-624 0.18 (mm)
ZZZZZ		05/13/2016 12:52	1		DB-624 0.18 (mm)
ZZZZZ		05/13/2016 13:15	1		DB-624 0.18 (mm)
ZZZZZ		05/13/2016 13:38	16666. 67		DB-624 0.18 (mm)
ZZZZZ		05/13/2016 14:00	16666. 67		DB-624 0.18 (mm)
ZZZZZ		05/13/2016 14:23	1		DB-624 0.18 (mm)
ZZZZZ		05/13/2016 14:46	1		DB-624 0.18 (mm)
240-64548-1		05/13/2016 15:08	1	UXJ4618.D	DB-624 0.18 (mm)
240-64548-3		05/13/2016 15:54	1	UXJ4620.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: A3UX11 Start Date: 05/16/2016 07:10

Analysis Batch Number: 230444 End Date: 05/16/2016 17:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-230444/1		05/16/2016 07:10	1	BFB6516.D	DB-624 0.18 (mm)
CCVIS 240-230444/2		05/16/2016 07:37	1	UXJ4654.D	DB-624 0.18 (mm)
LCS 240-230444/4		05/16/2016 07:59	1	UXJ4655.D	DB-624 0.18 (mm)
CCV 240-230444/3		05/16/2016 08:22	1	UXJ4656.D	DB-624 0.18 (mm)
ZZZZZ		05/16/2016 08:44	1		DB-624 0.18 (mm)
MB 240-230444/6		05/16/2016 09:07	1	UXJ4658.D	DB-624 0.18 (mm)
240-64548-2		05/16/2016 10:46	5	UXJ4662.D	DB-624 0.18 (mm)
ZZZZZ		05/16/2016 11:08	1		DB-624 0.18 (mm)
ZZZZZ		05/16/2016 11:30	1		DB-624 0.18 (mm)
ZZZZZ		05/16/2016 11:53	1		DB-624 0.18 (mm)
240-64615-1		05/16/2016 12:16	1	UXJ4666.D	DB-624 0.18 (mm)
240-64615-2		05/16/2016 12:38	33.33	UXJ4667.D	DB-624 0.18 (mm)
240-64615-3		05/16/2016 13:00	20	UXJ4668.D	DB-624 0.18 (mm)
240-64615-4		05/16/2016 13:22	10	UXJ4669.D	DB-624 0.18 (mm)
ZZZZZ		05/16/2016 13:45	1		DB-624 0.18 (mm)
ZZZZZ		05/16/2016 14:08	1		DB-624 0.18 (mm)
ZZZZZ		05/16/2016 14:30	500		DB-624 0.18 (mm)
ZZZZZ		05/16/2016 14:53	125		DB-624 0.18 (mm)
ZZZZZ		05/16/2016 15:15	200		DB-624 0.18 (mm)
ZZZZZ		05/16/2016 15:38	1		DB-624 0.18 (mm)
ZZZZZ		05/16/2016 16:00	1		DB-624 0.18 (mm)
ZZZZZ		05/16/2016 16:23	1		DB-624 0.18 (mm)
ZZZZZ		05/16/2016 16:46	1		DB-624 0.18 (mm)
240-64546-F-1 MS		05/16/2016 17:31	1	UXJ4680.D	DB-624 0.18 (mm)
240-64546-E-1 MSD		05/16/2016 17:53	1	UXJ4681.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica CantonJob No.: 240-64548-1

SDG No.: _____

Instrument ID: A3UX11Start Date: 05/18/2016 08:31Analysis Batch Number: 230805End Date: 05/18/2016 19:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-230805/1		05/18/2016 08:31	1	BFB6518.D	DB-624 0.18 (mm)
CCVIS 240-230805/2		05/18/2016 08:56	1	UXJ4742.D	DB-624 0.18 (mm)
LCS 240-230805/4		05/18/2016 09:18	1	UXJ4743.D	DB-624 0.18 (mm)
CCV 240-230805/3		05/18/2016 09:41	1	UXJ4744.D	DB-624 0.18 (mm)
ZZZZZ		05/18/2016 10:04	1		DB-624 0.18 (mm)
MB 240-230805/6		05/18/2016 10:26	1	UXJ4746.D	DB-624 0.18 (mm)
ZZZZZ		05/18/2016 11:28	100		DB-624 0.18 (mm)
ZZZZZ		05/18/2016 11:50	5		DB-624 0.18 (mm)
ZZZZZ		05/18/2016 12:12	20		DB-624 0.18 (mm)
ZZZZZ		05/18/2016 12:34	1		DB-624 0.18 (mm)
240-64671-1		05/18/2016 12:57	1	UXJ4752.D	DB-624 0.18 (mm)
240-64671-2		05/18/2016 13:20	2	UXJ4753.D	DB-624 0.18 (mm)
240-64671-3		05/18/2016 13:42	3.33	UXJ4754.D	DB-624 0.18 (mm)
240-64671-4		05/18/2016 14:05	6.67	UXJ4755.D	DB-624 0.18 (mm)
240-64671-5		05/18/2016 14:27	1	UXJ4756.D	DB-624 0.18 (mm)
240-64671-7		05/18/2016 14:50	1	UXJ4757.D	DB-624 0.18 (mm)
ZZZZZ		05/18/2016 15:12	100		DB-624 0.18 (mm)
ZZZZZ		05/18/2016 15:35	1666.67		DB-624 0.18 (mm)
ZZZZZ		05/18/2016 15:58	2.5		DB-624 0.18 (mm)
ZZZZZ		05/18/2016 16:20	2.5		DB-624 0.18 (mm)
ZZZZZ		05/18/2016 16:43	1		DB-624 0.18 (mm)
ZZZZZ		05/18/2016 17:05	1		DB-624 0.18 (mm)
ZZZZZ		05/18/2016 17:28	1		DB-624 0.18 (mm)
ZZZZZ		05/18/2016 17:50	1		DB-624 0.18 (mm)
ZZZZZ		05/18/2016 18:13	1		DB-624 0.18 (mm)
240-64676-E-5 MS		05/18/2016 19:20	1	UXJ4769.D	DB-624 0.18 (mm)
240-64676-H-5 MSD		05/18/2016 19:42	1	UXJ4770.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica CantonJob No.: 240-64548-1

SDG No.: _____

Instrument ID: A3UX15Start Date: 04/19/2016 13:14Analysis Batch Number: 226549End Date: 04/19/2016 21:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-226549/1		04/19/2016 13:14	1	BFB578.D	DB-624 0.18 (mm)
STD8260 240-226549/2 IC		04/19/2016 14:03	1	UXC7212B.D	DB-624 0.18 (mm)
STD8260 240-226549/3 IC		04/19/2016 14:25	1	UXC7213B.D	DB-624 0.18 (mm)
STD8260 240-226549/4 ICIS		04/19/2016 14:48	1	UXC7214.D	DB-624 0.18 (mm)
STD8260 240-226549/5 IC		04/19/2016 15:11	1	UXC7215.D	DB-624 0.18 (mm)
STD8260 240-226549/6 IC		04/19/2016 15:33	1	UXC7216.D	DB-624 0.18 (mm)
STD8260 240-226549/7 IC		04/19/2016 15:56	1	UXC7217.D	DB-624 0.18 (mm)
ICV 240-226549/14		04/19/2016 16:19	1	UXC7218.D	DB-624 0.18 (mm)
STD 240-226549/8 IC		04/19/2016 16:41	1		DB-624 0.18 (mm)
STD 240-226549/9 IC		04/19/2016 17:03	1		DB-624 0.18 (mm)
STD 240-226549/10 IC		04/19/2016 17:26	1		DB-624 0.18 (mm)
STD 240-226549/11 IC		04/19/2016 17:48	1		DB-624 0.18 (mm)
STD 240-226549/12 IC		04/19/2016 18:10	1		DB-624 0.18 (mm)
STD 240-226549/13 IC		04/19/2016 18:32	1		DB-624 0.18 (mm)
ICV 240-226549/15		04/19/2016 18:55	1	UXC7225.D	DB-624 0.18 (mm)
STDTHTL6 240-226549/16 IC		04/19/2016 19:17	1		DB-624 0.18 (mm)
STDTHTL5 240-226549/17 IC		04/19/2016 19:39	1		DB-624 0.18 (mm)
STDTHTL4 240-226549/18 IC		04/19/2016 20:01	1		DB-624 0.18 (mm)
STDTHTL3 240-226549/19 IC		04/19/2016 20:24	1		DB-624 0.18 (mm)
STDTHTL2 240-226549/20 IC		04/19/2016 20:46	1		DB-624 0.18 (mm)
STDTHTL1 240-226549/21 IC		04/19/2016 21:09	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: A3UX15 Start Date: 05/19/2016 08:55Analysis Batch Number: 231016 End Date: 05/19/2016 19:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-231016/1		05/19/2016 08:55	1	BFB599.D	DB-624 0.18 (mm)
CCVIS 240-231016/2		05/19/2016 09:32	1	UXC8038.D	DB-624 0.18 (mm)
LCS 240-231016/4		05/19/2016 09:55	1	UXC8039.D	DB-624 0.18 (mm)
CCV 240-231016/3		05/19/2016 10:18	1	UXC8040.D	DB-624 0.18 (mm)
ZZZZZ		05/19/2016 10:41	1		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 11:03	1		DB-624 0.18 (mm)
MB 240-231016/31		05/19/2016 11:25	1	UXC8043.D	DB-624 0.18 (mm)
240-64671-2		05/19/2016 11:47	5	UXC8044.D	DB-624 0.18 (mm)
ZZZZZ		05/19/2016 12:10	1		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 12:32	500		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 12:55	16.67		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 13:17	1		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 13:39	200		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 14:01	100		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 14:26	66.67		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 15:11	1		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 15:33	1		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 15:56	1		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 16:19	1		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 16:42	1		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 17:04	1		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 17:48	1		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 18:11	1		DB-624 0.18 (mm)
ZZZZZ		05/19/2016 18:55	1		DB-624 0.18 (mm)
240-64717-B-2 MS		05/19/2016 19:17	500	UXC8064.D	DB-624 0.18 (mm)
240-64717-B-2 MSD		05/19/2016 19:40	500	UXC8065.D	DB-624 0.18 (mm)

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): HP-PLOT/Q ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TFE1 #
MRC-MW-14B-050616	240-64548-2	66
MRC-MW-14B-050616	240-64548-2	96
SWMW-1I-050616	240-64548-3	92
MRC-MW-12A-050916	240-64615-2	102
G-SWMW-3I-050916	240-64615-4	101
G-SWMW-4I-051016	240-64671-2	93
G-SWMW-2I-051016	240-64671-5	96
	MB 240-229899/29	91
	MB 240-230633/33	93
	MB 240-231220/4	112
	MB 240-231640/4	106
	LCS 240-229899/30	94
	LCS 240-230633/34	94
	LCS 240-231220/5	112
	LCS 240-231640/5	107
MRC-MW-14B-050616 MS	240-64548-2 MS	93
	240-64579-O-3 MS	102
MRC-MW-14B-050616 MSD	240-64548-2 MSD	90
	240-64579-N-3 MSD	85

TFE = 1,1,1-Trifluoroethane

QC LIMITS
66-132

Column to be used to flag recovery values

FORM II RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0051130.D
 Lab ID: LCS 240-229899/30 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	357	102	81-120	
Ethane	374	406	109	80-120	
Methane	199	199	100	76-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0051734.D

Lab ID: LCS 240-230633/34 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	304	87	81-120	
Ethane	374	347	93	80-120	
Methane	199	174	87	76-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0052005.D
 Lab ID: LCS 240-231220/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	391	112	81-120	
Ethane	374	425	114	80-120	
Methane	199	205	103	76-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0052405.D
 Lab ID: LCS 240-231640/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	387	111	81-120	
Ethane	374	423	113	80-120	
Methane	199	203	102	76-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0051736.D

Lab ID: 240-64548-2 MS Client ID: MRC-MW-14B-050616 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethene	3490	63	3020	85	60-120	
Ethane	3740	5.0 U	3380	90	61-120	
Methane	1990	18000	19900	114	34-153	4

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0052008.D
 Lab ID: 240-64579-O-3 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Methane	199	430	681	127	34-153	

Column to be used to flag recovery and RPD values
 FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0051737.D

Lab ID: 240-64548-2 MSD Client ID: MRC-MW-14B-050616 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethene	3490	2930	82	3	17	60-120	
Ethane	3740	3260	87	3	21	61-120	
Methane	1990	19600	99	1	22	34-153	4

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0052009.D
 Lab ID: 240-64579-N-3 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane	199	550	61	21	22	34-153	

Column to be used to flag recovery and RPD values
 FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: MB 240-229899/29
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) RSK0051129.D Lab File ID: (2) _____
 Date Analyzed: (1) 05/12/2016 00:33 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) HP-PLOT/Q 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
	LCS 240-229899/30	05/12/2016 00:51	
MRC-MW-14B-050616	240-64548-2	05/12/2016 06:17	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: MB 240-230633/33
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) RSK0051733.D Lab File ID: (2) _____
 Date Analyzed: (1) 05/17/2016 23:47 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) HP-PLOT/Q 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
	LCS 240-230633/34	05/18/2016 00:04	
MRC-MW-14B-050616	240-64548-2	05/18/2016 00:21	
MRC-MW-14B-050616 MS	240-64548-2 MS	05/18/2016 00:38	
MRC-MW-14B-050616 MSD	240-64548-2 MSD	05/18/2016 00:55	
SWMW-1I-050616	240-64548-3	05/18/2016 01:13	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: MB 240-231220/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) RSK0052004.D Lab File ID: (2) _____
 Date Analyzed: (1) 05/20/2016 14:08 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) HP-PLOT/Q 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
	LCS 240-231220/5	05/20/2016 14:25	
	240-64579-O-3 MS	05/20/2016 15:17	
	240-64579-N-3 MSD	05/20/2016 15:35	
MRC-MW-12A-050916	240-64615-2	05/20/2016 17:18	
G-SWMW-3I-050916	240-64615-4	05/20/2016 17:36	
G-SWMW-2I-051016	240-64671-5	05/20/2016 19:19	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: MB 240-231640/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) RSK0052404.D Lab File ID: (2) _____
 Date Analyzed: (1) 05/24/2016 14:36 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) HP-PLOT/Q 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
	LCS 240-231640/5	05/24/2016 14:53	
G-SWMW-4I-051016	240-64671-2	05/24/2016 16:02	

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Sample No.: STD3 240-214437/5 Date Analyzed: 01/18/2016 16:06
 Instrument ID: ZPID GC Column: _____ ID: ()
 Lab File ID (Standard): Z0011805.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
INITIAL CALIBRATION SURROGATE				3.33		
UPPER LIMIT				3.38		
LOWER LIMIT				3.28		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD3 240-214437/5 ICRT		01/18/2016 16:06	Z0011805.D	3.33		
ICV 240-214437/9		01/18/2016 17:08	Z0011809.D	3.33		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Sample No.: CCVRT 240-229899/28 Date Analyzed: 05/12/2016 00:16
 Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53 (mm)
 Lab File ID (Standard): RSK0051128.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.33		
UPPER LIMIT				3.38		
LOWER LIMIT				3.28		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-229899/28		05/12/2016 00:16	RSK0051128.D	3.33		
MB 240-229899/29		05/12/2016 00:33	RSK0051129.D	3.33		
LCS 240-229899/30		05/12/2016 00:51	RSK0051130.D	3.33		
CCV 240-229899/39		05/12/2016 03:25	RSK0051139.D	3.34		
240-64548-2	MRC-MW-14B-050616	05/12/2016 06:17	RSK0051149.D	3.34		
CCV 240-229899/50		05/12/2016 06:34	RSK0051150.D	3.33		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Sample No.: CCVRT 240-230633/32 Date Analyzed: 05/17/2016 23:30
 Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53 (mm)
 Lab File ID (Standard): RSK0051732.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.33		
UPPER LIMIT				3.38		
LOWER LIMIT				3.28		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-230633/32		05/17/2016 23:30	RSK0051732.D	3.33		
MB 240-230633/33		05/17/2016 23:47	RSK0051733.D	3.33		
LCS 240-230633/34		05/18/2016 00:04	RSK0051734.D	3.33		
240-64548-2	MRC-MW-14B-050616	05/18/2016 00:21	RSK0051735.D	3.33		
240-64548-2 MS	MRC-MW-14B-050616 MS	05/18/2016 00:38	RSK0051736.D	3.33		
240-64548-2 MSD	MRC-MW-14B-050616 MSD	05/18/2016 00:55	RSK0051737.D	3.33		
240-64548-3	SWMW-1I-050616	05/18/2016 01:13	RSK0051738.D	3.33		
CCV 240-230633/47		05/18/2016 03:47	RSK0051747.D	3.33		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Sample No.: CCVRT 240-231220/3 Date Analyzed: 05/20/2016 13:51
 Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53 (mm)
 Lab File ID (Standard): RSK0052003.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.33		
UPPER LIMIT				3.38		
LOWER LIMIT				3.28		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-231220/3		05/20/2016 13:51	RSK0052003.D	3.33		
MB 240-231220/4		05/20/2016 14:08	RSK0052004.D	3.33		
LCS 240-231220/5		05/20/2016 14:25	RSK0052005.D	3.33		
240-64579-O-3 MS		05/20/2016 15:17	RSK0052008.D	3.33		
240-64579-N-3 MSD		05/20/2016 15:35	RSK0052009.D	3.33		
CCV 240-231220/14		05/20/2016 17:01	RSK0052014.D	3.33		
240-64615-2	MRC-MW-12A-050916	05/20/2016 17:18	RSK0052015.D	3.33		
240-64615-4	G-SWMW-3I-050916	05/20/2016 17:36	RSK0052016.D	3.33		
240-64671-5	G-SWMW-2I-051016	05/20/2016 19:19	RSK0052022.D	3.33		
CCV 240-231220/25		05/20/2016 20:11	RSK0052025.D	3.33		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Sample No.: CCVRT 240-231640/3 Date Analyzed: 05/24/2016 14:18
 Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53 (mm)
 Lab File ID (Standard): RSK0052403.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.34		
UPPER LIMIT				3.39		
LOWER LIMIT				3.29		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-231640/3		05/24/2016 14:18	RSK0052403.D	3.34		
MB 240-231640/4		05/24/2016 14:36	RSK0052404.D	3.33		
LCS 240-231640/5		05/24/2016 14:53	RSK0052405.D	3.34		
240-64671-2	G-SMMW-4I-051016	05/24/2016 16:02	RSK0052409.D	3.33		
CCV 240-231640/14		05/24/2016 17:29	RSK0052414.D	3.33		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: MRC-MW-14B-050616 Lab Sample ID: 240-64548-2
 Matrix: Water Lab File ID: RSK0051149.D
 Analysis Method: RSK-175 Date Collected: 05/06/2016 11:50
 Sample wt/vol: 33 (mL) Date Analyzed: 05/12/2016 06:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 229899 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	54		0.50	0.13
74-84-0	Ethane	0.14	J	0.50	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	66		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: MRC-MW-14B-050616 Lab Sample ID: 240-64548-2
 Matrix: Water Lab File ID: RSK0051735.D
 Analysis Method: RSK-175 Date Collected: 05/06/2016 11:50
 Sample wt/vol: 33 (mL) Date Analyzed: 05/18/2016 00:21
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230633 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	18000		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	96		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: SWMW-1I-050616 Lab Sample ID: 240-64548-3
 Matrix: Water Lab File ID: RSK0051738.D
 Analysis Method: RSK-175 Date Collected: 05/06/2016 13:25
 Sample wt/vol: 33 (mL) Date Analyzed: 05/18/2016 01:13
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230633 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	140		5.0	1.3
74-84-0	Ethane	5.0	U	5.0	1.4
74-82-8	Methane	14000		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	92		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: MRC-MW-12A-050916 Lab Sample ID: 240-64615-2
 Matrix: Water Lab File ID: RSK0052015.D
 Analysis Method: RSK-175 Date Collected: 05/09/2016 10:55
 Sample wt/vol: 33 (mL) Date Analyzed: 05/20/2016 17:18
 Soil Aliquot Vol.: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231220 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	9.7		5.0	1.3
74-84-0	Ethane	5.0	U	5.0	1.4
74-82-8	Methane	5000		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	102		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-3I-050916 Lab Sample ID: 240-64615-4
 Matrix: Water Lab File ID: RSK0052016.D
 Analysis Method: RSK-175 Date Collected: 05/09/2016 14:15
 Sample wt/vol: 33 (mL) Date Analyzed: 05/20/2016 17:36
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231220 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	11		5.0	1.3
74-84-0	Ethane	5.0	U	5.0	1.4
74-82-8	Methane	11000		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	101		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-4I-051016 Lab Sample ID: 240-64671-2
 Matrix: Water Lab File ID: RSK0052409.D
 Analysis Method: RSK-175 Date Collected: 05/10/2016 10:00
 Sample wt/vol: 33 (mL) Date Analyzed: 05/24/2016 16:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231640 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	12		0.50	0.13
74-84-0	Ethane	0.14	J	0.50	0.14
74-82-8	Methane	18000	E	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	93		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: G-SWMW-2I-051016 Lab Sample ID: 240-64671-5
 Matrix: Water Lab File ID: RSK0052022.D
 Analysis Method: RSK-175 Date Collected: 05/10/2016 14:30
 Sample wt/vol: 33 (mL) Date Analyzed: 05/20/2016 19:19
 Soil Aliquot Vol.: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231220 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	91		10	2.6
74-84-0	Ethane	10	U	10	2.8
74-82-8	Methane	16000		10	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	96		66-132

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Methane	1.178	1.179	1.178	1.177	1.176	1.175					1.125 - 1.225	1.177
Ethene	1.871	1.872	1.872	1.870	1.869	1.865					1.815 - 1.915	1.870
Acetylene	1.985	1.982	1.982	1.984	1.983	1.979					1.929 - 2.029	1.983
Ethane	2.191	2.192	2.188	2.190	2.189	2.179					1.979 - 2.379	2.188
Propane	4.535	4.535	4.532	4.530	4.526	4.505					4.455 - 4.555	4.527
1,1,1-Trifluoroethane	3.331	3.332	3.328	3.324	3.319						3.228 - 3.428	3.327

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.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								
Methane	16635 16339	16394 17321	16338	16069	Ave		16516.1974			2.6			30.0			
Ethene	12459 15191	15005 16050	15614	14955	Ave		14878.7453			8.4			30.0			
Acetylene	5207.9 6736.9	5918.0 6848.7	6621.7	6347.3	Ave		6280.08282			9.9			30.0			
Ethane	12801 15860	15600 17080	16229	15623	Ave		15532.1681			9.3			30.0			
Propane	12702 15394	15026 17064	15933	14986	Ave		15184.1425			9.5			30.0			
1,1,1-Trifluoroethane	6027.5 6174.1	6495.1	6443.1	6377.0	Ave		6303.36685			3.1			30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-64548-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.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
Methane	Ave	4299 34421990	32590	162394	1597146	6493970	0.258 1987	1.99	9.94	99.4	397
Ethene	Ave	5654 56017687	52380	272536	2610268	10604119	0.454 3490	3.49	17.5	175	698
Acetylene	Ave	2187 22117246	19117	106950	1025188	4351198	0.420 3229	3.23	16.2	162	646
Ethane	Ave	6223 63858213	58336	303430	2921002	11859185	0.486 3739	3.74	18.7	187	748
Propane	Ave	9047 93473662	82323	436476	4105331	16864776	0.712 5478	5.48	27.4	274	1096
1,1,1-Trifluoroethane	Ave	1572249	6776913	16806617	33268209	64418942	261	1043	2608	5217	10434

Curve Type Legend:

Ave = Average

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: ICV 240-214437/9 Calibration Date: 01/18/2016 17:08
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: Z0011809.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15087		182	199	-8.7	30.0
Ethene	Ave	14879	16432		385	349	10.4	30.0
Acetylene	Ave	6280	6935		357	323	10.4	30.0
Ethane	Ave	15532	17873		430	374	15.1	30.0
Propane	Ave	15184	18496		665	546	21.8	30.0
1,1,1-Trifluoroethane	Ave	6303	7158		3470	3050	13.6	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: ICV 240-214437/9 Calibration Date: 01/18/2016 17:08
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: Z0011809.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.98	1.93	2.03
Ethane	2.19	1.98	2.38
Propane	4.53	4.46	4.56
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-229899/28 Calibration Date: 05/12/2016 00:16
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0051128.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	16113		194	199	-2.4	30.0
Ethene	Ave	14879	14727		345	349	-1.0	30.0
Acetylene	Ave	6280	6528		336	323	3.9	30.0
Ethane	Ave	15532	16300		392	374	4.9	30.0
Propane	Ave	15184	15719		567	548	3.5	30.0
1,1,1-Trifluoroethane	Ave	6303	6218		3010	3050	-1.4	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-229899/28 Calibration Date: 05/12/2016 00:16
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0051128.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.99	1.94	2.04
Ethane	2.19	1.99	2.39
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-229899/39 Calibration Date: 05/12/2016 03:25
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0051139.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15892		191	199	-3.8	30.0
Ethene	Ave	14879	14111		331	349	-5.2	30.0
Acetylene	Ave	6280	5921		304	323	-5.7	30.0
Ethane	Ave	15532	15654		377	374	0.8	30.0
Propane	Ave	15184	14608		527	548	-3.8	30.0
1,1,1-Trifluoroethane	Ave	6303	5717		2770	3050	-9.3	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-229899/39 Calibration Date: 05/12/2016 03:25
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0051139.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.99	1.94	2.04
Ethane	2.19	1.99	2.39
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-229899/50 Calibration Date: 05/12/2016 06:34
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0051150.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15951		192	199	-3.4	30.0
Ethene	Ave	14879	13959		327	349	-6.2	30.0
Acetylene	Ave	6280	5898		303	323	-6.1	30.0
Ethane	Ave	15532	15674		377	374	0.9	30.0
Propane	Ave	15184	14885		537	548	-2.0	30.0
1,1,1-Trifluoroethane	Ave	6303	5485		2660	3050	-13.0	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-229899/50 Calibration Date: 05/12/2016 06:34
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0051150.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.17	1.12	1.22
Ethene	1.87	1.82	1.92
Acetylene	1.98	1.93	2.03
Ethane	2.19	1.99	2.39
Propane	4.53	4.48	4.58
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-230633/32 Calibration Date: 05/17/2016 23:30
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0051732.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	13177		159	199	-20.2	30.0
Ethene	Ave	14879	11828		277	349	-20.5	30.0
Acetylene	Ave	6280	4752		244	323	-24.3	30.0
Ethane	Ave	15532	13069		315	374	-15.9	30.0
Propane	Ave	15184	12726		459	548	-16.2	30.0
1,1,1-Trifluoroethane	Ave	6303	5882		2850	3050	-6.7	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-230633/32 Calibration Date: 05/17/2016 23:30
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0051732.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.99	1.94	2.04
Ethane	2.19	1.99	2.39
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-230633/47 Calibration Date: 05/18/2016 03:47
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0051747.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	13668		164	199	-17.2	30.0
Ethene	Ave	14879	11644		273	349	-21.7	30.0
Acetylene	Ave	6280	4919		253	323	-21.7	30.0
Ethane	Ave	15532	12959		312	374	-16.6	30.0
Propane	Ave	15184	12085		436	548	-20.4	30.0
1,1,1-Trifluoroethane	Ave	6303	5381		2610	3050	-14.6	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-230633/47 Calibration Date: 05/18/2016 03:47
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0051747.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.98	1.93	2.03
Ethane	2.19	1.99	2.39
Propane	4.53	4.48	4.58
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-231220/3 Calibration Date: 05/20/2016 13:51
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052003.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15809		190	199	-4.3	30.0
Ethene	Ave	14879	15479		363	349	4.0	30.0
Acetylene	Ave	6280	7176		369	323	14.3	30.0
Ethane	Ave	15532	16309		393	374	5.0	30.0
Propane	Ave	15184	16372		591	548	7.8	30.0
1,1,1-Trifluoroethane	Ave	6303	7050		3410	3050	11.8	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-231220/3 Calibration Date: 05/20/2016 13:51
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052003.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.99	1.94	2.04
Ethane	2.19	1.99	2.39
Propane	4.53	4.48	4.58
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-231220/14 Calibration Date: 05/20/2016 17:01
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052014.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15671		189	199	-5.1	30.0
Ethene	Ave	14879	14438		339	349	-3.0	30.0
Acetylene	Ave	6280	5738		295	323	-8.6	30.0
Ethane	Ave	15532	15670		377	374	0.9	30.0
Propane	Ave	15184	15229		549	548	0.3	30.0
1,1,1-Trifluoroethane	Ave	6303	6181		2990	3050	-1.9	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-231220/14 Calibration Date: 05/20/2016 17:01
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052014.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.17	1.12	1.22
Ethene	1.87	1.82	1.92
Acetylene	1.98	1.93	2.03
Ethane	2.19	1.99	2.39
Propane	4.53	4.48	4.58
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-231220/25 Calibration Date: 05/20/2016 20:11
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052025.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15514		187	199	-6.1	30.0
Ethene	Ave	14879	13827		324	349	-7.1	30.0
Acetylene	Ave	6280	5702		293	323	-9.2	30.0
Ethane	Ave	15532	15137		364	374	-2.5	30.0
Propane	Ave	15184	14302		516	548	-5.8	30.0
1,1,1-Trifluoroethane	Ave	6303	5800		2810	3050	-8.0	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-231220/25 Calibration Date: 05/20/2016 20:11
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052025.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.99	1.94	2.04
Ethane	2.19	1.99	2.39
Propane	4.53	4.48	4.58
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-231220/42 Calibration Date: 05/21/2016 01:04
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052042.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	14391		173	199	-12.9	30.0
Ethene	Ave	14879	12378		290	349	-16.8	30.0
Acetylene	Ave	6280	5197		267	323	-17.2	30.0
Ethane	Ave	15532	13747		331	374	-11.5	30.0
Propane	Ave	15184	12852		464	548	-15.4	30.0
1,1,1-Trifluoroethane	Ave	6303	5592		2710	3050	-11.3	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-231220/42 Calibration Date: 05/21/2016 01:04
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052042.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.17	1.12	1.22
Ethene	1.87	1.82	1.92
Acetylene	1.98	1.93	2.03
Ethane	2.19	1.99	2.39
Propane	4.53	4.48	4.58
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-231640/3 Calibration Date: 05/24/2016 14:18
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052403.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	14830		178	199	-10.2	30.0
Ethene	Ave	14879	14816		348	349	-0.4	30.0
Acetylene	Ave	6280	6896		355	323	9.8	30.0
Ethane	Ave	15532	15656		377	374	0.8	30.0
Propane	Ave	15184	15627		564	548	2.9	30.0
1,1,1-Trifluoroethane	Ave	6303	6806		3300	3050	8.0	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-231640/3 Calibration Date: 05/24/2016 14:18
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052403.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-231640/14 Calibration Date: 05/24/2016 17:29
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052414.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	16132		194	199	-2.3	30.0
Ethene	Ave	14879	15102		354	349	1.5	30.0
Acetylene	Ave	6280	6128		315	323	-2.4	30.0
Ethane	Ave	15532	16461		396	374	6.0	30.0
Propane	Ave	15184	16013		578	548	5.5	30.0
1,1,1-Trifluoroethane	Ave	6303	6251		3030	3050	-0.8	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Lab Sample ID: CCV 240-231640/14 Calibration Date: 05/24/2016 17:29
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0052414.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.99	1.94	2.04
Ethane	2.19	1.99	2.39
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-229899/29
 Matrix: Water Lab File ID: RSK0051129.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 05/12/2016 00:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 229899 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	91		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-230633/33
 Matrix: Water Lab File ID: RSK0051733.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 05/17/2016 23:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230633 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	93		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-231220/4
 Matrix: Water Lab File ID: RSK0052004.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 05/20/2016 14:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231220 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	112		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-231640/4
 Matrix: Water Lab File ID: RSK0052404.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 05/24/2016 14:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231640 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	106		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-229899/30
 Matrix: Water Lab File ID: RSK0051130.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 05/12/2016 00:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 229899 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	357		0.50	0.13
74-84-0	Ethane	406		0.50	0.14
74-82-8	Methane	199		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	94		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-230633/34
 Matrix: Water Lab File ID: RSK0051734.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 05/18/2016 00:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230633 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	304		0.50	0.13
74-84-0	Ethane	347		0.50	0.14
74-82-8	Methane	174		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	94		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-231220/5
 Matrix: Water Lab File ID: RSK0052005.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 05/20/2016 14:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231220 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	391		0.50	0.13
74-84-0	Ethane	425		0.50	0.14
74-82-8	Methane	205		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	112		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-231640/5
 Matrix: Water Lab File ID: RSK0052405.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 05/24/2016 14:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231640 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	387		0.50	0.13
74-84-0	Ethane	423		0.50	0.14
74-82-8	Methane	203		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	107		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: MRC-MW-14B-050616 MS Lab Sample ID: 240-64548-2 MS
 Matrix: Water Lab File ID: RSK0051736.D
 Analysis Method: RSK-175 Date Collected: 05/06/2016 11:50
 Sample wt/vol: 33 (mL) Date Analyzed: 05/18/2016 00:38
 Soil Aliquot Vol.: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230633 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	3020		5.0	1.3
74-84-0	Ethane	3380		5.0	1.4
74-82-8	Methane	19900		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	93		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64579-O-3 MS
 Matrix: Water Lab File ID: RSK0052008.D
 Analysis Method: RSK-175 Date Collected: 05/06/2016 10:10
 Sample wt/vol: 33 (mL) Date Analyzed: 05/20/2016 15:17
 Soil Aliquot Vol: _____ Dilution Factor: 1.0001
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231220 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	681		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	102		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: MRC-MW-14B-050616 MSD Lab Sample ID: 240-64548-2 MSD
 Matrix: Water Lab File ID: RSK0051737.D
 Analysis Method: RSK-175 Date Collected: 05/06/2016 11:50
 Sample wt/vol: 33 (mL) Date Analyzed: 05/18/2016 00:55
 Soil Aliquot Vol.: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 230633 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	2930		5.0	1.3
74-84-0	Ethane	3260		5.0	1.4
74-82-8	Methane	19600		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	90		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-64579-N-3 MSD
 Matrix: Water Lab File ID: RSK0052009.D
 Analysis Method: RSK-175 Date Collected: 05/06/2016 10:10
 Sample wt/vol: 33 (mL) Date Analyzed: 05/20/2016 15:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 231220 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	550		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	85		66-132

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ZPID Start Date: 01/18/2016 15:34

Analysis Batch Number: 214437 End Date: 01/18/2016 17:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-214437/3 IC		01/18/2016 15:34	1	Z0011803.D	
STD2 240-214437/4 IC		01/18/2016 15:50	1	Z0011804.D	
STD3 240-214437/5 ICRT		01/18/2016 16:06	1	Z0011805.D	
STD4 240-214437/6 IC		01/18/2016 16:21	1	Z0011806.D	
STD5 240-214437/7 IC		01/18/2016 16:37	1	Z0011807.D	
STD6 240-214437/8 IC		01/18/2016 16:53	1	Z0011808.D	
ICV 240-214437/9		01/18/2016 17:08	1	Z0011809.D	

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ZPID Start Date: 05/12/2016 00:16

Analysis Batch Number: 229899 End Date: 05/12/2016 07:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-229899/28		05/12/2016 00:16	1	RSK0051128.D	HP-PLOT/Q 0.53 (mm)
MB 240-229899/29		05/12/2016 00:33	1	RSK0051129.D	HP-PLOT/Q 0.53 (mm)
LCS 240-229899/30		05/12/2016 00:51	1	RSK0051130.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 01:08	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 01:25	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 01:42	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 01:59	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 02:17	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 02:34	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 02:51	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 03:08	1		HP-PLOT/Q 0.53 (mm)
CCV 240-229899/39		05/12/2016 03:25	1	RSK0051139.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 03:42	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 03:59	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 04:17	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 04:34	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 04:51	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 05:08	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 05:25	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 05:42	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 06:00	1		HP-PLOT/Q 0.53 (mm)
240-64548-2		05/12/2016 06:17	1	RSK0051149.D	HP-PLOT/Q 0.53 (mm)
CCV 240-229899/50		05/12/2016 06:34	1	RSK0051150.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/12/2016 06:51	1		HP-PLOT/Q 0.53 (mm)
CCV 240-229899/52		05/12/2016 07:08	1		HP-PLOT/Q 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ZPID Start Date: 05/17/2016 22:55Analysis Batch Number: 230633 End Date: 05/18/2016 03:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/17/2016 22:55	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/17/2016 23:12	1		HP-PLOT/Q 0.53 (mm)
CCVRT 240-230633/32		05/17/2016 23:30	1	RSK0051732.D	HP-PLOT/Q 0.53 (mm)
MB 240-230633/33		05/17/2016 23:47	1	RSK0051733.D	HP-PLOT/Q 0.53 (mm)
LCS 240-230633/34		05/18/2016 00:04	1	RSK0051734.D	HP-PLOT/Q 0.53 (mm)
240-64548-2		05/18/2016 00:21	10	RSK0051735.D	HP-PLOT/Q 0.53 (mm)
240-64548-2 MS		05/18/2016 00:38	10	RSK0051736.D	HP-PLOT/Q 0.53 (mm)
240-64548-2 MSD		05/18/2016 00:55	10	RSK0051737.D	HP-PLOT/Q 0.53 (mm)
240-64548-3		05/18/2016 01:13	10	RSK0051738.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/18/2016 01:30	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/18/2016 01:47	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/18/2016 02:04	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/18/2016 02:21	1		HP-PLOT/Q 0.53 (mm)
CCV 240-230633/43		05/18/2016 02:38	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/18/2016 02:55	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/18/2016 03:13	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/18/2016 03:30	1		HP-PLOT/Q 0.53 (mm)
CCV 240-230633/47		05/18/2016 03:47	1	RSK0051747.D	HP-PLOT/Q 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica CantonJob No.: 240-64548-1

SDG No.: _____

Instrument ID: ZPIDStart Date: 05/20/2016 13:51Analysis Batch Number: 231220End Date: 05/21/2016 03:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-231220/3		05/20/2016 13:51	1	RSK0052003.D	HP-PLOT/Q 0.53 (mm)
MB 240-231220/4		05/20/2016 14:08	1	RSK0052004.D	HP-PLOT/Q 0.53 (mm)
LCS 240-231220/5		05/20/2016 14:25	1	RSK0052005.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 14:43	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 15:00	1		HP-PLOT/Q 0.53 (mm)
240-64579-O-3 MS		05/20/2016 15:17	1.0001	RSK0052008.D	HP-PLOT/Q 0.53 (mm)
240-64579-N-3 MSD		05/20/2016 15:35	1	RSK0052009.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 15:52	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 16:09	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 16:27	5		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 16:44	1		HP-PLOT/Q 0.53 (mm)
CCV 240-231220/14		05/20/2016 17:01	1	RSK0052014.D	HP-PLOT/Q 0.53 (mm)
240-64615-2		05/20/2016 17:18	10	RSK0052015.D	HP-PLOT/Q 0.53 (mm)
240-64615-4		05/20/2016 17:36	10	RSK0052016.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 17:53	5		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 18:10	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 18:28	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 18:45	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 19:02	20		HP-PLOT/Q 0.53 (mm)
240-64671-5		05/20/2016 19:19	20	RSK0052022.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 19:37	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 19:54	10		HP-PLOT/Q 0.53 (mm)
CCV 240-231220/25		05/20/2016 20:11	1	RSK0052025.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 20:28	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 20:45	1		HP-PLOT/Q 0.53 (mm)
CCV 240-231220/28		05/20/2016 21:03	1		HP-PLOT/Q 0.53 (mm)
CCV 240-231220/31		05/20/2016 21:54	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 22:11	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 22:29	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 22:46	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 23:03	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 23:20	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 23:38	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/20/2016 23:55	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/21/2016 00:12	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/21/2016 00:29	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/21/2016 00:46	1		HP-PLOT/Q 0.53 (mm)
CCVRT 240-231220/42		05/21/2016 01:04	1	RSK0052042.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/21/2016 01:21	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/21/2016 01:38	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/21/2016 01:55	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/21/2016 02:12	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/21/2016 02:29	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/21/2016 02:47	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/21/2016 03:04	1		HP-PLOT/Q 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ZPID Start Date: 05/20/2016 13:51

Analysis Batch Number: 231220 End Date: 05/21/2016 03:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/21/2016 03:21	1		HP-PLOT/Q 0.53 (mm)
CCV 240-231220/51		05/21/2016 03:38	1		HP-PLOT/Q 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ZPID Start Date: 05/24/2016 14:18

Analysis Batch Number: 231640 End Date: 05/24/2016 19:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-231640/3		05/24/2016 14:18	1	RSK0052403.D	HP-PLOT/Q 0.53 (mm)
MB 240-231640/4		05/24/2016 14:36	1	RSK0052404.D	HP-PLOT/Q 0.53 (mm)
LCS 240-231640/5		05/24/2016 14:53	1	RSK0052405.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 15:10	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 15:27	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 15:45	1		HP-PLOT/Q 0.53 (mm)
240-64671-2		05/24/2016 16:02	1	RSK0052409.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 16:20	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 16:37	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 16:54	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 17:11	1		HP-PLOT/Q 0.53 (mm)
CCV 240-231640/14		05/24/2016 17:29	1	RSK0052414.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 17:46	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 18:03	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 18:20	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 18:38	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 18:55	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		05/24/2016 19:12	1		HP-PLOT/Q 0.53 (mm)
CCV 240-231640/21		05/24/2016 19:30	1		HP-PLOT/Q 0.53 (mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton

Job Number: 240-64548-1

SDG No.: _____

Project: Block G GW Remedy

Client Sample ID	Lab Sample ID
<u>MRC-MW-14B-050616</u>	<u>240-64548-2</u>
<u>SWMW-1I-050616</u>	<u>240-64548-3</u>
<u>MRC-MW-12A-050916</u>	<u>240-64615-2</u>
<u>G-SWMW-4I-051016</u>	<u>240-64671-2</u>
<u>G-SWMW-2I-051016</u>	<u>240-64671-5</u>
<u>G-OUTFALL-051016</u>	<u>240-64671-7</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MRC-MW-14B-050616

Lab Sample ID: 240-64548-2

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/06/2016 11:50

Reporting Basis: WET

Date Received: 05/07/2016 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	130000	100	25	ug/L			1	6010C
7439-96-5	Manganese	4900	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: SWMW-1I-050616

Lab Sample ID: 240-64548-3

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/06/2016 13:25

Reporting Basis: WET

Date Received: 05/07/2016 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	6200	100	25	ug/L			1	6010C
7439-96-5	Manganese	3300	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MRC-MW-12A-050916

Lab Sample ID: 240-64615-2

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/09/2016 10:55

Reporting Basis: WET

Date Received: 05/10/2016 10:05

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	110000	100	25	ug/L			1	6010C
7439-96-5	Manganese	4500	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: G-SWMW-4I-051016

Lab Sample ID: 240-64671-2

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/10/2016 10:00

Reporting Basis: WET

Date Received: 05/11/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	60000	100	25	ug/L			1	6010C
7439-96-5	Manganese	780	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: G-SWMW-2I-051016

Lab Sample ID: 240-64671-5

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/10/2016 14:30

Reporting Basis: WET

Date Received: 05/11/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	61000	100	25	ug/L			1	6010C
7439-96-5	Manganese	2600	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: G-OUTFALL-051016

Lab Sample ID: 240-64671-7

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/10/2016 14:40

Reporting Basis: WET

Date Received: 05/11/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	18000	100	25	ug/L			1	6010C
7439-96-5	Manganese	910	15	5.1	ug/L			1	6010C

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

ICV Source: MT6500ICV_00031 Concentration Units: ug/L

CCV Source: MTICPCCV_00071

Analyte	ICV 240-230193/4 05/12/2016 11:05				CCV 240-230193/30 05/12/2016 12:50				CCV 240-230193/42 05/12/2016 13:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	12700		12500	102	26100		25000	104	26200		25000	105
Manganese	1520		1500	101	2080		2000	104	2100		2000	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.: 240-64548-1

SDG No.: _____

ICV Source: MT6500ICV_00031 Concentration Units: ug/L

CCV Source: MTICPCCV_00071

Analyte	CCV 240-230193/54 05/12/2016 14:25											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	26300		25000	105								
Manganese	2110		2000	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.: 240-64548-1

SDG No.: _____

ICV Source: MT6500ICV_00031 Concentration Units: ug/L

CCV Source: MTICPCCV_00071

Analyte	ICV 240-230706/4 05/17/2016 08:31				CCV 240-230706/18 05/17/2016 09:28				CCV 240-230706/30 05/17/2016 10:19			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	12300		12500	98	25200		25000	101	24700		25000	99
Manganese	1460		1500	98	2000		2000	100	1950		2000	97

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.: 240-64548-1

SDG No.: _____

ICV Source: MT6500ICV_00031 Concentration Units: ug/L

CCV Source: MTICPCCV_00072

Analyte	ICV 240-230854/4 05/18/2016 08:55				CCV 240-230854/37 05/18/2016 11:11				CCV 240-230854/49 05/18/2016 12:07			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	12500		12500	100	24900		25000	99	24800		25000	99
Manganese	1460		1500	98	1960		2000	98	1950		2000	97

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.: 240-64548-1

SDG No.: _____

ICV Source: MT6500ICV_00031 Concentration Units: ug/L

CCV Source: MTICPCCV_00072

Analyte	CCV 240-230854/73 05/18/2016 13:54				CCV 240-230854/85 05/18/2016 15:00							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	25500		25000	102	24700		25000	99				
Manganese	2000		2000	100	1920		2000	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.: 240-64548-1

SDG No.: _____

Method: 6010C Instrument ID: I9

Lab Sample ID: CRI 240-230193/20 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00035

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	208		104	70-130
Manganese	15.0	15.4		103	70-130

Lab Sample ID: CRI 240-230193/71 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00035

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	209		105	70-130
Manganese	15.0	15.6		104	70-130

Lab Sample ID: CRI 240-230706/20 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00035

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	204		102	70-130
Manganese	15.0	15.1		101	70-130

Lab Sample ID: CRI 240-230706/63 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00035

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	203		102	70-130
Manganese	15.0	14.9	J	99	70-130

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Method: 6010C Instrument ID: I9
 Lab Sample ID: CRI 240-230854/20 Concentration Units: ug/L
 CRQL Check Standard Source: MTTRCRIC_00035

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	205		103	70-130
Manganese	15.0	15.0		100	70-130

Lab Sample ID: CRI 240-230854/124 Concentration Units: ug/L
 CRQL Check Standard Source: MTTRCRIC_00035

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	210		105	70-130
Manganese	15.0	15.6		104	70-130

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-230193/5 05/12/2016 11:09		CCB 240-230193/31 05/12/2016 12:54		CCB 240-230193/43 05/12/2016 13:42		CCB 240-230193/55 05/12/2016 14:29	
		Found	C	Found	C	Found	C	Found	C
Iron	100	100	U	100	U	100	U	100	U
Manganese	15	15	U	15	U	15	U	15	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-230706/5 05/17/2016 08:35		CCB 240-230706/19 05/17/2016 09:31		CCB 240-230706/31 05/17/2016 10:23		Found	C
		Found	C	Found	C	Found	C		
Iron	100	100	U	100	U	100	U		
Manganese	15	15	U	15	U	15	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-230854/5 05/18/2016 08:59		CCB 240-230854/38 05/18/2016 11:15		CCB 240-230854/50 05/18/2016 12:11		CCB 240-230854/74 05/18/2016 13:58	
		Found	C	Found	C	Found	C	Found	C
Iron	100	100	U	100	U	100	U	100	U
Manganese	15	15	U	15	U	15	U	15	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-230854/86 05/18/2016 15:03							
		Found	C	Found	C	Found	C	Found	C
Iron	100	100	U						
Manganese	15	15	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-64548-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-229825/1-A
Instrument Code: I9 Batch No.: 230193

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	100	U		6010C
7439-96-5	Manganese	15	U		6010C

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-64548-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-230236/1-A
Instrument Code: I9 Batch No.: 230706

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	100	U		6010C
7439-96-5	Manganese	15	U		6010C

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-64548-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-230249/1-A
Instrument Code: I9 Batch No.: 230854

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	100	U		6010C
7439-96-5	Manganese	15	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Lab Sample ID: ICSA 240-230193/8

Instrument ID: I9

Lab File ID: I9051216A.asc

ICS Source: MTRICSAW_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	188750	94
Manganese		1.85	
<i>Aluminum</i>	<i>500000</i>	<i>502160</i>	<i>100</i>
<i>Antimony</i>		<i>-6.12</i>	
<i>Arsenic</i>		<i>-2.99</i>	
<i>Barium</i>		<i>-0.437</i>	
<i>Beryllium</i>		<i>0.149</i>	
<i>Boron</i>		<i>-8.23</i>	
<i>Cadmium</i>		<i>0.678</i>	
<i>Calcium</i>	<i>500000</i>	<i>474720</i>	<i>95</i>
<i>Chromium</i>		<i>3.66</i>	
<i>Cobalt</i>		<i>-1.29</i>	
<i>Copper</i>		<i>2.66</i>	
<i>Lead</i>		<i>0.478</i>	
<i>Lithium</i>		<i>23.8</i>	
<i>Magnesium</i>	<i>500000</i>	<i>491800</i>	<i>98</i>
<i>Molybdenum</i>		<i>-1.54</i>	
<i>Nickel</i>		<i>4.35</i>	
<i>Potassium</i>		<i>13.7</i>	
<i>Selenium</i>		<i>-3.13</i>	
<i>Silicon</i>		<i>-28.3</i>	
<i>Silver</i>		<i>0.0752</i>	
<i>Sodium</i>		<i>6.99</i>	
<i>Strontium</i>		<i>10.3</i>	
<i>Thallium</i>		<i>-2.27</i>	
<i>Tin</i>		<i>1.81</i>	
<i>Titanium</i>		<i>-0.388</i>	
<i>Vanadium</i>		<i>-2.28</i>	
<i>Zinc</i>		<i>1.92</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Lab Sample ID: ICSAB 240-230193/9

Instrument ID: I9

Lab File ID: I9051216A.asc

ICS Source: MTICPCSABW_00010

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	190530	95
Manganese	500	496	99
<i>Aluminum</i>	<i>500000</i>	<i>505210</i>	<i>101</i>
<i>Antimony</i>	<i>1000</i>	<i>1017</i>	<i>102</i>
<i>Arsenic</i>	<i>1000</i>	<i>1019</i>	<i>102</i>
<i>Barium</i>	<i>500</i>	<i>504</i>	<i>101</i>
<i>Beryllium</i>	<i>500</i>	<i>489</i>	<i>98</i>
<i>Boron</i>	<i>500</i>	<i>499</i>	<i>100</i>
<i>Cadmium</i>	<i>1000</i>	<i>1030</i>	<i>103</i>
<i>Calcium</i>	<i>500000</i>	<i>477190</i>	<i>95</i>
<i>Chromium</i>	<i>500</i>	<i>489</i>	<i>98</i>
<i>Cobalt</i>	<i>500</i>	<i>504</i>	<i>101</i>
<i>Copper</i>	<i>500</i>	<i>537</i>	<i>107</i>
<i>Lead</i>	<i>1000</i>	<i>903</i>	<i>90</i>
<i>Lithium</i>	<i>500</i>	<i>560</i>	<i>112</i>
<i>Magnesium</i>	<i>500000</i>	<i>494970</i>	<i>99</i>
<i>Molybdenum</i>	<i>1000</i>	<i>972</i>	<i>97</i>
<i>Nickel</i>	<i>1000</i>	<i>1003</i>	<i>100</i>
<i>Potassium</i>	<i>10000</i>	<i>10387</i>	<i>104</i>
<i>Selenium</i>	<i>1000</i>	<i>1004</i>	<i>100</i>
<i>Silicon</i>	<i>10000</i>	<i>9883</i>	<i>99</i>
<i>Silver</i>	<i>1000</i>	<i>1105</i>	<i>111</i>
<i>Sodium</i>	<i>10000</i>	<i>10250</i>	<i>103</i>
<i>Strontium</i>	<i>1500</i>	<i>1458</i>	<i>97</i>
<i>Thallium</i>	<i>1000</i>	<i>972</i>	<i>97</i>
<i>Tin</i>	<i>500</i>	<i>518</i>	<i>104</i>
<i>Titanium</i>	<i>500</i>	<i>508</i>	<i>102</i>
<i>Vanadium</i>	<i>500</i>	<i>494</i>	<i>99</i>
<i>Zinc</i>	<i>1000</i>	<i>1017</i>	<i>102</i>

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Lab Sample ID: ICSA 240-230706/8

Instrument ID: I9

Lab File ID: I9051716A.asc

ICS Source: MTRICSAW_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	187990	94
Manganese		1.40	
<i>Aluminum</i>	<i>500000</i>	<i>503440</i>	<i>101</i>
<i>Antimony</i>		<i>-8.49</i>	
<i>Arsenic</i>		<i>-1.93</i>	
<i>Barium</i>		<i>0.398</i>	
<i>Beryllium</i>		<i>0.0373</i>	
<i>Boron</i>		<i>-9.60</i>	
<i>Cadmium</i>		<i>1.13</i>	
<i>Calcium</i>	<i>500000</i>	<i>471270</i>	<i>94</i>
<i>Chromium</i>		<i>3.69</i>	
<i>Cobalt</i>		<i>-1.13</i>	
<i>Copper</i>		<i>2.38</i>	
<i>Lead</i>		<i>2.06</i>	
<i>Lithium</i>		<i>6.17</i>	
<i>Magnesium</i>	<i>500000</i>	<i>497640</i>	<i>100</i>
<i>Molybdenum</i>		<i>-3.10</i>	
<i>Nickel</i>		<i>3.54</i>	
<i>Potassium</i>		<i>34.5</i>	
<i>Selenium</i>		<i>-4.25</i>	
<i>Silicon</i>		<i>2.52</i>	
<i>Silver</i>		<i>0.454</i>	
<i>Sodium</i>		<i>168</i>	
<i>Strontium</i>		<i>8.87</i>	
<i>Thallium</i>		<i>-2.11</i>	
<i>Tin</i>		<i>0.911</i>	
<i>Titanium</i>		<i>-0.291</i>	
<i>Vanadium</i>		<i>-3.13</i>	
<i>Zinc</i>		<i>0.832</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Lab Sample ID: ICSAB 240-230706/9

Instrument ID: I9

Lab File ID: I9051716A.asc

ICS Source: MTICPCSABW_00010

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	192560	96
Manganese	500	475	95
<i>Aluminum</i>	<i>500000</i>	<i>512340</i>	<i>102</i>
<i>Antimony</i>	<i>1000</i>	<i>993</i>	<i>99</i>
<i>Arsenic</i>	<i>1000</i>	<i>993</i>	<i>99</i>
<i>Barium</i>	<i>500</i>	<i>496</i>	<i>99</i>
<i>Beryllium</i>	<i>500</i>	<i>496</i>	<i>99</i>
<i>Boron</i>	<i>500</i>	<i>484</i>	<i>97</i>
<i>Cadmium</i>	<i>1000</i>	<i>1002</i>	<i>100</i>
<i>Calcium</i>	<i>500000</i>	<i>483970</i>	<i>97</i>
<i>Chromium</i>	<i>500</i>	<i>470</i>	<i>94</i>
<i>Cobalt</i>	<i>500</i>	<i>492</i>	<i>98</i>
<i>Copper</i>	<i>500</i>	<i>509</i>	<i>102</i>
<i>Lead</i>	<i>1000</i>	<i>888</i>	<i>89</i>
<i>Lithium</i>	<i>500</i>	<i>534</i>	<i>107</i>
<i>Magnesium</i>	<i>500000</i>	<i>507600</i>	<i>102</i>
<i>Molybdenum</i>	<i>1000</i>	<i>952</i>	<i>95</i>
<i>Nickel</i>	<i>1000</i>	<i>981</i>	<i>98</i>
<i>Potassium</i>	<i>10000</i>	<i>10557</i>	<i>106</i>
<i>Selenium</i>	<i>1000</i>	<i>988</i>	<i>99</i>
<i>Silicon</i>	<i>10000</i>	<i>10064</i>	<i>101</i>
<i>Silver</i>	<i>1000</i>	<i>1052</i>	<i>105</i>
<i>Sodium</i>	<i>10000</i>	<i>10652</i>	<i>107</i>
<i>Strontium</i>	<i>1500</i>	<i>1472</i>	<i>98</i>
<i>Thallium</i>	<i>1000</i>	<i>955</i>	<i>95</i>
<i>Tin</i>	<i>500</i>	<i>513</i>	<i>103</i>
<i>Titanium</i>	<i>500</i>	<i>488</i>	<i>98</i>
<i>Vanadium</i>	<i>500</i>	<i>500</i>	<i>100</i>
<i>Zinc</i>	<i>1000</i>	<i>1002</i>	<i>100</i>

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Lab Sample ID: ICSA 240-230854/8

Instrument ID: I9

Lab File ID: I9051816A.asc

ICS Source: MTRICSAW_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	185720	93
Manganese		1.51	
<i>Aluminum</i>	<i>500000</i>	<i>491520</i>	<i>98</i>
<i>Antimony</i>		<i>-6.89</i>	
<i>Arsenic</i>		<i>-1.96</i>	
<i>Barium</i>		<i>0.0404</i>	
<i>Beryllium</i>		<i>0.0648</i>	
<i>Boron</i>		<i>-8.07</i>	
<i>Cadmium</i>		<i>1.21</i>	
<i>Calcium</i>	<i>500000</i>	<i>460640</i>	<i>92</i>
<i>Chromium</i>		<i>3.16</i>	
<i>Cobalt</i>		<i>-1.33</i>	
<i>Copper</i>		<i>2.81</i>	
<i>Lead</i>		<i>-0.830</i>	
<i>Lithium</i>		<i>8.01</i>	
<i>Magnesium</i>	<i>500000</i>	<i>478340</i>	<i>96</i>
<i>Molybdenum</i>		<i>-2.71</i>	
<i>Nickel</i>		<i>3.84</i>	
<i>Potassium</i>		<i>54.9</i>	
<i>Selenium</i>		<i>-2.06</i>	
<i>Silicon</i>		<i>7.43</i>	
<i>Silver</i>		<i>-0.0406</i>	
<i>Sodium</i>		<i>84.8</i>	
<i>Strontium</i>		<i>7.44</i>	
<i>Thallium</i>		<i>-3.80</i>	
<i>Tin</i>		<i>1.08</i>	
<i>Titanium</i>		<i>-0.428</i>	
<i>Vanadium</i>		<i>-0.0271</i>	
<i>Zinc</i>		<i>1.47</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Lab Sample ID: ICSAB 240-230854/9

Instrument ID: I9

Lab File ID: I9051816A.asc

ICS Source: MTICPCSABW_00010

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	193110	97
Manganese	500	488	98
<i>Aluminum</i>	<i>500000</i>	<i>510510</i>	<i>102</i>
<i>Antimony</i>	<i>1000</i>	<i>994</i>	<i>99</i>
<i>Arsenic</i>	<i>1000</i>	<i>989</i>	<i>99</i>
<i>Barium</i>	<i>500</i>	<i>498</i>	<i>100</i>
<i>Beryllium</i>	<i>500</i>	<i>486</i>	<i>97</i>
<i>Boron</i>	<i>500</i>	<i>492</i>	<i>98</i>
<i>Cadmium</i>	<i>1000</i>	<i>1009</i>	<i>101</i>
<i>Calcium</i>	<i>500000</i>	<i>480850</i>	<i>96</i>
<i>Chromium</i>	<i>500</i>	<i>481</i>	<i>96</i>
<i>Cobalt</i>	<i>500</i>	<i>495</i>	<i>99</i>
<i>Copper</i>	<i>500</i>	<i>525</i>	<i>105</i>
<i>Lead</i>	<i>1000</i>	<i>885</i>	<i>88</i>
<i>Lithium</i>	<i>500</i>	<i>527</i>	<i>105</i>
<i>Magnesium</i>	<i>500000</i>	<i>500670</i>	<i>100</i>
<i>Molybdenum</i>	<i>1000</i>	<i>947</i>	<i>95</i>
<i>Nickel</i>	<i>1000</i>	<i>988</i>	<i>99</i>
<i>Potassium</i>	<i>10000</i>	<i>10513</i>	<i>105</i>
<i>Selenium</i>	<i>1000</i>	<i>989</i>	<i>99</i>
<i>Silicon</i>	<i>10000</i>	<i>10088</i>	<i>101</i>
<i>Silver</i>	<i>1000</i>	<i>1085</i>	<i>108</i>
<i>Sodium</i>	<i>10000</i>	<i>10422</i>	<i>104</i>
<i>Strontium</i>	<i>1500</i>	<i>1454</i>	<i>97</i>
<i>Thallium</i>	<i>1000</i>	<i>958</i>	<i>96</i>
<i>Tin</i>	<i>500</i>	<i>508</i>	<i>102</i>
<i>Titanium</i>	<i>500</i>	<i>494</i>	<i>99</i>
<i>Vanadium</i>	<i>500</i>	<i>492</i>	<i>98</i>
<i>Zinc</i>	<i>1000</i>	<i>1003</i>	<i>100</i>

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-64602-F-4-B MS
 Lab Name: TestAmerica Canton Job No.: 240-64548-1
 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
Iron	1370	340	1000	102	75-125		6010C
Manganese	1200	680	500	105	75-125		6010C

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-64768-E-1-B MS
 Lab Name: TestAmerica Canton Job No.: 240-64548-1
 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
Iron	1200	180	1000	102	75-125		6010C
Manganese	1270	720	500	109	75-125		6010C

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS - DISSOLVED

Client ID: _____ Lab ID: 240-64748-C-3-B MS
 Lab Name: TestAmerica Canton Job No.: 240-64548-1
 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
Iron	1030	100 U	1000	103	75-125		6010C
Manganese	519	15 U	500	104	75-125		6010C

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-64602-F-4-C MSD
 Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Iron	1330	1000	98	75-125	3	20		6010C
Manganese	1170	500	99	75-125	3	20		6010C

SDR = Sample Duplicate Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-64768-E-1-C MSD
 Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Iron	1190	1000	100	75-125	1	20		6010C
Manganese	1250	500	105	75-125	1	20		6010C

SDR = Sample Duplicate Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS - DISSOLVED

Client ID: _____ Lab ID: 240-64748-C-3-C MSD
 Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Iron	1030	1000	103	75-125	0	20		6010C
Manganese	510	500	102	75-125	2	20		6010C

SDR = Sample Duplicate Result

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

7A-IN
 LAB CONTROL SAMPLE
 METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-229825/2-A

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

Sample Matrix: Water

LCS Source: MTICP1_00051

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	1000	1020		102	80	120		6010C
Manganese	500	511		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 - TOTAL RECOVERABLE

Lab ID: LCS 240-230236/2-A

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

Sample Matrix: Water

LCS Source: MTICP1_00051

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	1000	971		97	80	120		6010C
Manganese	500	475		95	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 - TOTAL RECOVERABLE

Lab ID: LCS 240-230249/2-A

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

Sample Matrix: Water

LCS Source: MTICP1_00051

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	1000	995		99	80	120		6010C
Manganese	500	493		99	80	120		6010C

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: 240-64602-F-4-A SD ^5

SDG No: _____

Lab Name: TestAmerica Canton

Job No: 240-64548-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Iron	340	360 J	NC		6010C
Manganese	680	690	1.7		6010C

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

FORM VIII-IN

8-IN
 ICP-AES AND ICP-MS SERIAL DILUTIONS
 METALS - TOTAL RECOVERABLE

Lab ID: 240-64768-E-1-A SD ^5

SDG No: _____

Lab Name: TestAmerica Canton

Job No: 240-64548-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Iron	180	201 J	NC		6010C
Manganese	720	766	6.2		6010C

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

FORM VIII-IN

8-IN
 ICP-AES AND ICP-MS SERIAL DILUTIONS
 METALS - DISSOLVED

Lab ID: 240-64748-C-3-A SD ^5

SDG No: _____

Lab Name: TestAmerica Canton

Job No: 240-64548-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	Method
		C		C			
Iron	100	U	500	U	NC		6010C
Manganese	15	U	75	U	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: 240-64548-1

SDG Number: _____

Matrix: Water

Instrument ID: I9

Method: 6010C

MDL Date: 05/06/2016 13:42

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Iron	271.441	100	25
Manganese	257.610	15	5.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-64548-1
SDG Number: _____
Matrix: Water Instrument ID: I9
Method: 6010C XMDL Date: 05/06/2016 13:44

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Iron	271.441	100	25
Manganese	257.610	15	5.1

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-64548-1

SDG No.: _____

ICP-AES Instrument ID: I9 Date: 02/23/2016

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	Tl	V
Aluminum										0.016774					0.022189
Antimony		-0.000066			0.000057			-0.000015							0.002792
Arsenic		0.00002			-0.000415	0.000782			-0.000355	0.002551					
Barium															
Beryllium															0.000029
Boron															
Cadmium			0.010288					-0.000004							
Calcium															
Chromium															
Cobalt													0.002140		
Copper				0.000018	0.000199			0.000009							
Iron															
Lead		-0.000108					0.000101	0.000044			0.000131	0.000064			
Lithium															
Magnesium															
Manganese															
Molybdenum															
Nickel					0.000518			0.000057							
Potassium															
Selenium		-0.000013							0.000338						
Silver															
Sodium															
Strontium															
Thallium		0.000012			0.003074			-0.000019	-0.002934						0.001707
Tin															
Titanium															
Vanadium								0.000038							
Zinc								-0.001092							

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-64548-1

SDG No.: _____

Instrument ID: I9

Date: 02/25/2016 13:19

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Iron		500000	6010C
Manganese		15000	6010C

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-229825/1-A	05/11/2016 10:31	229825		50	50
LCS 240-229825/2-A	05/11/2016 10:31	229825		50	50
240-64602-F-4-B MS	05/11/2016 10:31	229825		50	50
240-64602-F-4-C MSD	05/11/2016 10:31	229825		50	50
240-64548-2	05/11/2016 10:31	229825		50	50
240-64548-3	05/11/2016 10:31	229825		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-230236/1-A	05/13/2016 10:47	230236		50	50
LCS 240-230236/2-A	05/13/2016 10:47	230236		50	50
240-64768-E-1-B MS	05/13/2016 10:47	230236		50	50
240-64768-E-1-C MSD	05/13/2016 10:47	230236		50	50
240-64615-2	05/13/2016 10:47	230236		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-230249/1-A	05/13/2016 11:47	230249		50	50
LCS 240-230249/2-A	05/13/2016 11:47	230249		50	50
240-64748-C-3-B MS	05/13/2016 11:47	230249		50	50
240-64748-C-3-C MSD	05/13/2016 11:47	230249		50	50
240-64671-2	05/13/2016 11:47	230249		50	50
240-64671-5	05/13/2016 11:47	230249		50	50
240-64671-7	05/13/2016 11:47	230249		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9

Analysis Method: 6010C

Start Date: 05/12/2016 10:53

End Date: 05/12/2016 23:20

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ICIS 240-230193/1	1		10:53	X	X																										
CALSTD 240-230193/2 IC			10:57	X	X																										
CALSTD 240-230193/3 IC			11:01	X	X																										
ICV 240-230193/4	1		11:05	X	X																										
ICB 240-230193/5	1		11:09	X	X																										
CRI 240-230193/6			11:13																												
ZZZZZZ			11:17																												
ICSA 240-230193/8	1		11:21	X	X																										
ICSAB 240-230193/9	1		11:26	X	X																										
CCV 240-230193/10			11:29																												
CCB 240-230193/11			11:33																												
ZZZZZZ			11:37																												
ZZZZZZ			11:41																												
ZZZZZZ			11:46																												
ZZZZZZ			11:50																												
ZZZZZZ			11:54																												
ZZZZZZ			11:58																												
CCV 240-230193/18			12:02																												
CCB 240-230193/19			12:06																												
CRI 240-230193/20	1		12:10	X	X																										
ZZZZZZ			12:14																												
ZZZZZZ			12:18																												
ZZZZZZ			12:22																												
ZZZZZZ			12:26																												
ZZZZZZ			12:30																												
ZZZZZZ			12:34																												
ZZZZZZ			12:38																												
ZZZZZZ			12:42																												
ZZZZZZ			12:46																												
CCV 240-230193/30	1		12:50	X	X																										
CCB 240-230193/31	1		12:54	X	X																										
MB 240-229825/1-A	1	R	12:58	X	X																										
LCS 240-229825/2-A	1	R	13:02	X	X																										
ZZZZZZ			13:06																												
240-64602-F-4-A SD ^5	5	R	13:10	X	X																										
240-64602-F-4-B MS	1	R	13:14	X	X																										
240-64602-F-4-C MSD	1	R	13:18	X	X																										
ZZZZZZ			13:22																												
ZZZZZZ			13:25																												
ZZZZZZ			13:29																												
ZZZZZZ			13:34																												
CCV 240-230193/42	1		13:38	X	X																										

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/12/2016 10:53 End Date: 05/12/2016 23:20

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				F	M																										
CCB 240-230193/43	1		13:42	X	X																										
240-64548-2	1	R	13:46	X	X																										
240-64548-3	1	R	13:50	X	X																										
ZZZZZZ			13:54																												
ZZZZZZ			13:58																												
ZZZZZZ			14:02																												
ZZZZZZ			14:06																												
ZZZZZZ			14:10																												
ZZZZZZ			14:14																												
ZZZZZZ			14:18																												
ZZZZZZ			14:21																												
CCV 240-230193/54	1		14:25	X	X																										
CCB 240-230193/55	1		14:29	X	X																										
ZZZZZZ			14:34																												
ZZZZZZ			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																												
CCV 240-230193/66			15:15																												
CCB 240-230193/67			15:18																												
ZZZZZZ			15:23																												
ZZZZZZ			15:27																												
ZZZZZZ			15:31																												
CRI 240-230193/71	1		15:35	X	X																										
ZZZZZZ			15:39																												
ZZZZZZ			15:43																												
ZZZZZZ			15:47																												
ZZZZZZ			15:51																												
ZZZZZZ			15:55																												
ZZZZZZ			15:59																												
CCV 240-230193/78			16:04																												
CCB 240-230193/79			16:07																												
ZZZZZZ			16:12																												
ZZZZZZ			16:16																												
ZZZZZZ			16:20																												
ZZZZZZ			16:24																												
ZZZZZZ			16:29																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/12/2016 10:53 End Date: 05/12/2016 23:20

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			16:33																												
ZZZZZZ			16:37																												
ZZZZZZ			16:41																												
ZZZZZZ			16:45																												
ZZZZZZ			16:50																												
CCV 240-230193/90			16:54																												
CCB 240-230193/91			16:58																												
ZZZZZZ			17:02																												
ZZZZZZ			17:06																												
ZZZZZZ			17:10																												
ZZZZZZ			17:14																												
ZZZZZZ			17:18																												
ZZZZZZ			17:22																												
ZZZZZZ			17:27																												
ZZZZZZ			17:31																												
ZZZZZZ			17:36																												
ZZZZZZ			17:40																												
CCV 240-230193/102			17:44																												
CCB 240-230193/103			17:48																												
ZZZZZZ			17:52																												
ZZZZZZ			17:56																												
ZZZZZZ			18:01																												
ZZZZZZ			18:05																												
ZZZZZZ			18:09																												
ZZZZZZ			18:13																												
ZZZZZZ			18:18																												
ZZZZZZ			18:22																												
ZZZZZZ			18:26																												
ZZZZZZ			18:30																												
CCV 240-230193/114			18:35																												
CCB 240-230193/115			18:39																												
ZZZZZZ			18:43																												
ZZZZZZ			18:47																												
ZZZZZZ			18:51																												
ZZZZZZ			18:55																												
ZZZZZZ			19:00																												
ZZZZZZ			19:04																												
ZZZZZZ			19:08																												
ZZZZZZ			19:12																												
ZZZZZZ			19:17																												
ZZZZZZ			19:21																												
CCV 240-230193/126			19:25																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/12/2016 10:53 End Date: 05/12/2016 23:20

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
CCB 240-230193/127			19:28																												
ZZZZZZ			19:33																												
ZZZZZZ			19:37																												
ZZZZZZ			19:41																												
ZZZZZZ			19:45																												
ZZZZZZ			19:49																												
ZZZZZZ			19:53																												
ZZZZZZ			19:58																												
ZZZZZZ			20:02																												
ZZZZZZ			20:06																												
ZZZZZZ			20:10																												
CCV 240-230193/138			20:14																												
CCB 240-230193/139			20:18																												
ZZZZZZ			20:22																												
ZZZZZZ			20:26																												
ZZZZZZ			20:30																												
ZZZZZZ			20:34																												
ZZZZZZ			20:39																												
ZZZZZZ			20:43																												
ZZZZZZ			20:47																												
ZZZZZZ			20:51																												
ZZZZZZ			20:55																												
ZZZZZZ			20:59																												
CCV 240-230193/150			21:03																												
CCB 240-230193/151			21:06																												
ZZZZZZ			21:11																												
ZZZZZZ			21:14																												
ZZZZZZ			21:18																												
ZZZZZZ			21:22																												
ZZZZZZ			21:26																												
ZZZZZZ			21:31																												
ZZZZZZ			21:35																												
ZZZZZZ			21:39																												
ZZZZZZ			21:43																												
ZZZZZZ			21:47																												
CCV 240-230193/162			21:51																												
CCB 240-230193/163			21:55																												
ZZZZZZ			21:59																												
ZZZZZZ			22:03																												
ZZZZZZ			22:07																												
ZZZZZZ			22:11																												
ZZZZZZ			22:16																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/12/2016 10:53 End Date: 05/12/2016 23:20

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			22:19																												
ZZZZZZ			22:23																												
ZZZZZZ			22:27																												
ZZZZZZ			22:31																												
ZZZZZZ			22:35																												
CCV 240-230193/174			22:39																												
CCB 240-230193/175			22:43																												
ZZZZZZ			22:48																												
ZZZZZZ			22:52																												
ZZZZZZ			22:56																												
ZZZZZZ			23:00																												
ZZZZZZ			23:04																												
ZZZZZZ			23:08																												
ZZZZZZ			23:12																												
CCV 240-230193/183			23:16																												
CCB 240-230193/184			23:20																												

Prep Types: _____
R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9

Analysis Method: 6010C

Start Date: 05/17/2016 08:18

End Date: 05/18/2016 01:53

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ICIS 240-230706/1	1		08:18	X	X																										
CALSTD 240-230706/2 IC			08:23	X	X																										
CALSTD 240-230706/3 IC			08:27	X	X																										
ICV 240-230706/4	1		08:31	X	X																										
ICB 240-230706/5	1		08:35	X	X																										
CRI 240-230706/6			08:39																												
ZZZZZZ			08:43																												
ICSA 240-230706/8	1		08:47	X	X																										
ICSAB 240-230706/9	1		08:51	X	X																										
CCV 240-230706/10			08:55																												
CCB 240-230706/11			08:59																												
ZZZZZZ			09:03																												
ZZZZZZ			09:07																												
ZZZZZZ			09:11																												
ZZZZZZ			09:15																												
ZZZZZZ			09:19																												
ZZZZZZ			09:23																												
CCV 240-230706/18	1		09:28	X	X																										
CCB 240-230706/19	1		09:31	X	X																										
CRI 240-230706/20	1		09:40	X	X																										
MB 240-230236/1-A	1	R	09:44	X	X																										
LCS 240-230236/2-A	1	R	09:48	X	X																										
ZZZZZZ			09:51																												
240-64768-E-1-A SD ^5	5	R	09:55	X	X																										
240-64768-E-1-B MS	1	R	10:00	X	X																										
240-64768-E-1-C MSD	1	R	10:03	X	X																										
ZZZZZZ			10:07																												
240-64615-2	1	R	10:11	X	X																										
ZZZZZZ			10:15																												
CCV 240-230706/30	1		10:19	X	X																										
CCB 240-230706/31	1		10:23	X	X																										
ZZZZZZ			10:27																												
ZZZZZZ			10:31																												
ZZZZZZ			10:35																												
ZZZZZZ			10:39																												
ZZZZZZ			10:43																												
ZZZZZZ			10:47																												
ZZZZZZ			10:51																												
ZZZZZZ			10:55																												
ZZZZZZ			10:59																												
ZZZZZZ			11:04																												
CCV 240-230706/42			11:08																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/17/2016 08:18 End Date: 05/18/2016 01:53

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
CCB 240-230706/43			11:12																												
ZZZZZZ			11:16																												
ZZZZZZ			11:20																												
ZZZZZZ			11:24																												
ZZZZZZ			11:28																												
ZZZZZZ			11:32																												
ZZZZZZ			11:36																												
ZZZZZZ			11:40																												
ZZZZZZ			11:44																												
ZZZZZZ			11:48																												
ZZZZZZ			11:52																												
CCV 240-230706/54			11:56																												
CCB 240-230706/55			12:00																												
ZZZZZZ			12:04																												
ZZZZZZ			12:09																												
ZZZZZZ			12:13																												
ZZZZZZ			12:17																												
ZZZZZZ			12:21																												
ZZZZZZ			12:26																												
ZZZZZZ			12:30																												
CRI 240-230706/63	1		12:34	X	X																										
ZZZZZZ			12:38																												
ZZZZZZ			12:43																												
CCV 240-230706/66			12:47																												
CCB 240-230706/67			12:51																												
ZZZZZZ			12:55																												
ZZZZZZ			12:59																												
ZZZZZZ			13:03																												
ZZZZZZ			13:07																												
ZZZZZZ			13:11																												
ZZZZZZ			13:15																												
ZZZZZZ			13:19																												
ZZZZZZ			13:23																												
ZZZZZZ			13:27																												
ZZZZZZ			13:33																												
CCV 240-230706/78			13:37																												
CCB 240-230706/79			13:41																												
ZZZZZZ			13:52																												
ZZZZZZ			13:59																												
ZZZZZZ			14:03																												
ZZZZZZ			14:07																												
ZZZZZZ			14:12																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/17/2016 08:18 End Date: 05/18/2016 01:53

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			14:16																												
ZZZZZZ			14:20																												
ZZZZZZ			14:24																												
ZZZZZZ			14:28																												
ZZZZZZ			14:33																												
CCV 240-230706/90			14:36																												
CCB 240-230706/91			14:40																												
ZZZZZZ			14:44																												
ZZZZZZ			14:48																												
ZZZZZZ			14:52																												
ZZZZZZ			14:56																												
ZZZZZZ			15:00																												
ZZZZZZ			15:05																												
ZZZZZZ			15:09																												
ZZZZZZ			15:13																												
ZZZZZZ			15:17																												
ZZZZZZ			15:22																												
CCV 240-230706/102			15:26																												
CCB 240-230706/103			15:30																												
ZZZZZZ			15:34																												
ZZZZZZ			15:38																												
ZZZZZZ			15:42																												
ZZZZZZ			15:46																												
ZZZZZZ			15:51																												
ZZZZZZ			15:55																												
ZZZZZZ			15:59																												
ZZZZZZ			16:03																												
ZZZZZZ			16:07																												
ZZZZZZ			16:12																												
CCV 240-230706/114			16:16																												
CCB 240-230706/115			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			16:58																												
ZZZZZZ			17:02																												
CCV 240-230706/126			17:05																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/17/2016 08:18 End Date: 05/18/2016 01:53

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
CCB 240-230706/127			17:09																												
ZZZZZZ			17:14																												
ZZZZZZ			17:18																												
ZZZZZZ			17:22																												
ZZZZZZ			17:26																												
ZZZZZZ			17:30																												
ZZZZZZ			17:34																												
ZZZZZZ			17:39																												
ZZZZZZ			17:43																												
ZZZZZZ			17:47																												
ZZZZZZ			17:52																												
CCV 240-230706/138			17:56																												
CCB 240-230706/139			18:00																												
ZZZZZZ			18:04																												
ZZZZZZ			18:09																												
ZZZZZZ			18:13																												
ZZZZZZ			18:17																												
ZZZZZZ			18:21																												
ZZZZZZ			18:26																												
ZZZZZZ			18:30																												
ZZZZZZ			18:34																												
ZZZZZZ			18:38																												
ZZZZZZ			18:42																												
CCV 240-230706/150			18:46																												
CCB 240-230706/151			18:50																												
ZZZZZZ			18:54																												
ZZZZZZ			18:59																												
ZZZZZZ			19:03																												
ZZZZZZ			19:08																												
ZZZZZZ			19:12																												
ZZZZZZ			19:16																												
ZZZZZZ			19:20																												
ZZZZZZ			19:24																												
ZZZZZZ			19:28																												
ZZZZZZ			19:32																												
CCV 240-230706/162			19:36																												
CCB 240-230706/163			19:39																												
ZZZZZZ			19:44																												
ZZZZZZ			19:47																												
ZZZZZZ			19:52																												
ZZZZZZ			19:55																												
ZZZZZZ			19:59																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/17/2016 08:18 End Date: 05/18/2016 01:53

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			20:03																												
ZZZZZZ			20:07																												
ZZZZZZ			20:11																												
ZZZZZZ			20:14																												
ZZZZZZ			20:18																												
CCV 240-230706/174			20:23																												
CCB 240-230706/175			20:26																												
ZZZZZZ			20:31																												
ZZZZZZ			20:35																												
ZZZZZZ			20:39																												
ZZZZZZ			20:43																												
ZZZZZZ			20:47																												
ZZZZZZ			20:51																												
ZZZZZZ			20:55																												
ZZZZZZ			20:59																												
ZZZZZZ			21:03																												
ZZZZZZ			21:08																												
CCV 240-230706/186			21:12																												
CCB 240-230706/187			21:16																												
ZZZZZZ			21:20																												
ZZZZZZ			21:24																												
ZZZZZZ			21:28																												
ZZZZZZ			21:32																												
ZZZZZZ			21:36																												
ZZZZZZ			21:40																												
ZZZZZZ			21:44																												
ZZZZZZ			21:48																												
ZZZZZZ			21:52																												
ZZZZZZ			21:56																												
CCV 240-230706/198			22:00																												
CCB 240-230706/199			22:04																												
ZZZZZZ			22:08																												
ZZZZZZ			22:12																												
ZZZZZZ			22:17																												
ZZZZZZ			22:21																												
ZZZZZZ			22:25																												
ZZZZZZ			22:29																												
ZZZZZZ			22:33																												
ZZZZZZ			22:38																												
ZZZZZZ			22:42																												
ZZZZZZ			22:46																												
CCV 240-230706/210			22:50																												

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/17/2016 08:18 End Date: 05/18/2016 01:53

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
CCB 240-230706/211			22:54																												
ZZZZZZ			22:58																												
ZZZZZZ			23:03																												
ZZZZZZ			23:07																												
ZZZZZZ			23:11																												
ZZZZZZ			23:15																												
ZZZZZZ			23:19																												
ZZZZZZ			23:24																												
ZZZZZZ			23:28																												
ZZZZZZ			23:32																												
ZZZZZZ			23:37																												
CCV 240-230706/222			23:41																												
CCB 240-230706/223			23:45																												
ZZZZZZ			23:49																												
ZZZZZZ			23:52																												
ZZZZZZ			23:57																												
ZZZZZZ			00:01																												
ZZZZZZ			00:05																												
ZZZZZZ			00:09																												
ZZZZZZ			00:13																												
ZZZZZZ			00:17																												
ZZZZZZ			00:22																												
ZZZZZZ			00:26																												
CCV 240-230706/234			00:30																												
CCB 240-230706/235			00:34																												
ZZZZZZ			00:38																												
ZZZZZZ			00:43																												
ZZZZZZ			00:47																												
ZZZZZZ			00:51																												
ZZZZZZ			00:55																												
ZZZZZZ			00:59																												
ZZZZZZ			01:04																												
ZZZZZZ			01:08																												
ZZZZZZ			01:12																												
ZZZZZZ			01:16																												
CCV 240-230706/246			01:20																												
CCB 240-230706/247			01:24																												
ZZZZZZ			01:28																												
ZZZZZZ			01:33																												
ZZZZZZ			01:37																												
ZZZZZZ			01:41																												
ZZZZZZ			01:45																												

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/17/2016 08:18 End Date: 05/18/2016 01:53

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				F e	M n																										
CCV 240-230706/253			01:49																												
CCB 240-230706/254			01:53																												

Prep Types: _____
R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/18/2016 08:43 End Date: 05/19/2016 03:42

Lab Sample Id	D/F	T y p e	Time	Analytes																							
				F e	M n																						
ICIS 240-230854/1	1		08:43	X	X																						
CALSTD 240-230854/2 IC			08:47	X	X																						
CALSTD 240-230854/3 IC			08:51	X	X																						
ICV 240-230854/4	1		08:55	X	X																						
ICB 240-230854/5	1		08:59	X	X																						
CRI 240-230854/6			09:03																								
ZZZZZZ			09:07																								
ICSA 240-230854/8	1		09:11	X	X																						
ICSAB 240-230854/9	1		09:16	X	X																						
CCV 240-230854/10			09:19																								
CCB 240-230854/11			09:23																								
ZZZZZZ			09:28																								
ZZZZZZ			09:32																								
ZZZZZZ			09:36																								
ZZZZZZ			09:40																								
ZZZZZZ			09:44																								
ZZZZZZ			09:48																								
CCV 240-230854/18			09:53																								
CCB 240-230854/19			09:56																								
CRI 240-230854/20	1		10:01	X	X																						
ZZZZZZ			10:05																								
ZZZZZZ			10:09																								
ZZZZZZ			10:14																								
ZZZZZZ			10:17																								
ZZZZZZ			10:22																								
ZZZZZZ			10:26																								
ZZZZZZ			10:30																								
ZZZZZZ			10:34																								
ZZZZZZ			10:38																								
CCV 240-230854/30			10:43																								
CCB 240-230854/31			10:46																								
ZZZZZZ			10:51																								
ZZZZZZ			10:55																								
ZZZZZZ			10:59																								
ZZZZZZ			11:03																								
ZZZZZZ			11:07																								
CCV 240-230854/37	1		11:11	X	X																						
CCB 240-230854/38	1		11:15	X	X																						
MB 240-230249/1-A	1	R	11:27	X	X																						
LCS 240-230249/2-A	1	R	11:31	X	X																						
ZZZZZZ			11:35																								
240-64748-C-3-A SD ^5	5	D	11:39	X	X																						

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/18/2016 08:43 End Date: 05/19/2016 03:42

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				F	M																										
240-64748-C-3-B MS	1	D	11:44	X	X																										
240-64748-C-3-C MSD	1	D	11:47	X	X																										
ZZZZZZ			11:51																												
ZZZZZZ			11:55																												
ZZZZZZ			11:59																												
ZZZZZZ			12:03																												
CCV 240-230854/49	1		12:07	X	X																										
CCB 240-230854/50	1		12:11	X	X																										
ZZZZZZ			12:15																												
ZZZZZZ			12:19																												
ZZZZZZ			12:23																												
ZZZZZZ			12:28																												
ZZZZZZ			12:32																												
ZZZZZZ			12:36																												
ZZZZZZ			12:40																												
ZZZZZZ			12:44																												
ZZZZZZ			12:48																												
ZZZZZZ			12:52																												
CCV 240-230854/61			12:57																												
CCB 240-230854/62			13:01																												
ZZZZZZ			13:12																												
ZZZZZZ			13:16																												
ZZZZZZ			13:20																												
ZZZZZZ			13:24																												
ZZZZZZ			13:28																												
ZZZZZZ			13:32																												
ZZZZZZ			13:36																												
ZZZZZZ			13:40																												
ZZZZZZ			13:45																												
ZZZZZZ			13:49																												
CCV 240-230854/73	1		13:54	X	X																										
CCB 240-230854/74	1		13:58	X	X																										
ZZZZZZ			14:19																												
240-64671-2	1	R	14:23	X	X																										
240-64671-5	1	R	14:27	X	X																										
240-64671-7	1	R	14:32	X	X																										
ZZZZZZ			14:36																												
ZZZZZZ			14:40																												
ZZZZZZ			14:44																												
ZZZZZZ			14:48																												
ZZZZZZ			14:52																												
ZZZZZZ			14:56																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/18/2016 08:43 End Date: 05/19/2016 03:42

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
CCV 240-230854/85	1		15:00	X	X																										
CCB 240-230854/86	1		15:03	X	X																										
ZZZZZZ			15:08																												
ZZZZZZ			15:11																												
ZZZZZZ			15:15																												
ZZZZZZ			15:20																												
ZZZZZZ			15:24																												
ZZZZZZ			15:28																												
ZZZZZZ			15:32																												
ZZZZZZ			15:36																												
ZZZZZZ			15:40																												
ZZZZZZ			15:44																												
CCV 240-230854/97			15:48																												
CCB 240-230854/98			15:52																												
ZZZZZZ			15:56																												
ZZZZZZ			16:01																												
ZZZZZZ			16:05																												
ZZZZZZ			16:09																												
ZZZZZZ			16:13																												
ZZZZZZ			16:17																												
ZZZZZZ			16:21																												
ZZZZZZ			16:25																												
ZZZZZZ			16:29																												
ZZZZZZ			16:33																												
CCV 240-230854/109			16:37																												
CCB 240-230854/110			16:41																												
ZZZZZZ			16:45																												
ZZZZZZ			16:49																												
ZZZZZZ			16:53																												
ZZZZZZ			16:57																												
ZZZZZZ			17:01																												
ZZZZZZ			17:05																												
ZZZZZZ			17:09																												
ZZZZZZ			17:13																												
ZZZZZZ			17:18																												
ZZZZZZ			17:22																												
CCV 240-230854/121			17:26																												
CCB 240-230854/122			17:30																												
ZZZZZZ			17:34																												
CRI 240-230854/124	1		17:38	X	X																										
ZZZZZZ			17:42																												
ZZZZZZ			17:46																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/18/2016 08:43 End Date: 05/19/2016 03:42

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			17:51																												
ZZZZZZ			17:55																												
ZZZZZZ			17:59																												
ZZZZZZ			18:03																												
ZZZZZZ			18:08																												
ZZZZZZ			18:12																												
CCV 240-230854/133			18:16																												
CCB 240-230854/134			18:20																												
ZZZZZZ			18:24																												
ZZZZZZ			18:29																												
ZZZZZZ			18:33																												
ZZZZZZ			18:37																												
ZZZZZZ			18:42																												
ZZZZZZ			18:46																												
ZZZZZZ			18:50																												
ZZZZZZ			18:54																												
ZZZZZZ			18:58																												
ZZZZZZ			19:02																												
CCV 240-230854/145			19:06																												
CCB 240-230854/146			19:10																												
ZZZZZZ			19:15																												
ZZZZZZ			19:19																												
ZZZZZZ			19:23																												
ZZZZZZ			19:27																												
ZZZZZZ			19:31																												
ZZZZZZ			19:36																												
ZZZZZZ			19:40																												
ZZZZZZ			19:44																												
ZZZZZZ			19:48																												
ZZZZZZ			19:52																												
CCV 240-230854/157			19:56																												
CCB 240-230854/158			20:00																												
ZZZZZZ			20:04																												
ZZZZZZ			20:09																												
ZZZZZZ			20:13																												
ZZZZZZ			20:17																												
ZZZZZZ			20:21																												
ZZZZZZ			20:25																												
ZZZZZZ			20:29																												
ZZZZZZ			20:33																												
ZZZZZZ			20:37																												
ZZZZZZ			20:41																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/18/2016 08:43 End Date: 05/19/2016 03:42

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
CCV 240-230854/169			20:46																												
CCB 240-230854/170			20:49																												
ZZZZZZ			20:54																												
ZZZZZZ			20:58																												
ZZZZZZ			21:02																												
ZZZZZZ			21:06																												
ZZZZZZ			21:10																												
ZZZZZZ			21:14																												
ZZZZZZ			21:18																												
ZZZZZZ			21:22																												
ZZZZZZ			21:27																												
ZZZZZZ			21:31																												
CCV 240-230854/181			21:36																												
CCB 240-230854/182			21:40																												
ZZZZZZ			21:44																												
ZZZZZZ			21:48																												
ZZZZZZ			21:52																												
ZZZZZZ			21:56																												
ZZZZZZ			22:01																												
ZZZZZZ			22:05																												
ZZZZZZ			22:09																												
ZZZZZZ			22:13																												
ZZZZZZ			22:17																												
ZZZZZZ			22:21																												
CCV 240-230854/193			22:26																												
CCB 240-230854/194			22:30																												
ZZZZZZ			22:34																												
ZZZZZZ			22:38																												
ZZZZZZ			22:42																												
ZZZZZZ			22:46																												
ZZZZZZ			22:50																												
ZZZZZZ			22:54																												
ZZZZZZ			22:58																												
ZZZZZZ			23:02																												
ZZZZZZ			23:06																												
ZZZZZZ			23:10																												
CCV 240-230854/205			23:15																												
CCB 240-230854/206			23:19																												
ZZZZZZ			23:23																												
ZZZZZZ			23:27																												
ZZZZZZ			23:31																												
ZZZZZZ			23:35																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/18/2016 08:43 End Date: 05/19/2016 03:42

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			23:39																												
ZZZZZZ			23:43																												
ZZZZZZ			23:48																												
ZZZZZZ			23:52																												
ZZZZZZ			23:56																												
ZZZZZZ			00:00																												
CCV 240-230854/217			00:04																												
CCB 240-230854/218			00:08																												
ZZZZZZ			00:12																												
ZZZZZZ			00:16																												
ZZZZZZ			00:21																												
ZZZZZZ			00:25																												
ZZZZZZ			00:29																												
ZZZZZZ			00:33																												
ZZZZZZ			00:37																												
ZZZZZZ			00:41																												
ZZZZZZ			00:45																												
ZZZZZZ			00:49																												
CCV 240-230854/229			00:54																												
CCB 240-230854/230			00:58																												
ZZZZZZ			01:02																												
ZZZZZZ			01:06																												
ZZZZZZ			01:11																												
ZZZZZZ			01:15																												
ZZZZZZ			01:19																												
ZZZZZZ			01:23																												
ZZZZZZ			01:27																												
ZZZZZZ			01:32																												
ZZZZZZ			01:36																												
ZZZZZZ			01:40																												
CCV 240-230854/241			01:44																												
CCB 240-230854/242			01:48																												
ZZZZZZ			01:52																												
ZZZZZZ			01:57																												
ZZZZZZ			02:01																												
ZZZZZZ			02:05																												
ZZZZZZ			02:09																												
ZZZZZZ			02:13																												
ZZZZZZ			02:17																												
ZZZZZZ			02:21																												
ZZZZZZ			02:25																												
ZZZZZZ			02:29																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 05/18/2016 08:43 End Date: 05/19/2016 03:42

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
CCV 240-230854/253			02:33																												
CCB 240-230854/254			02:37																												
ZZZZZZ			02:41																												
ZZZZZZ			02:45																												
ZZZZZZ			02:49																												
ZZZZZZ			02:53																												
ZZZZZZ			02:57																												
ZZZZZZ			03:02																												
ZZZZZZ			03:05																												
ZZZZZZ			03:10																												
ZZZZZZ			03:14																												
ZZZZZZ			03:18																												
CCV 240-230854/265			03:22																												
CCB 240-230854/266			03:26																												
ZZZZZZ			03:30																												
ZZZZZZ			03:34																												
CCV 240-230854/269			03:38																												
CCB 240-230854/270			03:42																												

Prep Types: _____
D = Dissolved
R = Total Recoverable

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 229825 Batch Start Date: 05/11/16 10:31 Batch Analyst: Colosi, Alexander J

Batch Method: 3005A Batch End Date: 05/11/16 18:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00057	MTICP1 00051	MTICP2A 00059	MTTMHCL 00109
MB 240-229825/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-229825/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-64602-F-4 MS		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-64602-F-4 MSD		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-64548-J-2	MRC-MW-14B-05061 6	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-64548-J-3	SWMW-1I-050616	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00086				
MB 240-229825/1		3005A, 6010C		1 mL				
LCS 240-229825/2		3005A, 6010C		1 mL				
240-64602-F-4 MS		3005A, 6010C	R	1 mL				
240-64602-F-4 MSD		3005A, 6010C	R	1 mL				
240-64548-J-2	MRC-MW-14B-05061 6	3005A, 6010C	R	1 mL				
240-64548-J-3	SWMW-1I-050616	3005A, 6010C	R	1 mL				

Batch Notes	
Filter Paper ID	9656618
Hot Block ID	HB1
Pipette ID	MPI-MP3
Digestion Tube/Cup ID	1509104

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.: 240-64548-1

SDG No.: _____

Batch Number: 230236 Batch Start Date: 05/13/16 10:47 Batch Analyst: Colosi, Alexander J

Batch Method: 3005A Batch End Date: 05/13/16 18:47

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00057	MTICP1 00051	MTICP2A 00059	MTTMHCL 00110
MB 240-230236/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-230236/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-64768-E-1 MS		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-64768-E-1 MSD		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-64615-I-2	MRC-MW-12A-05091 6	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00086					
MB 240-230236/1		3005A, 6010C		1 mL					
LCS 240-230236/2		3005A, 6010C		1 mL					
240-64768-E-1 MS		3005A, 6010C	R	1 mL					
240-64768-E-1 MSD		3005A, 6010C	R	1 mL					
240-64615-I-2	MRC-MW-12A-05091 6	3005A, 6010C	R	1 mL					

Batch Notes	
Filter Paper ID	9656618
Hot Block ID	HB2/HB3
Pipette ID	MP1
Digestion Tube/Cup ID	1509104

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.: 240-64548-1

SDG No.: _____

Batch Number: 230249 Batch Start Date: 05/13/16 11:47 Batch Analyst: Colosi, Alexander J

Batch Method: 3005A Batch End Date: 05/13/16 19:47

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00057	MTICP1 00051	MTICP2A 00059	MTTMHCL 00110
MB 240-230249/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-230249/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-64748-C-3 MS		3005A, 6010C	D	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-64748-C-3 MSD		3005A, 6010C	D	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-64671-I-2	G-SWMW-4I-051016	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-64671-I-5	G-SWMW-2I-051016	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-64671-F-7	G-OUTFALL-051016	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00086				
MB 240-230249/1		3005A, 6010C		1 mL				
LCS 240-230249/2		3005A, 6010C		1 mL				
240-64748-C-3 MS		3005A, 6010C	D	1 mL				
240-64748-C-3 MSD		3005A, 6010C	D	1 mL				
240-64671-I-2	G-SWMW-4I-051016	3005A, 6010C	R	1 mL				
240-64671-I-5	G-SWMW-2I-051016	3005A, 6010C	R	1 mL				
240-64671-F-7	G-OUTFALL-051016	3005A, 6010C	R	1 mL				

Batch Notes	
Filter Paper ID	9656618
Hot Block ID	HB1
Pipette ID	MP1-MP3
Digestion Tube/Cup ID	1509104

Basis	Basis Description
R	Total Recoverable
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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-64548-1

SDG No.: _____

Project: Block G GW Remedy

Client Sample ID	Lab Sample ID
<u>MRC-MW-14B-050616</u>	<u>240-64548-2</u>
<u>SWMW-1I-050616</u>	<u>240-64548-3</u>
<u>MRC-MW-12A-050916</u>	<u>240-64615-2</u>
<u>MRC-MW-12B-050916</u>	<u>240-64615-3</u>
<u>G-SWMW-3I-050916</u>	<u>240-64615-4</u>
<u>G-SWMW-4I-051016</u>	<u>240-64671-2</u>
<u>G-SWMW-4S-051016</u>	<u>240-64671-3</u>
<u>G-SWMW-5I-051016</u>	<u>240-64671-4</u>
<u>G-SWMW-2I-051016</u>	<u>240-64671-5</u>
<u>G-OUTFALL-051016</u>	<u>240-64671-7</u>

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MRC-MW-14B-050616

Lab Sample ID: 240-64548-2

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/06/2016 11:50

Reporting Basis: WET

Date Received: 05/07/2016 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	910	5.0	1.9	mg/L			1	2320B-19 97
16887-00-6	Chloride	83	1.0	0.41	mg/L			1	300.0
14797-65-0	Nitrite as N	0.41	0.10	0.038	mg/L			1	300.0
14808-79-8	Sulfate	0.25	1.0	0.13	mg/L	J		1	300.0
14797-55-8	Nitrate as N	0.10	0.10	0.035	mg/L	U		1	300.0
14808-79-8	Sulfate	0.28	1.0	0.13	mg/L	J		1	300.0
	TOC Result 1	340	4.0	0.32	mg/L			4	9060A
	TOC Result 2	250	4.0	0.32	mg/L			4	9060A
	TOC Result 3	320	4.0	0.32	mg/L			4	9060A
	TOC Result 4	260	4.0	0.32	mg/L			4	9060A
7440-44-0	Total Organic Carbon	290	4.0	0.32	mg/L			4	9060A
	Total Dissolved Solids	1600	20	15	mg/L			1	SM 2540C
	Orthophosphate as P	0.11	0.10	0.0050	mg/L			1	SM 4500 P E

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SWMW-1I-050616

Lab Sample ID: 240-64548-3

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/06/2016 13:25

Reporting Basis: WET

Date Received: 05/07/2016 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	340	5.0	1.9	mg/L			1	2320B-19 97
16887-00-6	Chloride	70	1.0	0.41	mg/L			1	300.0
14797-65-0	Nitrite as N	0.10	0.10	0.038	mg/L	U		1	300.0
14808-79-8	Sulfate	4.7	1.0	0.13	mg/L			1	300.0
14797-55-8	Nitrate as N	0.10	0.10	0.035	mg/L	U		1	300.0
14808-79-8	Sulfate	2.0	1.0	0.13	mg/L			1	300.0
	TOC Result 1	35	1.0	0.080	mg/L			1	9060A
	TOC Result 2	39	1.0	0.080	mg/L			1	9060A
	TOC Result 3	38	1.0	0.080	mg/L			1	9060A
	TOC Result 4	40	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	38	1.0	0.080	mg/L			1	9060A
	Total Dissolved Solids	520	10	7.4	mg/L			1	SM 2540C
	Orthophosphate as P	0.11	0.10	0.0050	mg/L			1	SM 4500 P E

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MRC-MW-12A-050916

Lab Sample ID: 240-64615-2

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/09/2016 10:55

Reporting Basis: WET

Date Received: 05/10/2016 10:05

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	93	5.0	1.9	mg/L			1	2320B-19 97
16887-00-6	Chloride	67	1.0	0.41	mg/L			1	300.0
14797-65-0	Nitrite as N	0.10	0.10	0.038	mg/L	U		1	300.0
14797-55-8	Nitrate as N	0.10	0.10	0.035	mg/L	U		1	300.0
14808-79-8	Sulfate	0.52	1.0	0.13	mg/L	J		1	300.0
	TOC Result 1	5.9	1.0	0.080	mg/L			1	9060A
	TOC Result 2	3.5	1.0	0.080	mg/L			1	9060A
	TOC Result 3	5.2	1.0	0.080	mg/L			1	9060A
	TOC Result 4	2.3	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	4.2	1.0	0.080	mg/L			1	9060A
	Total Dissolved Solids	370	10	7.4	mg/L			1	SM 2540C
	Orthophosphate as P	0.014	0.20	0.010	mg/L	J		2	SM 4500 P E

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MRC-MW-12B-050916

Lab Sample ID: 240-64615-3

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/09/2016 12:20

Reporting Basis: WET

Date Received: 05/10/2016 10:05

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	TOC Result 1	1.0	1.0	0.080	mg/L	U		1	9060A
	TOC Result 2	1.0	1.0	0.080	mg/L	U		1	9060A
	TOC Result 3	1.0	1.0	0.080	mg/L	U		1	9060A
	TOC Result 4	1.0	1.0	0.080	mg/L	U		1	9060A
7440-44-0	Total Organic Carbon	1.0	1.0	0.080	mg/L	U		1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G-SWMW-3I-050916

Lab Sample ID: 240-64615-4

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/09/2016 14:15

Reporting Basis: WET

Date Received: 05/10/2016 10:05

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	TOC Result 1	220	4.0	0.32	mg/L			4	9060A
	TOC Result 2	230	4.0	0.32	mg/L			4	9060A
	TOC Result 3	220	4.0	0.32	mg/L			4	9060A
	TOC Result 4	230	4.0	0.32	mg/L			4	9060A
7440-44-0	Total Organic Carbon	220	4.0	0.32	mg/L			4	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G-SWMW-4I-051016

Lab Sample ID: 240-64671-2

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/10/2016 10:00

Reporting Basis: WET

Date Received: 05/11/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	820	5.0	1.9	mg/L			1	2320B-19 97
16887-00-6	Chloride	74	1.0	0.41	mg/L			1	300.0
14797-65-0	Nitrite as N	1.9	0.50	0.19	mg/L			5	300.0
14797-55-8	Nitrate as N	0.50	0.50	0.18	mg/L	U		5	300.0
14808-79-8	Sulfate	0.18	1.0	0.13	mg/L	J		1	300.0
	TOC Result 1	560	20	1.6	mg/L			20	9060A
	TOC Result 2	550	20	1.6	mg/L			20	9060A
	TOC Result 3	560	20	1.6	mg/L			20	9060A
	TOC Result 4	560	20	1.6	mg/L			20	9060A
7440-44-0	Total Organic Carbon	560	20	1.6	mg/L			20	9060A
	Total Dissolved Solids	2000	20	15	mg/L			1	SM 2540C
	Orthophosphate as P	0.19	0.50	0.025	mg/L	J		5	SM 4500 P E

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: G-SWMW-4S-051016

Lab Sample ID: 240-64671-3

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/10/2016 11:10

Reporting Basis: WET

Date Received: 05/11/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	TOC Result 1	51	1.0	0.080	mg/L			1	9060A
	TOC Result 2	51	1.0	0.080	mg/L			1	9060A
	TOC Result 3	52	1.0	0.080	mg/L			1	9060A
	TOC Result 4	51	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	51	1.0	0.080	mg/L			1	9060A

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: G-SWMW-5I-051016

Lab Sample ID: 240-64671-4

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/10/2016 12:30

Reporting Basis: WET

Date Received: 05/11/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	TOC Result 1	550	20	1.6	mg/L			20	9060A
	TOC Result 2	550	20	1.6	mg/L			20	9060A
	TOC Result 3	550	20	1.6	mg/L			20	9060A
	TOC Result 4	550	20	1.6	mg/L			20	9060A
7440-44-0	Total Organic Carbon	550	20	1.6	mg/L			20	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G-SWMW-2I-051016

Lab Sample ID: 240-64671-5

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/10/2016 14:30

Reporting Basis: WET

Date Received: 05/11/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	620	5.0	1.9	mg/L			1	2320B-19 97
16887-00-6	Chloride	88	1.0	0.41	mg/L			1	300.0
14797-65-0	Nitrite as N	0.91	0.50	0.19	mg/L			5	300.0
14797-55-8	Nitrate as N	0.50	0.50	0.18	mg/L	U		5	300.0
14808-79-8	Sulfate	1.0	1.0	0.13	mg/L	U		1	300.0
	TOC Result 1	220	10	0.80	mg/L			10	9060A
	TOC Result 2	230	10	0.80	mg/L			10	9060A
	TOC Result 3	230	10	0.80	mg/L			10	9060A
	TOC Result 4	220	10	0.80	mg/L			10	9060A
7440-44-0	Total Organic Carbon	230	10	0.80	mg/L			10	9060A
	Total Dissolved Solids	1200	10	7.4	mg/L			1	SM 2540C
	Orthophosphate as P	0.092	0.50	0.025	mg/L	J		5	SM 4500 P E

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G-OUTFALL-051016

Lab Sample ID: 240-64671-7

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/10/2016 14:40

Reporting Basis: WET

Date Received: 05/11/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	250	5.0	1.9	mg/L			1	2320B-19 97
16887-00-6	Chloride	200	1.0	0.41	mg/L			1	300.0
14797-65-0	Nitrite as N	0.50	0.50	0.19	mg/L	U		5	300.0
14797-55-8	Nitrate as N	0.12	0.10	0.035	mg/L			1	300.0
14808-79-8	Sulfate	50	1.0	0.13	mg/L			1	300.0
	TOC Result 1	7.0	1.0	0.080	mg/L			1	9060A
	TOC Result 2	6.9	1.0	0.080	mg/L			1	9060A
	TOC Result 3	6.9	1.0	0.080	mg/L			1	9060A
	TOC Result 4	6.9	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	6.9	1.0	0.080	mg/L			1	9060A
	Total Dissolved Solids	580	10	7.4	mg/L			1	SM 2540C
	Orthophosphate as P	0.080	0.20	0.010	mg/L	J		2	SM 4500 P E

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
SDG No.: _____
Analyst: LKG Batch Start Date: 03/14/2016
Reporting Units: mg/L Analytical Batch No.: 221498

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
12	ICV	23:12	Chloride	53.1	50.0	106	90-110		WCICLCS_00497
			Sulfate	49.3	50.0	99	90-110		WCICLCS_00497

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
SDG No.: _____
Analyst: LKG Batch Start Date: 03/14/2016
Reporting Units: mg/L Analytical Batch No.: 221499

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
12	ICV	23:12	Nitrite as N	2.40	2.50	96	90-110		WCICLCS_00497
			Nitrate as N	2.51	2.50	100	90-110		WCICLCS_00497

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
SDG No.: _____
Analyst: LKG Batch Start Date: 04/30/2016
Reporting Units: mg/L Analytical Batch No.: 228222

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	ICV	00:14	Sulfate	53.2	50.0	106	90-110		WCICLCS_00518

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: LKG Batch Start Date: 05/07/2016
 Reporting Units: mg/L Analytical Batch No.: 229421

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:23	Chloride	50.4	50.0	101	90-110		WCICCCV_00676
			Sulfate	48.1	50.0	96	90-110		WCICCCV_00676
2	CCB	14:39	Chloride	1.0				U	
			Sulfate	1.0				U	
13	CCV	17:40	Chloride	50.4	50.0	101	90-110		WCICCCV_00676
			Sulfate	48.1	50.0	96	90-110		WCICCCV_00676
14	CCB	17:56	Chloride	1.0				U	
			Sulfate	1.0				U	
17	CCV	18:45	Chloride	50.3	50.0	101	90-110		WCICCCV_00676
			Sulfate	48.1	50.0	96	90-110		WCICCCV_00676
18	CCB	19:02	Chloride	1.0				U	
			Sulfate	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: LKG Batch Start Date: 05/07/2016
 Reporting Units: mg/L Analytical Batch No.: 229422

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:23	Nitrite as N	2.44	2.50	98	90-110		WCICCCV_00676
			Nitrate as N	2.48	2.50	99	90-110		WCICCCV_00676
2	CCB	14:39	Nitrite as N	0.10				U	
			Nitrate as N	0.10				U	
13	CCV	17:40	Nitrite as N	2.46	2.50	98	90-110		WCICCCV_00676
			Nitrate as N	2.48	2.50	99	90-110		WCICCCV_00676
14	CCB	17:56	Nitrite as N	0.10				U	
			Nitrate as N	0.10				U	
17	CCV	18:45	Nitrite as N	2.41	2.50	96	90-110		WCICCCV_00676
			Nitrate as N	2.45	2.50	98	90-110		WCICCCV_00676
18	CCB	19:02	Nitrite as N	0.10				U	
			Nitrate as N	0.10				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: LCN Batch Start Date: 05/10/2016
 Reporting Units: mg/L Analytical Batch No.: 229710

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:56	Chloride	49.8	50.0	100	90-110		WCICCCV_00676
			Sulfate	47.6	50.0	95	90-110		WCICCCV_00676
2	CCB	15:13	Chloride	1.0				U	
			Sulfate	1.0				U	
13	CCV	18:22	Chloride	49.5	50.0	99	90-110		WCICCCV_00676
			Sulfate	47.8	50.0	96	90-110		WCICCCV_00676
14	CCB	18:39	Chloride	1.0				U	
			Sulfate	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: LCN Batch Start Date: 05/10/2016
 Reporting Units: mg/L Analytical Batch No.: 229711

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:56	Nitrite as N	2.43	2.50	97	90-110		WCICCCV_00676
			Nitrate as N	2.47	2.50	99	90-110		WCICCCV_00676
2	CCB	15:13	Nitrite as N	0.10				U	
			Nitrate as N	0.10				U	
13	CCV	18:22	Nitrite as N	2.42	2.50	97	90-110		WCICCCV_00676
			Nitrate as N	2.46	2.50	98	90-110		WCICCCV_00676
14	CCB	18:39	Nitrite as N	0.10				U	
			Nitrate as N	0.10				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: LCN Batch Start Date: 05/11/2016
 Reporting Units: mg/L Analytical Batch No.: 229802

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
25	CCV	16:52	Chloride	50.2	50.0	100	90-110		WCICCCV_00676
			Sulfate	47.7	50.0	95	90-110		WCICCCV_00676
26	CCB	17:08	Chloride	1.0				U	
			Sulfate	1.0				U	
37	CCV	20:09	Chloride	49.7	50.0	99	90-110		WCICCCV_00676
			Sulfate	47.4	50.0	95	90-110		WCICCCV_00676
38	CCB	20:25	Chloride	1.0				U	
			Sulfate	1.0				U	
49	CCV	23:26	Chloride	49.8	50.0	100	90-110		WCICCCV_00676
			Sulfate	47.5	50.0	95	90-110		WCICCCV_00676
50	CCB	23:42	Chloride	1.0				U	
			Sulfate	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: LCN Batch Start Date: 05/11/2016
 Reporting Units: mg/L Analytical Batch No.: 229803

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
25	CCV	16:52	Nitrite as N	2.44	2.50	98	90-110		WCICCCV_00676
			Nitrate as N	2.49	2.50	100	90-110		WCICCCV_00676
26	CCB	17:08	Nitrite as N	0.10				U	
			Nitrate as N	0.10				U	
37	CCV	20:09	Nitrite as N	2.37	2.50	95	90-110		WCICCCV_00676
			Nitrate as N	2.42	2.50	97	90-110		WCICCCV_00676
38	CCB	20:25	Nitrite as N	0.10				U	
			Nitrate as N	0.10				U	
49	CCV	23:26	Nitrite as N	2.39	2.50	96	90-110		WCICCCV_00676
			Nitrate as N	2.43	2.50	97	90-110		WCICCCV_00676
50	CCB	23:42	Nitrite as N	0.10				U	
			Nitrate as N	0.10				U	
61	CCV	02:43	Nitrite as N	2.41	2.50	96	90-110		WCICCCV_00676
62	CCB	02:59	Nitrite as N	0.10				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: LCN Batch Start Date: 05/12/2016
 Reporting Units: mg/L Analytical Batch No.: 229916

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:01	Sulfate	51.5	50.0	103	90-110		WCICCCV_00677
2	CCB	13:21	Sulfate	1.0				U	
13	CCV	17:03	Sulfate	51.5	50.0	103	90-110		WCICCCV_00677
14	CCB	17:23	Sulfate	1.0				U	
25	CCV	21:05	Sulfate	51.8	50.0	104	90-110		WCICCCV_00677
26	CCB	21:25	Sulfate	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: LKG Batch Start Date: 05/17/2016
 Reporting Units: mg/L Analytical Batch No.: 230602

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	09:21	Chloride	48.1	50.0	96	90-110		WCICCCV_00678
			Sulfate	46.5	50.0	93	90-110		WCICCCV_00678
2	CCB	09:37	Chloride	1.0				U	
			Sulfate	1.0				U	
13	CCV	12:38	Chloride	49.0	50.0	98	90-110		WCICCCV_00678
			Sulfate	47.1	50.0	94	90-110		WCICCCV_00678
14	CCB	12:54	Chloride	1.0				U	
			Sulfate	1.0				U	
25	CCV	15:55	Chloride	49.1	50.0	98	90-110		WCICCCV_00678
			Sulfate	47.2	50.0	94	90-110		WCICCCV_00678
26	CCB	16:11	Chloride	1.0				U	
			Sulfate	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: LKG Batch Start Date: 05/13/2016
 Reporting Units: mg/L Analytical Batch No.: 230269

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	08:11	TOC Result 1	24.8	25.0	99	90-110		WC TOC CCV_00299
			Total Organic Carbon	24.8	25.0	99	90-110		WC TOC CCV_00299
3	CCB	08:18	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
14	CCV	11:13	TOC Result 1	22.9	25.0	91	90-110		WC TOC CCV_00299
			Total Organic Carbon	22.9	25.0	91	90-110		WC TOC CCV_00299
15	CCB	11:21	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
18	CCVL	12:22	TOC Result 1	4.52	5.00	90	90-110		WC TOC CCVL_00093
			Total Organic Carbon	4.52	5.00	90	90-110		WC TOC CCVL_00093
19	CCV	12:29	TOC Result 1	24.7	25.0	99	90-110		WC TOC CCV_00299
			Total Organic Carbon	24.7	25.0	99	90-110		WC TOC CCV_00299
20	CCB	12:37	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: TPH Batch Start Date: 05/21/2016
 Reporting Units: mg/L Analytical Batch No.: 231370

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	17:15	TOC Result 1	24.1	25.0	96	90-110		WC TOC CCV_00302
			Total Organic Carbon	24.1	25.0	96	90-110		WC TOC CCV_00302
3	CCB	17:22	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
14	CCVL	20:20	TOC Result 1	4.84	5.00	97	90-110		WC TOC CCVL_00095
			Total Organic Carbon	4.84	5.00	97	90-110		WC TOC CCVL_00095
15	CCB	20:28	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
26	CCV	00:15	TOC Result 1	24.2	25.0	97	90-110		WC TOC CCV_00302
			Total Organic Carbon	24.2	25.0	97	90-110		WC TOC CCV_00302
27	CCB	00:24	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
33	CCVL	02:43	TOC Result 1	4.76	5.00	95	90-110		WC TOC CCVL_00095
			Total Organic Carbon	4.76	5.00	95	90-110		WC TOC CCVL_00095
34	CCB	02:53	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
45	CCVL	05:51	TOC Result 1	4.81	5.00	96	90-110		WC TOC CCVL_00095
			Total Organic Carbon	4.81	5.00	96	90-110		WC TOC CCVL_00095
46	CCV	05:59	TOC Result 1	23.9	25.0	96	90-110		WC TOC CCV_00302
			Total Organic Carbon	23.9	25.0	96	90-110		WC TOC CCV_00302
47	CCB	06:07	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
SDG No.: _____
Analyst: LKG Batch Start Date: 05/04/2016
Reporting Units: mg/L Analytical Batch No.: 228885

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
11	ICV	16:00	Orthophosphate as P	0.926	0.920	101	90-110		WCWIBBYNUTRIE_0005 3

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: BLW Batch Start Date: 05/07/2016
 Reporting Units: mg/L Analytical Batch No.: 229291

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:30	Orthophosphate as P	0.506	0.500	101	90-110		WCPHos 1ppm_00012
2	CCB	14:31	Orthophosphate as P	0.10				U	
9	CCV	14:40	Orthophosphate as P	0.500	0.500	100	90-110		WCPHos 1ppm_00012
10	CCB	14:41	Orthophosphate as P	0.10				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: JWW Batch Start Date: 05/10/2016
 Reporting Units: mg/L Analytical Batch No.: 229708

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	16:23	Orthophosphate as P	0.511	0.500	102	90-110		WCPHos 1ppm_00012
2	CCB	16:23	Orthophosphate as P	0.10				U	
8	CCV	16:23	Orthophosphate as P	0.512	0.500	102	90-110		WCPHos 1ppm_00012
9	CCB	16:23	Orthophosphate as P	0.10				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Analyst: GNR Batch Start Date: 05/11/2016
 Reporting Units: mg/L Analytical Batch No.: 229913

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:52	Orthophosphate as P	0.507	0.500	101	90-110		WCPHos 1ppm_00012
2	CCB	14:52	Orthophosphate as P	0.10				U	
11	CCV	14:52	Orthophosphate as P	0.503	0.500	101	90-110		WCPHos 1ppm_00012
12	CCB	14:52	Orthophosphate as P	0.10				U	

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 231124 Date: 05/19/2016 17:49							
2320B-1997	MB 240-231124/2	Alkalinity	5.0	U	mg/L	5.0	1
Batch ID: 231415 Date: 05/20/2016 17:32							
2320B-1997	MB 240-231415/5	Alkalinity	5.0	U	mg/L	5.0	1
Batch ID: 231415 Date: 05/20/2016 22:51							
2320B-1997	MB 240-231415/30	Alkalinity	5.0	U	mg/L	5.0	1
Batch ID: 229421 Date: 05/07/2016 14:56							
300.0	MB 240-229421/3	Chloride	1.0	U	mg/L	1.0	1
300.0	MB 240-229421/3	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 229422 Date: 05/07/2016 14:56							
300.0	MB 240-229422/3	Nitrite as N	0.10	U	mg/L	0.10	1
300.0	MB 240-229422/3	Nitrate as N	0.10	U	mg/L	0.10	1
Batch ID: 229710 Date: 05/10/2016 15:29							
300.0	MB 240-229710/3	Chloride	1.0	U	mg/L	1.0	1
300.0	MB 240-229710/3	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 229711 Date: 05/10/2016 15:29							
300.0	MB 240-229711/3	Nitrite as N	0.10	U	mg/L	0.10	1
300.0	MB 240-229711/3	Nitrate as N	0.10	U	mg/L	0.10	1
Batch ID: 229802 Date: 05/11/2016 17:25							
300.0	MB 240-229802/27	Chloride	1.0	U	mg/L	1.0	1
300.0	MB 240-229802/27	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 229803 Date: 05/11/2016 17:25							
300.0	MB 240-229803/27	Nitrite as N	0.10	U	mg/L	0.10	1
300.0	MB 240-229803/27	Nitrate as N	0.10	U	mg/L	0.10	1
Batch ID: 229803 Date: 05/11/2016 23:59							
300.0	MB 240-229803/51	Nitrite as N	0.10	U	mg/L	0.10	1
Batch ID: 229916 Date: 05/12/2016 13:41							
300.0	MB 240-229916/3	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 230602 Date: 05/17/2016 09:54							
300.0	MB 240-230602/3	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 230269 Date: 05/13/2016 08:28							
9060A	MB 240-230269/4	TOC Result 1	1.0	U	mg/L	1.0	1
9060A	MB 240-230269/4	Total Organic Carbon	1.0	U	mg/L	1.0	1
Batch ID: 231370 Date: 05/21/2016 17:32							
9060A	MB 240-231370/4	TOC Result 1	1.0	U	mg/L	1.0	1
9060A	MB 240-231370/4	Total Organic Carbon	1.0	U	mg/L	1.0	1
Batch ID: 231370 Date: 05/22/2016 03:00							
9060A	MB 240-231370/35	TOC Result 1	1.0	U	mg/L	1.0	1
9060A	MB 240-231370/35	Total Organic Carbon	1.0	U	mg/L	1.0	1
Batch ID: 229808 Date: 05/11/2016 10:11							
SM 2540C	MB 240-229808/1	Total Dissolved Solids	10	U	mg/L	10	1
Batch ID: 230211 Date: 05/13/2016 09:46							
SM 2540C	MB 240-230211/1	Total Dissolved Solids	10	U	mg/L	10	1
Batch ID: 230645 Date: 05/17/2016 10:32							
SM 2540C	MB 240-230645/1	Total Dissolved Solids	10	U	mg/L	10	1

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 229291 Date: 05/07/2016 14:32							
SM 4500 P E	MB 240-229291/3	Orthophosphate as P	0.10	U	mg/L	0.10	1
Batch ID: 229708 Date: 05/10/2016 16:23							
SM 4500 P E	MB 240-229708/3	Orthophosphate as P	0.10	U	mg/L	0.10	1
Batch ID: 229913 Date: 05/11/2016 14:52							
SM 4500 P E	MB 240-229913/3	Orthophosphate as P	0.10	U	mg/L	0.10	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 231415 Date: 05/20/2016 22:29											
2320B-1	240-64682-AD-997	Alkalinity	390		mg/L						
2320B-1	240-64682-AD-997	Alkalinity	691		mg/L	500	61	10-160			
Batch ID: 229421 Date: 05/07/2016 15:45											
300.0	240-64579-AD-3	Chloride	41		mg/L						
300.0	240-64579-AD-3 MS	Chloride	99.8		mg/L	50.0	117	80-120			
300.0	240-64579-AD-3	Sulfate	30		mg/L						
300.0	240-64579-AD-3 MS	Sulfate	87.8		mg/L	50.0	116	80-120			
Batch ID: 229422 Date: 05/07/2016 15:45											
300.0	240-64579-AD-3	Nitrite as N	0.10	U	mg/L						
300.0	240-64579-AD-3 MS	Nitrite as N	2.60		mg/L	2.50	104	80-120			
300.0	240-64579-AD-3	Nitrate as N	0.10	U	mg/L						
300.0	240-64579-AD-3 MS	Nitrate as N	2.62		mg/L	2.50	105	80-120			
Batch ID: 229710 Date: 05/10/2016 16:27											
300.0	240-64605-A-1	Chloride	64		mg/L						
300.0	240-64605-A-1 MS	Chloride	122		mg/L	50.0	115	80-120			
300.0	240-64605-A-1	Sulfate	83		mg/L						
300.0	240-64605-A-1 MS	Sulfate	143		mg/L	50.0	118	80-120			
Batch ID: 229711 Date: 05/10/2016 16:27											
300.0	240-64605-A-1	Nitrite as N	0.10	U	mg/L						
300.0	240-64605-A-1 MS	Nitrite as N	2.63		mg/L	2.50	105	80-120			
300.0	240-64605-A-1	Nitrate as N	10		mg/L						E
300.0	240-64605-A-1 MS	Nitrate as N	13.2		mg/L	2.50	110	80-120			E 4
Batch ID: 229802 Date: 05/11/2016 22:53											
300.0	240-64671-7	Sulfate	50		mg/L						
300.0	240-64671-7 MS	Sulfate	108		mg/L	50.0	116	80-120			
Batch ID: 229803 Date: 05/11/2016 22:53											
300.0	240-64671-7	Nitrite as N	0.10	U	mg/L						
300.0	240-64671-7 MS	Nitrite as N	2.84		mg/L	2.50	114	80-120			
300.0	240-64671-7	Nitrate as N	0.12		mg/L						
300.0	240-64671-7 MS	Nitrate as N	2.66		mg/L	2.50	102	80-120			
Batch ID: 229916 Date: 05/12/2016 18:44											
300.0	240-64178-F-6	Sulfate	11		mg/L						
300.0	240-64178-F-6 MS	Sulfate	66.5		mg/L	50.0	110	80-120			

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

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 230602 Date: 05/17/2016 14:00											
300.0	240-64533-J-5	Sulfate	47		mg/L						
300.0	240-64533-J-5	Sulfate	101		mg/L	50.0	108	80-120			
	MS										
Batch ID: 230269 Date: 05/13/2016 09:40											
9060A	240-64482-E-8	TOC Result 1	1.0	U	mg/L						
9060A	240-64482-E-8	TOC Result 1	22.5		mg/L	25.0	90	72-136			
	MS										
9060A	240-64482-E-8	Total Organic Carbon	1.0	U	mg/L						
9060A	240-64482-E-8	Total Organic Carbon	22.5		mg/L	25.0	90	72-136			
	MS										
Batch ID: 231370 Date: 05/21/2016 23:09											
9060A	240-64565-G-7	TOC Result 1	2.0		mg/L						
9060A	240-64565-G-7	TOC Result 1	26.7		mg/L	25.0	99	72-136			
	MS										
9060A	240-64565-G-7	Total Organic Carbon	2.1		mg/L						
9060A	240-64565-G-7	Total Organic Carbon	26.7		mg/L	25.0	98	72-136			
	MS										
Batch ID: 231370 Date: 05/22/2016 03:50											
9060A	240-64565-G-1	TOC Result 1	3.2		mg/L						
	4										
9060A	240-64565-G-1	TOC Result 1	28.9		mg/L	25.0	103	72-136			
	4 MS										
9060A	240-64565-G-1	Total Organic Carbon	3.2		mg/L						
	4										
9060A	240-64565-G-1	Total Organic Carbon	28.9		mg/L	25.0	103	72-136			
	4 MS										
Batch ID: 229291 Date: 05/07/2016 14:36											
SM 4500	240-64548-3	Orthophosphate as P	0.11		mg/L						
P E											
SM 4500	240-64548-3	Orthophosphate as P	0.683		mg/L	0.500	115	56-139			
P E	MS										
Batch ID: 229708 Date: 05/10/2016 16:23											
SM 4500	240-64615-2	Orthophosphate as P	0.014	J	mg/L						
P E											
SM 4500	240-64615-2	Orthophosphate as P	0.984		mg/L	1.00	97	56-139			
P E	MS										
Batch ID: 229913 Date: 05/11/2016 14:52											
SM 4500	240-64680-D-1	Orthophosphate as P	0.70		mg/L						
P E											
SM 4500	240-64680-D-1	Orthophosphate as P	3.27		mg/L	2.50	103	56-139			
P E	MS										

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

5-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 231415 Date: 05/20/2016 23:11											
2320B-1 997	240-64682-AD- 5 MSD	Alkalinity	676		mg/L	500	58	10-160	2	24	
Batch ID: 229422 Date: 05/07/2016 16:01											
300.0	240-64579-AD- 3 MSD	Nitrite as N	2.57		mg/L	2.50	103	80-120	1	15	
Batch ID: 229710 Date: 05/10/2016 16:44											
300.0	240-64605-A-1 MSD	Chloride	122		mg/L	50.0	115	80-120	0	15	
300.0	240-64605-A-1 MSD	Sulfate	143		mg/L	50.0	120	80-120	1	15	
Batch ID: 229711 Date: 05/10/2016 16:44											
300.0	240-64605-A-1 MSD	Nitrite as N	2.64		mg/L	2.50	106	80-120	0	15	
300.0	240-64605-A-1 MSD	Nitrate as N	13.2		mg/L	2.50	110	80-120	0	15	E 4
Batch ID: 229802 Date: 05/11/2016 23:09											
300.0	240-64671-7 MSD	Sulfate	107		mg/L	50.0	115	80-120	0	15	
Batch ID: 229803 Date: 05/11/2016 23:09											
300.0	240-64671-7 MSD	Nitrite as N	2.82		mg/L	2.50	113	80-120	1	15	
300.0	240-64671-7 MSD	Nitrate as N	2.64		mg/L	2.50	101	80-120	1	15	
Batch ID: 229916 Date: 05/12/2016 19:04											
300.0	240-64178-F-6 MSD	Sulfate	67.0		mg/L	50.0	111	80-120	1	15	
Batch ID: 230602 Date: 05/17/2016 14:16											
300.0	240-64533-J-5 MSD	Sulfate	105		mg/L	50.0	116	80-120	4	15	
Batch ID: 230269 Date: 05/13/2016 09:48											
9060A	240-64482-E-8 MSD	TOC Result 1	22.6		mg/L	25.0	90	72-136	0	20	
9060A	240-64482-E-8 MSD	Total Organic Carbon	22.6		mg/L	25.0	90	72-136	0	20	
Batch ID: 231370 Date: 05/21/2016 23:16											
9060A	240-64565-G-7 MSD	TOC Result 1	26.8		mg/L	25.0	99	72-136	0	20	
9060A	240-64565-G-7 MSD	Total Organic Carbon	26.8		mg/L	25.0	99	72-136	0	20	
Batch ID: 231370 Date: 05/22/2016 03:57											
9060A	240-64565-G-1 4 MSD	TOC Result 1	27.9		mg/L	25.0	99	72-136	4	20	
9060A	240-64565-G-1 4 MSD	Total Organic Carbon	27.9		mg/L	25.0	99	72-136	4	20	
Batch ID: 229291 Date: 05/07/2016 14:37											
SM P E	4500 MSD	240-64548-3 Orthophosphate as P	0.627		mg/L	0.500	104	56-139	8	20	
Batch ID: 229708 Date: 05/10/2016 16:23											
SM P E	4500 MSD	240-64615-2 Orthophosphate as P	0.955		mg/L	1.00	94	56-139	3	20	
Batch ID: 229913 Date: 05/11/2016 14:52											

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

5-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
SM 4500 P E	240-64680-D-1 MSD	Orthophosphate as P	3.11		mg/L	2.50	96	56-139	5	20	

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

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 231124 Date: 05/19/2016 19:47								
2320B-1997		240-64616-E-10	Alkalinity	220	mg/L			
2320B-1997		240-64616-E-10 DU	Alkalinity	214	mg/L	0.5	20	
Batch ID: 231415 Date: 05/20/2016 17:51								
2320B-1997	MRC-MW-12A-050916	240-64615-2	Alkalinity	93	mg/L			
2320B-1997	MRC-MW-12A-050916	240-64615-2 DU	Alkalinity	91.8	mg/L	1	20	
Batch ID: 229808 Date: 05/11/2016 10:11								
SM 2540C		240-64602-E-4	Total Dissolved Solids	490	mg/L			
SM 2540C		240-64602-E-4 DU	Total Dissolved Solids	490	mg/L	0.4	20	
Batch ID: 230211 Date: 05/13/2016 09:46								
SM 2540C		240-64692-I-4	Total Dissolved Solids	430	mg/L			
SM 2540C		240-64692-I-4 DU	Total Dissolved Solids	431	mg/L	0.9	20	
Batch ID: 230645 Date: 05/17/2016 10:32								
SM 2540C		240-64795-R-1	Total Dissolved Solids	230	mg/L			
SM 2540C		240-64795-R-1 DU	Total Dissolved Solids	231	mg/L	0.9	20	

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

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 231124 Date: 05/19/2016 17:59											
						LCS Source: WCPHENOMINER_00015					
2320B-1 997	LCS 240-231124/3	Alkalinity	361		mg/L	368	98	90-127			
Batch ID: 231415 Date: 05/20/2016 17:26											
						LCS Source: WCPHENOMINER_00015					
2320B-1 997	LCS 240-231415/4	Alkalinity	374		mg/L	368	102	90-127			
Batch ID: 231415 Date: 05/20/2016 22:46											
						LCS Source: WCPHENOMINER_00015					
2320B-1 997	LCS 240-231415/29	Alkalinity	376		mg/L	368	102	90-127			
Batch ID: 229421 Date: 05/07/2016 15:12											
						LCS Source: WCICLCS_00519					
300.0	LCS 240-229421/4	Chloride	51.0		mg/L	50.0	102	90-110			
300.0	LCS 240-229421/4	Sulfate	48.5		mg/L	50.0	97	90-110			
Batch ID: 229422 Date: 05/07/2016 15:12											
						LCS Source: WCICLCS_00519					
300.0	LCS 240-229422/4	Nitrite as N	2.44		mg/L	2.50	98	90-110			
300.0	LCS 240-229422/4	Nitrate as N	2.54		mg/L	2.50	102	90-110			
Batch ID: 229710 Date: 05/10/2016 15:46											
						LCS Source: WCICLCS_00519					
300.0	LCS 240-229710/4	Chloride	50.4		mg/L	50.0	101	90-110			
300.0	LCS 240-229710/4	Sulfate	48.2		mg/L	50.0	96	90-110			
Batch ID: 229711 Date: 05/10/2016 15:46											
						LCS Source: WCICLCS_00519					
300.0	LCS 240-229711/4	Nitrite as N	2.41		mg/L	2.50	97	90-110			
300.0	LCS 240-229711/4	Nitrate as N	2.53		mg/L	2.50	101	90-110			
Batch ID: 229802 Date: 05/11/2016 17:41											
						LCS Source: WCICLCS_00519					
300.0	LCS 240-229802/28	Chloride	50.4		mg/L	50.0	101	90-110			
300.0	LCS 240-229802/28	Sulfate	48.0		mg/L	50.0	96	90-110			
Batch ID: 229803 Date: 05/11/2016 17:41											
						LCS Source: WCICLCS_00519					
300.0	LCS 240-229803/28	Nitrite as N	2.34		mg/L	2.50	93	90-110			
300.0	LCS 240-229803/28	Nitrate as N	2.48		mg/L	2.50	99	90-110			
Batch ID: 229803 Date: 05/12/2016 00:15											
						LCS Source: WCICLCS_00519					
300.0	LCS 240-229803/52	Nitrite as N	2.35		mg/L	2.50	94	90-110			

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

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 229916 Date: 05/12/2016 14:01											
300.0	LCS 240-229916/4	Sulfate	54.7		mg/L	50.0	109	90-110			
LCS Source: WCICLCS_00520											
Batch ID: 230602 Date: 05/17/2016 10:10											
300.0	LCS 240-230602/4	Sulfate	48.7		mg/L	50.0	97	90-110			
LCS Source: WCICLCS_00523											
Batch ID: 230269 Date: 05/13/2016 08:42											
9060A	LCS 240-230269/6	TOC Result 1	15.0		mg/L	14.4	104	88-115			
9060A	LCS 240-230269/6	Total Organic Carbon	15.0		mg/L	14.4	104	88-115			
LCS Source: WC LCS_00045											
Batch ID: 231370 Date: 05/21/2016 17:47											
9060A	LCS 240-231370/6	TOC Result 1	14.2		mg/L	14.4	99	88-115			
9060A	LCS 240-231370/6	Total Organic Carbon	14.2		mg/L	14.4	99	88-115			
LCS Source: WC LCS_00045											
Batch ID: 231370 Date: 05/22/2016 03:16											
9060A	LCS 240-231370/37	TOC Result 1	13.9		mg/L	14.4	96	88-115			
9060A	LCS 240-231370/37	Total Organic Carbon	13.9		mg/L	14.4	96	88-115			
LCS Source: WC LCS_00045											
Batch ID: 229808 Date: 05/11/2016 10:11											
SM 2540C	LCS 240-229808/2	Total Dissolved Solids	533		mg/L	577	92	88-110			
LCS Source: WCPHENOVSOLID_00015											
Batch ID: 230211 Date: 05/13/2016 09:46											
SM 2540C	LCS 240-230211/2	Total Dissolved Solids	545		mg/L	577	94	88-110			
LCS Source: WCPHENOVSOLID_00015											
Batch ID: 230645 Date: 05/17/2016 10:32											
SM 2540C	LCS 240-230645/2	Total Dissolved Solids	550		mg/L	577	95	88-110			
LCS Source: WCPHENOVSOLID_00015											
Batch ID: 229291 Date: 05/07/2016 14:34											
SM 4500 P E	LCS 240-229291/4	Orthophosphate as P	1.80		mg/L	1.84	98	89-115			
LCS Source: WCWIBBYNUTRIE_00053											
Batch ID: 229708 Date: 05/10/2016 16:23											
SM 4500 P E	LCS 240-229708/4	Orthophosphate as P	0.886		mg/L	0.920	96	89-115			
LCS Source: WCWIBBYNUTRIE_00053											
Batch ID: 229913 Date: 05/11/2016 14:52											
SM 4500 P E	LCS 240-229913/4	Orthophosphate as P	0.903		mg/L	0.920	98	89-115			
LCS Source: WCWIBBYNUTRIE_00053											

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

FORM VIIA-IN

7A-IN
 LOW LEVEL CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 230269 Date: 05/13/2016 08:36			LCS Source: WC LCS_00045								
9060A	LLCS 240-230269/5	TOC Result 1	7.55		mg/L	7.20	105	88-115			
9060A	LLCS 240-230269/5	Total Organic Carbon	7.55		mg/L	7.20	105	88-115			
Batch ID: 231370 Date: 05/21/2016 17:40			LCS Source: WC LCS_00046								
9060A	LLCS 240-231370/5	TOC Result 1	6.64		mg/L	7.20	92	88-115			
9060A	LLCS 240-231370/5	Total Organic Carbon	6.64		mg/L	7.20	92	88-115			
Batch ID: 231370 Date: 05/22/2016 03:08			LCS Source: WC LCS_00046								
9060A	LLCS 240-231370/36	TOC Result 1	6.72		mg/L	7.20	93	88-115			
9060A	LLCS 240-231370/36	Total Organic Carbon	6.72		mg/L	7.20	93	88-115			

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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-64548-1
SDG Number: _____
Matrix: Water Instrument ID: Randolph
Method: 2320B-1997 MDL Date: 07/12/2013 09:18

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity		5	1.9

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-64548-1
SDG Number: _____
Matrix: Water Instrument ID: Randolph
Method: 2320B-1997 XMDL Date: 07/12/2013 09:19

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	1.9

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-64548-1

SDG Number: _____

Matrix: Water

Instrument ID: STEVE

Method: 2320B-1997

MDL Date: 07/12/2013 09:18

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity		5	1.9

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-64548-1
SDG Number: _____
Matrix: Water Instrument ID: STEVE
Method: 2320B-1997 XMDL Date: 07/12/2013 09:19

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	1.9

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-64548-1

SDG Number: _____

Matrix: Water

Instrument ID: SIMON

Method: 300.0

MDL Date: 08/12/2014 17:01

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		1	0.407
Nitrate as N		0.1	0.035
Nitrite as N		0.1	0.038
Sulfate		1	0.13

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-64548-1

SDG Number: _____

Matrix: Water

Instrument ID: SIMON

Method: 300.0

XMDL Date: 08/12/2014 17:02

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		1	0.407
Nitrate as N		0.1	0.035
Nitrite as N		0.1	0.038
Sulfate		1	0.13

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-64548-1

SDG Number: _____

Matrix: Water

Instrument ID: VERONICA

Method: 300.0

MDL Date: 08/12/2014 17:01

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		1	0.13

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-64548-1
SDG Number: _____
Matrix: Water Instrument ID: VERONICA
Method: 300.0 XMDL Date: 08/12/2014 17:02

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		1	0.13

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-64548-1

SDG Number: _____

Matrix: Water

Instrument ID: Clark

Method: 9060A

MDL Date: 04/28/2015 15:58

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Result 1		1	0.08
TOC Result 2		1	0.08
TOC Result 3		1	0.08
TOC Result 4		1	0.08
Total Organic Carbon		1	0.08

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-64548-1
SDG Number: _____
Matrix: Water Instrument ID: Clark
Method: 9060A XMDL Date: 04/28/2015 15:59

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Result 1		1	0.08
TOC Result 2		1	0.08
TOC Result 3		1	0.08
TOC Result 4		1	0.08
Total Organic Carbon		1	0.08

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-64548-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: SM 2540C

MDL Date: 01/28/2010 09:50

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Dissolved Solids		10	7.4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-64548-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 2540C XMDL Date: 01/28/2010 09:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	7.4

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-64548-1

SDG Number: _____

Matrix: Water

Instrument ID: ERNIE

Method: SM 4500 P E

MDL Date: 03/31/2016 13:42

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Orthophosphate as P		0.1	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-64548-1
SDG Number: _____
Matrix: Water Instrument ID: ERNIE
Method: SM 4500 P E XMDL Date: 02/17/2016 10:31

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Orthophosphate as P		0.1	0.005

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: Randolph Analysis Method: 2320B-1997

Start Date: 05/19/2016 17:39 End Date: 05/19/2016 21:46

Lab Sample Id	D/F	T y p e	Time	Analytes															
				A l k															
ZZZZZZ			17:39																
MB 240-231124/2	1	T	17:49	X															
LCS 240-231124/3	1	T	17:59	X															
ZZZZZZ			18:08																
ZZZZZZ			18:18																
ZZZZZZ			18:28																
ZZZZZZ			18:38																
ZZZZZZ			18:48																
ZZZZZZ			18:58																
ZZZZZZ			19:08																
ZZZZZZ			19:18																
ZZZZZZ			19:27																
ZZZZZZ			19:37																
240-64616-E-10 DU	1	T	19:47	X															
ZZZZZZ			19:57																
ZZZZZZ			20:07																
ZZZZZZ			20:17																
ZZZZZZ			20:27																
ZZZZZZ			20:37																
ZZZZZZ			20:46																
ZZZZZZ			20:56																
ZZZZZZ			21:06																
240-64548-3	1	T	21:16	X															
240-64548-2	1	T	21:26	X															
ZZZZZZ			21:36																
ZZZZZZ			21:46																

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Instrument ID: STEVE

Analysis Method: 2320B-1997

Start Date: 05/20/2016 17:05

End Date: 05/21/2016 00:26

Lab Sample Id	D/F	Type	Time	Analytes																			
				Alk																			
RINSE 240-231415/1			17:05																				
RINSE 240-231415/2			17:09																				
ZZZZZZ			17:13																				
LCS 240-231415/4	1	T	17:26	X																			
MB 240-231415/5	1	T	17:32	X																			
ZZZZZZ			17:35																				
240-64615-2	1	T	17:43	X																			
240-64615-2 DU	1	T	17:51	X																			
ZZZZZZ			18:06																				
ZZZZZZ			18:21																				
ZZZZZZ			18:34																				
ZZZZZZ			18:50																				
240-64671-2	1	T	19:15	X																			
240-64671-5	1	T	19:35	X																			
240-64671-7	1	T	19:45	X																			
ZZZZZZ			20:00																				
ZZZZZZ			20:03																				
ZZZZZZ			20:16																				
ZZZZZZ			20:29																				
ZZZZZZ			20:43																				
ZZZZZZ			20:59																				
ZZZZZZ			21:12																				
ZZZZZZ			21:25																				
ZZZZZZ			21:43																				
ZZZZZZ			21:55																				
ZZZZZZ			22:09																				
240-64682-AD-5 MS	1	T	22:29	X																			
ZZZZZZ			22:33																				
LCS 240-231415/29	1	T	22:46	X																			
MB 240-231415/30	1	T	22:51	X																			
240-64682-AD-5 MSD	1	T	23:11	X																			
ZZZZZZ			23:22																				
ZZZZZZ			23:35																				
ZZZZZZ			23:47																				
ZZZZZZ			23:59																				
ZZZZZZ			00:12																				
ZZZZZZ			00:23																				
ZZZZZZ			00:26																				

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 03/14/2016 20:28 End Date: 03/14/2016 23:29

Lab Sample Id	D/F	Type	Time	Analytes																											
				C	S																										
STD1 240-221498/2 IC	1		20:28	X	X																										
STD2 240-221498/3 IC	1		20:45	X	X																										
STD3 240-221498/4 IC	1		21:01	X	X																										
STD4 240-221498/5 IC	1		21:17	X	X																										
STD5 240-221498/6 ICRT	1		21:34	X	X																										
STD6 240-221498/7 IC	1		21:50	X	X																										
STD7 240-221498/8 IC	1		22:07	X	X																										
STD8 240-221498/9 IC	1		22:23	X	X																										
STD9 240-221498/10 IC	1		22:39	X	X																										
ZZZZZZ			22:56																												
ICV 240-221498/12	1		23:12	X	X																										
ICB 240-221498/13			23:29																												

Prep Types: _____
=

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 03/14/2016 20:28 End Date: 03/14/2016 23:29

Lab Sample Id	D/F	Type	Time	Analytes																											
				N - N O 2	N O 3																										
STD1 240-221499/2 IC	1		20:28	X	X																										
STD2 240-221499/3 IC	1		20:45	X	X																										
STD3 240-221499/4 IC	1		21:01	X	X																										
STD4 240-221499/5 IC	1		21:17	X	X																										
STD5 240-221499/6 ICRT	1		21:34	X	X																										
STD6 240-221499/7 IC	1		21:50	X	X																										
STD7 240-221499/8 IC	1		22:07	X	X																										
STD8 240-221499/9 IC	1		22:23	X	X																										
STD9 240-221499/10 IC	1		22:39	X	X																										
ZZZZZZ			22:56																												
ICV 240-221499/12	1		23:12	X	X																										
ICB 240-221499/13			23:29																												

Prep Types: _____
=

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 05/07/2016 14:23 End Date: 05/07/2016 19:02

Lab Sample Id	D/F	Type	Time	Analytes																											
				C	S																										
CCV 240-229421/1	1		14:23	X	X																										
CCB 240-229421/2	1		14:39	X	X																										
MB 240-229421/3	1	T	14:56	X	X																										
LCS 240-229421/4	1	T	15:12	X	X																										
ZZZZZZ			15:29																												
240-64579-AD-3 MS	1	T	15:45	X	X																										
240-64579-AD-3 MSD	1	T	16:01	X	X																										
ZZZZZZ			16:18																												
ZZZZZZ			16:34																												
ZZZZZZ			16:51																												
ZZZZZZ			17:07																												
240-64548-2	1	T	17:23	X	X																										
CCV 240-229421/13	1		17:40	X	X																										
CCB 240-229421/14	1		17:56	X	X																										
ZZZZZZ			18:13																												
240-64548-3	1	T	18:29	X	X																										
CCV 240-229421/17	1		18:45	X	X																										
CCB 240-229421/18	1		19:02	X	X																										

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 05/07/2016 14:23 End Date: 05/07/2016 19:02

Lab Sample Id	D/F	Type	Time	Analytes																											
				N - N O 2	N O 3																										
CCV 240-229422/1	1		14:23	X	X																										
CCB 240-229422/2	1		14:39	X	X																										
MB 240-229422/3	1	T	14:56	X	X																										
LCS 240-229422/4	1	T	15:12	X	X																										
ZZZZZZ			15:29																												
240-64579-AD-3 MS	1	T	15:45	X	X																										
240-64579-AD-3 MSD	1	T	16:01	X	X																										
ZZZZZZ			16:18																												
ZZZZZZ			16:34																												
ZZZZZZ			16:51																												
ZZZZZZ			17:07																												
240-64548-2	1	T	17:23	X	X																										
CCV 240-229422/13	1		17:40	X	X																										
CCB 240-229422/14	1		17:56	X	X																										
ZZZZZZ			18:13																												
240-64548-3	1	T	18:29	X	X																										
CCV 240-229422/17	1		18:45	X	X																										
CCB 240-229422/18	1		19:02	X	X																										

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 05/10/2016 14:56 End Date: 05/11/2016 04:29

Lab Sample Id	D/F	Type	Time	Analytes																			
				C	S																		
				L	O																		
				-	4																		
CCV 240-229710/1	1		14:56	X	X																		
CCB 240-229710/2	1		15:13	X	X																		
MB 240-229710/3	1	T	15:29	X	X																		
LCS 240-229710/4	1	T	15:46	X	X																		
ZZZZZZ			16:02																				
240-64605-A-1 MS	1	T	16:27	X	X																		
240-64605-A-1 MSD	1	T	16:44	X	X																		
ZZZZZZ			17:00																				
ZZZZZZ			17:17																				
ZZZZZZ			17:33																				
240-64615-2	1	T	17:49	X	X																		
ZZZZZZ			18:06																				
CCV 240-229710/13	1		18:22	X	X																		
CCB 240-229710/14	1		18:39	X	X																		
ZZZZZZ			18:55																				
ZZZZZZ			19:12																				
ZZZZZZ			19:28																				
ZZZZZZ			19:44																				
ZZZZZZ			20:01																				
ZZZZZZ			20:17																				
ZZZZZZ			20:34																				
ZZZZZZ			20:50																				
ZZZZZZ			21:06																				
ZZZZZZ			21:23																				
CCV 240-229710/25			21:39																				
CCB 240-229710/26			21:56																				
ZZZZZZ			22:12																				
ZZZZZZ			22:28																				
ZZZZZZ			22:45																				
ZZZZZZ			23:01																				
ZZZZZZ			23:18																				
ZZZZZZ			23:34																				
ZZZZZZ			23:51																				
ZZZZZZ			00:07																				
ZZZZZZ			00:23																				
ZZZZZZ			00:40																				
CCV 240-229710/37			00:56																				
CCB 240-229710/38			01:13																				
ZZZZZZ			01:29																				
ZZZZZZ			01:45																				
ZZZZZZ			02:02																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 05/10/2016 14:56 End Date: 05/11/2016 04:29

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				C L -	S O 4																										
ZZZZZZ			02:18																												
ZZZZZZ			02:35																												
ZZZZZZ			02:51																												
ZZZZZZ			03:07																												
ZZZZZZ			03:24																												
ZZZZZZ			03:40																												
ZZZZZZ			03:57																												
CCV 240-229710/49			04:13																												
CCB 240-229710/50			04:29																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 05/10/2016 14:56 End Date: 05/11/2016 04:29

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				N - N o 2	N O 3																										
CCV 240-229711/1	1		14:56	X	X																										
CCB 240-229711/2	1		15:13	X	X																										
MB 240-229711/3	1	T	15:29	X	X																										
LCS 240-229711/4	1	T	15:46	X	X																										
ZZZZZZ			16:02																												
240-64605-A-1 MS	1	T	16:27	X	X																										
240-64605-A-1 MSD	1	T	16:44	X	X																										
ZZZZZZ			17:00																												
ZZZZZZ			17:17																												
ZZZZZZ			17:33																												
240-64615-2	1	T	17:49	X	X																										
CCV 240-229711/13	1		18:22	X	X																										
CCB 240-229711/14	1		18:39	X	X																										
ZZZZZZ			18:55																												
ZZZZZZ			19:12																												
ZZZZZZ			19:28																												
ZZZZZZ			20:01																												
ZZZZZZ			20:17																												
ZZZZZZ			20:34																												
ZZZZZZ			20:50																												
ZZZZZZ			21:06																												
ZZZZZZ			21:23																												
CCV 240-229711/25			21:39																												
CCB 240-229711/26			21:56																												
ZZZZZZ			22:12																												
ZZZZZZ			22:28																												
ZZZZZZ			22:45																												
ZZZZZZ			23:01																												
ZZZZZZ			23:18																												
ZZZZZZ			23:34																												
ZZZZZZ			23:51																												
ZZZZZZ			00:07																												
ZZZZZZ			00:23																												
CCV 240-229711/37			00:56																												
CCB 240-229711/38			01:13																												
CCV 240-229711/49			04:13																												
CCB 240-229711/50			04:29																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 05/11/2016 10:12 End Date: 05/12/2016 04:38

Lab Sample Id	D/F	Type	Time	Analytes																			
				C	S																		
				L	O																		
				-	4																		
CCV 240-229802/1			10:12																				
CCB 240-229802/2			10:28																				
ZZZZZZ			10:45																				
ZZZZZZ			11:01																				
ZZZZZZ			11:18																				
ZZZZZZ			11:34																				
ZZZZZZ			11:51																				
ZZZZZZ			12:07																				
ZZZZZZ			12:23																				
ZZZZZZ			12:40																				
ZZZZZZ			12:56																				
ZZZZZZ			13:16																				
CCV 240-229802/13			13:32																				
CCB 240-229802/14			13:49																				
ZZZZZZ			14:05																				
ZZZZZZ			14:21																				
ZZZZZZ			14:38																				
ZZZZZZ			14:54																				
ZZZZZZ			15:11																				
ZZZZZZ			15:27																				
ZZZZZZ			15:43																				
ZZZZZZ			16:00																				
ZZZZZZ			16:16																				
ZZZZZZ			16:33																				
CCV 240-229802/25		1	16:52	X	X																		
CCB 240-229802/26		1	17:08	X	X																		
MB 240-229802/27		1 T	17:25	X	X																		
LCS 240-229802/28		1 T	17:41	X	X																		
ZZZZZZ			17:58																				
ZZZZZZ			18:14																				
ZZZZZZ			18:30																				
ZZZZZZ			18:47																				
ZZZZZZ			19:03																				
ZZZZZZ			19:20																				
ZZZZZZ			19:36																				
ZZZZZZ			19:53																				
CCV 240-229802/37		1	20:09	X	X																		
CCB 240-229802/38		1	20:25	X	X																		
ZZZZZZ			20:42																				
ZZZZZZ			20:58																				
ZZZZZZ			21:15																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON

Analysis Method: 300.0

Start Date: 05/11/2016 10:12

End Date: 05/12/2016 04:38

Lab Sample Id	D/F	T y p e	Time	Analytes																
				C	S															
240-64671-2	1	T	21:31	X	X															
ZZZZZZ			21:47																	
240-64671-5	1	T	22:04	X	X															
ZZZZZZ			22:20																	
240-64671-7	1	T	22:37	X	X															
240-64671-7 MS	1	T	22:53		X															
240-64671-7 MSD	1	T	23:09		X															
CCV 240-229802/49	1		23:26	X	X															
CCB 240-229802/50	1		23:42	X	X															
ZZZZZZ			23:59																	
ZZZZZZ			00:15																	
ZZZZZZ			00:32																	
ZZZZZZ			00:48																	
ZZZZZZ			01:04																	
ZZZZZZ			01:21																	
ZZZZZZ			01:37																	
ZZZZZZ			01:54																	
ZZZZZZ			02:10																	
ZZZZZZ			02:26																	
CCV 240-229802/61			02:43																	
CCB 240-229802/62			02:59																	
ZZZZZZ			03:16																	
ZZZZZZ			03:32																	
ZZZZZZ			03:48																	
ZZZZZZ			04:05																	
CCV 240-229802/67			04:21																	
CCB 240-229802/68			04:38																	

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 05/11/2016 10:12 End Date: 05/12/2016 04:38

Lab Sample Id	D/F	Type	Time	Analytes																											
				N - N O 2	N O 3																										
CCV 240-229803/1			10:12																												
CCB 240-229803/2			10:28																												
ZZZZZZ			10:45																												
ZZZZZZ			11:01																												
ZZZZZZ			11:18																												
ZZZZZZ			11:34																												
ZZZZZZ			11:51																												
ZZZZZZ			12:07																												
ZZZZZZ			12:23																												
ZZZZZZ			12:40																												
ZZZZZZ			12:56																												
ZZZZZZ			13:16																												
CCV 240-229803/13			13:32																												
CCB 240-229803/14			13:49																												
ZZZZZZ			14:05																												
ZZZZZZ			14:21																												
ZZZZZZ			14:38																												
ZZZZZZ			14:54																												
ZZZZZZ			15:11																												
ZZZZZZ			15:27																												
ZZZZZZ			15:43																												
ZZZZZZ			16:00																												
ZZZZZZ			16:16																												
ZZZZZZ			16:33																												
CCV 240-229803/25		1	16:52		X	X																									
CCB 240-229803/26		1	17:08		X	X																									
MB 240-229803/27		1	T 17:25		X	X																									
LCS 240-229803/28		1	T 17:41		X	X																									
ZZZZZZ			17:58																												
ZZZZZZ			18:14																												
ZZZZZZ			18:30																												
ZZZZZZ			18:47																												
ZZZZZZ			19:03																												
ZZZZZZ			19:20																												
ZZZZZZ			19:36																												
ZZZZZZ			19:53																												
CCV 240-229803/37		1	20:09		X	X																									
CCB 240-229803/38		1	20:25		X	X																									
ZZZZZZ			20:42																												

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 05/11/2016 10:12 End Date: 05/12/2016 04:38

Lab Sample Id	D/F	Type	Time	Analytes																											
				N - N O 2	N O 3																										
ZZZZZZ			20:58																												
ZZZZZZ			21:15																												
ZZZZZZ			21:31																												
240-64671-2	5	T	21:47	X	X																										
ZZZZZZ			22:04																												
240-64671-5	5	T	22:20	X	X																										
240-64671-7	1	T	22:37	X																											
240-64671-7 MS	1	T	22:53	X	X																										
240-64671-7 MSD	1	T	23:09	X	X																										
CCV 240-229803/49	1		23:26	X	X																										
CCB 240-229803/50	1		23:42	X	X																										
MB 240-229803/51	1	T	23:59	X																											
LCS 240-229803/52	1	T	00:15	X																											
240-64671-7	5	T	00:32	X																											
ZZZZZZ			00:48																												
ZZZZZZ			01:04																												
ZZZZZZ			01:21																												
ZZZZZZ			01:37																												
ZZZZZZ			01:54																												
ZZZZZZ			02:10																												
ZZZZZZ			02:26																												
CCV 240-229803/61	1		02:43	X																											
CCB 240-229803/62	1		02:59	X																											
ZZZZZZ			03:16																												
ZZZZZZ			03:32																												
ZZZZZZ			03:48																												
ZZZZZZ			04:05																												
CCV 240-229803/67			04:21																												
CCB 240-229803/68			04:38																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1
 SDG No.: _____
 Instrument ID: SIMON Analysis Method: 300.0
 Start Date: 05/17/2016 09:21 End Date: 05/17/2016 16:11

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				S O 4																											
CCV 240-230602/1	1		09:21	X																											
CCB 240-230602/2	1		09:37	X																											
MB 240-230602/3	1	T	09:54	X																											
LCS 240-230602/4	1	T	10:10	X																											
ZZZZZZ			10:26																												
ZZZZZZ			10:43																												
ZZZZZZ			10:59																												
ZZZZZZ			11:16																												
ZZZZZZ			11:32																												
ZZZZZZ			11:48																												
ZZZZZZ			12:05																												
ZZZZZZ			12:21																												
CCV 240-230602/13	1		12:38	X																											
CCB 240-230602/14	1		12:54	X																											
ZZZZZZ			13:10																												
ZZZZZZ			13:27																												
ZZZZZZ			13:43																												
240-64533-J-5 MS	1	T	14:00	X																											
240-64533-J-5 MSD	1	T	14:16	X																											
ZZZZZZ			14:33																												
ZZZZZZ			14:49																												
ZZZZZZ			15:05																												
240-64548-2	1	T	15:22	X																											
ZZZZZZ			15:38																												
CCV 240-230602/25	1		15:55	X																											
CCB 240-230602/26	1		16:11	X																											

Prep Types: _____
 T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: VERONICA Analysis Method: 300.0

Start Date: 04/29/2016 21:12 End Date: 04/30/2016 00:34

Lab Sample Id	D/F	Type	Time	Analytes																											
				S	O	4																									
STD1 240-228222/1 IC	1		21:12	X																											
STD2 240-228222/2 IC	1		21:32	X																											
STD3 240-228222/3 IC	1		21:53	X																											
STD4 240-228222/4 IC	1		22:13	X																											
STD5 240-228222/5 ICRT	1		22:33	X																											
STD6 240-228222/6 IC	1		22:53	X																											
STD7 240-228222/7 IC	1		23:13	X																											
STD8 240-228222/8 IC	1		23:33	X																											
STD9 240-228222/9 IC	1		23:54	X																											
ICV 240-228222/10	1		00:14	X																											
ICB 240-228222/11			00:34																												

Prep Types: _____
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: VERONICA Analysis Method: 300.0

Start Date: 05/12/2016 13:01 End Date: 05/13/2016 13:32

Lab Sample Id	D/F	Type	Time	Analytes																											
				S	O	4																									
CCV 240-229916/1	1		13:01	X																											
CCB 240-229916/2	1		13:21	X																											
MB 240-229916/3	1	T	13:41	X																											
LCS 240-229916/4	1	T	14:01	X																											
ZZZZZZ			14:22																												
ZZZZZZ			14:42																												
ZZZZZZ			15:02																												
ZZZZZZ			15:22																												
ZZZZZZ			15:42																												
ZZZZZZ			16:02																												
ZZZZZZ			16:23																												
ZZZZZZ			16:43																												
CCV 240-229916/13	1		17:03	X																											
CCB 240-229916/14	1		17:23	X																											
ZZZZZZ			17:43																												
ZZZZZZ			18:03																												
ZZZZZZ			18:23																												
240-64178-F-6 MS	1	T	18:44	X																											
240-64178-F-6 MSD	1	T	19:04	X																											
ZZZZZZ			19:24																												
ZZZZZZ			19:44																												
240-64548-3	1	T	20:04	X																											
ZZZZZZ			20:24																												
ZZZZZZ			20:44																												
CCV 240-229916/25	1		21:05	X																											
CCB 240-229916/26	1		21:25	X																											
ZZZZZZ			21:45																												
ZZZZZZ			22:05																												
ZZZZZZ			22:25																												
ZZZZZZ			22:45																												
ZZZZZZ			23:06																												
ZZZZZZ			23:26																												
ZZZZZZ			23:46																												
ZZZZZZ			00:06																												
ZZZZZZ			00:26																												
ZZZZZZ			00:46																												
CCV 240-229916/37			01:06																												
CCB 240-229916/38			01:27																												
ZZZZZZ			01:47																												
ZZZZZZ			02:07																												
ZZZZZZ			02:27																												

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: VERONICA Analysis Method: 300.0

Start Date: 05/12/2016 13:01 End Date: 05/13/2016 13:32

Lab Sample Id	D/F	Type	Time	Analytes																			
				S	O	4																	
ZZZZZZ			02:47																				
ZZZZZZ			03:07																				
ZZZZZZ			03:28																				
ZZZZZZ			03:48																				
ZZZZZZ			04:08																				
ZZZZZZ			04:28																				
ZZZZZZ			04:48																				
CCV 240-229916/49			05:08																				
CCB 240-229916/50			05:28																				
ZZZZZZ			05:49																				
ZZZZZZ			06:09																				
ZZZZZZ			06:29																				
ZZZZZZ			06:49																				
ZZZZZZ			07:09																				
ZZZZZZ			07:29																				
ZZZZZZ			07:50																				
ZZZZZZ			08:10																				
ZZZZZZ			08:30																				
ZZZZZZ			08:50																				
CCV 240-229916/61			09:10																				
CCB 240-229916/62			09:30																				
ZZZZZZ			09:51																				
ZZZZZZ			10:11																				
ZZZZZZ			10:31																				
ZZZZZZ			10:51																				
ZZZZZZ			11:11																				
ZZZZZZ			11:31																				
ZZZZZZ			11:51																				
ZZZZZZ			12:12																				
ZZZZZZ			12:32																				
ZZZZZZ			12:52																				
CCV 240-229916/73			13:12																				
CCB 240-229916/74			13:32																				

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: Clark Analysis Method: 9060A

Start Date: 05/13/2016 07:53 End Date: 05/13/2016 12:37

Lab Sample Id	D/F	Type	Time	Analytes																			
				TOC	TOC1	TOC2	TOC3	TOC4															
ZZZZZZ			07:53																				
CCV 240-230269/2	1		08:11	X	X																		
CCB 240-230269/3	1		08:18	X	X																		
MB 240-230269/4	1	T	08:28	X	X																		
LLCS 240-230269/5	1	T	08:36	X	X																		
LCS 240-230269/6	1	T	08:42	X	X																		
ZZZZZZ			08:50																				
ZZZZZZ			09:16																				
240-64482-E-8 MS	2	T	09:40	X	X																		
240-64482-E-8 MSD	2	T	09:48	X	X																		
240-64548-2	4	T	09:56	X	X	X	X	X															
240-64548-3	1	T	10:21	X	X	X	X	X															
240-64615-2	1	T	10:49	X	X	X	X	X															
CCV 240-230269/14	1		11:13	X	X																		
CCB 240-230269/15	1		11:21	X	X																		
240-64615-3	1	T	11:30	X	X	X	X	X															
240-64615-4	4	T	11:54	X	X	X	X	X															
CCVL 240-230269/18	1		12:22	X	X																		
CCV 240-230269/19	1		12:29	X	X																		
CCB 240-230269/20	1		12:37	X	X																		

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: Clark Analysis Method: 9060A

Start Date: 05/21/2016 16:57 End Date: 05/22/2016 06:07

Lab Sample Id	D/F	Type	Time	Analytes															
				T O C	T O C	T O C	T O C	T O C											
ZZZZZZ			16:57																
CCV 240-231370/2	1		17:15	X	X														
CCB 240-231370/3	1		17:22	X	X														
MB 240-231370/4	1	T	17:32	X	X														
LLCS 240-231370/5	1	T	17:40	X	X														
LCS 240-231370/6	1	T	17:47	X	X														
ZZZZZZ			17:56																
ZZZZZZ			18:21																
ZZZZZZ			18:28																
ZZZZZZ			18:38																
ZZZZZZ			19:04																
ZZZZZZ			19:30																
ZZZZZZ			19:55																
CCVL 240-231370/14	1		20:20	X	X														
CCB 240-231370/15	1		20:28	X	X														
ZZZZZZ			20:36																
ZZZZZZ			21:01																
ZZZZZZ			21:27																
ZZZZZZ			21:52																
ZZZZZZ			22:18																
ZZZZZZ			22:44																
240-64565-G-7 MS	2	T	23:09	X	X														
240-64565-G-7 MSD	2	T	23:16	X	X														
ZZZZZZ			23:25																
ZZZZZZ			23:51																
CCV 240-231370/26	1		00:15	X	X														
CCB 240-231370/27	1		00:24	X	X														
ZZZZZZ			00:32																
ZZZZZZ			01:00																
ZZZZZZ			01:27																
ZZZZZZ			01:52																
240-64671-7	1	T	02:18	X	X	X	X	X											
CCVL 240-231370/33	1		02:43	X	X														
CCB 240-231370/34	1		02:53	X	X														
MB 240-231370/35	1	T	03:00	X	X														
LLCS 240-231370/36	1	T	03:08	X	X														
LCS 240-231370/37	1	T	03:16	X	X														
ZZZZZZ			03:25																
240-64565-G-14 MS	2	T	03:50	X	X														
240-64565-G-14 MSD	2	T	03:57	X	X														

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: Clark Analysis Method: 9060A

Start Date: 05/21/2016 16:57 End Date: 05/22/2016 06:07

Lab Sample Id	D/F	T y p e	Time	Analytes																			
				T O C	T O C 1	T O C 2	T O C 3	T O C 4															
240-64671-2	20	T	04:05	X	X	X	X	X															
240-64671-3	1	T	04:32	X	X	X	X	X															
240-64671-4	20	T	04:58	X	X	X	X	X															
240-64671-5	10	T	05:24	X	X	X	X	X															
CCVL 240-231370/45	1		05:51	X	X																		
CCV 240-231370/46	1		05:59	X	X																		
CCB 240-231370/47	1		06:07	X	X																		

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2540C

Start Date: 05/11/2016 10:11 End Date: 05/11/2016 10:11

Lab Sample Id	D/F	T y p e	Time	T D S	Analytes																			
MB 240-229808/1	1	T	10:11	X																				
LCS 240-229808/2	1	T	10:11	X																				
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
240-64602-E-4 DU	1	T	10:11	X																				
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
ZZZZZZ			10:11																					
240-64548-2	1	T	10:11	X																				
240-64615-2	1	T	10:11	X																				
240-64548-3	1	T	10:11	X																				
ZZZZZZ			10:11																					

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2540C

Start Date: 05/13/2016 09:46 End Date: 05/13/2016 09:46

Lab Sample Id	D/F	T y p e	Time	T D S	Analytes																			
MB 240-230211/1	1	T	09:46	X																				
LCS 240-230211/2	1	T	09:46	X																				
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
240-64692-I-4 DU	1	T	09:46	X																				
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					
240-64671-2	1	T	09:46	X																				
240-64671-5	1	T	09:46	X																				
ZZZZZZ			09:46																					
ZZZZZZ			09:46																					

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2540C

Start Date: 05/17/2016 10:32 End Date: 05/17/2016 11:47

Lab Sample Id	D/F	Type	Time	TDS	Analytes																			
MB 240-230645/1	1	T	10:32	X																				
LCS 240-230645/2	1	T	10:32	X																				
ZZZZZZ			10:32																					
ZZZZZZ			10:32																					
ZZZZZZ			10:32																					
ZZZZZZ			10:32																					
ZZZZZZ			10:32																					
ZZZZZZ			10:32																					
ZZZZZZ			10:32																					
ZZZZZZ			10:32																					
ZZZZZZ			10:32																					
ZZZZZZ			10:32																					
240-64795-R-1 DU	1	T	10:32	X																				
ZZZZZZ			10:32																					
ZZZZZZ			10:32																					
ZZZZZZ			10:32																					
ZZZZZZ			10:34																					
240-64671-7	1	T	10:40	X																				
ZZZZZZ			11:47																					

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ERNIE Analysis Method: SM 4500 P E

Start Date: 05/04/2016 16:00 End Date: 05/05/2016 06:44

Lab Sample Id	D/F	Type	Time	Analytes																			
				O	r	t	h	o	p	h	o	s	a	s	P								
IC 240-228885/1	1		16:00	X																			
IC 240-228885/2	1		16:00	X																			
IC 240-228885/3	1		16:00	X																			
IC 240-228885/4	1		16:00	X																			
IC 240-228885/5	1		16:00	X																			
IC 240-228885/6	1		16:00	X																			
IC 240-228885/7	1		16:00	X																			
IC 240-228885/8	1		16:00	X																			
IC 240-228885/9	1		16:00	X																			
IC 240-228885/10	1		16:00	X																			
ICV 240-228885/11	1		16:00	X																			
ICB 240-228885/12			16:00																				
ZZZZZZ			16:13																				
ZZZZZZ			16:13																				
ZZZZZZ			16:13																				
ZZZZZZ			16:13																				
ZZZZZZ			16:13																				
ZZZZZZ			16:13																				
CCV 240-228885/19			06:44																				
CCB 240-228885/20			06:44																				

Prep Types: _____
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ERNIE Analysis Method: SM 4500 P E

Start Date: 05/07/2016 14:30 End Date: 05/07/2016 14:43

Lab Sample Id	D/F	Type	Time	Analytes																															
				O	r	t	h	o	p	h	o	s	a	s	P																				
CCV 240-229291/1	1		14:30	X																															
CCB 240-229291/2	1		14:31	X																															
MB 240-229291/3	1	T	14:32	X																															
LCS 240-229291/4	5	T	14:34	X																															
240-64548-3	1	T	14:35	X																															
240-64548-3 MS	1	T	14:36	X																															
240-64548-3 MSD	1	T	14:37	X																															
240-64548-2	1	T	14:38	X																															
CCV 240-229291/9	1		14:40	X																															
CCB 240-229291/10	1		14:41	X																															
ZZZZZZ			14:42																																
ZZZZZZ			14:43																																

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Instrument ID: ERNIE Analysis Method: SM 4500 P E

Start Date: 05/10/2016 16:23 End Date: 05/10/2016 16:23

Lab Sample Id	D/F	Type	Time	Analytes																			
				O	r	t	h	o	p	h	o	s	a	s	P								
CCV 240-229708/1	1		16:23	X																			
CCB 240-229708/2	1		16:23	X																			
MB 240-229708/3	1	T	16:23	X																			
LCS 240-229708/4	1	T	16:23	X																			
240-64615-2	2	T	16:23	X																			
240-64615-2 MS	2	T	16:23	X																			
240-64615-2 MSD	2	T	16:23	X																			
CCV 240-229708/8	1		16:23	X																			
CCB 240-229708/9	1		16:23	X																			

Prep Types: _____
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 231124 Batch Start Date: 05/19/16 17:39 Batch Analyst: Weimer, Joshua W

Batch Method: 2320B-1997 Batch End Date: 05/19/16 21:56

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	Initial pH	BuretStart1	BuretStop1	TitrantVolume1	BuretStart2
MB 240-231124/2		2320B-1997		50 mL	5.79 SU	0 mL	0 mL	0 mL	0 mL
LCS 240-231124/3		2320B-1997		50 mL	8.88 SU	0 mL	0.90 mL	0.9 mL	0.90 mL
240-64616-E-10 DU		2320B-1997	T	50 mL	6.95 SU	0 mL	0 mL	0 mL	0 mL
240-64548-J-3	SWMW-1I-050616	2320B-1997	T	50 mL	6.50 SU	0 mL	0 mL	0 mL	0 mL
240-64548-J-2	MRC-MW-14B-050616	2320B-1997	T	50 mL	6.50 SU	0 mL	0 mL	0 mL	0 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStop2	TitrantVolume2	CalcMsg	carb	hydr	bCarb
MB 240-231124/2		2320B-1997		0.05 mL	0.05 mL	Case 1	0 mg/L	0 mg/L	1 mg/L
LCS 240-231124/3		2320B-1997		18.05 mL	17.15 mL	Case 2	36 mg/L	0 mg/L	325 mg/L
240-64616-E-10 DU		2320B-1997	T	10.70 mL	10.7 mL	Case 1	0 mg/L	0 mg/L	214 mg/L
240-64548-J-3	SWMW-1I-050616	2320B-1997	T	17.23 mL	17.23 mL	Case 1	0 mg/L	0 mg/L	344.6 mg/L
240-64548-J-2	MRC-MW-14B-050616	2320B-1997	T	45.28 mL	45.28 mL	Case 1	0 mg/L	0 mg/L	905.6 mg/L

Lab Sample ID	Client Sample ID	Method Chain	Basis	pAlk	tAlk	FinalAmount	WCPHENOMINER 00015		
MB 240-231124/2		2320B-1997		0 mg/L	1 mg/L	50 mL			
LCS 240-231124/3		2320B-1997		18 mg/L	361 mg/L	50 mL	50 mL		
240-64616-E-10 DU		2320B-1997	T	0 mg/L	214 mg/L	50 mL			
240-64548-J-3	SWMW-1I-050616	2320B-1997	T	0 mg/L	344.6 mg/L	50 mL			
240-64548-J-2	MRC-MW-14B-050616	2320B-1997	T	0 mg/L	905.6 mg/L	50 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.: 240-64548-1

SDG No.: _____

Batch Number: 231124 Batch Start Date: 05/19/16 17:39 Batch Analyst: Weimer, Joshua W

Batch Method: 2320B-1997 Batch End Date: 05/19/16 21:56

Batch Notes	
Batch Comment	5 Pt / Electronic Slope:101.5%/ Calibration Date: 05/19/16
pH Buffer 1 ID	2- 2483038
pH Buffer 2 ID	4- 2460444
pH Buffer 3 ID	7- 2362101
pH Buffer 4 ID	10- 2460446
pH Buffer 5 ID	12- 2460448
Sulfuric Acid Lot Number	2397656
Nominal Amount Used	50 mL
Probe ID	WCP 119
Normality of First Titrant	0.02 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.: 240-64548-1

SDG No.: _____

Batch Number: 231415 Batch Start Date: 05/20/16 17:05 Batch Analyst: Grossman, Lucas

Batch Method: 2320B-1997 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	FinalAmount	WCALKMSMSD 00016	WCPHENOMINER 00015		
LCS 240-231415/4		2320B-1997		InitialAmount is blank	50 mL		50 mL		
MB 240-231415/5		2320B-1997		InitialAmount is blank	50 mL				
240-64615-I-2	MRC-MW-12A-05091 6	2320B-1997	T	InitialAmount is blank	50 mL				
240-64615-I-2 DU	MRC-MW-12A-05091 6	2320B-1997	T	InitialAmount is blank	50 mL				
240-64671-I-2	G-SWMW-4I-051016	2320B-1997	T	InitialAmount is blank	50 mL				
240-64671-I-5	G-SWMW-2I-051016	2320B-1997	T	InitialAmount is blank	50 mL				
240-64671-F-7	G-OUTFALL-051016	2320B-1997	T	InitialAmount is blank	50 mL				
240-64682-AD-5 MS		2320B-1997	T	InitialAmount is blank	50 mL	1 mL			
LCS 240-231415/29		2320B-1997		InitialAmount is blank	50 mL		50 mL		
MB 240-231415/30		2320B-1997		InitialAmount is blank	50 mL				
240-64682-AD-5 MSD		2320B-1997	T	InitialAmount is blank	50 mL	1 mL			

Batch Notes	
pH Buffer 1 ID	4-2460444
pH Buffer 2 ID	7-2362101
pH Buffer 3 ID	10-2492816
pH Buffer 4 ID	12-2460449
Sulfuric Acid Lot Number	2397656
Nominal Amount Used	50 mL
Probe ID	114
Normality of First Titrant	0.02 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.: 240-64548-1

SDG No.: _____

Batch Number: 221498 Batch Start Date: 03/14/16 20:28 Batch Analyst: Grossman, Lucas

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCAL SOLN 00249	WCICLCS 00497			
STD1 240-221498/2 IC		300.0		5 mL	0.025 mL				
STD2 240-221498/3 IC		300.0		5 mL	0.125 mL				
STD3 240-221498/4 IC		300.0		5 mL	0.25 mL				
STD4 240-221498/5 IC		300.0		5 mL	0.5 mL				
STD5 240-221498/6 ICRT		300.0		5 mL	1.25 mL				
STD6 240-221498/7 IC		300.0		5 mL	2 mL				
STD7 240-221498/8 IC		300.0		5 mL	2.5 mL				
STD8 240-221498/9 IC		300.0		5 mL	3.75 mL				
STD9 240-221498/10 IC		300.0		5 mL	5 mL				
ICV 240-221498/12		300.0		5 mL		5 mL			

Batch Notes	

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 221499 Batch Start Date: 03/14/16 20:28 Batch Analyst: Grossman, Lucas

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCAL SOLN 00249	WCICLCS 00497			
STD1 240-221499/2 IC		300.0		5 mL	0.025 mL				
STD2 240-221499/3 IC		300.0		5 mL	0.125 mL				
STD3 240-221499/4 IC		300.0		5 mL	0.25 mL				
STD4 240-221499/5 IC		300.0		5 mL	0.5 mL				
STD5 240-221499/6 ICRT		300.0		5 mL	1.25 mL				
STD6 240-221499/7 IC		300.0		5 mL	2 mL				
STD7 240-221499/8 IC		300.0		5 mL	2.5 mL				
STD8 240-221499/9 IC		300.0		5 mL	3.75 mL				
STD9 240-221499/10 IC		300.0		5 mL	5 mL				
ICV 240-221499/12		300.0		5 mL		5 mL			

Batch Notes	

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 228222 Batch Start Date: 04/29/16 21:12 Batch Analyst: Grossman, Lucas

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCAL SOLN 00256	WCICLCS 00518			
STD1 240-228222/1 IC		300.0		5 mL	0.025 mL				
STD2 240-228222/2 IC		300.0		5 mL	0.125 mL				
STD3 240-228222/3 IC		300.0		5 mL	0.25 mL				
STD4 240-228222/4 IC		300.0		5 mL	0.5 mL				
STD5 240-228222/5 ICRT		300.0		5 mL	1.25 mL				
STD6 240-228222/6 IC		300.0		5 mL	2 mL				
STD7 240-228222/7 IC		300.0		5 mL	2.5 mL				
STD8 240-228222/8 IC		300.0		5 mL	3.75 mL				
STD9 240-228222/9 IC		300.0		5 mL	5 mL				
ICV 240-228222/10		300.0		5 mL		5 mL			

Batch Notes	

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 BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 229421 Batch Start Date: 05/07/16 14:23 Batch Analyst: Grossman, Lucas

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00676	WCICELUENT 00172	WCICLCS 00519	WCICSOLNA1 00014	WCICSOLNB1 00012
CCV 240-229421/1		300.0		5 mL	5 mL				
CCB 240-229421/2		300.0		5 mL		5 mL			
MB 240-229421/3		300.0		5 mL		5 mL			
LCS 240-229421/4		300.0		5 mL			5 mL		
240-64579-AD-3 MS	GW-3298-050616-B W-039	300.0	T	5 mL				0.1 mL	0.1 mL
240-64579-AD-3 MSD	GW-3298-050616-B W-039	300.0	T	5 mL					0.1 mL
240-64548-I-2	MRC-MW-14B-05061 6	300.0	T	5 mL					
CCV 240-229421/13		300.0		5 mL	5 mL				
CCB 240-229421/14		300.0		5 mL		5 mL			
240-64548-I-3	SWMW-1I-050616	300.0	T	5 mL					
CCV 240-229421/17		300.0		5 mL	5 mL				
CCB 240-229421/18		300.0		5 mL		5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 229422 Batch Start Date: 05/07/16 14:23 Batch Analyst: Grossman, Lucas

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00676	WCICELUENT 00172	WCICLCS 00519	WCICSOLNA1 00014	WCICSOLNB1 00012
CCV 240-229422/1		300.0		5 mL	5 mL				
CCB 240-229422/2		300.0		5 mL		5 mL			
MB 240-229422/3		300.0		5 mL		5 mL			
LCS 240-229422/4		300.0		5 mL			5 mL		
240-64579-AD-3 MS	GW-3298-050616-B W-039	300.0	T	5 mL				0.1 mL	0.1 mL
240-64579-AD-3 MSD	GW-3298-050616-B W-039	300.0	T	5 mL					0.1 mL
240-64548-I-2	MRC-MW-14B-05061 6	300.0	T	5 mL					
CCV 240-229422/13		300.0		5 mL	5 mL				
CCB 240-229422/14		300.0		5 mL		5 mL			
240-64548-I-2	MRC-MW-14B-05061 6	300.0	T	5 mL					
240-64548-I-3	SMMW-1I-050616	300.0	T	5 mL					
CCV 240-229422/17		300.0		5 mL	5 mL				
CCB 240-229422/18		300.0		5 mL		5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 229710 Batch Start Date: 05/10/16 14:56 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00676	WCICELUENT 00172	WCICLCS 00519	WCICSOLNA1 00014	WCICSOLNB1 00012
CCV 240-229710/1		300.0		5 mL	5 mL				
CCB 240-229710/2		300.0		5 mL		5 mL			
MB 240-229710/3		300.0		5 mL		5 mL			
LCS 240-229710/4		300.0		5 mL			5 mL		
240-64605-A-1 MS		300.0	T	5 mL				0.1 mL	0.1 mL
240-64605-A-1 MSD		300.0	T	5 mL				0.1 mL	0.1 mL
240-64615-I-2	MRC-MW-12A-05091 6	300.0	T	5 mL					
CCV 240-229710/13		300.0		5 mL	5 mL				
CCB 240-229710/14		300.0		5 mL		5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 229711 Batch Start Date: 05/10/16 14:56 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00676	WCICELUENT 00172	WCICLCS 00519	WCICSOLNA1 00014	WCICSOLNB1 00012
CCV 240-229711/1		300.0		5 mL	5 mL				
CCB 240-229711/2		300.0		5 mL		5 mL			
MB 240-229711/3		300.0		5 mL		5 mL			
LCS 240-229711/4		300.0		5 mL			5 mL		
240-64605-A-1 MS		300.0	T	5 mL				0.1 mL	0.1 mL
240-64605-A-1 MSD		300.0	T	5 mL				0.1 mL	0.1 mL
240-64615-I-2	MRC-MW-12A-05091 6	300.0	T	5 mL					
CCV 240-229711/13		300.0		5 mL	5 mL				
CCB 240-229711/14		300.0		5 mL		5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 229802 Batch Start Date: 05/11/16 10:12 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00676	WCICELUENT 00172	WCICLCS 00519	WCICSOLNA1 00014	WCICSOLNB1 00012
CCV 240-229802/25		300.0		5 mL	5 mL				
CCB 240-229802/26		300.0		5 mL		5 mL			
MB 240-229802/27		300.0		5 mL		5 mL			
LCS 240-229802/28		300.0		5 mL			5 mL		
CCV 240-229802/37		300.0		5 mL	5 mL				
CCB 240-229802/38		300.0		5 mL		5 mL			
240-64671-I-2	G-SWMW-4I-051016	300.0	T	5 mL					
240-64671-I-5	G-SWMW-2I-051016	300.0	T	5 mL					
240-64671-F-7	G-OUTFALL-1I-051016	300.0	T	5 mL					
240-64671-F-7 MS	G-OUTFALL-051016	300.0	T	5 mL				0.1 mL	0.1 mL
240-64671-F-7 MSD	G-OUTFALL-051016	300.0	T	5 mL				0.1 mL	0.1 mL
CCV 240-229802/49		300.0		5 mL	5 mL				
CCB 240-229802/50		300.0		5 mL		5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 229803 Batch Start Date: 05/11/16 10:12 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCICCCV 00676	WCICELUENT 00172	WCICLCS 00519	WCICSOLNA1 00014
CCV 240-229803/25		300.0		5 mL		5 mL			
CCB 240-229803/26		300.0		5 mL			5 mL		
MB 240-229803/27		300.0		5 mL			5 mL		
LCS 240-229803/28		300.0		5 mL				5 mL	
CCV 240-229803/37		300.0		5 mL		5 mL			
CCB 240-229803/38		300.0		5 mL			5 mL		
240-64671-I-2	G-SWMW-4I-051016	300.0	T	5 mL					
240-64671-I-5	G-SWMW-2I-051016	300.0	T	5 mL					
240-64671-F-7	G-OUTFALL-1I-051016	300.0	T	5 mL					
240-64671-F-7 MS	G-OUTFALL-051016	300.0	T	5 mL					0.1 mL
240-64671-F-7 MSD	G-OUTFALL-051016	300.0	T	5 mL					0.1 mL
CCV 240-229803/49		300.0		5 mL		5 mL			
CCB 240-229803/50		300.0		5 mL			5 mL		
MB 240-229803/51		300.0		5 mL			5 mL		
LCS 240-229803/52		300.0		5 mL				5 mL	
240-64671-F-7	G-OUTFALL-1I-051016	300.0	T	5 mL					
CCV 240-229803/61		300.0		5 mL		5 mL			
CCB 240-229803/62		300.0		5 mL	1.0 mL		5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCICSOLNB1 00012					
CCV 240-229803/25		300.0							
CCB 240-229803/26		300.0							

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 229803 Batch Start Date: 05/11/16 10:12 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCICSOLNB1 00012					
MB 240-229803/27		300.0							
LCS 240-229803/28		300.0							
CCV 240-229803/37		300.0							
CCB 240-229803/38		300.0							
240-64671-I-2	G-SWMW-4I-051016	300.0	T						
240-64671-I-5	G-SWMW-2I-051016	300.0	T						
240-64671-F-7	G-OUTFALL-1I-051016	300.0	T						
240-64671-F-7 MS	G-OUTFALL-051016	300.0	T	0.1 mL					
240-64671-F-7 MSD	G-OUTFALL-051016	300.0	T	0.1 mL					
CCV 240-229803/49		300.0							
CCB 240-229803/50		300.0							
MB 240-229803/51		300.0							
LCS 240-229803/52		300.0							
240-64671-F-7	G-OUTFALL-1I-051016	300.0	T						
CCV 240-229803/61		300.0							
CCB 240-229803/62		300.0							

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 229916 Batch Start Date: 05/12/16 13:01 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00677	WCICLCS 00520	WCICSOLNA1 00014	WCICSOLNB1 00012	
CCV 240-229916/1		300.0		5 mL	5 mL				
CCB 240-229916/2		300.0		5 mL					
MB 240-229916/3		300.0		5 mL					
LCS 240-229916/4		300.0		5 mL		5 mL			
CCV 240-229916/13		300.0		5 mL	5 mL				
CCB 240-229916/14		300.0		5 mL					
240-64178-F-6 MS		300.0	T	5 mL			0.1 mL	0.1 mL	
240-64178-F-6 MSD		300.0	T	5 mL			0.1 mL	0.1 mL	
240-64548-J-3	SWMW-1I-050616	300.0	T	5 mL					
CCV 240-229916/25		300.0		5 mL	5 mL				
CCB 240-229916/26		300.0		5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 230602 Batch Start Date: 05/17/16 09:21 Batch Analyst: Grossman, Lucas

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00678	WCICELUENT 00174	WCICLCS 00523	WCICSOLNA1 00014	WCICSOLNB1 00012
CCV 240-230602/1		300.0		5 mL	5 mL				
CCB 240-230602/2		300.0		5 mL		5 mL			
MB 240-230602/3		300.0		5 mL		5 mL			
LCS 240-230602/4		300.0		5 mL			5 mL		
CCV 240-230602/13		300.0		5 mL	5 mL				
CCB 240-230602/14		300.0		5 mL		5 mL			
240-64533-J-5 MS	MW-BS-050416	300.0	T	5 mL				0.1 mL	0.1 mL
240-64533-J-5 MSD	MW-BS-050416	300.0	T	5 mL				0.1 mL	0.1 mL
240-64548-J-2	MRC-MW-14B-050616	300.0	T	5 mL					
CCV 240-230602/25		300.0		5 mL	5 mL				
CCB 240-230602/26		300.0		5 mL		5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 230269 Batch Start Date: 05/13/16 07:53 Batch Analyst: Grossman, Lucas

Batch Method: 9060A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC LCS 00045	WC TOC CCV 00299	WC TOC CCVL 00093	
CCV 240-230269/2		9060A		40 mL	40 mL		40 mL		
CCB 240-230269/3		9060A		40 mL	40 mL				
MB 240-230269/4		9060A		40 mL	40 mL				
LLCS 240-230269/5		9060A		40 mL	40 mL	20 mL			
LCS 240-230269/6		9060A		40 mL	40 mL	40 mL			
240-64482-E-8 MS		9060A	T	40 mL	40 mL		20 mL		
240-64482-E-8 MSD		9060A	T	40 mL	40 mL		20 mL		
240-64548-H-2 ^4	MRC-MW-14B-050616	9060A	T	40 mL	40 mL				
240-64548-H-3	SWMW-1I-050616	9060A	T	40 mL	40 mL				
240-64615-G-2	MRC-MW-12A-050916	9060A	T	40 mL	40 mL				
CCV 240-230269/14		9060A		40 mL	40 mL		40 mL		
CCB 240-230269/15		9060A		40 mL	40 mL				
240-64615-E-3	MRC-MW-12B-050916	9060A	T	40 mL	40 mL				
240-64615-G-4 ^4	G-SWMW-3I-050916	9060A	T	40 mL	40 mL				
CCVL 240-230269/18		9060A		40 mL	40 mL			40 mL	
CCV 240-230269/19		9060A		40 mL	40 mL		40 mL		
CCB 240-230269/20		9060A		40 mL	40 mL				

Batch Notes	
Phosphoric Acid ID	2527356
Sodium Persulfate ID	2502740

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.: 240-64548-1

SDG No.: _____

Batch Number: 230269 Batch Start Date: 05/13/16 07:53 Batch Analyst: Grossman, Lucas

Batch Method: 9060A 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 231370 Batch Start Date: 05/21/16 16:57 Batch Analyst: Harshman, Tom

Batch Method: 9060A Batch End Date: 05/22/16 06:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC LCS 00045	WC LCS 00046	WC TOC CCV 00302	WC TOC CCVL 00095
CCV 240-231370/2		9060A		40 mL	40 mL			40 mL	
CCB 240-231370/3		9060A		40 mL	40 mL				
MB 240-231370/4		9060A		40 mL	40 mL				
LLCS 240-231370/5		9060A		40 mL	40 mL		20 mL		
LCS 240-231370/6		9060A		40 mL	40 mL	40 mL			
CCVL 240-231370/14		9060A		40 mL	40 mL				40 mL
CCB 240-231370/15		9060A		40 mL	40 mL				
240-64565-G-7 MS		9060A	T	40 mL	40 mL			20 mL	
240-64565-G-7 MSD		9060A	T	40 mL	40 mL			20 mL	
CCV 240-231370/26		9060A		40 mL	40 mL			40 mL	
CCB 240-231370/27		9060A		40 mL	40 mL				
240-64671-D-7	G-OUTFALL-051016	9060A	T	40 mL	40 mL				
CCVL 240-231370/33		9060A		40 mL	40 mL				40 mL
CCB 240-231370/34		9060A		40 mL	40 mL				
MB 240-231370/35		9060A		40 mL	40 mL				
LLCS 240-231370/36		9060A		40 mL	40 mL		20 mL		
LCS 240-231370/37		9060A		40 mL	40 mL	40 mL			
240-64565-G-14 MS		9060A	T	40 mL	40 mL			20 mL	
240-64565-G-14 MSD		9060A	T	40 mL	40 mL			20 mL	
240-64671-H-2 ^20	G-SWMW-4I-051016	9060A	T	40 mL	40 mL				
240-64671-E-3	G-SWMW-4S-051016	9060A	T	40 mL	40 mL				
240-64671-E-4 ^20	G-SWMW-5I-051016	9060A	T	40 mL	40 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.: 240-64548-1

SDG No.: _____

Batch Number: 231370 Batch Start Date: 05/21/16 16:57 Batch Analyst: Harshman, Tom

Batch Method: 9060A Batch End Date: 05/22/16 06:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC LCS 00045	WC LCS 00046	WC TOC CCV 00302	WC TOC CCVL 00095
240-64671-H-5 ^10	G-SWMW-2I-051016	9060A	T	40 mL	40 mL				
CCVL 240-231370/45		9060A		40 mL	40 mL				40 mL
CCV 240-231370/46		9060A		40 mL	40 mL			40 mL	
CCB 240-231370/47		9060A		40 mL	40 mL				

Batch Notes	
Phosphoric Acid ID	2544220
Pipette ID	C1
Sodium Persulfate ID	2539772

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.: 240-64548-1

SDG No.: _____

Batch Number: 229808 Batch Start Date: 05/11/16 10:11 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	WeightOne%Diff
MB 240-229808/1		SM 2540C			100 mL	87.0246 g	87.0237 g	87.0238 g	Pass
LCS 240-229808/2		SM 2540C			100 mL	87.0963 g	87.1492 g	87.1496 g	Pass
240-64602-E-4 DU		SM 2540C	T	950 umhos/cm	100 mL	86.6237 g	86.6723 g	86.6727 g	Pass
240-64548-I-2	MRC-MW-14B-050616	SM 2540C	T	1650 umhos/cm	50 mL	77.7020 g	77.7804 g	77.7800 g	Pass
240-64615-I-2	MRC-MW-12A-050916	SM 2540C	T	550 umhos/cm	100 mL	86.7052 g	86.7413 g	86.7417 g	Pass
240-64548-I-3	SWMW-1I-050616	SM 2540C	T	750 umhos/cm	100 mL	91.1708 g	91.2219 g	91.2223 g	Pass

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3	FinalAmount
MB 240-229808/1		SM 2540C		N/A	N/A	-0.0009 g	-0.0008 g	N/A g	100 mL
LCS 240-229808/2		SM 2540C		N/A	N/A	0.0529 g	0.0533 g	N/A g	100 mL
240-64602-E-4 DU		SM 2540C	T	N/A	N/A	0.0486 g	0.049 g	N/A g	100 mL
240-64548-I-2	MRC-MW-14B-050616	SM 2540C	T	N/A	N/A	0.0784 g	0.078 g	N/A g	100 mL
240-64615-I-2	MRC-MW-12A-050916	SM 2540C	T	N/A	N/A	0.0361 g	0.0365 g	N/A g	100 mL
240-64548-I-3	SWMW-1I-050616	SM 2540C	T	N/A	N/A	0.0511 g	0.0515 g	N/A g	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue4	CalcMsg	WCPHENOVOLID 00015			
MB 240-229808/1		SM 2540C		N/A g	OK				
LCS 240-229808/2		SM 2540C		N/A g	OK	100 mL			
240-64602-E-4 DU		SM 2540C	T	N/A g	OK				
240-64548-I-2	MRC-MW-14B-050616	SM 2540C	T	N/A g	OK				
240-64615-I-2	MRC-MW-12A-050916	SM 2540C	T	N/A g	OK				
240-64548-I-3	SWMW-1I-050616	SM 2540C	T	N/A g	OK				

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.: 240-64548-1

SDG No.: _____

Batch Number: 229808 Batch Start Date: 05/11/16 10:11 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Batch Notes	
Balance ID	B044
Conductivity Meter ID	Myron
Constant Weight (WT2) Date/Time In	05/12/16 11:15
Constant Weight (WT2) Date/Time Out	05/12/16 12:41
Uncorrected CW (Wt2) Temp In	180 Celsius
Uncorrected CW (Wt2) Temp Out	180 Celsius
Date/Time Samples placed in Oven	05/11/16 13:00
Date/Time Samples Removed from Oven	05/12/16 9:05
Filter Paper ID	2529417
Nominal Amount Used	100 mL
Oven ID	006
Thermometer ID	24250
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	103 Celsius
Weight (WT1) Start Date/Time	05/12/16 9:05
Weight (WT1) Date/Time Out	05/12/16 10:05
Uncorrected Weight (WT1) Start Temp	180 Celsius
Uncorrected Weight (WT1) Temp Out	180 Celsius

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.: 240-64548-1

SDG No.: _____

Batch Number: 230211 Batch Start Date: 05/13/16 09:46 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	WeightOne%Diff
MB 240-230211/1		SM 2540C			100 mL	74.9860 g	74.9856 g	74.9860 g	Pass
LCS 240-230211/2		SM 2540C			100 mL	87.0628 g	87.1171 g	87.1173 g	Pass
240-64692-I-4 DU		SM 2540C	T	600 umhos/cm	100 mL	76.5597 g	76.6024 g	76.6028 g	Pass
240-64671-I-2	G-SWMW-4I-051016	SM 2540C	T	1700 umhos/cm	50 mL	76.8008 g	76.8995 g	76.9000 g	Pass
240-64671-I-5	G-SWMW-2I-051016	SM 2540C	T	1300 umhos/cm	100 mL	76.8647 g	76.9809 g	76.9807 g	Pass

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3	FinalAmount
MB 240-230211/1		SM 2540C		N/A	N/A	-0.0004 g	0 g	N/A g	100 mL
LCS 240-230211/2		SM 2540C		N/A	N/A	0.0543 g	0.0545 g	N/A g	100 mL
240-64692-I-4 DU		SM 2540C	T	N/A	N/A	0.0427 g	0.0431 g	N/A g	100 mL
240-64671-I-2	G-SWMW-4I-051016	SM 2540C	T	N/A	N/A	0.0987 g	0.0992 g	N/A g	100 mL
240-64671-I-5	G-SWMW-2I-051016	SM 2540C	T	N/A	N/A	0.1162 g	0.116 g	N/A g	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue4	CalcMsg	WCPHENOVSOLID 00015			
MB 240-230211/1		SM 2540C		N/A g	OK				
LCS 240-230211/2		SM 2540C		N/A g	OK	100 mL			
240-64692-I-4 DU		SM 2540C	T	N/A g	OK				
240-64671-I-2	G-SWMW-4I-051016	SM 2540C	T	N/A g	OK				
240-64671-I-5	G-SWMW-2I-051016	SM 2540C	T	N/A g	OK				

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.: 240-64548-1

SDG No.: _____

Batch Number: 230211 Batch Start Date: 05/13/16 09:46 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Batch Notes	
Balance ID	B044
Conductivity Meter ID	Myron
Constant Weight (WT2) Date/Time In	05/16/16 14:00
Constant Weight (WT2) Date/Time Out	05/16/16 16:00
Uncorrected CW (Wt2) Temp In	180 Celsius
Uncorrected CW (Wt2) Temp Out	180 Celsius
Date/Time Samples placed in Oven	05/13/16 11:30
Date/Time Samples Removed from Oven	05/16/16 9:45
Filter Paper ID	2529417
Nominal Amount Used	100 mL
Oven ID	006
Thermometer ID	24250
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	103 Celsius
Weight (WT1) Start Date/Time	05/16/16 9:45
Weight (WT1) Date/Time Out	05/16/16 10:45
Uncorrected Weight (WT1) Start Temp	180 Celsius
Uncorrected Weight (WT1) Temp Out	180 Celsius

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.: 240-64548-1

SDG No.: _____

Batch Number: 230645 Batch Start Date: 05/17/16 10:32 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	WeightOne%Diff
MB 240-230645/1		SM 2540C			100 mL	87.0937 g	87.0934 g	87.0935 g	Pass
LCS 240-230645/2		SM 2540C			100 mL	90.2429 g	90.2980 g	90.2979 g	Pass
240-64795-R-1 DU		SM 2540C	T	400 umhos/cm	100 mL	88.0627 g	88.0853 g	88.0858 g	Pass
240-64671-F-7	G-OUTFALL-051016	SM 2540C	T	950 umhos/cm	100 mL	75.5119 g	75.5696 g	75.5697 g	Pass

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3	FinalAmount
MB 240-230645/1		SM 2540C		N/A	N/A	-0.0003 g	-0.0002 g	N/A g	100 mL
LCS 240-230645/2		SM 2540C		N/A	N/A	0.0551 g	0.055 g	N/A g	100 mL
240-64795-R-1 DU		SM 2540C	T	N/A	N/A	0.0226 g	0.0231 g	N/A g	100 mL
240-64671-F-7	G-OUTFALL-051016	SM 2540C	T	N/A	N/A	0.0577 g	0.0578 g	N/A g	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue4	CalcMsg	WCPHENOVOLID 00015			
MB 240-230645/1		SM 2540C		N/A g	OK				
LCS 240-230645/2		SM 2540C		N/A g	OK	100 mL			
240-64795-R-1 DU		SM 2540C	T	N/A g	OK				
240-64671-F-7	G-OUTFALL-051016	SM 2540C	T	N/A g	OK				

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.: 240-64548-1

SDG No.: _____

Batch Number: 230645 Batch Start Date: 05/17/16 10:32 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Batch Notes	
Balance ID	B044
Conductivity Meter ID	Myron
Constant Weight (WT2) Date/Time In	05/18/16 13:00
Constant Weight (WT2) Date/Time Out	05/18/16 16:30
Uncorrected CW (Wt2) Temp In	180 Celsius
Uncorrected CW (Wt2) Temp Out	180 Celsius
Date/Time Samples placed in Oven	05/17/16 13:00
Date/Time Samples Removed from Oven	05/18/16 9:32
Filter Paper ID	2529417
Nominal Amount Used	100 mL
Oven ID	006
Thermometer ID	24250
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	103 Celsius
Weight (WT1) Start Date/Time	05/18/16 9:32
Weight (WT1) Date/Time Out	05/18/16 10:47
Uncorrected Weight (WT1) Start Temp	180 Celsius
Uncorrected Weight (WT1) Temp Out	180 Celsius

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.: 240-64548-1

SDG No.: _____

Batch Number: 228885 Batch Start Date: 05/04/16 16:00 Batch Analyst: Grossman, Lucas

Batch Method: SM 4500 P E Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCPHOS 1ppm 00012	WCWIBBYNUTRIE 00053		
IC 240-228885/1		SM 4500 P E		10 mL	10 mL				
IC 240-228885/2		SM 4500 P E		10 mL	10 mL	0.1 mL			
IC 240-228885/3		SM 4500 P E		10 mL	10 mL	0.2 mL			
IC 240-228885/4		SM 4500 P E		10 mL	10 mL	0.6 mL			
IC 240-228885/5		SM 4500 P E		10 mL	10 mL	1 mL			
IC 240-228885/6		SM 4500 P E		10 mL	10 mL	2 mL			
IC 240-228885/7		SM 4500 P E		10 mL	10 mL	4 mL			
IC 240-228885/8		SM 4500 P E		10 mL	10 mL	6 mL			
IC 240-228885/9		SM 4500 P E		10 mL	10 mL	8 mL			
IC 240-228885/10		SM 4500 P E		10 mL	10 mL	10 mL			
ICV 240-228885/11		SM 4500 P E		10 mL	10 mL		5 mL		

Batch Notes	
Batch Comment	Color: A6047

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 BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-64548-1

SDG No.: _____

Batch Number: 229291 Batch Start Date: 05/07/16 14:30 Batch Analyst: Woodward, Bruce

Batch Method: SM 4500 P E Batch End Date: 05/07/16 14:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCPhos 1ppm 00012	WCPHOS50PPM 00077	WCWIBBYNUTRIE 00053	
CCV 240-229291/1		SM 4500 P E		10 mL	10 mL	5 mL			
CCB 240-229291/2		SM 4500 P E		10 mL	10 mL				
MB 240-229291/3		SM 4500 P E		10 mL	10 mL				
LCS 240-229291/4		SM 4500 P E		10 mL	10 mL			2 mL	
240-64548-I-3	SWMW-1I-050616	SM 4500 P E	T	10 mL	10 mL				
240-64548-I-3 MS	SWMW-1I-050616	SM 4500 P E	T	10 mL	10 mL		0.1 mL		
240-64548-I-3 MSD	SWMW-1I-050616	SM 4500 P E	T	10 mL	10 mL		0.1 mL		
240-64548-I-2	MRC-MW-14B-050616	SM 4500 P E	T	10 mL	10 mL				
CCV 240-229291/9		SM 4500 P E		10 mL	10 mL	5 mL			
CCB 240-229291/10		SM 4500 P E		10 mL	10 mL				

Batch Notes	
Pipette ID	B5, E4

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.: 240-64548-1

SDG No.: _____

Batch Number: 229708 Batch Start Date: 05/10/16 16:15 Batch Analyst: Weimer, Joshua W

Batch Method: SM 4500 P E Batch End Date: 05/10/16 16:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	ColorBlk	WCPHos 1ppm 00012	WCPHOS50PPM 00077
CCV 240-229708/1		SM 4500 P E		10 mL	10 mL			5 mL	
CCB 240-229708/2		SM 4500 P E		10 mL	10 mL				
MB 240-229708/3		SM 4500 P E		10 mL	10 mL				
LCS 240-229708/4		SM 4500 P E		10 mL	10 mL				
240-64615-I-2	MRC-MW-12A-05091 6	SM 4500 P E	T	10 mL	10 mL	0.077	0.057		
240-64615-I-2 MS	MRC-MW-12A-05091 6	SM 4500 P E	T	10 mL	10 mL	0.550	0.057		0.1 mL
240-64615-I-2 MSD	MRC-MW-12A-05091 6	SM 4500 P E	T	10 mL	10 mL	0.536	0.057		0.1 mL
CCV 240-229708/8		SM 4500 P E		10 mL	10 mL			5 mL	
CCB 240-229708/9		SM 4500 P E		10 mL	10 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCWIBBYNUTRIE 00053					
CCV 240-229708/1		SM 4500 P E							
CCB 240-229708/2		SM 4500 P E							
MB 240-229708/3		SM 4500 P E							
LCS 240-229708/4		SM 4500 P E		5 mL					
240-64615-I-2	MRC-MW-12A-05091 6	SM 4500 P E	T						
240-64615-I-2 MS	MRC-MW-12A-05091 6	SM 4500 P E	T						
240-64615-I-2 MSD	MRC-MW-12A-05091 6	SM 4500 P E	T						
CCV 240-229708/8		SM 4500 P E							
CCB 240-229708/9		SM 4500 P E							

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.: 240-64548-1

SDG No.: _____

Batch Number: 229708 Batch Start Date: 05/10/16 16:15 Batch Analyst: Weimer, Joshua W

Batch Method: SM 4500 P E Batch End Date: 05/10/16 16:38

Batch Notes	
Pipette ID	B6/F2

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.: 240-64548-1

SDG No.: _____

Batch Number: 229913 Batch Start Date: 05/11/16 14:51 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 4500 P E Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	ColorBlk	WCPHos 1ppm 00012	WCPHOS50PPM 00077
CCV 240-229913/1		SM 4500 P E		10 mL	10 mL			5 mL	
CCB 240-229913/2		SM 4500 P E		10 mL	10 mL				
MB 240-229913/3		SM 4500 P E		10 mL	10 mL				
LCS 240-229913/4		SM 4500 P E		10 mL	10 mL				
240-64680-D-1 MS		SM 4500 P E	T	10 mL	10 mL				0.1 mL
240-64680-D-1 MSD		SM 4500 P E	T	10 mL	10 mL				0.1 mL
240-64671-F-7	G-OUTFALL-051016	SM 4500 P E	T	10 mL	10 mL				
240-64671-I-2	G-SWMW-4I-051016	SM 4500 P E	T	10 mL	10 mL				
240-64671-I-5	G-SWMW-2I-051016	SM 4500 P E	T	10 mL	10 mL	0.99	0.49		
CCV 240-229913/11		SM 4500 P E		10 mL	10 mL	0.76	0.47	5 mL	
CCB 240-229913/12		SM 4500 P E		10 mL	10 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCWIBBYNUTRIE 00053					
CCV 240-229913/1		SM 4500 P E							
CCB 240-229913/2		SM 4500 P E							
MB 240-229913/3		SM 4500 P E							
LCS 240-229913/4		SM 4500 P E		5 mL					
240-64680-D-1 MS		SM 4500 P E	T						
240-64680-D-1 MSD		SM 4500 P E	T						
240-64671-F-7	G-OUTFALL-051016	SM 4500 P E	T						
240-64671-I-2	G-SWMW-4I-051016	SM 4500 P E	T						
240-64671-I-5	G-SWMW-2I-051016	SM 4500 P E	T						
CCV 240-229913/11		SM 4500 P E							

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.: 240-64548-1

SDG No.: _____

Batch Number: 229913 Batch Start Date: 05/11/16 14:51 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 4500 P E Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCWIBBYNUTRIE 00053					
CCB 240-229913/12		SM 4500 P E							

Batch Notes	
Pipette ID	B6/F2

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.

Subcontract Data

How to Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database and Client Portal

The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 32,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide. Driven by field samples, the database reflects the impacts of common contaminants, geochemical conditions, and site management practices on critical microbial populations.

With your report, you received a passcode enabling you to retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge. When accessing the database, you will be asked to provide background information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations. As with all client information provided to MI, site specific data will be treated as confidential.

Is that low, medium or high?

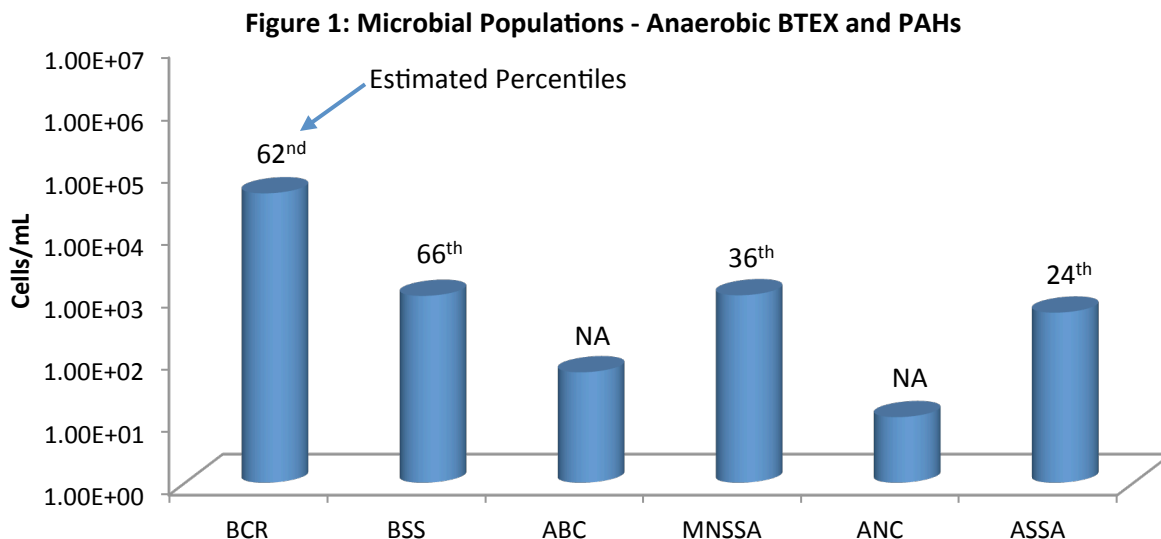
In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. Simply put, qPCR and QuantArray results demonstrating high concentrations of target microorganisms or functional genes suggest in situ selection, enrichment and growth of those specific contaminant degraders and therefore a greater probability that monitored natural attenuation (MNA) or bioremediation will be successful.

Is that a low, medium, or high concentration? The estimated percentile ranks retrieved from the MI Database answer that question by comparing your qPCR and QuantArray results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Using the Estimated Percentile - Interpretation Examples

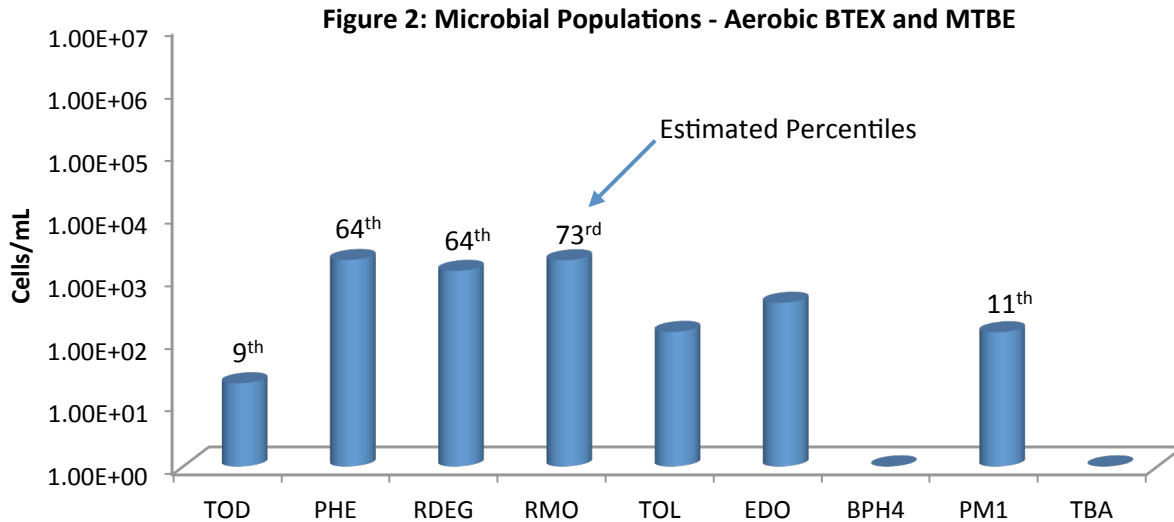
MNA Assessment – Petroleum Hydrocarbon Site:

Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between samples obtained from background and impacted wells. The estimated percentile ranks however provide an additional avenue for comparison and evaluation of treatment options as shown below.



Anaerobic BTEX and PAH Biodegradation (Figure 1):

- With moderate concentrations of functional genes involved in anaerobic BTEX metabolism detected, the QuantArray-Petro® results were encouraging in terms of evaluating biodegradation potential under existing site conditions.
- More specifically, benzylsuccinate synthase (BSS) was detected on the order of nearly 10^3 cells/mL indicating the presence of a substantial population (66th percentile) capable of anaerobic biodegradation of toluene and other alkyl substituted benzenes.
- Naphthyl-2-methylsuccinate synthase (MNSSA) and alkylsuccinate synthase (ASSA) genes were also detected indicating the potential for anaerobic biodegradation of 2-methylnaphthalene and normal alkanes.
- The concentration of MNSSA genes would be considered modest with an estimated percentile of 36th.
- While the percentile rank for MNSSA would be “below average”, a number of additional factors should be considered.
 - First, anaerobic hydrocarbon degraders are less prevalent than aerobic BTEX degraders and overall detection frequencies for many genes involved in anaerobic hydrocarbon biodegradation are less than 50%.
 - Therefore, the detection of genes like BSS, MNSSA, ASSA, anaerobic benzene carboxylase (ABC), and anaerobic naphthalene carboxylase (ANC) even at low concentrations is certainly noteworthy and inherently “better than average”.
 - The estimated percentiles for all assays are based only on samples where the concentration of the target gene was greater than the practical quantitation limit (PQL).
 - For less commonly detected targets like many of the genes involved in anaerobic hydrocarbon biodegradation this is an especially important consideration.
 - Excluding samples where a gene target is below the PQL ensured that the median concentrations of less commonly detected targets would not be unduly biased low by the fact that the gene is not detected in most samples.
- Anaerobic benzene carboxylase (ABC) and naphthalene carboxylase (ANC) genes were also detected indicating the presence of bacterial populations capable of anaerobic biodegradation of benzene and naphthalene.
- For newly identified genes like ABC and ANC, estimated percentile ranks are not yet available due to the limited number of field samples that have been analyzed to date.
- However, like MNSSA and other genes involved in anaerobic hydrocarbon biodegradation, ABC and ANC detection frequencies are relatively low so the detection of these genes even at low concentrations should be considered when evaluating biodegradation potential under existing site conditions.

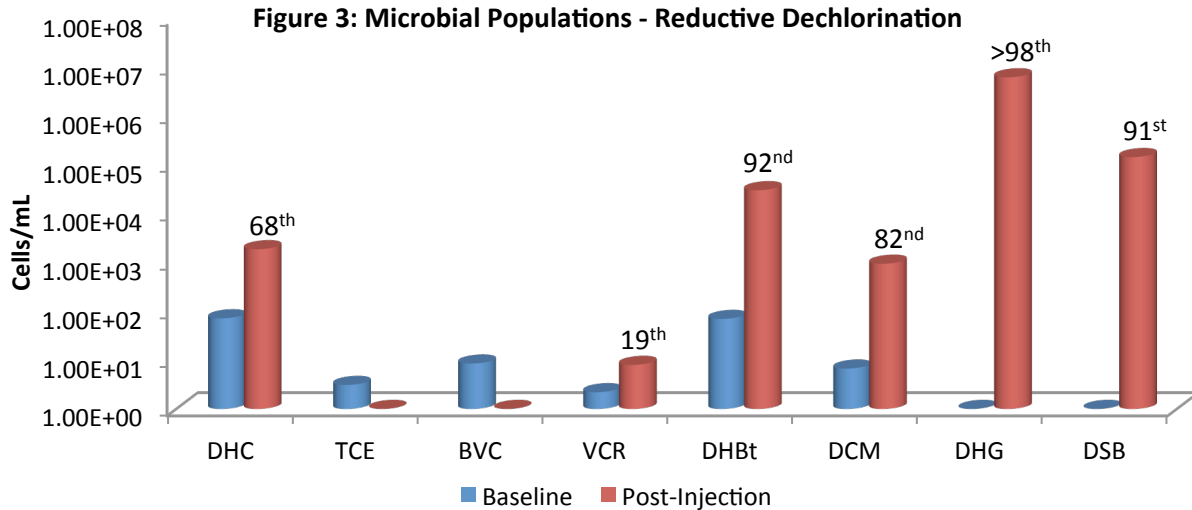


Aerobic BTEX and MTBE Biodegradation (Figure 2):

- With growing evidence that aromatic oxygenases function at low dissolved oxygen concentrations, aerobic BTEX biodegradation pathways should also be evaluated when considering MNA.
- Again, the QuantArray-Petro results were encouraging – genes encoding the first step in multiple pathways for aerobic BTEX biodegradation were detected indicating the presence of a diverse population of aerobic BTEX degraders.
- However, aerobic BTEX degraders are often considered ubiquitous. Therefore answering the question “Is that low, medium or high?” becomes especially important when evaluating aerobic BTEX biodegradation at petroleum hydrocarbon sites.
- In this case, the estimated percentile ranks of the concentrations of toluene/benzene monooxygenase (RMO and RDEG) and phenol hydroxylase (PHE) genes ranged from the 64th to 73rd percentile.
- In other words, the concentrations of RMO, RDEG, and PHE detected in this groundwater sample were greater than the concentrations detected in 64% to 73% of all other groundwater samples where these genes were analyzed and detected above the PQL.
- Aerobic BTEX degraders are common in the environment, but in this sample concentrations of toluene/benzene monooxygenase genes could be viewed as “better than average” when compared to the MI Database.

Biostimulation – Chlorinated Solvent Site:

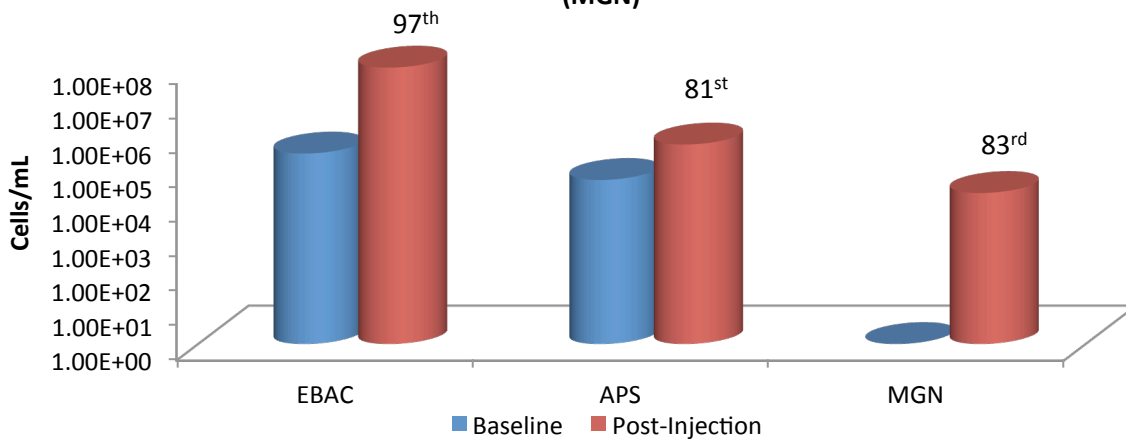
Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between baseline and post-injection monitoring events as shown below (Figure 3). The estimated percentile ranks however provide an additional avenue for comparison and evaluation of remedy performance.



- During the baseline groundwater sampling event, *Dehalococcoides* and vinyl chloride reductase genes were detected indicating the potential for complete reductive dechlorination of PCE and TCE to ethene.
- However, the *Dehalococcoides* concentration was well below the 10^4 cells/mL recommended by Lu et al. (2006) for generally effective rates of reductive dechlorination.
- Based on qPCR results as well as traditional groundwater monitoring, biostimulation with electron donor addition was selected as the site management plan.
- By the first monitoring event after injection, populations of halorespiring bacteria had increased substantially in response to electron donor addition.
 - *Dehalobacter* populations increased by more than two orders of magnitude to post-injection concentrations greater than 10^4 cells/mL (92nd percentile).
 - *Dehalogenimonas* (10^6 cells/mL) and *Desulfitobacterium* (10^5 cells/mL) which had not been detected prior electron donor addition were present at concentrations greater than observed in over 90% of other groundwater samples where these halorespiring bacteria were detected.
- After injection, *Dehalococcoides* populations increased by more than an order of magnitude to a concentration of over 10^3 cells/mL (68th percentile) demonstrating growth of this key group of halorespiring bacteria.
- Despite a substantial increase and a “better than average” concentration, the *Dehalococcoides* population was still below the 10^4 cells/mL threshold and vinyl chloride reductase gene copies were low (19th percentile).
 - In terms of electron donors and acceptors, the metabolic capabilities of *Dehalococcoides* are rather specialized (hydrogen utilizing obligate halorespiring bacteria) so the median concentration is low. With a low median concentration across the database, a “better than average” *Dehalococcoides* concentration in a given sample may not exceed the 10^4 cells/mL threshold established for effective reductive dechlorination (Lu et al. 2006) and ethene production (Microbial Insights, unpublished data).

- In this case, the initial growth of *Dehalococcoides* was substantial but may have been somewhat hindered by competition with sulfate reducing bacteria (Figure 4 below).
 - The baseline population of sulfate reducing bacteria was moderate (10^4 cells/mL; 63rd percentile). Consistent with an observed decreased in dissolved sulfate concentrations, populations of sulfate reducing bacteria increased and were detected at a relatively high concentration (81st percentile) after electron donor addition.
 - After injection, methanogen populations also increased to a relatively high concentration (83rd percentile) suggesting generation of methanogenic conditions.
- With sulfate depletion and generation of highly anaerobic conditions more conducive to reductive dechlorination, *Dehalococcoides* populations may continue to increase and exceed the 10^4 *Dehalococcoides* cells/mL threshold in subsequent monitoring events.
- Overall, QuantArray analysis conclusively demonstrated that electron donor addition stimulated growth of halorespiring bacteria with the estimated percentiles retrieved from the MI Database providing the “low, medium or high” perspective to the observed changes in microbial populations.

Figure 4: Total Bacteria (EBAC), Sulfate Reducing Bacteria (APS) and Methanogens (MGN)



References

Lu, X., J.T. Wilson, and D.H. Kampbell. 2006. Relationship between *Dehalococcoides* DNA in ground water and rates of reductive dechlorination at field scale. *Water Research* 40 no. 16: 3131-3140.



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Client: John McFadden
Test America
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North Canton, OH 44720

Phone:

Fax:

Identifier: 029NE

Date Rec: 05/11/2016

Report Date: 05/17/2016

Client Project #: 24015639

Client Project Name: MRC 2016 GW

Purchase Order #: TA Job #240-64615-1

Analysis Requested: CENSUS

Reviewed By:

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

Client: Test America
Project: MRC 2016 GW

MI Project Number: 029NE
Date Received: 05/11/2016

Sample Information

Client Sample ID: MRC-MW-12A-0
 50916
 (240-64615-2)
Sample Date: 05/09/2016
Units: cells/mL
Analyst: JS

Dechlorinating Bacteria

<i>Dehalococcoides</i>	DHC	1.85E+03
tceA Reductase	TCE	5.80E+00
BAV1 Vinyl Chloride Reductase	BVC	<5.00E-01
Vinyl Chloride Reductase	VCR	4.63E+01
<i>Dehalobacter spp.</i>	DHBT	6.14E+03

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected

Quality Assurance/Quality Control Data

Samples Received 5/11/2016

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHBt	05/11/2016	05/16/2016	0 °C	102%	non-detect	non-detect
BVC	05/11/2016	05/16/2016	0 °C	100%	non-detect	non-detect
TCE	05/11/2016	05/16/2016	0 °C	110%	non-detect	non-detect
VCR	05/11/2016	05/16/2016	0 °C	97%	non-detect	non-detect
DHC	05/11/2016	05/16/2016	0 °C	115%	non-detect	non-detect



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Phone:

Fax:

Identifier: 036NE

Date Rec: 05/12/2016

Report Date: 05/17/2016

Client Project #: 24015639

Client Project Name: MRC 2016 GW

Purchase Order #: TA Job #240-64671-1

Analysis Requested: CENSUS

Reviewed By:

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Client: Test America
Project: MRC 2016 GW

MI Project Number: 036NE
Date Received: 05/12/2016

Sample Information

Client Sample ID:	G-SWMW-4I-05	G-SWMW-2I-05	G-SWMW-1I-05	MRC-MW-14B-0
	1016	1016	1016	50616
	(240-64671-2)	(240-64671-5)	(240-64671-6)	(240-64671-8)
Sample Date:	05/10/2016	05/10/2016	05/10/2016	05/10/2016
Units:	cells/mL	cells/mL	cells/mL	cells/mL
Analyst:	JS	JS	JS	JS

Dechlorinating Bacteria

<i>Dehalococcoides</i>	DHC	2.50E+04	4.84E+04	3.12E+05	7.46E+03
tceA Reductase	TCE	8.10E+00	1.25E+02	1.26E+03	7.20E+00
BAV1 Vinyl Chloride Reductase	BVC	9.13E+03	<4.00E-01	6.20E+01	<1.00E+00
Vinyl Chloride Reductase	VCR	3.44E+03	7.77E+03	6.21E+04	1.72E+03
<i>Dehalobacter spp.</i>	DHBT	3.43E+03	1.30E+04	4.96E+03	7.52E+02

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected

Quality Assurance/Quality Control Data

Samples Received 5/12/2016

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHBt	05/12/2016	05/17/2016	0 °C	104%	non-detect	non-detect
DHC	05/12/2016	05/17/2016	0 °C	112%	non-detect	non-detect
BVC	05/12/2016	05/17/2016	0 °C	99%	non-detect	non-detect
TCE	05/12/2016	05/17/2016	0 °C	104%	non-detect	non-detect
VCR	05/12/2016	05/17/2016	0 °C	103%	non-detect	non-detect

How to Retrieve and Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database

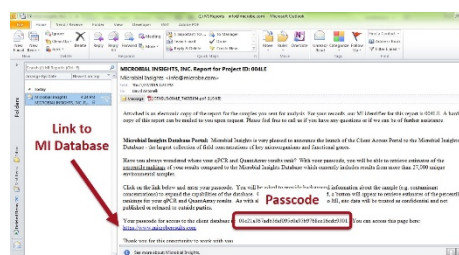
The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 40,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide.

Is that low, medium or high?

In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. The estimated percentile ranks retrieved from the MI Database answer the question “Is that low, medium or high?” by comparing your results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Retrieving Estimated Percentile Ranks

With your report, you were emailed a passcode and link enabling you to login to the Client Portal. Just enter basic information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations and you can retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge.



Well ID	Sample ID	Sample Date	Analysis Method	Run ID	CAS #	Analyte	Concentration	Units	Notes
MW1	MW1Q4	10/28/2014	SW8260B	1	107-06-2	1,2-Dichloroethane	21	UG/L	
MW1	MW1Q4	10/28/2014	SW8260B	1	156-59-2	cis-1,2-Dichloroethene	25	UG/L	
MW1	MW1Q4	10/28/2014	SW8260B	1		trans-1,2-Dichloroethene	5.8	UG/L	
MW1	MW1Q4	10/28/2014	SW8260B	1	127-1				
MW1	MW1Q4	10/28/2014	SW8260B	1	67-66				
MW1	MW1Q4	10/28/2014	SW8260B	1	75-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	107-0				
MW2	MW2Q4	11/6/2014	SW8260B	1	156-5				
MW2	MW2Q4	11/6/2014	SW8260B	1	123-9				
MW2	MW2Q4	11/6/2014	SW8260B	1	127-1				
MW2	MW2Q4	11/6/2014	SW8260B	2	75-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	67-66				
MW2	MW2Q4	11/6/2014	SW8260B	1	75-01				

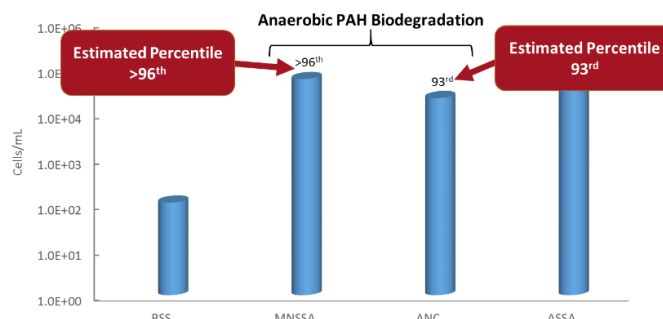
All site specific data will be treated as confidential and uploading is easy.

You can even upload chemical and geochemical data from EDDs. Just save as a Tab Delimited text file.

Example - Using Estimated Percentile for MNA Assessment at an MGP Site

CENSUS[®] qPCR was performed to quantify anaerobic naphthalene carboxylase (ANC) and naphthyl-2-methylsuccinate synthase (MNSSA) to assess anaerobic biodegradation of naphthalene and methyl-naphthalene under existing site conditions.

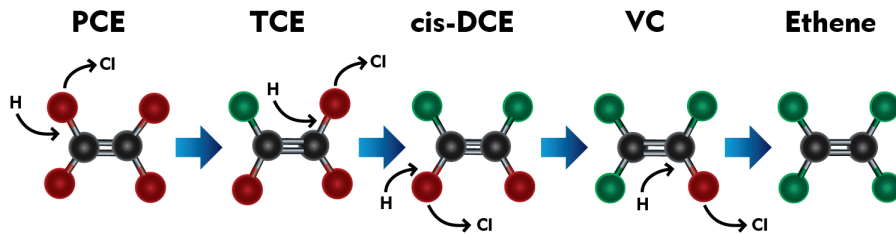
- Not only were ANC and MNSSA genes detected, but these functional genes responsible for anaerobic biodegradation of PAHs were present at concentrations “far better than average” based on the estimated percentile ranks.
- Demonstrating high concentrations of ANC and MNSSA gave an additional line of evidence indicating growth substantial populations of anaerobic PAH degraders and suggested a greater probability that monitored natural attenuation (MNA) will be successful.



DHC Interpretation

Dehalococcoides 16S rRNA gene (qDHC)

Under anaerobic conditions, tetrachloroethene (PCE) and trichloroethene (TCE) can undergo sequential reductive dechlorination through the daughter products *cis*-dichloroethene (*cis*-DCE) and vinyl chloride to nontoxic ethene (1,2).



While a number of bacterial cultures capable of utilizing PCE and TCE as growth supporting electron acceptors have been isolated (3-7), *Dehalococcoides* spp. may be the most important because they are the only bacterial group that has been isolated to date which is capable of complete reductive dechlorination of PCE to ethene (8). In fact, the presence of *Dehalococcoides* spp. has been associated with complete dechlorination to ethene at sites across North America and Europe (9).

Status	<i>Dehalococcoides</i> spp.	Observation
	$\geq 10^4$ (cells/mL)	Lu et al. proposed that a concentration of 1×10^4 DHC cells/mL could be used as a screening criterion to identify sites where reductive dechlorination will yield a generally useful biodegradation rate (10). Similarly, in an internal study conducted with nearly 1000 groundwater samples obtained from sites across the US, ethene production was observed in approximately 80% of samples in which CENSUS® qDHC results were greater than or equal to 10^4 DHC cells/mL.
	10^1 to $< 10^4$ (cells/mL)	When vinyl chloride reductase genes (See DHC functional genes discussion below) are also detected, complete reductive dechlorination of PCE and TCE to ethene may still occur even with moderate DHC concentrations. When the DHC population is below the 10^4 cells/mL criterion proposed by Lu et al. (10), project managers should carefully consider other site-specific data to determine whether subsurface conditions may be limiting reductive dechlorination. For example, the addition of an electron donor may be able to stimulate DHC growth and enhance anaerobic bioremediation.
	$< 10^1$ (cells/mL)	DHC concentrations are low suggesting that complete reductive dechlorination of PCE and TCE to ethene is unlikely to occur under existing conditions. Enhanced anaerobic bioremediation options (biostimulation or bioaugmentation) may need to be considered.

DHC Functional Genes (*tceA*, *bvcA*, *vcrA*)

A “stall” where daughter products *cis*-DCE and vinyl chloride accumulate can occur at PCE- and TCE-impacted sites especially under MNA conditions. The accumulation of vinyl chloride, generally considered more carcinogenic than the parent compounds, is particularly problematic. Although elevated *Dehalococcoides* concentrations correspond to ethene production in numerous studies, the range of chlorinated ethenes metabolized and cometabolized varies among species and strains within the *Dehalococcoides* genus. For example, *Dehalococcoides ethenogenes* str. 195 metabolizes PCE, TCE, and *cis*-DCE and cometabolizes vinyl chloride (8) to produce ethene. Conversely, *Dehalococcoides* sp. CBDB1 utilizes PCE and TCE but does not cometabolize additional chloroethenes (11). Other *Dehalococcoides* strains, such as BAV1, GT and VS, are known to fully dechlorinate *cis*-DCE and VC to ethene (14,16,19). Quantification of reductive dehalogenase genes is used to more definitively confirm the potential for reductive dechlorination of TCE, *cis*-DCE, and vinyl chloride (12-15).

Functional Gene	Observation
-----------------	-------------

TCE Reductase

<i>tceA</i> gene	<p>The <i>tceA</i> gene encodes the enzyme responsible for reductive dechlorination of TCE to <i>cis</i>-DCE in some strains of <i>Dehalococcoides</i>.</p> <p>Absence of <i>tceA</i> does not preclude the potential for reductive dechlorination of TCE in the field since the <i>tceA</i> gene is not universally distributed among all DHC and is not present in other microorganisms capable of reductive dechlorination of TCE (e.g. <i>Dehalobacter</i>).</p> <p>Detection of the <i>tceA</i> gene provides an additional line of evidence indicating the potential for dechlorination of TCE.</p>
-------------------------	---

Vinyl Chloride Reductase

<i>bvcA</i> gene	<p>The <i>bvcA</i> gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of vinyl chloride to ethene by <i>Dehalococcoides</i> sp. str. BAV1 (16).</p> <p>Presence of <i>bvcA</i> gene indicates the potential for reductive dechlorination of VC to ethene.</p> <p>Absence of both <i>bvcA</i> and <i>vcrA</i> genes suggests VC may accumulate.</p> <p>An internal study with ~1,000 samples showed ethene production was observed in 80% of the samples that the DHC population was greater than or equal to 10⁴ cells/mL. The <i>bvcA</i> gene was detected in over 50% of these samples.</p> <p>Van Der Zaan et al (17) noted that the <i>bvcA</i> gene was the only VC reductase gene detected at three of their sites.</p> <p>Alfred Spormann’s laboratory at Stanford University (18) reported that the <i>bvcA</i> gene was the most abundant and active at the outflow of a PCE fed column study. This section of the column was in the DCE to VC stages of reductive dechlorination thus confirming the importance of the <i>bvcA</i> gene for complete reductive dechlorination.</p>
<i>vcrA</i> gene	<p>The <i>vcrA</i> gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of <i>cis</i>-DCE and vinyl chloride by <i>Dehalococcoides</i> sp. strain VS (14).</p> <p>Presence of <i>vcrA</i> gene indicates the potential for reductive dechlorination of DCE and/or VC to ethene.</p> <p>Absence of both <i>bvcA</i> and <i>vcrA</i> genes suggest VC may accumulate.</p> <p>As with the <i>bvcA</i> gene, detection of the <i>vcrA</i> gene is associated with ethene production in internal studies (67%) and vinyl chloride reduction in independent studies (14, 17).</p>

Reporting

Microbial Insights can provide a variety of data packages and reporting levels to suit the needs of any project. Data packages range from simple analytical reports with results only to more complex data packages that include a report narrative, analytical results, QC data, and supporting materials including all raw data and chain-of-custody documentation. The figure below shows our standard report and explains the way values are reported.

Microbial Insights, Inc.

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 Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: Company Name	MI Project Number: Unique Laboratory Identifier
Project: Your Project Name	Date Received: Date Samples Arrived

Sample Information

Client Sample ID:	Sample A	Sample B	Sample C
Sample Date:	00/00/0000	00/00/0000	00/00/0000
Units:	cells/mL	cells/mL	cells/mL
Analyst:	Intials	Intials	Intials

Dechlorinating Bacteria

Target	DHC	Sample A	Sample B	Sample C
<i>Dehalococcoides spp.</i>		1.84E+05	2.76E+02	2.28E+01 (J)

Functional Genes

Gene	DHC	Sample A	Sample B	Sample C
tceA Reductase	TCE	6.00E+01	3.23E+01	<4.00E-01
bvcA Reductase	BVC	1.17E+04	1.81E+01	<4.00E-01
vcrA Reducatase	VCR	8.42E+04	1.74E+02	<4.00E-01

"J" value
 Result is an estimated value. This data qualifier (flag) is used when the target gene is detected but at a concentration or abundance below the practical quantification limit (PQL).

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL
 < = Result not detected

< value
 The target gene was not detected at the limit of quantitation (LOQ) reported for that sample.

I = Inhibited

"I" value
 QA Procedure indicated that the sample may have exhibited PCR inhibition. Although relatively rare, PCR inhibition can occur due to the presence of metals or humic acids at high concentrations in the sample.

Quality Assurance

Microbial Insights' comprehensive Quality Assurance (QA) Program is the foundation of all laboratory analyses, ensuring that our clients receive high-quality analytical services that are timely, reliable, and meet their intended purpose in a cost effective manner. MI is committed to providing quality data that surpasses regulatory and industry standards, thus enabling the client to make well-informed decisions. MI maintains strict standard operating procedures and QA/QC measures throughout all of the analyses offered. The following Table details specific QA/QC procedures that are used for CENSUS.

QA/QC	Description
Date of Extraction	DNA and RNA extractions are performed the day the samples are received by MI to minimize the possibility of any changes to the microbial community prior to analysis.
Laboratory Method Blanks	An extraction blank (no sample added) is processed alongside each set of field samples from DNA extraction through CENSUS® analysis to ensure that cross contamination has not occurred. Although MI has never experienced this issue, the detection of the CENSUS® target (e.g. <i>Dehalococcoides</i>) in an extraction blank is direct evidence of cross contamination with a sample or contamination of a reagent and would invalidate the results. If this were to occur, MI would re-extract the sample. If not possible to re-extract, MI would contact the client immediately and notate it on the laboratory report.
Laboratory Control Samples (LCS)	A laboratory control sample (LCS) or positive control (target DNA) is included with each CENSUS® plate to confirm amplification and as a continuing calibration check.
Negative Controls	A negative control (no DNA) is included with each CENSUS plate to ensure that cross contamination has not occurred during amplification. As with the extraction blank, detection of CENSUS target (e.g. DHC) in a negative control is direct evidence of contamination and would invalidate the results. If this were to occur, MI would rerun the analysis.

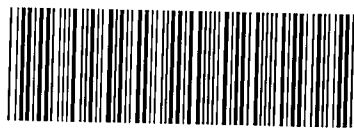
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17. van der Zaan, B., F. Hannes, N. Hoekstra, H. Rijnaarts, W.M. de Vos, H. Smidt, and J. Gerritse. 2010. Correlation of *Dehalococcoides* 16S rRNA and chloroethene-reductive dehalogenase genes with geochemical conditions in chloroethene-contaminated groundwater. *Applied and Environmental Microbiology* 76(3):843-850.
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Shipping and Receiving Documents

**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-64548 Chain of Custody

180325

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

016742

44/C3.9

BALTIMORE

Registration Program: DW NPDES RCRA Other:

Client Contact
Company Name: **Teer Tech**
Address: **2051 Century Ring Ste 100**
City/State/Zip: **Georgetown MD 20874**
Phone: **(301) 524-5552**
Fax:

Project Name: **Block G GW Remed**
Site: **Block G, MRC, MD**
PO #: **MS0470**

Project Manager: **Chris Dike**
Tel/Fax:

Site Contact: **Steve Cameron** Date: **5/6/16**
Lab Contact: **John Neuberger** Carrier:

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below
 2 weeks 1 week 2 days 1 day
5 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)	Sample Specific Notes:
TB-050616				AQ	2			
MRC-MW-14B-050616	5/6/16	1150	G	AQ	10			VOCs TOC Metals Pesticides PCBs Other Contaminants
SLMMW-1I-050616	5/6/16	1325	G	AQ	16			

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

Special Instructions/QC Requirements & Comments:
DHC goes to another lab (Lead Occides, TCF Reducive, VC Reducive)

Disposal by Lab: Return to Client Archive for _____ Months

Custody Seal No.: _____
Cooler Temp. (°C): Obs'd: _____ Corrd: _____
Received by: **Tom Tech** Date/Time: **8-6-16/1430**
Company: **TestAmerica**
Received by: **John Neuberger** Date/Time: **5-6-2016/1455**
Company: **TestAmerica**
Received by: **Head Office** Date/Time: **5/7/16 1000**
Company: **TRR**

Canton Facility

Client Tetra Tech Site Name _____

Cooler unpacked by: [Signature]

Cooler Received on 5/7/16 Opened on 5/7/16

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 See Multiple Cooler Form
 - IR GUN# 48 (CF -1.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 - IR GUN# 36 (CF -1.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 - IR GUN# 18 (CF -0.5 °C) Observed Cooler Temp. 4.4 °C Corrected Cooler Temp. 3.9 °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. Are these work share samples? Yes No

If yes, Questions 12-16 have been checked at the originating laboratory.

- 12. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC559158
- 13. Were VOAs on the COC? Yes No
- 14. Were air bubbles >6 mm in any VOA vials? Yes No NA
- 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # B332201V8 Yes No
- 16. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

18. SAMPLE CONDITION

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

Sample(s) _____ were received in a broken container.

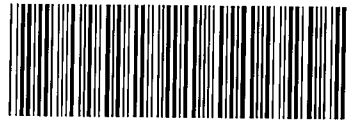
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

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

**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-64615 Chain of Custody

North Canton, OH 44720
Phone: 330.497.9396 Fax: 330.497.0772

Regulatory Program: DW NPDES RCRA Other:

Company Name: **Tetra Tech**
Address: **10251 Century Blvd Ste 200**
City/State/Zip: **Greenwich MD 20874**
Phone: **(301) 518-5357**
Fax:
Project Name: **Block G GW Remedy**
Site: **Block G MRC MD**
P O #: **111004770**

Client Contact
Project Manager: **Chris Pike**
Tel/Fax:
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below: **5 day**
 2 weeks 1 week 2 days 1 day

Site Contact: **Stu Cameron** Date: **5/11/16**
Lab Contact: **John McFadden** Carrier:
Sampler:
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification

Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
5/11/16	1055	G	AQ	2			VOCs
↓	1220	G	↓	10			TOC
↓	1415	G	↓	5			Asbestos (Cerros Affinity)
				8			Dehaloalkanes (DHG)

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

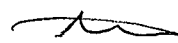
Special Instructions/QC Requirements & Comments: **DHC goes to another Lab**

Custody Seal No.:
Relinquished by: **[Signature]** Yes No
Relinquished by: **[Signature]** Date/Time: **5-11-16 1600**
Relinquished by: **[Signature]** Date/Time: **5-10-16 1005**

Company: **Tetra Tech** Date/Time: **5-9-2016/1600**
Company: **TestAmerica** Date/Time: **5-10-16 1005**
Company: **TestAmerica** Date/Time: **5-10-16 1005**

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Therm ID No.:
Cooler Temp. (°C): Obs'd: Corr'd:
Received by: **[Signature]** Company: **TestAmerica** Date/Time: **5-9-2016/1600**
Received by: **[Signature]** Company: **TestAmerica** Date/Time: **5-10-16 1005**
Received in Laboratory by: **[Signature]** Company: **TestAmerica** Date/Time: **5-10-16 1005**

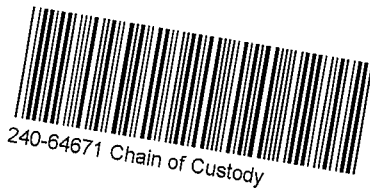
TestAmerica Canton Sample Receipt Form/Narrative		Login # : <u>04615</u>
Canton Facility _____		
Client <u>Tetra Tech</u>	Site Name _____	Cooler unpacked by: 
Cooler Received on <u>5-10-16</u>	Opened on <u>5-10-16</u>	
FedEx: 1 st Grd <input checked="" type="checkbox"/> UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____		
Receipt After-hours: Drop-off Date/Time _____		Storage Location _____
TestAmerica Cooler # _____	Foam Box _____	Client Cooler Box <input checked="" type="checkbox"/> Other _____
Packing material used: <input checked="" type="checkbox"/> Bubble Wrap _____ <input type="checkbox"/> Foam _____ <input type="checkbox"/> Plastic Bag _____ <input type="checkbox"/> None _____ <input type="checkbox"/> Other _____		
COOLANT: <input checked="" type="checkbox"/> Wet Ice _____ <input type="checkbox"/> Blue Ice _____ <input type="checkbox"/> Dry Ice _____ <input type="checkbox"/> Water _____ <input type="checkbox"/> None _____		
1. Cooler temperature upon receipt <input checked="" type="checkbox"/> See Multiple Cooler Form		
IR GUN# 48 (CF -1.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C		
IR GUN# 36 (CF -1.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C		
IR GUN# 18 (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 <u>2</u> 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. Are these work share samples? Yes No		
<i>If yes, Questions 12-16 have been checked at the originating laboratory.</i>		
12. Were sample(s) at the correct pH upon receipt? Yes No <input checked="" type="checkbox"/> NA pH Strip Lot# <u>HC559158</u>		
13. Were VOAs on the COC? Yes No		
14. Were air bubbles >6 mm in any VOA vials? Yes <input checked="" type="checkbox"/> NA		
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No		
16. Was a LL Hg or Me Hg trip blank present? _____ Yes <input checked="" type="checkbox"/> No		
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____		
Concerning _____		

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Samples processed by: _____
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	

18. 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)

19. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



180325

1.4 / Co. 9

Chain of Custody Record

016341

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

BALTIMORE

Regulatory Program: DW NPDES RCRA Other: _____

Project Manager: **Chris Pike** Site Contact: **Stu Cameron** Date: **5/10/11** COC No: _____ of **1** COCs

Tel/Fax: _____ Lab Contact: **John McAdams** Carrier: _____

Company Name: **Tetra Tech**
Address: **2001 Century Blvd Ste 200**
City/State/Zip: **Georgetown MO 64607**
Phone: **(301) 518-5552**
Fax: _____
Project Name: **Block 6 GW Kennedy**
Site: **Block 6, MKC**
P O #: **112104770**

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below: **5day**
 2 weeks
 1 week
 2 days
 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)	Sample Specific Notes:
TB-051016	-	-	-	AG	2			
G-SWMW-4I-051016	5/10/16	1000	G		10	N	N	VOCs
G-SWMW-4S-051016	1110				5	N	N	2
G-SWMW-5I-051016	1230				5	N	N	2
G-SWMW-2I-051016	1430				10	N	N	3
G-SWMW-1I-050616	1445				1	N	N	1
G-Outfall-051016	1440				6	N	N	3
MAG-MW-14B-050616	1455				1	N	N	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 Unknown Poison B

Special Instructions/QC Requirements & Comments: **DHC to another Lab.**

Relinquished by:	Relinquished by:	Relinquished by:	Relinquished by:	Relinquished by:
Chris Pike	John McAdams	Stu Cameron	John McAdams	John McAdams
Company: Tetra Tech	Company: TestAmerica	Company: TestAmerica	Company: TestAmerica	Company: TestAmerica
Date/Time: 5-10-11/1530	Date/Time: 5/10/11/1705	Date/Time: 5/10/11/1705	Date/Time: 5/10/11/1540	Date/Time: 5/11/11 940

Custody Seal No.: _____
Custody Seals Intact: Yes No
Cooler Temp. (°C): Obs'd: _____
Therm ID No.: _____
Return to Client: Disposal by Lab: Archive for _____ Months

TestAmerica Canton Sample Receipt Form/Narrative Login #: 604671
 Canton Facility

Client Tetra Tech Site Name _____ Cooler unpacked by: [Signature]
 Cooler Received on 5-11-16 Opened on 5-11-16
 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 See Multiple Cooler Form
 IR GUN# 48 (CF -1.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN# 36 (CF -1.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN# 18 (CF -0.5 °C) Observed Cooler Temp. 1.4 °C Corrected Cooler Temp. 0.9 °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. Are these work share samples? Yes No
If yes, Questions 12-16 have been checked at the originating laboratory.

12. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC559158
 13. Were VOAs on the COC? Yes No
 14. Were air bubbles >6 mm in any VOA vials? Yes No NA
 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered Yes No
 16. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: _____

18. 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)

19. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

ANALYTICAL REPORT

Job Number: 240-67328-1

Job Description: MRC Block G Month Sampling

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
8/5/2016 11:50 AM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
08/05/2016
Revision: 1

cc: Tony Apanavage
Samantha Brenner
Mike Martin
Tobrena Sedlmyer
Final Data Tracking

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.

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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.
E	Result exceeded calibration range.

GC VOA

Qualifier	Qualifier Description
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.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MRC Block G Month Sampling

Report Number: 240-67328-1

Revision 1

The report was revised on 8/5/16 to include the full list of VOCs for samples MW-14B-071816 (240-67328-2), MW-12B-071816 (240-67328-3) and MW-12A-071816 (240-67328-4). The original report listed only the chlorobenzenes instead of the full list.

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.

The DHC analysis was performed at Microbial Insights Inc.

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 7/19/2016 9:45 AM, 7/20/2016 9:30 AM and 7/21/2016 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 1.3° C, 2.0° C and 2.2° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TB-071816 (240-67328-1), TB-071916 (240-67371-1), TB-072016 (240-67443-1), MW-14B-071816 (240-67328-2), SWMW-1I-071916 (240-67371-2), SWMW-4S-072016 (240-67443-2), MW-12B-071816 (240-67328-3), SWMW-2I-071916 (240-67371-3), SWMW-4I-072016 (240-67443-3), MW-12A-071816 (240-67328-4), SWMW-5I-071916 (240-67371-4), SWMW-3I-072016 (240-67443-4) and BLOCK G OUTFALL-072016 (240-67443-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 07/25/2016, 07/26/2016 and 07/27/2016.

Samples SWMW-4S-072016 (240-67443-2)[2.86X], MW-12B-071816 (240-67443-3)[15.38X], SWMW-4I-072016 (240-67443-3)[3.33X], SWMW-5I-071916 (240-67443-4)[2X] and SWMW-3I-072016 (240-67443-4)[6.67X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample was diluted due to the abundance of non-target analytes: MW-12B-071816 (240-67328-3). Elevated reporting limits (RLs) are provided.

Sample MW-12A-071816 (240-67328-4) had cis-1,2-dichloroethene over the calibration range. This compound was not a listed compound when the analysis was done, therefore the sample was not re-analyzed.

The laboratory control sample (LCS) for 239593 recovered outside control limits for multiple analytes: 1,1,1-Trichloroethane, Bromoform, Bromomethane, Carbon tetrachloride and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. TB-071816 (240-67328-1), MW-14B-071816 (240-67328-2), MW-12B-071816 (240-67328-3), MW-12A-071816 (240-67328-4), TB-071916 (240-67371-1), SWMW-1I-071916 (240-67371-2), SWMW-2I-071916 (240-67371-3), SWMW-5I-071916 (240-67371-4) and (LCS 240-239593/4)

The laboratory control sample (LCS) for 239778 recovered outside control limits for multiple analytes: 1,1,1-Trichloroethane,

1,2-Dichloroethane, Bromoform, Bromomethane, Carbon tetrachloride, Dichlorobromomethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. TB-072016 (240-67443-1), SWMW-4S-072016 (240-67443-2), SWMW-4I-072016 (240-67443-3), SWMW-3I-072016 (240-67443-4), BLOCK G OUTFALL-072016 (240-67443-5) and (LCS 240-239778/4)

The laboratory control sample (LCS) for 240005 recovered outside control limits for multiple analytes: 1,1,1-Trichloroethane, Bromomethane, Carbon tetrachloride and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. SWMW-4I-072016 (240-67443-3) and (LCS 240-240005/4)

The continuing calibration verification (CCV) for analytical batch 239593 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-071816 (240-67328-1), MW-14B-071816 (240-67328-2), MW-12B-071816 (240-67328-3), MW-12A-071816 (240-67328-4), TB-071916 (240-67371-1), SWMW-1I-071916 (240-67371-2), SWMW-2I-071916 (240-67371-3) and SWMW-5I-071916 (240-67371-4)

The continuing calibration verification (CCV) for analytical batch 239778 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-072016 (240-67443-1), SWMW-4S-072016 (240-67443-2), SWMW-4I-072016 (240-67443-3), SWMW-3I-072016 (240-67443-4) and BLOCK G OUTFALL-072016 (240-67443-5)

The continuing calibration verification (CCV) for analytical batch 240005 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. SWMW-4I-072016 (240-67443-3)

The MSD for batch 240005 is outside of the 12 hour QC time period but is reported. Batch included: SWMW-4I-072016 (240-67443-3), (240-67437-B-11), (240-67437-B-11 MS) and (240-67437-B-11 MSD)

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

DISSOLVED GASES

Samples MW-14B-071816 (240-67328-2), SWMW-1I-071916 (240-67371-2), SWMW-2I-071916 (240-67371-3), SWMW-4I-072016 (240-67443-3) and SWMW-5I-071916 (240-67371-4) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 07/21/2016, 07/22/2016 and 07/25/2016.

Samples SWMW-1I-071916 (240-67443-2)[10X], SWMW-2I-071916 (240-67443-3)[10X], SWMW-4I-072016 (240-67443-3)[20X] and SWMW-5I-071916 (240-67443-4)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

TOTAL RECOVERABLE METALS (ICP)

Samples MW-14B-071816 (240-67328-2), SWMW-1I-071916 (240-67371-2), SWMW-2I-071916 (240-67371-3), SWMW-4I-072016 (240-67443-3), SWMW-5I-071916 (240-67371-4), SWMW-3I-072016 (240-67443-4) and BLOCK G OUTFALL-072016 (240-67443-5) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 07/21/2016 and 07/22/2016 and analyzed on 07/25/2016 and 07/26/2016.

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

ALKALINITY

Samples MW-14B-071816 (240-67328-2), SWMW-1I-071916 (240-67371-2), SWMW-2I-071916 (240-67371-3), SWMW-4I-072016 (240-67443-3), SWMW-5I-071916 (240-67371-4), SWMW-3I-072016 (240-67443-4) and BLOCK G OUTFALL-072016 (240-67443-5) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 07/21/2016, 07/22/2016 and 07/25/2016.

Alkalinity was detected in method blank MB 240-239580/5 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.

TOTAL DISSOLVED SOLIDS

Samples MW-14B-071816 (240-67328-2), SWMW-1I-071916 (240-67371-2), SWMW-2I-071916 (240-67371-3), SWMW-4I-072016 (240-67443-3), SWMW-5I-071916 (240-67371-4), SWMW-3I-072016 (240-67443-4) and BLOCK G OUTFALL-072016 (240-67443-5) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 07/22/2016, 07/25/2016, 07/26/2016, 07/27/2016 and 07/28/2016.

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

ANIONS

Samples MW-14B-071816 (240-67328-2), SWMW-1I-071916 (240-67371-2), SWMW-2I-071916 (240-67371-3), SWMW-4I-072016 (240-67443-3), SWMW-5I-071916 (240-67371-4), SWMW-3I-072016 (240-67443-4) and BLOCK G OUTFALL-072016 (240-67443-5) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 07/20/2016, 07/22/2016 and 07/27/2016.

Samples SWMW-4I-072016 (240-67443-3)[5X] and SWMW-3I-072016 (240-67443-4)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

TOTAL ORGANIC CARBON

Samples MW-14B-071816 (240-67328-2), SWMW-1I-071916 (240-67371-2), SWMW-4S-072016 (240-67443-2), MW-12B-071816 (240-67328-3), SWMW-2I-071916 (240-67371-3), SWMW-4I-072016 (240-67443-3), MW-12A-071816 (240-67328-4), SWMW-5I-071916 (240-67371-4), SWMW-3I-072016 (240-67443-4) and BLOCK G OUTFALL-072016 (240-67443-5) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 07/26/2016, 07/29/2016 and 07/30/2016.

Samples SWMW-1I-071916 (240-67443-2)[2X], SWMW-4I-072016 (240-67443-3)[20X], SWMW-5I-071916 (240-67443-4)[10X] and SWMW-3I-072016 (240-67443-4)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: TB-071816

Lab Sample ID: 240-67328-1

No Detections.

Client Sample ID: MW-14B-071816

Lab Sample ID: 240-67328-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	21		0.50	0.080	ug/L	1		RSK-175	Total/NA
Iron	12000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	950		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	53	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	1.6		1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	0.38	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	0.37	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	0.38	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	0.37	J	1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	0.37	J	1.0	0.080	mg/L	1		9060A	Total/NA
Total Dissolved Solids	60		10	7.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-12B-071816

Lab Sample ID: 240-67328-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	11	J	15	4.6	ug/L	15.38		8260C	Total/NA
1,1-Dichloroethene	83		15	6.9	ug/L	15.38		8260C	Total/NA
Trichloroethene	460		15	3.4	ug/L	15.38		8260C	Total/NA
cis-1,2-Dichloroethene	190		15	4.0	ug/L	15.38		8260C	Total/NA
TOC Result 1	0.57	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	0.56	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	0.61	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	0.56	J	1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	0.57	J	1.0	0.080	mg/L	1		9060A	Total/NA

Client Sample ID: MW-12A-071816

Lab Sample ID: 240-67328-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.7		1.0	0.35	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	17		1.0	0.30	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	3.0		1.0	0.23	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.58	J	1.0	0.30	ug/L	1		8260C	Total/NA
Chloroethane	0.32	J	1.0	0.32	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	27		1.0	0.45	ug/L	1		8260C	Total/NA
Trichloroethene	0.82	J	1.0	0.22	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	1.9	J	10	0.53	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	75	E	1.0	0.26	ug/L	1		8260C	Total/NA
Vinyl chloride	15		1.0	0.29	ug/L	1		8260C	Total/NA
TOC Result 1	36		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	36		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	37		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	37		1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	37		1.0	0.080	mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: TB-071916

Lab Sample ID: 240-67371-1

No Detections.

Client Sample ID: SWMW-11-071916

Lab Sample ID: 240-67371-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.7		1.0	0.30	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.48	J	1.0	0.23	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	0.93	J	10	0.53	ug/L	1		8260C	Total/NA
Acetone	4.3	J	10	0.94	ug/L	1		8260C	Total/NA
Benzene	3.1		1.0	0.35	ug/L	1		8260C	Total/NA
Chloroethane	1.4		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.33	J	1.0	0.26	ug/L	1		8260C	Total/NA
Trichloroethene	0.86	J	1.0	0.22	ug/L	1		8260C	Total/NA
Vinyl chloride	1.7		1.0	0.29	ug/L	1		8260C	Total/NA
Ethene	73		0.50	0.13	ug/L	1		RSK-175	Total/NA
Ethane	14		0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	6700		5.0	0.80	ug/L	10		RSK-175	Total/NA
Iron	16000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	1600		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	200		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	17		1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	10		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 2	11		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 3	11		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 4	11		2.0	0.16	mg/L	2		9060A	Total/NA
Total Organic Carbon	11		2.0	0.16	mg/L	2		9060A	Total/NA
Total Dissolved Solids	320	H	10	7.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SWMW-21-071916

Lab Sample ID: 240-67371-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.1		1.0	0.30	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.88	J	1.0	0.23	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	23		10	0.53	ug/L	1		8260C	Total/NA
Acetone	11		10	0.94	ug/L	1		8260C	Total/NA
Benzene	6.3		1.0	0.35	ug/L	1		8260C	Total/NA
Chloroethane	7.3		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.26	ug/L	1		8260C	Total/NA
Trichloroethene	0.87	J	1.0	0.22	ug/L	1		8260C	Total/NA
Vinyl chloride	0.99	J	1.0	0.29	ug/L	1		8260C	Total/NA
Ethene	50		0.50	0.13	ug/L	1		RSK-175	Total/NA
Ethane	0.77		0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	16000		5.0	0.80	ug/L	10		RSK-175	Total/NA
Iron	33000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	1000		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	410		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	1.9		1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	75		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	77		1.0	0.080	mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-2I-071916 (Continued)

Lab Sample ID: 240-67371-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TOC Result 3	75		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	78		1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	76		1.0	0.080	mg/L	1		9060A	Total/NA
Total Dissolved Solids	630		10	7.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SWMW-5I-071916

Lab Sample ID: 240-67371-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.0		2.0	0.60	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	7.9		2.0	0.90	ug/L	2		8260C	Total/NA
1,2-Dichloroethane	0.79	J	2.0	0.46	ug/L	2		8260C	Total/NA
2-Butanone (MEK)	140		20	1.1	ug/L	2		8260C	Total/NA
Acetone	3.0	J	20	1.9	ug/L	2		8260C	Total/NA
Benzene	2.5		2.0	0.70	ug/L	2		8260C	Total/NA
Chloroethane	2.2		2.0	0.64	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	63		2.0	0.52	ug/L	2		8260C	Total/NA
Trichloroethene	0.52	J	2.0	0.44	ug/L	2		8260C	Total/NA
Vinyl chloride	9.0		2.0	0.58	ug/L	2		8260C	Total/NA
Ethene	7.9		0.50	0.13	ug/L	1		RSK-175	Total/NA
Ethane	0.18	J	0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	11000		5.0	0.80	ug/L	10		RSK-175	Total/NA
Iron	74000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	2700		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	680		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	0.16	J	1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	150		10	0.80	mg/L	10		9060A	Total/NA
TOC Result 2	150		10	0.80	mg/L	10		9060A	Total/NA
TOC Result 3	150		10	0.80	mg/L	10		9060A	Total/NA
TOC Result 4	150		10	0.80	mg/L	10		9060A	Total/NA
Total Organic Carbon	150		10	0.80	mg/L	10		9060A	Total/NA
Total Dissolved Solids	1100		10	7.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TB-072016

Lab Sample ID: 240-67443-1

No Detections.

Client Sample ID: SWMW-4S-072016

Lab Sample ID: 240-67443-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.8		2.9	0.86	ug/L	2.86		8260C	Total/NA
1,1-Dichloroethene	26		2.9	1.3	ug/L	2.86		8260C	Total/NA
Benzene	1.2	J	2.9	1.0	ug/L	2.86		8260C	Total/NA
cis-1,2-Dichloroethene	91		2.9	0.74	ug/L	2.86		8260C	Total/NA
trans-1,2-Dichloroethene	0.92	J	2.9	0.86	ug/L	2.86		8260C	Total/NA
Trichloroethene	49		2.9	0.63	ug/L	2.86		8260C	Total/NA
Vinyl chloride	2.9		2.9	0.83	ug/L	2.86		8260C	Total/NA
TOC Result 1	5.0		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	4.6		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	5.2		1.0	0.080	mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-4S-072016 (Continued)

Lab Sample ID: 240-67443-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TOC Result 4	4.7		1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	4.9		1.0	0.080	mg/L	1		9060A	Total/NA

Client Sample ID: SWMW-4I-072016

Lab Sample ID: 240-67443-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.6	J *	3.3	0.77	ug/L	3.33		8260C	Total/NA
2-Butanone (MEK)	150		33	1.8	ug/L	3.33		8260C	Total/NA
Acetone	3.2	J	33	3.1	ug/L	3.33		8260C	Total/NA
Chloroethane	4.7		3.3	1.1	ug/L	3.33		8260C	Total/NA
cis-1,2-Dichloroethene	10		3.3	0.87	ug/L	3.33		8260C	Total/NA
Methylene Chloride	1.2	J	3.3	1.1	ug/L	3.33		8260C	Total/NA
Vinyl chloride	14		3.3	0.97	ug/L	3.33		8260C	Total/NA
Ethene	18		0.50	0.13	ug/L	1		RSK-175	Total/NA
Methane	19000		10	1.6	ug/L	20		RSK-175	Total/NA
Iron	43000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	500		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	980		5.0	1.9	mg/L	1		2320B-1997	Total/NA
TOC Result 1	330		20	1.6	mg/L	20		9060A	Total/NA
TOC Result 2	330		20	1.6	mg/L	20		9060A	Total/NA
TOC Result 3	340		20	1.6	mg/L	20		9060A	Total/NA
TOC Result 4	330		20	1.6	mg/L	20		9060A	Total/NA
Total Organic Carbon	330		20	1.6	mg/L	20		9060A	Total/NA
Total Dissolved Solids	1700		20	15	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SWMW-3I-072016

Lab Sample ID: 240-67443-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	6.5	J	6.7	2.0	ug/L	6.67		8260C	Total/NA
1,1-Dichloroethene	50		6.7	3.0	ug/L	6.67		8260C	Total/NA
1,2-Dichloroethane	1.7	J *	6.7	1.5	ug/L	6.67		8260C	Total/NA
2-Butanone (MEK)	43	J	67	3.5	ug/L	6.67		8260C	Total/NA
Benzene	3.2	J	6.7	2.3	ug/L	6.67		8260C	Total/NA
Chloroethane	5.1	J	6.7	2.1	ug/L	6.67		8260C	Total/NA
cis-1,2-Dichloroethene	210		6.7	1.7	ug/L	6.67		8260C	Total/NA
Trichloroethene	23		6.7	1.5	ug/L	6.67		8260C	Total/NA
Vinyl chloride	9.7		6.7	1.9	ug/L	6.67		8260C	Total/NA
Iron	31000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	640		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	770		5.0	1.9	mg/L	1		2320B-1997	Total/NA
TOC Result 1	120		4.0	0.32	mg/L	4		9060A	Total/NA
TOC Result 2	120		4.0	0.32	mg/L	4		9060A	Total/NA
TOC Result 3	120		4.0	0.32	mg/L	4		9060A	Total/NA
TOC Result 4	120		4.0	0.32	mg/L	4		9060A	Total/NA
Total Organic Carbon	120		4.0	0.32	mg/L	4		9060A	Total/NA
Total Dissolved Solids	1100		20	15	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: BLOCK G OUTFALL-072016

Lab Sample ID: 240-67443-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.6	J	10	0.94	ug/L	1		8260C	Total/NA
Trichloroethene	0.53	J	1.0	0.22	ug/L	1		8260C	Total/NA
Iron	2600		100	25	ug/L	1		6010C	Total Recoverable
Manganese	720		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	270		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	37		1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	5.1		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	5.0		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	5.2		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	5.1		1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	5.1		1.0	0.080	mg/L	1		9060A	Total/NA
Total Dissolved Solids	580		10	7.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: TB-071816

Lab Sample ID: 240-67328-1

Date Collected: 07/18/16 00:00

Matrix: Water

Date Received: 07/19/16 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U *	1.0	0.44	ug/L			07/25/16 14:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/25/16 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			07/25/16 14:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/25/16 14:20	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/25/16 14:20	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/25/16 14:20	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			07/25/16 14:20	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			07/25/16 14:20	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			07/25/16 14:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 14:20	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			07/25/16 14:20	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/25/16 14:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			07/25/16 14:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			07/25/16 14:20	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			07/25/16 14:20	1
2-Hexanone	10	U	10	0.48	ug/L			07/25/16 14:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/25/16 14:20	1
Acetone	10	U	10	0.94	ug/L			07/25/16 14:20	1
Benzene	1.0	U	1.0	0.35	ug/L			07/25/16 14:20	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			07/25/16 14:20	1
Bromoform	1.0	U *	1.0	0.56	ug/L			07/25/16 14:20	1
Bromomethane	1.0	U *	1.0	0.44	ug/L			07/25/16 14:20	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/25/16 14:20	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			07/25/16 14:20	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 14:20	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/25/16 14:20	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/25/16 14:20	1
Chloromethane	1.0	U	1.0	0.44	ug/L			07/25/16 14:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/25/16 14:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/25/16 14:20	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			07/25/16 14:20	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/25/16 14:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			07/25/16 14:20	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/25/16 14:20	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			07/25/16 14:20	1
Methyl acetate	10	U	10	2.3	ug/L			07/25/16 14:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			07/25/16 14:20	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			07/25/16 14:20	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/25/16 14:20	1
Styrene	1.0	U	1.0	0.45	ug/L			07/25/16 14:20	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/25/16 14:20	1
Toluene	1.0	U	1.0	0.23	ug/L			07/25/16 14:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/25/16 14:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/25/16 14:20	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			07/25/16 14:20	1
Trichlorofluoromethane	1.0	U *	1.0	0.49	ug/L			07/25/16 14:20	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			07/25/16 14:20	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/25/16 14:20	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: TB-071816

Lab Sample ID: 240-67328-1

Date Collected: 07/18/16 00:00

Matrix: Water

Date Received: 07/19/16 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	81		80 - 120		07/25/16 14:20	1
Dibromofluoromethane (Surr)	102		79 - 120		07/25/16 14:20	1
4-Bromofluorobenzene (Surr)	80		61 - 120		07/25/16 14:20	1
1,2-Dichloroethane-d4 (Surr)	114		78 - 125		07/25/16 14:20	1

Client Sample ID: MW-14B-071816

Lab Sample ID: 240-67328-2

Date Collected: 07/18/16 10:20

Matrix: Water

Date Received: 07/19/16 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			07/25/16 14:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 14:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			07/25/16 14:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			07/25/16 14:42	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 14:42	1
1,1,1-Trichloroethane	1.0	U *	1.0	0.44	ug/L			07/25/16 14:42	1
Benzene	1.0	U	1.0	0.35	ug/L			07/25/16 14:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/25/16 14:42	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/25/16 14:42	1
Bromoform	1.0	U *	1.0	0.56	ug/L			07/25/16 14:42	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/25/16 14:42	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/25/16 14:42	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			07/25/16 14:42	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/25/16 14:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/25/16 14:42	1
Acetone	10	U	10	0.94	ug/L			07/25/16 14:42	1
Methyl acetate	10	U	10	2.3	ug/L			07/25/16 14:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			07/25/16 14:42	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/25/16 14:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			07/25/16 14:42	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/25/16 14:42	1
Bromomethane	1.0	U *	1.0	0.44	ug/L			07/25/16 14:42	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/25/16 14:42	1
Toluene	1.0	U	1.0	0.23	ug/L			07/25/16 14:42	1
o-Xylene	1.0	U	1.0	0.25	ug/L			07/25/16 14:42	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			07/25/16 14:42	1
Styrene	1.0	U	1.0	0.45	ug/L			07/25/16 14:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/25/16 14:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/25/16 14:42	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/25/16 14:42	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/25/16 14:42	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			07/25/16 14:42	1
2-Hexanone	10	U	10	0.48	ug/L			07/25/16 14:42	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			07/25/16 14:42	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/25/16 14:42	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			07/25/16 14:42	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			07/25/16 14:42	1
Trichlorofluoromethane	1.0	U *	1.0	0.49	ug/L			07/25/16 14:42	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/25/16 14:42	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: MW-14B-071816

Lab Sample ID: 240-67328-2

Date Collected: 07/18/16 10:20

Matrix: Water

Date Received: 07/19/16 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	1.0	U	1.0	0.45	ug/L			07/25/16 14:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/25/16 14:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/25/16 14:42	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/25/16 14:42	1
m-Xylene & p-Xylene	2.0	U	2.0	0.24	ug/L			07/25/16 14:42	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			07/25/16 14:42	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			07/25/16 14:42	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			07/25/16 14:42	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			07/25/16 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	85		80 - 120		07/25/16 14:42	1
Dibromofluoromethane (Surr)	101		79 - 120		07/25/16 14:42	1
4-Bromofluorobenzene (Surr)	85		61 - 120		07/25/16 14:42	1
1,2-Dichloroethane-d4 (Surr)	114		78 - 125		07/25/16 14:42	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	0.50	U	0.50	0.13	ug/L			07/21/16 14:18	1
Ethane	0.50	U	0.50	0.14	ug/L			07/21/16 14:18	1
Methane	21		0.50	0.080	ug/L			07/21/16 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	109		76 - 121		07/21/16 14:18	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12000		100	25	ug/L		07/21/16 17:00	07/26/16 14:56	1
Manganese	950		15	5.1	ug/L		07/21/16 17:00	07/26/16 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	53	B	5.0	1.9	mg/L			07/22/16 14:29	1
Sulfate	1.6		1.0	0.13	mg/L			07/20/16 09:03	1
TOC Result 1	0.38	J	1.0	0.080	mg/L			07/26/16 01:53	1
TOC Result 2	0.37	J	1.0	0.080	mg/L			07/26/16 01:53	1
TOC Result 3	0.38	J	1.0	0.080	mg/L			07/26/16 01:53	1
TOC Result 4	0.37	J	1.0	0.080	mg/L			07/26/16 01:53	1
Total Organic Carbon	0.37	J	1.0	0.080	mg/L			07/26/16 01:53	1
Total Dissolved Solids	60		10	7.4	mg/L			07/22/16 11:45	1

Client Sample ID: MW-12B-071816

Lab Sample ID: 240-67328-3

Date Collected: 07/18/16 11:49

Matrix: Water

Date Received: 07/19/16 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	15	U	15	4.9	ug/L			07/25/16 15:05	15.38
1,2-Dichlorobenzene	15	U	15	3.8	ug/L			07/25/16 15:05	15.38
1,3-Dichlorobenzene	15	U	15	2.9	ug/L			07/25/16 15:05	15.38
1,4-Dichlorobenzene	15	U	15	4.2	ug/L			07/25/16 15:05	15.38

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: MW-12B-071816

Lab Sample ID: 240-67328-3

Date Collected: 07/18/16 11:49

Matrix: Water

Date Received: 07/19/16 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	15	U	15	3.8	ug/L			07/25/16 15:05	15.38
1,1,1-Trichloroethane	15	U *	15	6.8	ug/L			07/25/16 15:05	15.38
Benzene	15	U	15	5.4	ug/L			07/25/16 15:05	15.38
cis-1,3-Dichloropropene	15	U	15	7.1	ug/L			07/25/16 15:05	15.38
Carbon disulfide	15	U	15	5.8	ug/L			07/25/16 15:05	15.38
Bromoform	15	U *	15	8.6	ug/L			07/25/16 15:05	15.38
Tetrachloroethene	15	U	15	4.8	ug/L			07/25/16 15:05	15.38
1,1-Dichloroethane	11	J	15	4.6	ug/L			07/25/16 15:05	15.38
1,2-Dichloroethane	15	U	15	3.5	ug/L			07/25/16 15:05	15.38
1,2-Dichloropropane	15	U	15	3.8	ug/L			07/25/16 15:05	15.38
1,1,2-Trichloroethane	15	U	15	3.7	ug/L			07/25/16 15:05	15.38
Acetone	150	U	150	14	ug/L			07/25/16 15:05	15.38
Methyl acetate	150	U	150	35	ug/L			07/25/16 15:05	15.38
Dichlorodifluoromethane	15	U	15	4.9	ug/L			07/25/16 15:05	15.38
4-Methyl-2-pentanone (MIBK)	150	U	150	15	ug/L			07/25/16 15:05	15.38
1,1,2-Trichloro-1,2,2-trifluoroethane	15	U	15	6.9	ug/L			07/25/16 15:05	15.38
Methylene Chloride	15	U	15	5.1	ug/L			07/25/16 15:05	15.38
Bromomethane	15	U *	15	6.8	ug/L			07/25/16 15:05	15.38
Chlorodibromomethane	15	U	15	6.6	ug/L			07/25/16 15:05	15.38
Toluene	15	U	15	3.5	ug/L			07/25/16 15:05	15.38
o-Xylene	15	U	15	3.8	ug/L			07/25/16 15:05	15.38
1,2-Dibromo-3-Chloropropane	31	U	31	13	ug/L			07/25/16 15:05	15.38
Styrene	15	U	15	6.9	ug/L			07/25/16 15:05	15.38
trans-1,2-Dichloroethene	15	U	15	4.6	ug/L			07/25/16 15:05	15.38
1,1,1,2-Tetrachloroethane	15	U	15	3.4	ug/L			07/25/16 15:05	15.38
Chloroethane	15	U	15	4.9	ug/L			07/25/16 15:05	15.38
1,1-Dichloroethene	83		15	6.9	ug/L			07/25/16 15:05	15.38
Trichloroethene	460		15	3.4	ug/L			07/25/16 15:05	15.38
2-Hexanone	150	U	150	7.4	ug/L			07/25/16 15:05	15.38
2-Butanone (MEK)	150	U	150	8.2	ug/L			07/25/16 15:05	15.38
Ethylbenzene	15	U	15	3.8	ug/L			07/25/16 15:05	15.38
Isopropylbenzene	15	U	15	5.4	ug/L			07/25/16 15:05	15.38
Methylcyclohexane	15	U	15	6.6	ug/L			07/25/16 15:05	15.38
Trichlorofluoromethane	15	U *	15	7.5	ug/L			07/25/16 15:05	15.38
Xylenes, Total	31	U	31	8.0	ug/L			07/25/16 15:05	15.38
Cyclohexane	15	U	15	6.9	ug/L			07/25/16 15:05	15.38
trans-1,3-Dichloropropene	15	U	15	8.6	ug/L			07/25/16 15:05	15.38
cis-1,2-Dichloroethene	190		15	4.0	ug/L			07/25/16 15:05	15.38
Chloroform	15	U	15	3.8	ug/L			07/25/16 15:05	15.38
m-Xylene & p-Xylene	31	U	31	3.7	ug/L			07/25/16 15:05	15.38
Vinyl chloride	15	U	15	4.5	ug/L			07/25/16 15:05	15.38
Ethylene Dibromide	15	U	15	4.9	ug/L			07/25/16 15:05	15.38
Carbon tetrachloride	15	U *	15	6.6	ug/L			07/25/16 15:05	15.38
Dichlorobromomethane	15	U	15	4.5	ug/L			07/25/16 15:05	15.38

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	83		80 - 120		07/25/16 15:05	15.38
Dibromofluoromethane (Surr)	101		79 - 120		07/25/16 15:05	15.38
4-Bromofluorobenzene (Surr)	86		61 - 120		07/25/16 15:05	15.38
1,2-Dichloroethane-d4 (Surr)	111		78 - 125		07/25/16 15:05	15.38

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	0.57	J	1.0	0.080	mg/L			07/26/16 02:48	1
TOC Result 2	0.56	J	1.0	0.080	mg/L			07/26/16 02:48	1
TOC Result 3	0.61	J	1.0	0.080	mg/L			07/26/16 02:48	1
TOC Result 4	0.56	J	1.0	0.080	mg/L			07/26/16 02:48	1
Total Organic Carbon	0.57	J	1.0	0.080	mg/L			07/26/16 02:48	1

Client Sample ID: MW-12A-071816

Lab Sample ID: 240-67328-4

Date Collected: 07/18/16 16:55

Matrix: Water

Date Received: 07/19/16 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			07/25/16 15:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 15:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			07/25/16 15:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			07/25/16 15:27	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 15:27	1
1,1,1-Trichloroethane	1.0	U*	1.0	0.44	ug/L			07/25/16 15:27	1
Benzene	3.7		1.0	0.35	ug/L			07/25/16 15:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/25/16 15:27	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/25/16 15:27	1
Bromoform	1.0	U*	1.0	0.56	ug/L			07/25/16 15:27	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/25/16 15:27	1
1,1-Dichloroethane	17		1.0	0.30	ug/L			07/25/16 15:27	1
1,2-Dichloroethane	3.0		1.0	0.23	ug/L			07/25/16 15:27	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/25/16 15:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/25/16 15:27	1
Acetone	10	U	10	0.94	ug/L			07/25/16 15:27	1
Methyl acetate	10	U	10	2.3	ug/L			07/25/16 15:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			07/25/16 15:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/25/16 15:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			07/25/16 15:27	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/25/16 15:27	1
Bromomethane	1.0	U*	1.0	0.44	ug/L			07/25/16 15:27	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/25/16 15:27	1
Toluene	1.0	U	1.0	0.23	ug/L			07/25/16 15:27	1
o-Xylene	1.0	U	1.0	0.25	ug/L			07/25/16 15:27	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			07/25/16 15:27	1
Styrene	1.0	U	1.0	0.45	ug/L			07/25/16 15:27	1
trans-1,2-Dichloroethene	0.58	J	1.0	0.30	ug/L			07/25/16 15:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/25/16 15:27	1
Chloroethane	0.32	J	1.0	0.32	ug/L			07/25/16 15:27	1
1,1-Dichloroethene	27		1.0	0.45	ug/L			07/25/16 15:27	1
Trichloroethene	0.82	J	1.0	0.22	ug/L			07/25/16 15:27	1
2-Hexanone	10	U	10	0.48	ug/L			07/25/16 15:27	1
2-Butanone (MEK)	1.9	J	10	0.53	ug/L			07/25/16 15:27	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/25/16 15:27	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			07/25/16 15:27	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			07/25/16 15:27	1
Trichlorofluoromethane	1.0	U*	1.0	0.49	ug/L			07/25/16 15:27	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/25/16 15:27	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			07/25/16 15:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/25/16 15:27	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: MW-12A-071816

Lab Sample ID: 240-67328-4

Date Collected: 07/18/16 16:55

Matrix: Water

Date Received: 07/19/16 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	75	E	1.0	0.26	ug/L			07/25/16 15:27	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/25/16 15:27	1
m-Xylene & p-Xylene	2.0	U	2.0	0.24	ug/L			07/25/16 15:27	1
Vinyl chloride	15		1.0	0.29	ug/L			07/25/16 15:27	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			07/25/16 15:27	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			07/25/16 15:27	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			07/25/16 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	85		80 - 120		07/25/16 15:27	1
<i>Dibromofluoromethane (Surr)</i>	103		79 - 120		07/25/16 15:27	1
<i>4-Bromofluorobenzene (Surr)</i>	82		61 - 120		07/25/16 15:27	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	114		78 - 125		07/25/16 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	36		1.0	0.080	mg/L			07/26/16 02:19	1
TOC Result 2	36		1.0	0.080	mg/L			07/26/16 02:19	1
TOC Result 3	37		1.0	0.080	mg/L			07/26/16 02:19	1
TOC Result 4	37		1.0	0.080	mg/L			07/26/16 02:19	1
Total Organic Carbon	37		1.0	0.080	mg/L			07/26/16 02:19	1

Client Sample ID: TB-071916

Lab Sample ID: 240-67371-1

Date Collected: 07/19/16 00:00

Matrix: Water

Date Received: 07/20/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U *	1.0	0.44	ug/L			07/25/16 15:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/25/16 15:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			07/25/16 15:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/25/16 15:50	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/25/16 15:50	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/25/16 15:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			07/25/16 15:50	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			07/25/16 15:50	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			07/25/16 15:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 15:50	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			07/25/16 15:50	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/25/16 15:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			07/25/16 15:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			07/25/16 15:50	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			07/25/16 15:50	1
2-Hexanone	10	U	10	0.48	ug/L			07/25/16 15:50	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/25/16 15:50	1
Acetone	10	U	10	0.94	ug/L			07/25/16 15:50	1
Benzene	1.0	U	1.0	0.35	ug/L			07/25/16 15:50	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			07/25/16 15:50	1
Bromoform	1.0	U *	1.0	0.56	ug/L			07/25/16 15:50	1
Bromomethane	1.0	U *	1.0	0.44	ug/L			07/25/16 15:50	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: TB-071916

Lab Sample ID: 240-67371-1

Date Collected: 07/19/16 00:00

Matrix: Water

Date Received: 07/20/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/25/16 15:50	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			07/25/16 15:50	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 15:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/25/16 15:50	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/25/16 15:50	1
Chloromethane	1.0	U	1.0	0.44	ug/L			07/25/16 15:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/25/16 15:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/25/16 15:50	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			07/25/16 15:50	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/25/16 15:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			07/25/16 15:50	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/25/16 15:50	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			07/25/16 15:50	1
Methyl acetate	10	U	10	2.3	ug/L			07/25/16 15:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			07/25/16 15:50	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			07/25/16 15:50	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/25/16 15:50	1
Styrene	1.0	U	1.0	0.45	ug/L			07/25/16 15:50	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/25/16 15:50	1
Toluene	1.0	U	1.0	0.23	ug/L			07/25/16 15:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/25/16 15:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/25/16 15:50	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			07/25/16 15:50	1
Trichlorofluoromethane	1.0	U *	1.0	0.49	ug/L			07/25/16 15:50	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			07/25/16 15:50	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/25/16 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	84		80 - 120		07/25/16 15:50	1
Dibromofluoromethane (Surr)	102		79 - 120		07/25/16 15:50	1
4-Bromofluorobenzene (Surr)	83		61 - 120		07/25/16 15:50	1
1,2-Dichloroethane-d4 (Surr)	113		78 - 125		07/25/16 15:50	1

Client Sample ID: SWMW-1I-071916

Lab Sample ID: 240-67371-2

Date Collected: 07/19/16 10:20

Matrix: Water

Date Received: 07/20/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U *	1.0	0.44	ug/L			07/25/16 16:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/25/16 16:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			07/25/16 16:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/25/16 16:12	1
1,1-Dichloroethane	4.7		1.0	0.30	ug/L			07/25/16 16:12	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/25/16 16:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			07/25/16 16:12	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			07/25/16 16:12	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			07/25/16 16:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 16:12	1
1,2-Dichloroethane	0.48	J	1.0	0.23	ug/L			07/25/16 16:12	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-11-071916

Lab Sample ID: 240-67371-2

Date Collected: 07/19/16 10:20

Matrix: Water

Date Received: 07/20/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/25/16 16:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			07/25/16 16:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			07/25/16 16:12	1
2-Butanone (MEK)	0.93	J	10	0.53	ug/L			07/25/16 16:12	1
2-Hexanone	10	U	10	0.48	ug/L			07/25/16 16:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/25/16 16:12	1
Acetone	4.3	J	10	0.94	ug/L			07/25/16 16:12	1
Benzene	3.1		1.0	0.35	ug/L			07/25/16 16:12	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			07/25/16 16:12	1
Bromoform	1.0	U *	1.0	0.56	ug/L			07/25/16 16:12	1
Bromomethane	1.0	U *	1.0	0.44	ug/L			07/25/16 16:12	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/25/16 16:12	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			07/25/16 16:12	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 16:12	1
Chloroethane	1.4		1.0	0.32	ug/L			07/25/16 16:12	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/25/16 16:12	1
Chloromethane	1.0	U	1.0	0.44	ug/L			07/25/16 16:12	1
cis-1,2-Dichloroethene	0.33	J	1.0	0.26	ug/L			07/25/16 16:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/25/16 16:12	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			07/25/16 16:12	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/25/16 16:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			07/25/16 16:12	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/25/16 16:12	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			07/25/16 16:12	1
Methyl acetate	10	U	10	2.3	ug/L			07/25/16 16:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			07/25/16 16:12	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			07/25/16 16:12	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/25/16 16:12	1
Styrene	1.0	U	1.0	0.45	ug/L			07/25/16 16:12	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/25/16 16:12	1
Toluene	1.0	U	1.0	0.23	ug/L			07/25/16 16:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/25/16 16:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/25/16 16:12	1
Trichloroethene	0.86	J	1.0	0.22	ug/L			07/25/16 16:12	1
Trichlorofluoromethane	1.0	U *	1.0	0.49	ug/L			07/25/16 16:12	1
Vinyl chloride	1.7		1.0	0.29	ug/L			07/25/16 16:12	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/25/16 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	86		80 - 120		07/25/16 16:12	1
Dibromofluoromethane (Surr)	102		79 - 120		07/25/16 16:12	1
4-Bromofluorobenzene (Surr)	85		61 - 120		07/25/16 16:12	1
1,2-Dichloroethane-d4 (Surr)	116		78 - 125		07/25/16 16:12	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	73		0.50	0.13	ug/L			07/21/16 14:35	1
Ethane	14		0.50	0.14	ug/L			07/21/16 14:35	1
Methane	6700		5.0	0.80	ug/L			07/22/16 15:47	10

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-1I-071916

Lab Sample ID: 240-67371-2

Date Collected: 07/19/16 10:20

Matrix: Water

Date Received: 07/20/16 09:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	100		76 - 121		07/21/16 14:35	1
1,1,1-Trifluoroethane	114		76 - 121		07/22/16 15:47	10

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	16000		100	25	ug/L		07/22/16 11:16	07/25/16 14:57	1
Manganese	1600		15	5.1	ug/L		07/22/16 11:16	07/25/16 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	200		5.0	1.9	mg/L			07/21/16 20:38	1
Sulfate	17		1.0	0.13	mg/L			07/27/16 18:00	1
TOC Result 1	10		2.0	0.16	mg/L			07/29/16 20:59	2
TOC Result 2	11		2.0	0.16	mg/L			07/29/16 20:59	2
TOC Result 3	11		2.0	0.16	mg/L			07/29/16 20:59	2
TOC Result 4	11		2.0	0.16	mg/L			07/29/16 20:59	2
Total Organic Carbon	11		2.0	0.16	mg/L			07/29/16 20:59	2
Total Dissolved Solids	320	H	10	7.4	mg/L			07/28/16 10:20	1

Client Sample ID: SWMW-2I-071916

Lab Sample ID: 240-67371-3

Date Collected: 07/19/16 12:19

Matrix: Water

Date Received: 07/20/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U *	1.0	0.44	ug/L			07/25/16 16:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/25/16 16:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			07/25/16 16:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/25/16 16:34	1
1,1-Dichloroethane	3.1		1.0	0.30	ug/L			07/25/16 16:34	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/25/16 16:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			07/25/16 16:34	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			07/25/16 16:34	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			07/25/16 16:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 16:34	1
1,2-Dichloroethane	0.88	J	1.0	0.23	ug/L			07/25/16 16:34	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/25/16 16:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			07/25/16 16:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			07/25/16 16:34	1
2-Butanone (MEK)	23		10	0.53	ug/L			07/25/16 16:34	1
2-Hexanone	10	U	10	0.48	ug/L			07/25/16 16:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/25/16 16:34	1
Acetone	11		10	0.94	ug/L			07/25/16 16:34	1
Benzene	6.3		1.0	0.35	ug/L			07/25/16 16:34	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			07/25/16 16:34	1
Bromoform	1.0	U *	1.0	0.56	ug/L			07/25/16 16:34	1
Bromomethane	1.0	U *	1.0	0.44	ug/L			07/25/16 16:34	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/25/16 16:34	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			07/25/16 16:34	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 16:34	1
Chloroethane	7.3		1.0	0.32	ug/L			07/25/16 16:34	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-2I-071916

Lab Sample ID: 240-67371-3

Date Collected: 07/19/16 12:19

Matrix: Water

Date Received: 07/20/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	1.0	U	1.0	0.25	ug/L			07/25/16 16:34	1
Chloromethane	1.0	U	1.0	0.44	ug/L			07/25/16 16:34	1
cis-1,2-Dichloroethene	1.1		1.0	0.26	ug/L			07/25/16 16:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/25/16 16:34	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			07/25/16 16:34	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/25/16 16:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			07/25/16 16:34	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/25/16 16:34	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			07/25/16 16:34	1
Methyl acetate	10	U	10	2.3	ug/L			07/25/16 16:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			07/25/16 16:34	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			07/25/16 16:34	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/25/16 16:34	1
Styrene	1.0	U	1.0	0.45	ug/L			07/25/16 16:34	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/25/16 16:34	1
Toluene	1.0	U	1.0	0.23	ug/L			07/25/16 16:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/25/16 16:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/25/16 16:34	1
Trichloroethene	0.87	J	1.0	0.22	ug/L			07/25/16 16:34	1
Trichlorofluoromethane	1.0	U *	1.0	0.49	ug/L			07/25/16 16:34	1
Vinyl chloride	0.99	J	1.0	0.29	ug/L			07/25/16 16:34	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/25/16 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	87		80 - 120		07/25/16 16:34	1
Dibromofluoromethane (Surr)	100		79 - 120		07/25/16 16:34	1
4-Bromofluorobenzene (Surr)	87		61 - 120		07/25/16 16:34	1
1,2-Dichloroethane-d4 (Surr)	108		78 - 125		07/25/16 16:34	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	50		0.50	0.13	ug/L			07/21/16 14:53	1
Ethane	0.77		0.50	0.14	ug/L			07/21/16 14:53	1
Methane	16000		5.0	0.80	ug/L			07/22/16 16:39	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	104		76 - 121		07/21/16 14:53	1
1,1,1-Trifluoroethane	102		76 - 121		07/22/16 16:39	10

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	33000		100	25	ug/L		07/22/16 11:16	07/25/16 15:01	1
Manganese	1000		15	5.1	ug/L		07/22/16 11:16	07/25/16 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	410		5.0	1.9	mg/L			07/21/16 20:52	1
Sulfate	1.9		1.0	0.13	mg/L			07/27/16 18:49	1
TOC Result 1	75		1.0	0.080	mg/L			07/29/16 21:25	1
TOC Result 2	77		1.0	0.080	mg/L			07/29/16 21:25	1
TOC Result 3	75		1.0	0.080	mg/L			07/29/16 21:25	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-2I-071916

Lab Sample ID: 240-67371-3

Date Collected: 07/19/16 12:19

Matrix: Water

Date Received: 07/20/16 09:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 4	78		1.0	0.080	mg/L			07/29/16 21:25	1
Total Organic Carbon	76		1.0	0.080	mg/L			07/29/16 21:25	1
Total Dissolved Solids	630		10	7.4	mg/L			07/25/16 08:52	1

Client Sample ID: SWMW-5I-071916

Lab Sample ID: 240-67371-4

Date Collected: 07/19/16 15:05

Matrix: Water

Date Received: 07/20/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U *	2.0	0.88	ug/L			07/25/16 16:57	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.44	ug/L			07/25/16 16:57	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.90	ug/L			07/25/16 16:57	2
1,1,2-Trichloroethane	2.0	U	2.0	0.48	ug/L			07/25/16 16:57	2
1,1-Dichloroethane	2.0		2.0	0.60	ug/L			07/25/16 16:57	2
1,1-Dichloroethene	7.9		2.0	0.90	ug/L			07/25/16 16:57	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.64	ug/L			07/25/16 16:57	2
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			07/25/16 16:57	2
Ethylene Dibromide	2.0	U	2.0	0.64	ug/L			07/25/16 16:57	2
1,2-Dichlorobenzene	2.0	U	2.0	0.50	ug/L			07/25/16 16:57	2
1,2-Dichloroethane	0.79	J	2.0	0.46	ug/L			07/25/16 16:57	2
1,2-Dichloropropane	2.0	U	2.0	0.50	ug/L			07/25/16 16:57	2
1,3-Dichlorobenzene	2.0	U	2.0	0.38	ug/L			07/25/16 16:57	2
1,4-Dichlorobenzene	2.0	U	2.0	0.54	ug/L			07/25/16 16:57	2
2-Butanone (MEK)	140		20	1.1	ug/L			07/25/16 16:57	2
2-Hexanone	20	U	20	0.96	ug/L			07/25/16 16:57	2
4-Methyl-2-pentanone (MIBK)	20	U	20	2.0	ug/L			07/25/16 16:57	2
Acetone	3.0	J	20	1.9	ug/L			07/25/16 16:57	2
Benzene	2.5		2.0	0.70	ug/L			07/25/16 16:57	2
Dichlorobromomethane	2.0	U	2.0	0.58	ug/L			07/25/16 16:57	2
Bromoform	2.0	U *	2.0	1.1	ug/L			07/25/16 16:57	2
Bromomethane	2.0	U *	2.0	0.88	ug/L			07/25/16 16:57	2
Carbon disulfide	2.0	U	2.0	0.76	ug/L			07/25/16 16:57	2
Carbon tetrachloride	2.0	U *	2.0	0.86	ug/L			07/25/16 16:57	2
Chlorobenzene	2.0	U	2.0	0.50	ug/L			07/25/16 16:57	2
Chloroethane	2.2		2.0	0.64	ug/L			07/25/16 16:57	2
Chloroform	2.0	U	2.0	0.50	ug/L			07/25/16 16:57	2
Chloromethane	2.0	U	2.0	0.88	ug/L			07/25/16 16:57	2
cis-1,2-Dichloroethene	63		2.0	0.52	ug/L			07/25/16 16:57	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.92	ug/L			07/25/16 16:57	2
Cyclohexane	2.0	U	2.0	0.90	ug/L			07/25/16 16:57	2
Chlorodibromomethane	2.0	U	2.0	0.86	ug/L			07/25/16 16:57	2
Dichlorodifluoromethane	2.0	U	2.0	0.64	ug/L			07/25/16 16:57	2
Ethylbenzene	2.0	U	2.0	0.50	ug/L			07/25/16 16:57	2
Isopropylbenzene	2.0	U	2.0	0.70	ug/L			07/25/16 16:57	2
Methyl acetate	20	U	20	4.5	ug/L			07/25/16 16:57	2
Methyl tert-butyl ether	2.0	U	2.0	0.40	ug/L			07/25/16 16:57	2
Methylcyclohexane	2.0	U	2.0	0.86	ug/L			07/25/16 16:57	2
Methylene Chloride	2.0	U	2.0	0.66	ug/L			07/25/16 16:57	2
Styrene	2.0	U	2.0	0.90	ug/L			07/25/16 16:57	2

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-5I-071916

Lab Sample ID: 240-67371-4

Date Collected: 07/19/16 15:05

Matrix: Water

Date Received: 07/20/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2.0	U	2.0	0.62	ug/L			07/25/16 16:57	2
Toluene	2.0	U	2.0	0.46	ug/L			07/25/16 16:57	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.60	ug/L			07/25/16 16:57	2
trans-1,3-Dichloropropene	2.0	U	2.0	1.1	ug/L			07/25/16 16:57	2
Trichloroethene	0.52	J	2.0	0.44	ug/L			07/25/16 16:57	2
Trichlorofluoromethane	2.0	U *	2.0	0.98	ug/L			07/25/16 16:57	2
Vinyl chloride	9.0		2.0	0.58	ug/L			07/25/16 16:57	2
Xylenes, Total	4.0	U	4.0	1.0	ug/L			07/25/16 16:57	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	86		80 - 120		07/25/16 16:57	2
<i>Dibromofluoromethane (Surr)</i>	100		79 - 120		07/25/16 16:57	2
<i>4-Bromofluorobenzene (Surr)</i>	84		61 - 120		07/25/16 16:57	2
<i>1,2-Dichloroethane-d4 (Surr)</i>	112		78 - 125		07/25/16 16:57	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	7.9		0.50	0.13	ug/L			07/21/16 15:10	1
Ethane	0.18	J	0.50	0.14	ug/L			07/21/16 15:10	1
Methane	11000		5.0	0.80	ug/L			07/22/16 16:57	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,1,1-Trifluoroethane</i>	104		76 - 121		07/21/16 15:10	1
<i>1,1,1-Trifluoroethane</i>	107		76 - 121		07/22/16 16:57	10

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	74000		100	25	ug/L		07/22/16 11:16	07/25/16 14:37	1
Manganese	2700		15	5.1	ug/L		07/22/16 11:16	07/25/16 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	680		5.0	1.9	mg/L			07/21/16 21:12	1
Sulfate	0.16	J	1.0	0.13	mg/L			07/27/16 19:05	1
TOC Result 1	150		10	0.80	mg/L			07/29/16 23:22	10
TOC Result 2	150		10	0.80	mg/L			07/29/16 23:22	10
TOC Result 3	150		10	0.80	mg/L			07/29/16 23:22	10
TOC Result 4	150		10	0.80	mg/L			07/29/16 23:22	10
Total Organic Carbon	150		10	0.80	mg/L			07/29/16 23:22	10
Total Dissolved Solids	1100		10	7.4	mg/L			07/25/16 08:52	1

Client Sample ID: TB-072016

Lab Sample ID: 240-67443-1

Date Collected: 07/20/16 00:00

Matrix: Water

Date Received: 07/21/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U *	1.0	0.44	ug/L			07/26/16 16:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/26/16 16:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			07/26/16 16:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/26/16 16:06	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: TB-072016

Lab Sample ID: 240-67443-1

Date Collected: 07/20/16 00:00

Matrix: Water

Date Received: 07/21/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/26/16 16:06	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/26/16 16:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			07/26/16 16:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			07/26/16 16:06	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			07/26/16 16:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			07/26/16 16:06	1
1,2-Dichloroethane	1.0	U *	1.0	0.23	ug/L			07/26/16 16:06	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/26/16 16:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			07/26/16 16:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			07/26/16 16:06	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			07/26/16 16:06	1
2-Hexanone	10	U	10	0.48	ug/L			07/26/16 16:06	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/26/16 16:06	1
Acetone	10	U	10	0.94	ug/L			07/26/16 16:06	1
Benzene	1.0	U	1.0	0.35	ug/L			07/26/16 16:06	1
Dichlorobromomethane	1.0	U *	1.0	0.29	ug/L			07/26/16 16:06	1
Bromoform	1.0	U *	1.0	0.56	ug/L			07/26/16 16:06	1
Bromomethane	1.0	U *	1.0	0.44	ug/L			07/26/16 16:06	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/26/16 16:06	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			07/26/16 16:06	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/26/16 16:06	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/26/16 16:06	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/26/16 16:06	1
Chloromethane	1.0	U	1.0	0.44	ug/L			07/26/16 16:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/26/16 16:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/26/16 16:06	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			07/26/16 16:06	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/26/16 16:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			07/26/16 16:06	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/26/16 16:06	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			07/26/16 16:06	1
Methyl acetate	10	U	10	2.3	ug/L			07/26/16 16:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			07/26/16 16:06	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			07/26/16 16:06	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/26/16 16:06	1
Styrene	1.0	U	1.0	0.45	ug/L			07/26/16 16:06	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/26/16 16:06	1
Toluene	1.0	U	1.0	0.23	ug/L			07/26/16 16:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/26/16 16:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/26/16 16:06	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			07/26/16 16:06	1
Trichlorofluoromethane	1.0	U *	1.0	0.49	ug/L			07/26/16 16:06	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			07/26/16 16:06	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/26/16 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	84		80 - 120		07/26/16 16:06	1
Dibromofluoromethane (Surr)	105		79 - 120		07/26/16 16:06	1
4-Bromofluorobenzene (Surr)	83		61 - 120		07/26/16 16:06	1
1,2-Dichloroethane-d4 (Surr)	118		78 - 125		07/26/16 16:06	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-4S-072016

Lab Sample ID: 240-67443-2

Date Collected: 07/20/16 10:18

Matrix: Water

Date Received: 07/21/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.9	U *	2.9	1.3	ug/L			07/26/16 16:29	2.86
1,1,2,2-Tetrachloroethane	2.9	U	2.9	0.63	ug/L			07/26/16 16:29	2.86
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9	U	2.9	1.3	ug/L			07/26/16 16:29	2.86
1,1,2-Trichloroethane	2.9	U	2.9	0.69	ug/L			07/26/16 16:29	2.86
1,1-Dichloroethane	5.8		2.9	0.86	ug/L			07/26/16 16:29	2.86
1,1-Dichloroethene	26		2.9	1.3	ug/L			07/26/16 16:29	2.86
1,2,4-Trichlorobenzene	2.9	U	2.9	0.92	ug/L			07/26/16 16:29	2.86
1,2-Dibromo-3-Chloropropane	5.7	U	5.7	2.3	ug/L			07/26/16 16:29	2.86
Ethylene Dibromide	2.9	U	2.9	0.92	ug/L			07/26/16 16:29	2.86
1,2-Dichlorobenzene	2.9	U	2.9	0.72	ug/L			07/26/16 16:29	2.86
1,2-Dichloroethane	2.9	U *	2.9	0.66	ug/L			07/26/16 16:29	2.86
1,2-Dichloropropane	2.9	U	2.9	0.72	ug/L			07/26/16 16:29	2.86
1,3-Dichlorobenzene	2.9	U	2.9	0.54	ug/L			07/26/16 16:29	2.86
1,4-Dichlorobenzene	2.9	U	2.9	0.77	ug/L			07/26/16 16:29	2.86
2-Butanone (MEK)	29	U	29	1.5	ug/L			07/26/16 16:29	2.86
2-Hexanone	29	U	29	1.4	ug/L			07/26/16 16:29	2.86
4-Methyl-2-pentanone (MIBK)	29	U	29	2.8	ug/L			07/26/16 16:29	2.86
Acetone	29	U	29	2.7	ug/L			07/26/16 16:29	2.86
Benzene	1.2	J	2.9	1.0	ug/L			07/26/16 16:29	2.86
Dichlorobromomethane	2.9	U *	2.9	0.83	ug/L			07/26/16 16:29	2.86
Bromoform	2.9	U *	2.9	1.6	ug/L			07/26/16 16:29	2.86
Bromomethane	2.9	U *	2.9	1.3	ug/L			07/26/16 16:29	2.86
Carbon disulfide	2.9	U	2.9	1.1	ug/L			07/26/16 16:29	2.86
Carbon tetrachloride	2.9	U *	2.9	1.2	ug/L			07/26/16 16:29	2.86
Chlorobenzene	2.9	U	2.9	0.72	ug/L			07/26/16 16:29	2.86
Chloroethane	2.9	U	2.9	0.92	ug/L			07/26/16 16:29	2.86
Chloroform	2.9	U	2.9	0.72	ug/L			07/26/16 16:29	2.86
Chloromethane	2.9	U	2.9	1.3	ug/L			07/26/16 16:29	2.86
cis-1,2-Dichloroethene	91		2.9	0.74	ug/L			07/26/16 16:29	2.86
cis-1,3-Dichloropropene	2.9	U	2.9	1.3	ug/L			07/26/16 16:29	2.86
Cyclohexane	2.9	U	2.9	1.3	ug/L			07/26/16 16:29	2.86
Chlorodibromomethane	2.9	U	2.9	1.2	ug/L			07/26/16 16:29	2.86
Dichlorodifluoromethane	2.9	U	2.9	0.92	ug/L			07/26/16 16:29	2.86
Ethylbenzene	2.9	U	2.9	0.72	ug/L			07/26/16 16:29	2.86
Isopropylbenzene	2.9	U	2.9	1.0	ug/L			07/26/16 16:29	2.86
Methyl acetate	29	U	29	6.5	ug/L			07/26/16 16:29	2.86
Methyl tert-butyl ether	2.9	U	2.9	0.57	ug/L			07/26/16 16:29	2.86
Methylcyclohexane	2.9	U	2.9	1.2	ug/L			07/26/16 16:29	2.86
Methylene Chloride	2.9	U	2.9	0.94	ug/L			07/26/16 16:29	2.86
Styrene	2.9	U	2.9	1.3	ug/L			07/26/16 16:29	2.86
Tetrachloroethene	2.9	U	2.9	0.89	ug/L			07/26/16 16:29	2.86
Toluene	2.9	U	2.9	0.66	ug/L			07/26/16 16:29	2.86
trans-1,2-Dichloroethene	0.92	J	2.9	0.86	ug/L			07/26/16 16:29	2.86
trans-1,3-Dichloropropene	2.9	U	2.9	1.6	ug/L			07/26/16 16:29	2.86
Trichloroethene	49		2.9	0.63	ug/L			07/26/16 16:29	2.86
Trichlorofluoromethane	2.9	U *	2.9	1.4	ug/L			07/26/16 16:29	2.86
Vinyl chloride	2.9		2.9	0.83	ug/L			07/26/16 16:29	2.86
Xylenes, Total	5.7	U	5.7	1.5	ug/L			07/26/16 16:29	2.86

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-4S-072016

Lab Sample ID: 240-67443-2

Date Collected: 07/20/16 10:18

Matrix: Water

Date Received: 07/21/16 09:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	83		80 - 120		07/26/16 16:29	2.86
Dibromofluoromethane (Surr)	102		79 - 120		07/26/16 16:29	2.86
4-Bromofluorobenzene (Surr)	83		61 - 120		07/26/16 16:29	2.86
1,2-Dichloroethane-d4 (Surr)	115		78 - 125		07/26/16 16:29	2.86

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	5.0		1.0	0.080	mg/L			07/30/16 00:48	1
TOC Result 2	4.6		1.0	0.080	mg/L			07/30/16 00:48	1
TOC Result 3	5.2		1.0	0.080	mg/L			07/30/16 00:48	1
TOC Result 4	4.7		1.0	0.080	mg/L			07/30/16 00:48	1
Total Organic Carbon	4.9		1.0	0.080	mg/L			07/30/16 00:48	1

Client Sample ID: SWMW-4I-072016

Lab Sample ID: 240-67443-3

Date Collected: 07/20/16 11:28

Matrix: Water

Date Received: 07/21/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.3	U *	3.3	1.5	ug/L			07/26/16 16:51	3.33
1,1,1,2-Tetrachloroethane	3.3	U	3.3	0.73	ug/L			07/26/16 16:51	3.33
1,1,2-Trichloro-1,2,2-trifluoroethane	3.3	U	3.3	1.5	ug/L			07/26/16 16:51	3.33
1,1,2-Trichloroethane	3.3	U	3.3	0.80	ug/L			07/26/16 16:51	3.33
1,1-Dichloroethane	3.3	U	3.3	1.0	ug/L			07/26/16 16:51	3.33
1,1-Dichloroethene	3.3	U	3.3	1.5	ug/L			07/26/16 16:51	3.33
1,2,4-Trichlorobenzene	3.3	U	3.3	1.1	ug/L			07/26/16 16:51	3.33
1,2-Dibromo-3-Chloropropane	6.7	U	6.7	2.7	ug/L			07/26/16 16:51	3.33
Ethylene Dibromide	3.3	U	3.3	1.1	ug/L			07/26/16 16:51	3.33
1,2-Dichlorobenzene	3.3	U	3.3	0.83	ug/L			07/26/16 16:51	3.33
1,2-Dichloroethane	1.6	J *	3.3	0.77	ug/L			07/26/16 16:51	3.33
1,2-Dichloropropane	3.3	U	3.3	0.83	ug/L			07/26/16 16:51	3.33
1,3-Dichlorobenzene	3.3	U	3.3	0.63	ug/L			07/26/16 16:51	3.33
1,4-Dichlorobenzene	3.3	U	3.3	0.90	ug/L			07/26/16 16:51	3.33
2-Butanone (MEK)	150		33	1.8	ug/L			07/26/16 16:51	3.33
2-Hexanone	33	U	33	1.6	ug/L			07/26/16 16:51	3.33
4-Methyl-2-pentanone (MIBK)	33	U	33	3.3	ug/L			07/26/16 16:51	3.33
Acetone	3.2	J	33	3.1	ug/L			07/26/16 16:51	3.33
Benzene	3.3	U	3.3	1.2	ug/L			07/26/16 16:51	3.33
Dichlorobromomethane	3.3	U *	3.3	0.97	ug/L			07/26/16 16:51	3.33
Bromoform	3.3	U *	3.3	1.9	ug/L			07/26/16 16:51	3.33
Bromomethane	3.3	U *	3.3	1.5	ug/L			07/26/16 16:51	3.33
Carbon disulfide	3.3	U	3.3	1.3	ug/L			07/26/16 16:51	3.33
Carbon tetrachloride	3.3	U *	3.3	1.4	ug/L			07/26/16 16:51	3.33
Chlorobenzene	3.3	U	3.3	0.83	ug/L			07/26/16 16:51	3.33
Chloroethane	4.7		3.3	1.1	ug/L			07/27/16 13:55	3.33
Chloroform	3.3	U	3.3	0.83	ug/L			07/26/16 16:51	3.33
Chloromethane	3.3	U	3.3	1.5	ug/L			07/26/16 16:51	3.33
cis-1,2-Dichloroethene	10		3.3	0.87	ug/L			07/26/16 16:51	3.33
cis-1,3-Dichloropropene	3.3	U	3.3	1.5	ug/L			07/26/16 16:51	3.33
Cyclohexane	3.3	U	3.3	1.5	ug/L			07/26/16 16:51	3.33

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-4I-072016

Lab Sample ID: 240-67443-3

Date Collected: 07/20/16 11:28

Matrix: Water

Date Received: 07/21/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	3.3	U	3.3	1.4	ug/L			07/26/16 16:51	3.33
Dichlorodifluoromethane	3.3	U	3.3	1.1	ug/L			07/26/16 16:51	3.33
Ethylbenzene	3.3	U	3.3	0.83	ug/L			07/26/16 16:51	3.33
Isopropylbenzene	3.3	U	3.3	1.2	ug/L			07/26/16 16:51	3.33
Methyl acetate	33	U	33	7.6	ug/L			07/26/16 16:51	3.33
Methyl tert-butyl ether	3.3	U	3.3	0.67	ug/L			07/26/16 16:51	3.33
Methylcyclohexane	3.3	U	3.3	1.4	ug/L			07/26/16 16:51	3.33
Methylene Chloride	1.2	J	3.3	1.1	ug/L			07/26/16 16:51	3.33
Styrene	3.3	U	3.3	1.5	ug/L			07/26/16 16:51	3.33
Tetrachloroethene	3.3	U	3.3	1.0	ug/L			07/26/16 16:51	3.33
Toluene	3.3	U	3.3	0.77	ug/L			07/26/16 16:51	3.33
trans-1,2-Dichloroethene	3.3	U	3.3	1.0	ug/L			07/26/16 16:51	3.33
trans-1,3-Dichloropropene	3.3	U	3.3	1.9	ug/L			07/26/16 16:51	3.33
Trichloroethene	3.3	U	3.3	0.73	ug/L			07/26/16 16:51	3.33
Trichlorofluoromethane	3.3	U *	3.3	1.6	ug/L			07/26/16 16:51	3.33
Vinyl chloride	14		3.3	0.97	ug/L			07/26/16 16:51	3.33
Xylenes, Total	6.7	U	6.7	1.7	ug/L			07/26/16 16:51	3.33

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	84		80 - 120				07/26/16 16:51	3.33
Toluene-d8 (Surr)	84		80 - 120				07/27/16 13:55	3.33
Dibromofluoromethane (Surr)	104		79 - 120				07/26/16 16:51	3.33
Dibromofluoromethane (Surr)	103		79 - 120				07/27/16 13:55	3.33
4-Bromofluorobenzene (Surr)	81		61 - 120				07/26/16 16:51	3.33
4-Bromofluorobenzene (Surr)	86		61 - 120				07/27/16 13:55	3.33
1,2-Dichloroethane-d4 (Surr)	117		78 - 125				07/26/16 16:51	3.33
1,2-Dichloroethane-d4 (Surr)	108		78 - 125				07/27/16 13:55	3.33

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	18		0.50	0.13	ug/L			07/22/16 21:00	1
Ethane	0.50	U	0.50	0.14	ug/L			07/22/16 21:00	1
Methane	19000		10	1.6	ug/L			07/25/16 18:01	20

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	93		76 - 121				07/22/16 21:00	1
1,1,1-Trifluoroethane	103		76 - 121				07/25/16 18:01	20

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	43000		100	25	ug/L		07/22/16 11:24	07/26/16 14:23	1
Manganese	500		15	5.1	ug/L		07/22/16 11:24	07/26/16 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	980		5.0	1.9	mg/L			07/25/16 15:54	1
Sulfate	5.0	U	5.0	0.65	mg/L			07/22/16 19:48	5
TOC Result 1	330		20	1.6	mg/L			07/30/16 00:18	20
TOC Result 2	330		20	1.6	mg/L			07/30/16 00:18	20
TOC Result 3	340		20	1.6	mg/L			07/30/16 00:18	20
TOC Result 4	330		20	1.6	mg/L			07/30/16 00:18	20

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-4I-072016

Lab Sample ID: 240-67443-3

Date Collected: 07/20/16 11:28

Matrix: Water

Date Received: 07/21/16 09:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	330		20	1.6	mg/L			07/30/16 00:18	20
Total Dissolved Solids	1700		20	15	mg/L			07/26/16 08:57	1

Client Sample ID: SWMW-3I-072016

Lab Sample ID: 240-67443-4

Date Collected: 07/20/16 14:13

Matrix: Water

Date Received: 07/21/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.7	U *	6.7	2.9	ug/L			07/26/16 17:14	6.67
1,1,2,2-Tetrachloroethane	6.7	U	6.7	1.5	ug/L			07/26/16 17:14	6.67
1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U	6.7	3.0	ug/L			07/26/16 17:14	6.67
1,1,2-Trichloroethane	6.7	U	6.7	1.6	ug/L			07/26/16 17:14	6.67
1,1-Dichloroethane	6.5	J	6.7	2.0	ug/L			07/26/16 17:14	6.67
1,1-Dichloroethene	50		6.7	3.0	ug/L			07/26/16 17:14	6.67
1,2,4-Trichlorobenzene	6.7	U	6.7	2.1	ug/L			07/26/16 17:14	6.67
1,2-Dibromo-3-Chloropropane	13	U	13	5.5	ug/L			07/26/16 17:14	6.67
Ethylene Dibromide	6.7	U	6.7	2.1	ug/L			07/26/16 17:14	6.67
1,2-Dichlorobenzene	6.7	U	6.7	1.7	ug/L			07/26/16 17:14	6.67
1,2-Dichloroethane	1.7	J *	6.7	1.5	ug/L			07/26/16 17:14	6.67
1,2-Dichloropropane	6.7	U	6.7	1.7	ug/L			07/26/16 17:14	6.67
1,3-Dichlorobenzene	6.7	U	6.7	1.3	ug/L			07/26/16 17:14	6.67
1,4-Dichlorobenzene	6.7	U	6.7	1.8	ug/L			07/26/16 17:14	6.67
2-Butanone (MEK)	43	J	67	3.5	ug/L			07/26/16 17:14	6.67
2-Hexanone	67	U	67	3.2	ug/L			07/26/16 17:14	6.67
4-Methyl-2-pentanone (MIBK)	67	U	67	6.6	ug/L			07/26/16 17:14	6.67
Acetone	67	U	67	6.3	ug/L			07/26/16 17:14	6.67
Benzene	3.2	J	6.7	2.3	ug/L			07/26/16 17:14	6.67
Dichlorobromomethane	6.7	U *	6.7	1.9	ug/L			07/26/16 17:14	6.67
Bromoform	6.7	U *	6.7	3.7	ug/L			07/26/16 17:14	6.67
Bromomethane	6.7	U *	6.7	2.9	ug/L			07/26/16 17:14	6.67
Carbon disulfide	6.7	U	6.7	2.5	ug/L			07/26/16 17:14	6.67
Carbon tetrachloride	6.7	U *	6.7	2.9	ug/L			07/26/16 17:14	6.67
Chlorobenzene	6.7	U	6.7	1.7	ug/L			07/26/16 17:14	6.67
Chloroethane	5.1	J	6.7	2.1	ug/L			07/26/16 17:14	6.67
Chloroform	6.7	U	6.7	1.7	ug/L			07/26/16 17:14	6.67
Chloromethane	6.7	U	6.7	2.9	ug/L			07/26/16 17:14	6.67
cis-1,2-Dichloroethene	210		6.7	1.7	ug/L			07/26/16 17:14	6.67
cis-1,3-Dichloropropene	6.7	U	6.7	3.1	ug/L			07/26/16 17:14	6.67
Cyclohexane	6.7	U	6.7	3.0	ug/L			07/26/16 17:14	6.67
Chlorodibromomethane	6.7	U	6.7	2.9	ug/L			07/26/16 17:14	6.67
Dichlorodifluoromethane	6.7	U	6.7	2.1	ug/L			07/26/16 17:14	6.67
Ethylbenzene	6.7	U	6.7	1.7	ug/L			07/26/16 17:14	6.67
Isopropylbenzene	6.7	U	6.7	2.3	ug/L			07/26/16 17:14	6.67
Methyl acetate	67	U	67	15	ug/L			07/26/16 17:14	6.67
Methyl tert-butyl ether	6.7	U	6.7	1.3	ug/L			07/26/16 17:14	6.67
Methylcyclohexane	6.7	U	6.7	2.9	ug/L			07/26/16 17:14	6.67
Methylene Chloride	6.7	U	6.7	2.2	ug/L			07/26/16 17:14	6.67
Styrene	6.7	U	6.7	3.0	ug/L			07/26/16 17:14	6.67
Tetrachloroethene	6.7	U	6.7	2.1	ug/L			07/26/16 17:14	6.67

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-3I-072016

Lab Sample ID: 240-67443-4

Date Collected: 07/20/16 14:13

Matrix: Water

Date Received: 07/21/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	6.7	U	6.7	1.5	ug/L			07/26/16 17:14	6.67
trans-1,2-Dichloroethene	6.7	U	6.7	2.0	ug/L			07/26/16 17:14	6.67
trans-1,3-Dichloropropene	6.7	U	6.7	3.7	ug/L			07/26/16 17:14	6.67
Trichloroethene	23		6.7	1.5	ug/L			07/26/16 17:14	6.67
Trichlorofluoromethane	6.7	U *	6.7	3.3	ug/L			07/26/16 17:14	6.67
Vinyl chloride	9.7		6.7	1.9	ug/L			07/26/16 17:14	6.67
Xylenes, Total	13	U	13	3.5	ug/L			07/26/16 17:14	6.67

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	82		80 - 120		07/26/16 17:14	6.67
<i>Dibromofluoromethane (Surr)</i>	103		79 - 120		07/26/16 17:14	6.67
<i>4-Bromofluorobenzene (Surr)</i>	84		61 - 120		07/26/16 17:14	6.67
<i>1,2-Dichloroethane-d4 (Surr)</i>	115		78 - 125		07/26/16 17:14	6.67

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	31000		100	25	ug/L		07/22/16 11:24	07/26/16 14:27	1
Manganese	640		15	5.1	ug/L		07/22/16 11:24	07/26/16 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	770		5.0	1.9	mg/L			07/25/16 16:20	1
Sulfate	5.0	U	5.0	0.65	mg/L			07/22/16 20:08	5
TOC Result 1	120		4.0	0.32	mg/L			07/29/16 23:50	4
TOC Result 2	120		4.0	0.32	mg/L			07/29/16 23:50	4
TOC Result 3	120		4.0	0.32	mg/L			07/29/16 23:50	4
TOC Result 4	120		4.0	0.32	mg/L			07/29/16 23:50	4
Total Organic Carbon	120		4.0	0.32	mg/L			07/29/16 23:50	4
Total Dissolved Solids	1100		20	15	mg/L			07/26/16 08:57	1

Client Sample ID: BLOCK G OUTFALL-072016

Lab Sample ID: 240-67443-5

Date Collected: 07/20/16 15:05

Matrix: Water

Date Received: 07/21/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U *	1.0	0.44	ug/L			07/26/16 17:36	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/26/16 17:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			07/26/16 17:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/26/16 17:36	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/26/16 17:36	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/26/16 17:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			07/26/16 17:36	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			07/26/16 17:36	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			07/26/16 17:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			07/26/16 17:36	1
1,2-Dichloroethane	1.0	U *	1.0	0.23	ug/L			07/26/16 17:36	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/26/16 17:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			07/26/16 17:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			07/26/16 17:36	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: BLOCK G OUTFALL-072016

Lab Sample ID: 240-67443-5

Date Collected: 07/20/16 15:05

Matrix: Water

Date Received: 07/21/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	10	U	10	0.53	ug/L			07/26/16 17:36	1
2-Hexanone	10	U	10	0.48	ug/L			07/26/16 17:36	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/26/16 17:36	1
Acetone	2.6	J	10	0.94	ug/L			07/26/16 17:36	1
Benzene	1.0	U	1.0	0.35	ug/L			07/26/16 17:36	1
Dichlorobromomethane	1.0	U *	1.0	0.29	ug/L			07/26/16 17:36	1
Bromoform	1.0	U *	1.0	0.56	ug/L			07/26/16 17:36	1
Bromomethane	1.0	U *	1.0	0.44	ug/L			07/26/16 17:36	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/26/16 17:36	1
Carbon tetrachloride	1.0	U *	1.0	0.43	ug/L			07/26/16 17:36	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/26/16 17:36	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/26/16 17:36	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/26/16 17:36	1
Chloromethane	1.0	U	1.0	0.44	ug/L			07/26/16 17:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/26/16 17:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/26/16 17:36	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			07/26/16 17:36	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/26/16 17:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			07/26/16 17:36	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/26/16 17:36	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			07/26/16 17:36	1
Methyl acetate	10	U	10	2.3	ug/L			07/26/16 17:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			07/26/16 17:36	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			07/26/16 17:36	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/26/16 17:36	1
Styrene	1.0	U	1.0	0.45	ug/L			07/26/16 17:36	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/26/16 17:36	1
Toluene	1.0	U	1.0	0.23	ug/L			07/26/16 17:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/26/16 17:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/26/16 17:36	1
Trichloroethene	0.53	J	1.0	0.22	ug/L			07/26/16 17:36	1
Trichlorofluoromethane	1.0	U *	1.0	0.49	ug/L			07/26/16 17:36	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			07/26/16 17:36	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/26/16 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	83		80 - 120		07/26/16 17:36	1
<i>Dibromofluoromethane (Surr)</i>	103		79 - 120		07/26/16 17:36	1
<i>4-Bromofluorobenzene (Surr)</i>	84		61 - 120		07/26/16 17:36	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	117		78 - 125		07/26/16 17:36	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2600		100	25	ug/L		07/22/16 11:24	07/26/16 14:31	1
Manganese	720		15	5.1	ug/L		07/22/16 11:24	07/26/16 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	270		5.0	1.9	mg/L			07/25/16 16:31	1
Sulfate	37		1.0	0.13	mg/L			07/22/16 20:28	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: BLOCK G OUTFALL-072016

Lab Sample ID: 240-67443-5

Date Collected: 07/20/16 15:05

Matrix: Water

Date Received: 07/21/16 09:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	5.1		1.0	0.080	mg/L			07/29/16 22:38	1
TOC Result 2	5.0		1.0	0.080	mg/L			07/29/16 22:38	1
TOC Result 3	5.2		1.0	0.080	mg/L			07/29/16 22:38	1
TOC Result 4	5.1		1.0	0.080	mg/L			07/29/16 22:38	1
Total Organic Carbon	5.1		1.0	0.080	mg/L			07/29/16 22:38	1
Total Dissolved Solids	580		10	7.4	mg/L			07/27/16 09:27	1

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

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

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	1.0	0.44	ug/L	8260C
1,1,1,2-Tetrachloroethane	1.0	0.22	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.45	ug/L	8260C
1,1,2-Trichloroethane	1.0	0.24	ug/L	8260C
1,1-Dichloroethane	1.0	0.30	ug/L	8260C
1,1-Dichloroethene	1.0	0.45	ug/L	8260C
1,2,4-Trichlorobenzene	1.0	0.32	ug/L	8260C
1,2-Dibromo-3-Chloropropane	2.0	0.82	ug/L	8260C
1,2-Dichlorobenzene	1.0	0.25	ug/L	8260C
1,2-Dichloroethane	1.0	0.23	ug/L	8260C
1,2-Dichloropropane	1.0	0.25	ug/L	8260C
1,3-Dichlorobenzene	1.0	0.19	ug/L	8260C
1,4-Dichlorobenzene	1.0	0.27	ug/L	8260C
2-Butanone (MEK)	10	0.53	ug/L	8260C
2-Hexanone	10	0.48	ug/L	8260C
4-Methyl-2-pentanone (MIBK)	10	0.99	ug/L	8260C
Acetone	10	0.94	ug/L	8260C
Benzene	1.0	0.35	ug/L	8260C
Bromoform	1.0	0.56	ug/L	8260C
Bromomethane	1.0	0.44	ug/L	8260C
Carbon disulfide	1.0	0.38	ug/L	8260C
Carbon tetrachloride	1.0	0.43	ug/L	8260C
Chlorobenzene	1.0	0.25	ug/L	8260C
Chlorodibromomethane	1.0	0.43	ug/L	8260C
Chloroethane	1.0	0.32	ug/L	8260C
Chloroform	1.0	0.25	ug/L	8260C
Chloromethane	1.0	0.44	ug/L	8260C
cis-1,2-Dichloroethene	1.0	0.26	ug/L	8260C
cis-1,3-Dichloropropene	1.0	0.46	ug/L	8260C
Cyclohexane	1.0	0.45	ug/L	8260C
Dichlorobromomethane	1.0	0.29	ug/L	8260C
Dichlorodifluoromethane	1.0	0.32	ug/L	8260C
Ethylbenzene	1.0	0.25	ug/L	8260C
Ethylene Dibromide	1.0	0.32	ug/L	8260C
Isopropylbenzene	1.0	0.35	ug/L	8260C
Methyl acetate	10	2.3	ug/L	8260C
Methyl tert-butyl ether	1.0	0.20	ug/L	8260C
Methylcyclohexane	1.0	0.43	ug/L	8260C
Methylene Chloride	1.0	0.33	ug/L	8260C
m-Xylene & p-Xylene	2.0	0.24	ug/L	8260C
o-Xylene	1.0	0.25	ug/L	8260C
Styrene	1.0	0.45	ug/L	8260C
Tetrachloroethene	1.0	0.31	ug/L	8260C
Toluene	1.0	0.23	ug/L	8260C
trans-1,2-Dichloroethene	1.0	0.30	ug/L	8260C
trans-1,3-Dichloropropene	1.0	0.56	ug/L	8260C
Trichloroethene	1.0	0.22	ug/L	8260C
Trichlorofluoromethane	1.0	0.49	ug/L	8260C
Vinyl chloride	1.0	0.29	ug/L	8260C
Xylenes, Total	2.0	0.52	ug/L	8260C

Method: RSK-175 - Dissolved Gases (GC)

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units	Method
Ethane	0.50	0.14	ug/L	RSK-175
Ethene	0.50	0.13	ug/L	RSK-175
Methane	0.50	0.080	ug/L	RSK-175

Method: 6010C - Metals (ICP) - Total Recoverable

Prep: 3005A

Analyte	RL	MDL	Units	Method
Iron	100	25	ug/L	6010C
Manganese	15	5.1	ug/L	6010C

General Chemistry

Analyte	RL	MDL	Units	Method
Alkalinity	5.0	1.9	mg/L	2320B-1997
Sulfate	1.0	0.13	mg/L	300.0
TOC Result 1	1.0	0.080	mg/L	9060A
TOC Result 2	1.0	0.080	mg/L	9060A
TOC Result 3	1.0	0.080	mg/L	9060A
TOC Result 4	1.0	0.080	mg/L	9060A
Total Organic Carbon	1.0	0.080	mg/L	9060A
Total Dissolved Solids	10	7.4	mg/L	SM 2540C

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DBFM (79-120)	BFB (61-120)	12DCE (78-125)
240-67328-1	TB-071816	81	102	80	114
240-67328-2	MW-14B-071816	85	101	85	114
240-67328-3	MW-12B-071816	83	101	86	111
240-67328-4	MW-12A-071816	85	103	82	114
240-67371-1	TB-071916	84	102	83	113
240-67371-2	SWMW-1I-071916	86	102	85	116
240-67371-3	SWMW-2I-071916	87	100	87	108
240-67371-4	SWMW-5I-071916	86	100	84	112
240-67437-B-4 MS	Matrix Spike	85	102	95	110
240-67437-B-4 MSD	Matrix Spike Duplicate	88	103	99	108
240-67437-B-11 MS	Matrix Spike	88	103	95	105
240-67437-B-11 MSD	Matrix Spike Duplicate	88	98	93	99
240-67437-E-5 MS	Matrix Spike	89	106	97	112
240-67437-H-5 MSD	Matrix Spike Duplicate	88	103	96	106
240-67443-1	TB-072016	84	105	83	118
240-67443-2	SWMW-4S-072016	83	102	83	115
240-67443-3	SWMW-4I-072016	84	104	81	117
240-67443-3	SWMW-4I-072016	84	103	86	108
240-67443-4	SWMW-3I-072016	82	103	84	115
240-67443-5	BLOCK G OUTFALL-072016	83	103	84	117
LCS 240-239593/4	Lab Control Sample	87	100	96	105
LCS 240-239778/4	Lab Control Sample	87	100	96	107
LCS 240-240005/4	Lab Control Sample	85	104	95	103
MB 240-239593/6	Method Blank	85	96	83	110
MB 240-239778/6	Method Blank	84	103	84	111
MB 240-240005/6	Method Blank	82	97	82	109

Surrogate Legend

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

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		trifluoroet (76-121)
240-67328-2	MW-14B-071816	109
240-67371-2	SWMW-1I-071916	100
240-67371-2	SWMW-1I-071916	114
240-67371-2 MS	SWMW-1I-071916	106
240-67371-2 MSD	SWMW-1I-071916	103
240-67371-3	SWMW-2I-071916	104
240-67371-3	SWMW-2I-071916	102
240-67371-4	SWMW-5I-071916	104
240-67371-4	SWMW-5I-071916	107
240-67404-M-1 MS	Matrix Spike	103

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	1,1,1-Trifluoroethane (76-121)			
240-67404-R-1 MSD	Matrix Spike Duplicate	101			
240-67437-E-4 MS	Matrix Spike	107			
240-67437-E-4 MSD	Matrix Spike Duplicate	104			
240-67443-3	SWMW-4I-072016	93			
240-67443-3	SWMW-4I-072016	103			
LCS 240-239141/5	Lab Control Sample	109			
LCS 240-239364/5	Lab Control Sample	107			
LCS 240-239649/5	Lab Control Sample	109			
MB 240-239141/4	Method Blank	102			
MB 240-239364/4	Method Blank	111			
MB 240-239649/4	Method Blank	113			

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

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

Lab Sample ID: MB 240-239593/6

Matrix: Water

Analysis Batch: 239593

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			07/25/16 10:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			07/25/16 10:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 10:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			07/25/16 10:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			07/25/16 10:26	1
Benzene	1.0	U	1.0	0.35	ug/L			07/25/16 10:26	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/25/16 10:26	1
Bromoform	1.0	U	1.0	0.56	ug/L			07/25/16 10:26	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			07/25/16 10:26	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/25/16 10:26	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/25/16 10:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/25/16 10:26	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/25/16 10:26	1
Acetone	10	U	10	0.94	ug/L			07/25/16 10:26	1
Chloromethane	1.0	U	1.0	0.44	ug/L			07/25/16 10:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/25/16 10:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/25/16 10:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			07/25/16 10:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			07/25/16 10:26	1
Methyl acetate	10	U	10	2.3	ug/L			07/25/16 10:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			07/25/16 10:26	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/25/16 10:26	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/25/16 10:26	1
Bromomethane	1.0	U	1.0	0.44	ug/L			07/25/16 10:26	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/25/16 10:26	1
Toluene	1.0	U	1.0	0.23	ug/L			07/25/16 10:26	1
o-Xylene	1.0	U	1.0	0.25	ug/L			07/25/16 10:26	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			07/25/16 10:26	1
Styrene	1.0	U	1.0	0.45	ug/L			07/25/16 10:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/25/16 10:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/25/16 10:26	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/25/16 10:26	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/25/16 10:26	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			07/25/16 10:26	1
2-Hexanone	10	U	10	0.48	ug/L			07/25/16 10:26	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			07/25/16 10:26	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/25/16 10:26	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			07/25/16 10:26	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			07/25/16 10:26	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			07/25/16 10:26	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/25/16 10:26	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			07/25/16 10:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/25/16 10:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/25/16 10:26	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/25/16 10:26	1
m-Xylene & p-Xylene	2.0	U	2.0	0.24	ug/L			07/25/16 10:26	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			07/25/16 10:26	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			07/25/16 10:26	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

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

Lab Sample ID: MB 240-239593/6

Matrix: Water

Analysis Batch: 239593

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			07/25/16 10:26	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			07/25/16 10:26	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
%Recovery	Qualifier								
Toluene-d8 (Surr)	85		80 - 120		07/25/16 10:26	1			
Dibromofluoromethane (Surr)	96		79 - 120		07/25/16 10:26	1			
4-Bromofluorobenzene (Surr)	83		61 - 120		07/25/16 10:26	1			
1,2-Dichloroethane-d4 (Surr)	110		78 - 125		07/25/16 10:26	1			

Lab Sample ID: LCS 240-239593/4

Matrix: Water

Analysis Batch: 239593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,2,3-Trichlorobenzene	10.0	9.65		ug/L		97	66 - 120
1,2,4-Trichlorobenzene	10.0	8.62		ug/L		86	61 - 120
1,1,1-Trichloroethane	10.0	12.9	*	ug/L		129	77 - 123
1,2-Dichlorobenzene	10.0	9.51		ug/L		95	79 - 120
1,3-Dichlorobenzene	10.0	9.73		ug/L		97	79 - 120
1,4-Dichlorobenzene	10.0	9.51		ug/L		95	79 - 120
Benzene	10.0	9.63		ug/L		96	80 - 120
1,1-Dichloroethane	10.0	9.83		ug/L		98	79 - 125
Bromoform	10.0	13.7	*	ug/L		137	56 - 122
1,2-Dichloroethane	10.0	11.9		ug/L		119	80 - 120
1,2-Dichloropropane	10.0	9.81		ug/L		98	78 - 124
Carbon disulfide	10.0	10.3		ug/L		103	65 - 144
1,1,2-Trichloroethane	10.0	9.91		ug/L		99	80 - 120
Chlorobenzene	10.0	9.76		ug/L		98	80 - 120
Acetone	20.0	18.0		ug/L		90	34 - 148
Chloromethane	10.0	7.92		ug/L		79	48 - 133
cis-1,3-Dichloropropene	10.0	10.8		ug/L		108	74 - 126
4-Methyl-2-pentanone (MIBK)	20.0	21.6		ug/L		108	64 - 135
Dichlorodifluoromethane	10.0	10.4		ug/L		104	23 - 136
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.9		ug/L		129	67 - 138
Methyl acetate	50.0	48.7		ug/L		97	67 - 131
Methyl tert-butyl ether	10.0	11.4		ug/L		114	69 - 121
Methylene Chloride	10.0	10.8		ug/L		108	77 - 129
Tetrachloroethene	10.0	11.7		ug/L		117	78 - 121
Bromomethane	10.0	17.0	*	ug/L		170	38 - 132
Chlorodibromomethane	10.0	11.6		ug/L		116	74 - 120
Toluene	10.0	9.56		ug/L		96	80 - 120
o-Xylene	10.0	9.84		ug/L		98	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.7		ug/L		107	50 - 132
Styrene	10.0	10.3		ug/L		103	76 - 122
trans-1,2-Dichloroethene	10.0	11.1		ug/L		111	80 - 124
1,1,2,2-Tetrachloroethane	10.0	8.50		ug/L		85	71 - 123
Chloroethane	10.0	10.0		ug/L		100	36 - 126

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

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

Lab Sample ID: LCS 240-239593/4
Matrix: Water
Analysis Batch: 239593

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	10.7		ug/L		107	76 - 124
Trichloroethene	10.0	11.3		ug/L		113	80 - 121
2-Hexanone	20.0	19.1		ug/L		96	55 - 141
2-Butanone (MEK)	20.0	17.9		ug/L		89	56 - 138
Ethylbenzene	10.0	9.84		ug/L		98	80 - 120
Isopropylbenzene	10.0	10.6		ug/L		106	77 - 120
Methylcyclohexane	10.0	10.5		ug/L		105	61 - 134
Trichlorofluoromethane	10.0	15.5	*	ug/L		155	61 - 133
Xylenes, Total	20.0	19.1		ug/L		96	80 - 120
Cyclohexane	10.0	10.1		ug/L		101	60 - 140
trans-1,3-Dichloropropene	10.0	10.6		ug/L		106	75 - 131
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	79 - 120
Chloroform	10.0	11.1		ug/L		111	80 - 120
m-Xylene & p-Xylene	10.0	9.27		ug/L		93	80 - 120
Vinyl chloride	10.0	9.35		ug/L		93	52 - 121
Ethylene Dibromide	10.0	11.0		ug/L		110	80 - 120
Carbon tetrachloride	10.0	14.1	*	ug/L		141	77 - 131
Dichlorobromomethane	10.0	11.9		ug/L		119	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	87		80 - 120
Dibromofluoromethane (Surr)	100		79 - 120
4-Bromofluorobenzene (Surr)	96		61 - 120
1,2-Dichloroethane-d4 (Surr)	105		78 - 125

Lab Sample ID: MB 240-239778/6
Matrix: Water
Analysis Batch: 239778

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			07/26/16 11:37	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			07/26/16 11:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			07/26/16 11:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			07/26/16 11:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			07/26/16 11:37	1
Benzene	1.0	U	1.0	0.35	ug/L			07/26/16 11:37	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/26/16 11:37	1
Bromoform	1.0	U	1.0	0.56	ug/L			07/26/16 11:37	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			07/26/16 11:37	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/26/16 11:37	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/26/16 11:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/26/16 11:37	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/26/16 11:37	1
Acetone	10	U	10	0.94	ug/L			07/26/16 11:37	1
Chloromethane	1.0	U	1.0	0.44	ug/L			07/26/16 11:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/26/16 11:37	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/26/16 11:37	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			07/26/16 11:37	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

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

Lab Sample ID: MB 240-239778/6

Matrix: Water

Analysis Batch: 239778

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			07/26/16 11:37	1
Methyl acetate	10	U	10	2.3	ug/L			07/26/16 11:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			07/26/16 11:37	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/26/16 11:37	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/26/16 11:37	1
Bromomethane	1.0	U	1.0	0.44	ug/L			07/26/16 11:37	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/26/16 11:37	1
Toluene	1.0	U	1.0	0.23	ug/L			07/26/16 11:37	1
o-Xylene	1.0	U	1.0	0.25	ug/L			07/26/16 11:37	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			07/26/16 11:37	1
Styrene	1.0	U	1.0	0.45	ug/L			07/26/16 11:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/26/16 11:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/26/16 11:37	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/26/16 11:37	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/26/16 11:37	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			07/26/16 11:37	1
2-Hexanone	10	U	10	0.48	ug/L			07/26/16 11:37	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			07/26/16 11:37	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/26/16 11:37	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			07/26/16 11:37	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			07/26/16 11:37	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			07/26/16 11:37	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/26/16 11:37	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			07/26/16 11:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/26/16 11:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/26/16 11:37	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/26/16 11:37	1
m-Xylene & p-Xylene	2.0	U	2.0	0.24	ug/L			07/26/16 11:37	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			07/26/16 11:37	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			07/26/16 11:37	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			07/26/16 11:37	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			07/26/16 11:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	84		80 - 120		07/26/16 11:37	1
Dibromofluoromethane (Surr)	103		79 - 120		07/26/16 11:37	1
4-Bromofluorobenzene (Surr)	84		61 - 120		07/26/16 11:37	1
1,2-Dichloroethane-d4 (Surr)	111		78 - 125		07/26/16 11:37	1

Lab Sample ID: LCS 240-239778/4

Matrix: Water

Analysis Batch: 239778

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-Trichloroethane	10.0	12.7	*	ug/L		127	77 - 123
1,2-Dichlorobenzene	10.0	9.46		ug/L		95	79 - 120
1,3-Dichlorobenzene	10.0	9.70		ug/L		97	79 - 120

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

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

Lab Sample ID: LCS 240-239778/4

Matrix: Water

Analysis Batch: 239778

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	10.0	9.68		ug/L		97	79 - 120
Benzene	10.0	9.74		ug/L		97	80 - 120
1,1-Dichloroethane	10.0	9.71		ug/L		97	79 - 125
Bromoform	10.0	13.0	*	ug/L		130	56 - 122
1,2-Dichloroethane	10.0	12.4	*	ug/L		124	80 - 120
1,2-Dichloropropane	10.0	9.85		ug/L		98	78 - 124
Carbon disulfide	10.0	10.1		ug/L		101	65 - 144
1,1,2-Trichloroethane	10.0	9.76		ug/L		98	80 - 120
Chlorobenzene	10.0	9.92		ug/L		99	80 - 120
Acetone	20.0	18.0		ug/L		90	34 - 148
Chloromethane	10.0	7.43		ug/L		74	48 - 133
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	74 - 126
4-Methyl-2-pentanone (MIBK)	20.0	21.5		ug/L		107	64 - 135
Dichlorodifluoromethane	10.0	10.1		ug/L		101	23 - 136
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.4		ug/L		124	67 - 138
Methyl acetate	50.0	49.3		ug/L		99	67 - 131
Methyl tert-butyl ether	10.0	11.4		ug/L		114	69 - 121
Methylene Chloride	10.0	10.5		ug/L		105	77 - 129
Tetrachloroethene	10.0	11.2		ug/L		112	78 - 121
Bromomethane	10.0	16.8	*	ug/L		168	38 - 132
Chlorodibromomethane	10.0	11.7		ug/L		117	74 - 120
Toluene	10.0	9.51		ug/L		95	80 - 120
o-Xylene	10.0	9.91		ug/L		99	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.91		ug/L		99	50 - 132
Styrene	10.0	10.5		ug/L		105	76 - 122
trans-1,2-Dichloroethene	10.0	11.2		ug/L		112	80 - 124
1,1,2,2-Tetrachloroethane	10.0	8.67		ug/L		87	71 - 123
Chloroethane	10.0	9.90		ug/L		99	36 - 126
1,1-Dichloroethene	10.0	10.3		ug/L		103	76 - 124
Trichloroethene	10.0	11.1		ug/L		111	80 - 121
2-Hexanone	20.0	19.5		ug/L		98	55 - 141
2-Butanone (MEK)	20.0	18.4		ug/L		92	56 - 138
Ethylbenzene	10.0	9.74		ug/L		97	80 - 120
Isopropylbenzene	10.0	10.5		ug/L		105	77 - 120
Methylcyclohexane	10.0	9.95		ug/L		100	61 - 134
Trichlorofluoromethane	10.0	15.5	*	ug/L		155	61 - 133
Xylenes, Total	20.0	19.3		ug/L		96	80 - 120
Cyclohexane	10.0	9.35		ug/L		93	60 - 140
trans-1,3-Dichloropropene	10.0	10.2		ug/L		102	75 - 131
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	79 - 120
Chloroform	10.0	11.5		ug/L		115	80 - 120
m-Xylene & p-Xylene	10.0	9.35		ug/L		93	80 - 120
Vinyl chloride	10.0	8.98		ug/L		90	52 - 121
Ethylene Dibromide	10.0	10.7		ug/L		107	80 - 120
Carbon tetrachloride	10.0	13.7	*	ug/L		137	77 - 131
Dichlorobromomethane	10.0	12.1	*	ug/L		121	80 - 120

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

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

Lab Sample ID: LCS 240-239778/4
Matrix: Water
Analysis Batch: 239778

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	87		80 - 120
Dibromofluoromethane (Surr)	100		79 - 120
4-Bromofluorobenzene (Surr)	96		61 - 120
1,2-Dichloroethane-d4 (Surr)	107		78 - 125

Lab Sample ID: MB 240-240005/6
Matrix: Water
Analysis Batch: 240005

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			07/27/16 12:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			07/27/16 12:28	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			07/27/16 12:28	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			07/27/16 12:28	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			07/27/16 12:28	1
Benzene	1.0	U	1.0	0.35	ug/L			07/27/16 12:28	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			07/27/16 12:28	1
Bromoform	1.0	U	1.0	0.56	ug/L			07/27/16 12:28	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			07/27/16 12:28	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			07/27/16 12:28	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			07/27/16 12:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/27/16 12:28	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			07/27/16 12:28	1
Acetone	10	U	10	0.94	ug/L			07/27/16 12:28	1
Chloromethane	1.0	U	1.0	0.44	ug/L			07/27/16 12:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			07/27/16 12:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			07/27/16 12:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			07/27/16 12:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			07/27/16 12:28	1
Methyl acetate	10	U	10	2.3	ug/L			07/27/16 12:28	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			07/27/16 12:28	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			07/27/16 12:28	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			07/27/16 12:28	1
Bromomethane	1.0	U	1.0	0.44	ug/L			07/27/16 12:28	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			07/27/16 12:28	1
Toluene	1.0	U	1.0	0.23	ug/L			07/27/16 12:28	1
o-Xylene	1.0	U	1.0	0.25	ug/L			07/27/16 12:28	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			07/27/16 12:28	1
Styrene	1.0	U	1.0	0.45	ug/L			07/27/16 12:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			07/27/16 12:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			07/27/16 12:28	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/27/16 12:28	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			07/27/16 12:28	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			07/27/16 12:28	1
2-Hexanone	10	U	10	0.48	ug/L			07/27/16 12:28	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			07/27/16 12:28	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			07/27/16 12:28	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			07/27/16 12:28	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

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

Lab Sample ID: MB 240-240005/6

Matrix: Water

Analysis Batch: 240005

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			07/27/16 12:28	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			07/27/16 12:28	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			07/27/16 12:28	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			07/27/16 12:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			07/27/16 12:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/27/16 12:28	1
Chloroform	1.0	U	1.0	0.25	ug/L			07/27/16 12:28	1
m-Xylene & p-Xylene	2.0	U	2.0	0.24	ug/L			07/27/16 12:28	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			07/27/16 12:28	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			07/27/16 12:28	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			07/27/16 12:28	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			07/27/16 12:28	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	82		80 - 120		07/27/16 12:28	1
Dibromofluoromethane (Surr)	97		79 - 120		07/27/16 12:28	1
4-Bromofluorobenzene (Surr)	82		61 - 120		07/27/16 12:28	1
1,2-Dichloroethane-d4 (Surr)	109		78 - 125		07/27/16 12:28	1

Lab Sample ID: LCS 240-240005/4

Matrix: Water

Analysis Batch: 240005

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-Trichloroethane	10.0	12.9	*	ug/L		129	77 - 123
1,2-Dichlorobenzene	10.0	9.19		ug/L		92	79 - 120
1,3-Dichlorobenzene	10.0	9.52		ug/L		95	79 - 120
1,4-Dichlorobenzene	10.0	9.44		ug/L		94	79 - 120
Benzene	10.0	9.64		ug/L		96	80 - 120
1,1-Dichloroethane	10.0	9.79		ug/L		98	79 - 125
Bromoform	10.0	12.2		ug/L		122	56 - 122
1,2-Dichloroethane	10.0	11.8		ug/L		118	80 - 120
1,2-Dichloropropane	10.0	9.90		ug/L		99	78 - 124
Carbon disulfide	10.0	10.6		ug/L		106	65 - 144
1,1,2-Trichloroethane	10.0	9.45		ug/L		95	80 - 120
Chlorobenzene	10.0	9.55		ug/L		96	80 - 120
Acetone	20.0	18.0		ug/L		90	34 - 148
Chloromethane	10.0	6.79		ug/L		68	48 - 133
cis-1,3-Dichloropropene	10.0	10.8		ug/L		108	74 - 126
4-Methyl-2-pentanone (MIBK)	20.0	19.9		ug/L		100	64 - 135
Dichlorodifluoromethane	10.0	8.76		ug/L		88	23 - 136
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.6		ug/L		126	67 - 138
Methyl acetate	50.0	45.7		ug/L		91	67 - 131
Methyl tert-butyl ether	10.0	10.9		ug/L		109	69 - 121
Methylene Chloride	10.0	10.7		ug/L		107	77 - 129
Tetrachloroethene	10.0	11.0		ug/L		110	78 - 121

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

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

Lab Sample ID: LCS 240-240005/4
Matrix: Water
Analysis Batch: 240005

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	10.0	14.2	*	ug/L		142	38 - 132
Chlorodibromomethane	10.0	11.4		ug/L		114	74 - 120
Toluene	10.0	8.89		ug/L		89	80 - 120
o-Xylene	10.0	9.59		ug/L		96	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.28		ug/L		93	50 - 132
Styrene	10.0	10.2		ug/L		102	76 - 122
trans-1,2-Dichloroethene	10.0	11.0		ug/L		110	80 - 124
1,1,2,2-Tetrachloroethane	10.0	8.08		ug/L		81	71 - 123
Chloroethane	10.0	7.66		ug/L		77	36 - 126
1,1-Dichloroethene	10.0	10.5		ug/L		105	76 - 124
Trichloroethene	10.0	11.2		ug/L		112	80 - 121
2-Hexanone	20.0	17.3		ug/L		86	55 - 141
2-Butanone (MEK)	20.0	17.4		ug/L		87	56 - 138
Ethylbenzene	10.0	9.60		ug/L		96	80 - 120
Isopropylbenzene	10.0	10.1		ug/L		101	77 - 120
Methylcyclohexane	10.0	10.3		ug/L		103	61 - 134
Trichlorofluoromethane	10.0	13.9	*	ug/L		139	61 - 133
Xylenes, Total	20.0	18.5		ug/L		92	80 - 120
Cyclohexane	10.0	9.94		ug/L		99	60 - 140
trans-1,3-Dichloropropene	10.0	9.80		ug/L		98	75 - 131
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	79 - 120
Chloroform	10.0	11.1		ug/L		111	80 - 120
m-Xylene & p-Xylene	10.0	8.86		ug/L		89	80 - 120
Vinyl chloride	10.0	8.47		ug/L		85	52 - 121
Ethylene Dibromide	10.0	10.4		ug/L		104	80 - 120
Carbon tetrachloride	10.0	13.8	*	ug/L		138	77 - 131
Dichlorobromomethane	10.0	12.0		ug/L		120	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	85		80 - 120
Dibromofluoromethane (Surr)	104		79 - 120
4-Bromofluorobenzene (Surr)	95		61 - 120
1,2-Dichloroethane-d4 (Surr)	103		78 - 125

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-239141/4
Matrix: Water
Analysis Batch: 239141

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	0.50	U	0.50	0.13	ug/L			07/21/16 13:26	1
Ethane	0.50	U	0.50	0.14	ug/L			07/21/16 13:26	1
Methane	0.50	U	0.50	0.080	ug/L			07/21/16 13:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	102		76 - 121		07/21/16 13:26	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 240-239141/5
Matrix: Water
Analysis Batch: 239141

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethene	349	364		ug/L		104	79 - 132
Ethane	374	398		ug/L		106	76 - 131
Methane	199	178		ug/L		90	80 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,1-Trifluoroethane	109		76 - 121

Lab Sample ID: MB 240-239364/4
Matrix: Water
Analysis Batch: 239364

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	0.50	U	0.50	0.13	ug/L			07/22/16 15:12	1
Ethane	0.50	U	0.50	0.14	ug/L			07/22/16 15:12	1
Methane	0.50	U	0.50	0.080	ug/L			07/22/16 15:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	111		76 - 121		07/22/16 15:12	1

Lab Sample ID: LCS 240-239364/5
Matrix: Water
Analysis Batch: 239364

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethene	349	346		ug/L		99	79 - 132
Ethane	374	386		ug/L		103	76 - 131
Methane	199	172		ug/L		86	80 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,1-Trifluoroethane	107		76 - 121

Lab Sample ID: 240-67371-2 MS
Matrix: Water
Analysis Batch: 239364

Client Sample ID: SWMW-11-071916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethene	58		3490	3500		ug/L		98	60 - 135
Ethane	11		3740	3810		ug/L		102	65 - 126
Methane	6700		1990	8120		ug/L		70	48 - 159

Surrogate	MS %Recovery	MS Qualifier	Limits
1,1,1-Trifluoroethane	106		76 - 121

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 240-67371-2 MSD
Matrix: Water
Analysis Batch: 239364

Client Sample ID: SWMW-11-071916
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Ethene	58		3490	3380		ug/L		95	60 - 135	3		10
Ethane	11		3740	3720		ug/L		99	65 - 126	2		11
Methane	6700		1990	8980		ug/L		113	48 - 159	10		23
Surrogate	%Recovery	MSD Qualifier	Limits									
1,1,1-Trifluoroethane	103		76 - 121									

Lab Sample ID: MB 240-239649/4
Matrix: Water
Analysis Batch: 239649

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethene	0.50	U	0.50	0.13	ug/L			07/25/16 15:25	1
Ethane	0.50	U	0.50	0.14	ug/L			07/25/16 15:25	1
Methane	0.50	U	0.50	0.080	ug/L			07/25/16 15:25	1
Surrogate	%Recovery	MB Qualifier	Limits						
1,1,1-Trifluoroethane	113		76 - 121						

Lab Sample ID: LCS 240-239649/5
Matrix: Water
Analysis Batch: 239649

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
							Limits
Ethene	349	332		ug/L		95	79 - 132
Ethane	374	360		ug/L		96	76 - 131
Methane	199	173		ug/L		87	80 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1,1,1-Trifluoroethane	109		76 - 121				

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 240-239145/1-A
Matrix: Water
Analysis Batch: 239862

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 239145

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	100	U	100	25	ug/L		07/21/16 17:00	07/26/16 14:40	1
Manganese	15	U	15	5.1	ug/L		07/21/16 17:00	07/26/16 14:40	1

Lab Sample ID: LCS 240-239145/2-A
Matrix: Water
Analysis Batch: 239862

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 239145

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
							Limits
Iron	1000	1030		ug/L		103	80 - 120

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-239145/2-A
Matrix: Water
Analysis Batch: 239862

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 239145
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	500	492		ug/L		98	80 - 120

Lab Sample ID: MB 240-239374/1-A
Matrix: Water
Analysis Batch: 239696

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 239374

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	100	U	100	25	ug/L		07/22/16 11:16	07/25/16 14:29	1
Manganese	15	U	15	5.1	ug/L		07/22/16 11:16	07/25/16 14:29	1

Lab Sample ID: LCS 240-239374/2-A
Matrix: Water
Analysis Batch: 239696

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 239374
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	1000	1000		ug/L		100	80 - 120
Manganese	500	510		ug/L		102	80 - 120

Lab Sample ID: 240-67371-4 MS
Matrix: Water
Analysis Batch: 239696

Client Sample ID: SWMW-5I-071916
Prep Type: Total Recoverable
Prep Batch: 239374
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Iron	74000		1000	73500	4	ug/L		-29	75 - 125
Manganese	2700		500	3150	4	ug/L		92	75 - 125

Lab Sample ID: 240-67371-4 MSD
Matrix: Water
Analysis Batch: 239696

Client Sample ID: SWMW-5I-071916
Prep Type: Total Recoverable
Prep Batch: 239374
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Iron	74000		1000	72000	4	ug/L		-180	75 - 125	2	20
Manganese	2700		500	3070	4	ug/L		77	75 - 125	2	20

Lab Sample ID: MB 240-239378/1-A
Matrix: Water
Analysis Batch: 239862

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 239378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	100	U	100	25	ug/L		07/22/16 11:24	07/26/16 14:15	1
Manganese	15	U	15	5.1	ug/L		07/22/16 11:24	07/26/16 14:15	1

Lab Sample ID: LCS 240-239378/2-A
Matrix: Water
Analysis Batch: 239862

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 239378
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	1000	991		ug/L		99	80 - 120
Manganese	500	482		ug/L		96	80 - 120

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-239362/7
Matrix: Water
Analysis Batch: 239362

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	1.9	mg/L			07/21/16 16:05	1

Lab Sample ID: LCS 240-239362/6
Matrix: Water
Analysis Batch: 239362

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	368	380		mg/L		103	90 - 127

Lab Sample ID: MB 240-239580/5
Matrix: Water
Analysis Batch: 239580

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	2.04	J	5.0	1.9	mg/L			07/22/16 14:17	1

Lab Sample ID: LCS 240-239580/4
Matrix: Water
Analysis Batch: 239580

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	368	376		mg/L		102	90 - 127

Lab Sample ID: 240-67328-2 DU
Matrix: Water
Analysis Batch: 239580

Client Sample ID: MW-14B-071816
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	53	B	53.5		mg/L		0.1	20

Lab Sample ID: MB 240-239748/5
Matrix: Water
Analysis Batch: 239748

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	1.9	mg/L			07/25/16 10:34	1

Lab Sample ID: LCS 240-239748/4
Matrix: Water
Analysis Batch: 239748

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	368	413		mg/L		112	90 - 127

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-239032/3
Matrix: Water
Analysis Batch: 239032

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			07/20/16 08:30	1

Lab Sample ID: LCS 240-239032/4
Matrix: Water
Analysis Batch: 239032

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	49.4		mg/L		99	90 - 110

Lab Sample ID: 240-67328-2 MS
Matrix: Water
Analysis Batch: 239032

Client Sample ID: MW-14B-071816
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.6		50.0	55.1		mg/L		107	80 - 120

Lab Sample ID: 240-67328-2 MSD
Matrix: Water
Analysis Batch: 239032

Client Sample ID: MW-14B-071816
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1.6		50.0	56.6		mg/L		110	80 - 120	3	15

Lab Sample ID: MB 240-239446/3
Matrix: Water
Analysis Batch: 239446

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			07/22/16 17:27	1

Lab Sample ID: LCS 240-239446/4
Matrix: Water
Analysis Batch: 239446

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	51.1		mg/L		102	90 - 110

Lab Sample ID: MB 240-239904/27
Matrix: Water
Analysis Batch: 239904

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			07/27/16 16:38	1

Lab Sample ID: LCS 240-239904/28
Matrix: Water
Analysis Batch: 239904

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	49.5		mg/L		99	90 - 110

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Lab Sample ID: 240-67371-2 MS
Matrix: Water
Analysis Batch: 239904

Client Sample ID: SWMW-11-071916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	17		50.0	71.1		mg/L		108	80 - 120

Lab Sample ID: 240-67371-2 MSD
Matrix: Water
Analysis Batch: 239904

Client Sample ID: SWMW-11-071916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	17		50.0	71.0		mg/L		108	80 - 120	0	15

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-239718/37
Matrix: Water
Analysis Batch: 239718

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.0	U	1.0	0.080	mg/L			07/25/16 22:33	1
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			07/25/16 22:33	1

Lab Sample ID: LCS 240-239718/39
Matrix: Water
Analysis Batch: 239718

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	14.4	13.1		mg/L		91	88 - 115
Total Organic Carbon	14.4	13.1		mg/L		91	88 - 115

Lab Sample ID: LLCS 240-239718/38
Matrix: Water
Analysis Batch: 239718

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	7.20	6.94		mg/L		96	88 - 115
Total Organic Carbon	7.20	6.94		mg/L		96	88 - 115

Lab Sample ID: MB 240-240551/37
Matrix: Water
Analysis Batch: 240551

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.0	U	1.0	0.080	mg/L			07/29/16 22:12	1
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			07/29/16 22:12	1

Lab Sample ID: MB 240-240551/4
Matrix: Water
Analysis Batch: 240551

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.0	U	1.0	0.080	mg/L			07/29/16 11:20	1
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			07/29/16 11:20	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 240-240551/39
Matrix: Water
Analysis Batch: 240551

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	14.4	13.1		mg/L		91	88 - 115
Total Organic Carbon	14.4	13.1		mg/L		91	88 - 115

Lab Sample ID: LCS 240-240551/6
Matrix: Water
Analysis Batch: 240551

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	14.4	14.2		mg/L		98	88 - 115
Total Organic Carbon	14.4	14.2		mg/L		98	88 - 115

Lab Sample ID: LLCS 240-240551/38
Matrix: Water
Analysis Batch: 240551

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	7.20	7.03		mg/L		98	88 - 115
Total Organic Carbon	7.20	7.03		mg/L		98	88 - 115

Lab Sample ID: LLCS 240-240551/5
Matrix: Water
Analysis Batch: 240551

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	7.20	7.34		mg/L		102	88 - 115
Total Organic Carbon	7.20	7.34		mg/L		102	88 - 115

Lab Sample ID: 240-67443-5 MS
Matrix: Water
Analysis Batch: 240551

Client Sample ID: BLOCK G OUTFALL-072016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	5.1		25.0	27.6		mg/L		90	72 - 136
Total Organic Carbon	5.1		25.0	27.6		mg/L		90	72 - 136

Lab Sample ID: 240-67443-5 MSD
Matrix: Water
Analysis Batch: 240551

Client Sample ID: BLOCK G OUTFALL-072016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TOC Result 1	5.1		25.0	27.6		mg/L		90	72 - 136	0	20
Total Organic Carbon	5.1		25.0	27.6		mg/L		90	72 - 136	0	20

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-239389/1
Matrix: Water
Analysis Batch: 239389

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L	-		07/22/16 11:45	1

Lab Sample ID: LCS 240-239389/2
Matrix: Water
Analysis Batch: 239389

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	425	426		mg/L	-	100	88 - 110

Lab Sample ID: MB 240-239600/1
Matrix: Water
Analysis Batch: 239600

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L	-		07/25/16 08:52	1

Lab Sample ID: LCS 240-239600/2
Matrix: Water
Analysis Batch: 239600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	425	450		mg/L	-	106	88 - 110

Lab Sample ID: MB 240-239768/1
Matrix: Water
Analysis Batch: 239768

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L	-		07/26/16 08:57	1

Lab Sample ID: LCS 240-239768/2
Matrix: Water
Analysis Batch: 239768

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	425	460		mg/L	-	108	88 - 110

Lab Sample ID: MB 240-239992/1
Matrix: Water
Analysis Batch: 239992

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L	-		07/27/16 09:27	1

Lab Sample ID: LCS 240-239992/2
Matrix: Water
Analysis Batch: 239992

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	425	394		mg/L	-	93	88 - 110

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
 Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Lab Sample ID: 240-67443-5 DU
Matrix: Water
Analysis Batch: 239992

Client Sample ID: BLOCK G OUTFALL-072016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	580		584		mg/L		0.5	20

Lab Sample ID: MB 240-240201/1
Matrix: Water
Analysis Batch: 240201

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L			07/28/16 10:20	1

Lab Sample ID: LCS 240-240201/2
Matrix: Water
Analysis Batch: 240201

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	425	382		mg/L		90	88 - 110

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

GC/MS VOA

Analysis Batch: 239593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67328-1	TB-071816	Total/NA	Water	8260C	
240-67328-2	MW-14B-071816	Total/NA	Water	8260C	
240-67328-3	MW-12B-071816	Total/NA	Water	8260C	
240-67328-4	MW-12A-071816	Total/NA	Water	8260C	
240-67371-1	TB-071916	Total/NA	Water	8260C	
240-67371-2	SWMW-1I-071916	Total/NA	Water	8260C	
240-67371-3	SWMW-2I-071916	Total/NA	Water	8260C	
240-67371-4	SWMW-5I-071916	Total/NA	Water	8260C	
MB 240-239593/6	Method Blank	Total/NA	Water	8260C	
LCS 240-239593/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 239778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67443-1	TB-072016	Total/NA	Water	8260C	
240-67443-2	SWMW-4S-072016	Total/NA	Water	8260C	
240-67443-3	SWMW-4I-072016	Total/NA	Water	8260C	
240-67443-4	SWMW-3I-072016	Total/NA	Water	8260C	
240-67443-5	BLOCK G OUTFALL-072016	Total/NA	Water	8260C	
MB 240-239778/6	Method Blank	Total/NA	Water	8260C	
LCS 240-239778/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 240005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67443-3	SWMW-4I-072016	Total/NA	Water	8260C	
MB 240-240005/6	Method Blank	Total/NA	Water	8260C	
LCS 240-240005/4	Lab Control Sample	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 239141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67328-2	MW-14B-071816	Total/NA	Water	RSK-175	
240-67371-2	SWMW-1I-071916	Total/NA	Water	RSK-175	
240-67371-3	SWMW-2I-071916	Total/NA	Water	RSK-175	
240-67371-4	SWMW-5I-071916	Total/NA	Water	RSK-175	
MB 240-239141/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-239141/5	Lab Control Sample	Total/NA	Water	RSK-175	

Analysis Batch: 239364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67371-2	SWMW-1I-071916	Total/NA	Water	RSK-175	
240-67371-3	SWMW-2I-071916	Total/NA	Water	RSK-175	
240-67371-4	SWMW-5I-071916	Total/NA	Water	RSK-175	
240-67443-3	SWMW-4I-072016	Total/NA	Water	RSK-175	
MB 240-239364/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-239364/5	Lab Control Sample	Total/NA	Water	RSK-175	
240-67371-2 MS	SWMW-1I-071916	Total/NA	Water	RSK-175	
240-67371-2 MSD	SWMW-1I-071916	Total/NA	Water	RSK-175	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

GC VOA (Continued)

Analysis Batch: 239649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67443-3	SWMW-4I-072016	Total/NA	Water	RSK-175	
MB 240-239649/4	Method Blank	Total/NA	Water	RSK-175	
LCS 240-239649/5	Lab Control Sample	Total/NA	Water	RSK-175	

Metals

Prep Batch: 239145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67328-2	MW-14B-071916	Total Recoverable	Water	3005A	
MB 240-239145/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-239145/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 239374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67371-2	SWMW-1I-071916	Total Recoverable	Water	3005A	
240-67371-3	SWMW-2I-071916	Total Recoverable	Water	3005A	
240-67371-4	SWMW-5I-071916	Total Recoverable	Water	3005A	
MB 240-239374/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-239374/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-67371-4 MS	SWMW-5I-071916	Total Recoverable	Water	3005A	
240-67371-4 MSD	SWMW-5I-071916	Total Recoverable	Water	3005A	

Prep Batch: 239378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67443-3	SWMW-4I-072016	Total Recoverable	Water	3005A	
240-67443-4	SWMW-3I-072016	Total Recoverable	Water	3005A	
240-67443-5	BLOCK G OUTFALL-072016	Total Recoverable	Water	3005A	
MB 240-239378/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-239378/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 239696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67371-2	SWMW-1I-071916	Total Recoverable	Water	6010C	239374
240-67371-3	SWMW-2I-071916	Total Recoverable	Water	6010C	239374
240-67371-4	SWMW-5I-071916	Total Recoverable	Water	6010C	239374
MB 240-239374/1-A	Method Blank	Total Recoverable	Water	6010C	239374
LCS 240-239374/2-A	Lab Control Sample	Total Recoverable	Water	6010C	239374
240-67371-4 MS	SWMW-5I-071916	Total Recoverable	Water	6010C	239374
240-67371-4 MSD	SWMW-5I-071916	Total Recoverable	Water	6010C	239374

Analysis Batch: 239862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67328-2	MW-14B-071816	Total Recoverable	Water	6010C	239145
240-67443-3	SWMW-4I-072016	Total Recoverable	Water	6010C	239378
240-67443-4	SWMW-3I-072016	Total Recoverable	Water	6010C	239378
240-67443-5	BLOCK G OUTFALL-072016	Total Recoverable	Water	6010C	239378
MB 240-239145/1-A	Method Blank	Total Recoverable	Water	6010C	239145
MB 240-239378/1-A	Method Blank	Total Recoverable	Water	6010C	239378
LCS 240-239145/2-A	Lab Control Sample	Total Recoverable	Water	6010C	239145
LCS 240-239378/2-A	Lab Control Sample	Total Recoverable	Water	6010C	239378

TestAmerica Canton

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

General Chemistry

Analysis Batch: 239032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67328-2	MW-14B-071816	Total/NA	Water	300.0	
MB 240-239032/3	Method Blank	Total/NA	Water	300.0	
LCS 240-239032/4	Lab Control Sample	Total/NA	Water	300.0	
240-67328-2 MS	MW-14B-071816	Total/NA	Water	300.0	
240-67328-2 MSD	MW-14B-071816	Total/NA	Water	300.0	

Analysis Batch: 239362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67371-2	SWMW-1I-071916	Total/NA	Water	2320B-1997	
240-67371-3	SWMW-2I-071916	Total/NA	Water	2320B-1997	
240-67371-4	SWMW-5I-071916	Total/NA	Water	2320B-1997	
MB 240-239362/7	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-239362/6	Lab Control Sample	Total/NA	Water	2320B-1997	

Analysis Batch: 239389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67328-2	MW-14B-071816	Total/NA	Water	SM 2540C	
MB 240-239389/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-239389/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 239446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67443-3	SWMW-4I-072016	Total/NA	Water	300.0	
240-67443-4	SWMW-3I-072016	Total/NA	Water	300.0	
240-67443-5	BLOCK G OUTFALL-072016	Total/NA	Water	300.0	
MB 240-239446/3	Method Blank	Total/NA	Water	300.0	
LCS 240-239446/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 239580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67328-2	MW-14B-071816	Total/NA	Water	2320B-1997	
MB 240-239580/5	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-239580/4	Lab Control Sample	Total/NA	Water	2320B-1997	
240-67328-2 DU	MW-14B-071816	Total/NA	Water	2320B-1997	

Analysis Batch: 239600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67371-3	SWMW-2I-071916	Total/NA	Water	SM 2540C	
240-67371-4	SWMW-5I-071916	Total/NA	Water	SM 2540C	
MB 240-239600/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-239600/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 239718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67328-2	MW-14B-071816	Total/NA	Water	9060A	
240-67328-3	MW-12B-071816	Total/NA	Water	9060A	
240-67328-4	MW-12A-071816	Total/NA	Water	9060A	
MB 240-239718/37	Method Blank	Total/NA	Water	9060A	
LCS 240-239718/39	Lab Control Sample	Total/NA	Water	9060A	
LLCS 240-239718/38	Lab Control Sample	Total/NA	Water	9060A	

TestAmerica Canton

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

General Chemistry (Continued)

Analysis Batch: 239748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67443-3	SWMW-4I-072016	Total/NA	Water	2320B-1997	
240-67443-4	SWMW-3I-072016	Total/NA	Water	2320B-1997	
240-67443-5	BLOCK G OUTFALL-072016	Total/NA	Water	2320B-1997	
MB 240-239748/5	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-239748/4	Lab Control Sample	Total/NA	Water	2320B-1997	

Analysis Batch: 239768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67443-3	SWMW-4I-072016	Total/NA	Water	SM 2540C	
240-67443-4	SWMW-3I-072016	Total/NA	Water	SM 2540C	
MB 240-239768/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-239768/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 239904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67371-2	SWMW-1I-071916	Total/NA	Water	300.0	
240-67371-3	SWMW-2I-071916	Total/NA	Water	300.0	
240-67371-4	SWMW-5I-071916	Total/NA	Water	300.0	
MB 240-239904/27	Method Blank	Total/NA	Water	300.0	
LCS 240-239904/28	Lab Control Sample	Total/NA	Water	300.0	
240-67371-2 MS	SWMW-1I-071916	Total/NA	Water	300.0	
240-67371-2 MSD	SWMW-1I-071916	Total/NA	Water	300.0	

Analysis Batch: 239992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67443-5	BLOCK G OUTFALL-072016	Total/NA	Water	SM 2540C	
MB 240-239992/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-239992/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-67443-5 DU	BLOCK G OUTFALL-072016	Total/NA	Water	SM 2540C	

Analysis Batch: 240201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67371-2	SWMW-1I-071916	Total/NA	Water	SM 2540C	
MB 240-240201/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-240201/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 240551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67371-2	SWMW-1I-071916	Total/NA	Water	9060A	
240-67371-3	SWMW-2I-071916	Total/NA	Water	9060A	
240-67371-4	SWMW-5I-071916	Total/NA	Water	9060A	
240-67443-2	SWMW-4S-072016	Total/NA	Water	9060A	
240-67443-3	SWMW-4I-072016	Total/NA	Water	9060A	
240-67443-4	SWMW-3I-072016	Total/NA	Water	9060A	
240-67443-5	BLOCK G OUTFALL-072016	Total/NA	Water	9060A	
MB 240-240551/37	Method Blank	Total/NA	Water	9060A	
MB 240-240551/4	Method Blank	Total/NA	Water	9060A	
LCS 240-240551/39	Lab Control Sample	Total/NA	Water	9060A	
LCS 240-240551/6	Lab Control Sample	Total/NA	Water	9060A	
LLCS 240-240551/38	Lab Control Sample	Total/NA	Water	9060A	
LLCS 240-240551/5	Lab Control Sample	Total/NA	Water	9060A	

TestAmerica Canton

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

General Chemistry (Continued)

Analysis Batch: 240551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-67443-5 MS	BLOCK G OUTFALL-072016	Total/NA	Water	9060A	
240-67443-5 MSD	BLOCK G OUTFALL-072016	Total/NA	Water	9060A	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: TB-071816

Date Collected: 07/18/16 00:00

Date Received: 07/19/16 09:45

Lab Sample ID: 240-67328-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239593	07/25/16 14:20	LEE	TAL CAN

Client Sample ID: MW-14B-071816

Date Collected: 07/18/16 10:20

Date Received: 07/19/16 09:45

Lab Sample ID: 240-67328-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239593	07/25/16 14:42	LEE	TAL CAN
Total/NA	Analysis	RSK-175		1	239141	07/21/16 14:18	BPM	TAL CAN
Total Recoverable	Prep	3005A			239145	07/21/16 17:00	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	239862	07/26/16 14:56	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	239580	07/22/16 14:29	LKG	TAL CAN
Total/NA	Analysis	300.0		1	239032	07/20/16 09:03	LCN	TAL CAN
Total/NA	Analysis	9060A		1	239718	07/26/16 01:53	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	239389	07/22/16 11:45	JW	TAL CAN

Client Sample ID: MW-12B-071816

Date Collected: 07/18/16 11:49

Date Received: 07/19/16 09:45

Lab Sample ID: 240-67328-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		15.38	239593	07/25/16 15:05	LEE	TAL CAN
Total/NA	Analysis	9060A		1	239718	07/26/16 02:48	TPH	TAL CAN

Client Sample ID: MW-12A-071816

Date Collected: 07/18/16 16:55

Date Received: 07/19/16 09:45

Lab Sample ID: 240-67328-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239593	07/25/16 15:27	LEE	TAL CAN
Total/NA	Analysis	9060A		1	239718	07/26/16 02:19	TPH	TAL CAN

Client Sample ID: TB-071916

Date Collected: 07/19/16 00:00

Date Received: 07/20/16 09:30

Lab Sample ID: 240-67371-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239593	07/25/16 15:50	LEE	TAL CAN

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: SWMW-1I-071916

Lab Sample ID: 240-67371-2

Date Collected: 07/19/16 10:20

Matrix: Water

Date Received: 07/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239593	07/25/16 16:12	LEE	TAL CAN
Total/NA	Analysis	RSK-175		1	239141	07/21/16 14:35	BPM	TAL CAN
Total/NA	Analysis	RSK-175		10	239364	07/22/16 15:47	BPM	TAL CAN
Total Recoverable	Prep	3005A			239374	07/22/16 11:16	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	239696	07/25/16 14:57	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	239362	07/21/16 20:38	LCN	TAL CAN
Total/NA	Analysis	300.0		1	239904	07/27/16 18:00	LCN	TAL CAN
Total/NA	Analysis	9060A		2	240551	07/29/16 20:59	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	240201	07/28/16 10:20	JW	TAL CAN

Client Sample ID: SWMW-2I-071916

Lab Sample ID: 240-67371-3

Date Collected: 07/19/16 12:19

Matrix: Water

Date Received: 07/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239593	07/25/16 16:34	LEE	TAL CAN
Total/NA	Analysis	RSK-175		1	239141	07/21/16 14:53	BPM	TAL CAN
Total/NA	Analysis	RSK-175		10	239364	07/22/16 16:39	BPM	TAL CAN
Total Recoverable	Prep	3005A			239374	07/22/16 11:16	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	239696	07/25/16 15:01	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	239362	07/21/16 20:52	LCN	TAL CAN
Total/NA	Analysis	300.0		1	239904	07/27/16 18:49	LCN	TAL CAN
Total/NA	Analysis	9060A		1	240551	07/29/16 21:25	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	239600	07/25/16 08:52	JW	TAL CAN

Client Sample ID: SWMW-5I-071916

Lab Sample ID: 240-67371-4

Date Collected: 07/19/16 15:05

Matrix: Water

Date Received: 07/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	239593	07/25/16 16:57	LEE	TAL CAN
Total/NA	Analysis	RSK-175		1	239141	07/21/16 15:10	BPM	TAL CAN
Total/NA	Analysis	RSK-175		10	239364	07/22/16 16:57	BPM	TAL CAN
Total Recoverable	Prep	3005A			239374	07/22/16 11:16	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	239696	07/25/16 14:37	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	239362	07/21/16 21:12	LCN	TAL CAN
Total/NA	Analysis	300.0		1	239904	07/27/16 19:05	LCN	TAL CAN
Total/NA	Analysis	9060A		10	240551	07/29/16 23:22	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	239600	07/25/16 08:52	JW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: TB-072016

Date Collected: 07/20/16 00:00

Date Received: 07/21/16 09:30

Lab Sample ID: 240-67443-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	239778	07/26/16 16:06	LEE	TAL CAN

Client Sample ID: SWMW-4S-072016

Date Collected: 07/20/16 10:18

Date Received: 07/21/16 09:30

Lab Sample ID: 240-67443-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2.86	239778	07/26/16 16:29	LEE	TAL CAN
Total/NA	Analysis	9060A		1	240551	07/30/16 00:48	TPH	TAL CAN

Client Sample ID: SWMW-4I-072016

Date Collected: 07/20/16 11:28

Date Received: 07/21/16 09:30

Lab Sample ID: 240-67443-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		3.33	239778	07/26/16 16:51	LEE	TAL CAN
Total/NA	Analysis	8260C		3.33	240005	07/27/16 13:55	LEE	TAL CAN
Total/NA	Analysis	RSK-175		1	239364	07/22/16 21:00	BPM	TAL CAN
Total/NA	Analysis	RSK-175		20	239649	07/25/16 18:01	BPM	TAL CAN
Total Recoverable	Prep	3005A			239378	07/22/16 11:24	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	239862	07/26/16 14:23	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	239748	07/25/16 15:54	LKG	TAL CAN
Total/NA	Analysis	300.0		5	239446	07/22/16 19:48	LKG	TAL CAN
Total/NA	Analysis	9060A		20	240551	07/30/16 00:18	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	239768	07/26/16 08:57	JW	TAL CAN

Client Sample ID: SWMW-3I-072016

Date Collected: 07/20/16 14:13

Date Received: 07/21/16 09:30

Lab Sample ID: 240-67443-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		6.67	239778	07/26/16 17:14	LEE	TAL CAN
Total Recoverable	Prep	3005A			239378	07/22/16 11:24	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	239862	07/26/16 14:27	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	239748	07/25/16 16:20	LKG	TAL CAN
Total/NA	Analysis	300.0		5	239446	07/22/16 20:08	LKG	TAL CAN
Total/NA	Analysis	9060A		4	240551	07/29/16 23:50	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	239768	07/26/16 08:57	JW	TAL CAN

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Client Sample ID: BLOCK G OUTFALL-072016

Lab Sample ID: 240-67443-5

Date Collected: 07/20/16 15:05

Matrix: Water

Date Received: 07/21/16 09:30

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	8260C		1	239778	07/26/16 17:36	LEE	TAL CAN
Total Recoverable	Prep	3005A			239378	07/22/16 11:24	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	239862	07/26/16 14:31	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	239748	07/25/16 16:31	LKG	TAL CAN
Total/NA	Analysis	300.0		1	239446	07/22/16 20:28	LKG	TAL CAN
Total/NA	Analysis	9060A		1	240551	07/29/16 22:38	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	239992	07/27/16 09:27	JW	TAL CAN

Laboratory References:

Micro = Micro, 10515 Research Dr, Knoxville, TN 37932

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

Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

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	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16
Minnesota	NELAP	5	039-999-348	12-31-16
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-16 *
Texas	NELAP	6	T104704517-15-5	08-31-16 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16 *
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16
Wisconsin	State Program	5	999518190	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Canton

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010C	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9060A	Organic Carbon, Total (TOC)	SW846	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
DHC	General Sub Contract Method	NONE	Micro
DHC (Send unpreserved liter poly)	General Sub Contract Method	NONE	Micro

Protocol References:

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

NONE = NONE

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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.

Laboratory References:

Micro = Micro, 10515 Research Dr, Knoxville, TN 37932

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block G Month Sampling

TestAmerica Job ID: 240-67328-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-67328-1	TB-071816	Water	07/18/16 00:00	07/19/16 09:45
240-67328-2	MW-14B-071816	Water	07/18/16 10:20	07/19/16 09:45
240-67328-3	MW-12B-071816	Water	07/18/16 11:49	07/19/16 09:45
240-67328-4	MW-12A-071816	Water	07/18/16 16:55	07/19/16 09:45
240-67371-1	TB-071916	Water	07/19/16 00:00	07/20/16 09:30
240-67371-2	SWMW-1I-071916	Water	07/19/16 10:20	07/20/16 09:30
240-67371-3	SWMW-2I-071916	Water	07/19/16 12:19	07/20/16 09:30
240-67371-4	SWMW-5I-071916	Water	07/19/16 15:05	07/20/16 09:30
240-67443-1	TB-072016	Water	07/20/16 00:00	07/21/16 09:30
240-67443-2	SWMW-4S-072016	Water	07/20/16 10:18	07/21/16 09:30
240-67443-3	SWMW-4I-072016	Water	07/20/16 11:28	07/21/16 09:30
240-67443-4	SWMW-3I-072016	Water	07/20/16 14:13	07/21/16 09:30
240-67443-5	BLOCK G OUTFALL-072016	Water	07/20/16 15:05	07/21/16 09:30

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: ZPID Analysis Batch Number: 239141Lab Sample ID: 240-67371-2 Client Sample ID: SWMW-1I-071916Date Analyzed: 07/21/16 14:35 Lab File ID: RSK0072108.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.88	Split Peak	matthewsb	07/22/16 06:42
Ethane	2.20	Split Peak	matthewsb	07/22/16 06:42

Lab Sample ID: 240-67371-3 Client Sample ID: SWMW-2I-071916Date Analyzed: 07/21/16 14:53 Lab File ID: RSK0072109.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.88	Split Peak	matthewsb	07/22/16 06:43

Lab Sample ID: 240-67371-4 Client Sample ID: SWMW-5I-071916Date Analyzed: 07/21/16 15:10 Lab File ID: RSK0072110.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.88	Incomplete Integration	matthewsb	07/22/16 06:43
Ethane	2.19	Incomplete Integration	matthewsb	07/22/16 06:43
1,1,1-Trifluoroethane	3.34	Incomplete Integration	matthewsb	07/22/16 06:43

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: ZPID Analysis Batch Number: 239364

Lab Sample ID: 240-67371-2 Client Sample ID: SWMW-1I-071916

Date Analyzed: 07/22/16 15:47 Lab File ID: RSK0072206.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.88	Incomplete Integration	matthewsb	07/25/16 06:36

Lab Sample ID: 240-67443-3 Client Sample ID: SWMW-4I-072016

Date Analyzed: 07/22/16 21:00 Lab File ID: RSK0072224.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.88	Incomplete Integration	matthewsb	07/25/16 06:39

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: ZPID Analysis Batch Number: 239649

Lab Sample ID: 240-67443-3 Client Sample ID: SWMW-4I-072016

Date Analyzed: 07/25/16 18:01 Lab File ID: RSK0072513.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.88	Split Peak	matthewsb	07/26/16 06:50

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: SIMON Analysis Batch Number: 235930

Lab Sample ID: STD1 240-235930/2 IC Client Sample ID: _____

Date Analyzed: 06/24/16 18:13 Lab File ID: 2240-0055739-002.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.93	Peak not integrated	grossman1	06/25/16 10:31

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: VERONICA Analysis Batch Number: 235787

Lab Sample ID: STD1 240-235787/1 IC Client Sample ID: _____

Date Analyzed: 06/23/16 16:01 Lab File ID: 2240-0055705-001.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.08	Peak not integrated	grossman1	06/24/16 12:29

Lab Sample ID: STD2 240-235787/2 IC Client Sample ID: _____

Date Analyzed: 06/23/16 16:21 Lab File ID: 3240-0055705-002.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.08	Peak not integrated	grossman1	06/24/16 12:29

Lab Sample ID: STD3 240-235787/3 IC Client Sample ID: _____

Date Analyzed: 06/23/16 16:41 Lab File ID: 4240-0055705-003.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.09	Peak not integrated	grossman1	06/24/16 12:29
Chloride	6.06	Peak not integrated	grossman1	06/24/16 12:29

Lab Sample ID: STD4 240-235787/4 IC Client Sample ID: _____

Date Analyzed: 06/23/16 17:01 Lab File ID: 5240-0055705-004.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.09	Peak not integrated	grossman1	06/24/16 12:29

Lab Sample ID: STD5 240-235787/5 ICRT Client Sample ID: _____

Date Analyzed: 06/23/16 17:21 Lab File ID: 6240-0055705-005.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.09	Peak not integrated	grossman1	06/24/16 12:30

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: VERONICA Analysis Batch Number: 235787

Lab Sample ID: STD6 240-235787/6 IC Client Sample ID: _____

Date Analyzed: 06/23/16 17:42 Lab File ID: 7240-0055705-006.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.09	Peak not integrated	grossman1	06/24/16 12:30

Lab Sample ID: STD7 240-235787/7 IC Client Sample ID: _____

Date Analyzed: 06/23/16 18:02 Lab File ID: 8240-0055705-007.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.09	Peak not integrated	grossman1	06/24/16 12:30

Lab Sample ID: STD8 240-235787/8 IC Client Sample ID: _____

Date Analyzed: 06/23/16 18:22 Lab File ID: 9240-0055705-008.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.14	Peak not integrated	grossman1	06/24/16 12:30

Lab Sample ID: STD9 240-235787/9 IC Client Sample ID: _____

Date Analyzed: 06/23/16 18:42 Lab File ID: 10240-0055705-009.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.11	Peak not integrated	grossman1	06/24/16 12:30

Lab Sample ID: ICV 240-235787/10 Client Sample ID: _____

Date Analyzed: 06/23/16 19:02 Lab File ID: 11240-0055705-010.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.10	Peak not integrated	grossman1	06/24/16 12:30

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: VERONICA Analysis Batch Number: 239446

Lab Sample ID: CCV 240-239446/1 Client Sample ID: _____

Date Analyzed: 07/22/16 16:46 Lab File ID: 2240-0056448-001.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	4.08	Peak not integrated	grossman1	07/25/16 07:12

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MT6500ICV_00032	10/01/16	06/20/16	DIWATER, Lot DIWATER	1000 mL	MTTRICV1_00006	5 mL	Iron	12500 ug/L
.MTTRICV1_00006	10/01/16		CPI, Lot 1080445		MTTRICV3_00007	6 mL	Manganese	1500 ug/L
.MTTRICV3_00007	01/01/17		CPI, Lot 1084215		(Purchased Reagent)		Iron	2500 ug/mL
					(Purchased Reagent)		Manganese	250 mg/L
MTAGSPIKEW_00060	06/09/17	06/21/16	DIWATER, Lot DIWATER	1000 mL	MTAG_00006	2.5 mL	Ag	2500 ug/L
.MTAG_00006	06/09/17		HIGH PURITY STANDARDS, Lot 1507504		MTTMHNO3_00089	50 mL	Nitric acid	50000000 ug/L
.MTTMHNO3_00089	06/07/18		Macron/Avantor, Lot 0000138698		(Purchased Reagent)		Ag	1000 ug/mL
					(Purchased Reagent)		Nitric acid	100 %
MTICP1_00053	06/21/18	06/21/16	DIWATER, Lot DI WATER	1000 mL	MTICPSPIKE1A_00010	50 mL	Al	100000 ug/L
							As	100000 ug/L
							B	50000 ug/L
							Ba	100000 ug/L
							Be	2500 ug/L
							Cd	2500 ug/L
							Co	25000 ug/L
							Cr	10000 ug/L
							Cu	12500 ug/L
							Iron	50000 ug/L
							Manganese	25000 ug/L
							Ni	25000 ug/L
							Pb	25000 ug/L
							Se	100000 ug/L
							Tl	100000 ug/L
							V	25000 ug/L
							Zn	25000 ug/L
					MTICPSPIKEB_00009	50 mL	Mo	50000 ug/L
							Sb	25000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00006	50 mL	Li	50000 ug/L
							Si	50000 ug/L
							SiO2	107000 ug/L
							Sr	50000 ug/L
					MTTMHNO3_00086	50 mL	Nitric acid	50000000 ug/L
.MTICPSPIKE1A_00010	12/09/16		High Purity Standards, Lot 1534135		(Purchased Reagent)		Al	2000 ug/mL
							As	2000 ug/mL
							B	1000 ug/mL
							Ba	2000 ug/mL
							Be	50 ug/mL
							Cd	50 ug/mL
							Co	500 ug/mL
							Cr	200 ug/mL
							Cu	250 ug/mL
							Iron	1000 ug/mL
							Manganese	500 ug/mL
							Ni	500 ug/mL
							Pb	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							Se	2000 ug/mL		
							Tl	2000 ug/mL		
							V	500 ug/mL		
							Zn	500 ug/mL		
.MTICPSPIKEB_00009	12/09/16		High Purity Standards, Lot 1534137			(Purchased Reagent)	Mo	1000 ug/mL		
							Sb	500 ug/mL		
							Sn	2000 ug/mL		
							Ti	1000 ug/mL		
.MTICPSpikeOdd_00006	12/09/16		High Purity Standards, Lot 1534138			(Purchased Reagent)	Li	1000 ug/mL		
							Si	1000 ug/mL		
							SiO2	2140 ug/mL		
							Sr	1000 ug/mL		
.MTTMHNO3_00086	05/03/18		Macron/Avantor, Lot 0000129810			(Purchased Reagent)	Nitric acid	100 %		
MTICP2A_00061	04/08/17	06/21/16	DIWATER, Lot DIWATER	1000 mL	MTTMHNO3_00086	50 mL	Nitric acid	50000 mg/L		
							MTTRCAL2_00014	250 mL	Ca	2500 mg/L
									K	2500 mg/L
									Mg	2500 mg/L
									Na	2500 mg/L
.MTTMHNO3_00086	05/03/18		Macron/Avantor, Lot 0000129810			(Purchased Reagent)	Nitric acid	100 %		
.MTTRCAL2_00014	04/08/17		HIGH PURITY STANDARDS, Lot 1603418			(Purchased Reagent)	Ca	10000 ug/mL		
							K	10000 ug/mL		
							Mg	10000 ug/mL		
							Na	10000 ug/mL		
MTICPCCV_00075	01/08/17	07/08/16	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00013	200 mL	Iron	25000 ug/L		
							Manganese	2000 ug/L		
.MTICPCCV1_00013	04/21/19		INORGANIC VENTURES, Lot K2-MEB632080			(Purchased Reagent)	Iron	250000 ug/L		
							Manganese	20000 ug/L		
MTICPICSABW_00011	12/03/16	06/03/16	DIWATER, Lot DIWATER	1000 mL	MTICPICSAB1_00005	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		
							Cd	1000 ug/L		
							Co	500 ug/L		
							Cr	500 ug/L		
							Cu	500 ug/L		
							Iron	200000 ug/L		
							K	10000 ug/L		
							Li	500 ug/L		
							Manganese	500 ug/L		
							Mg	500000 ug/L		
							Na	10000 ug/L		
							Ni	1000 ug/L		
							Pb	1000 ug/L		
							Se	1000 ug/L		
							Sr	1500 ug/L		

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tl	1000 ug/L
							V	500 ug/L
							Zn	1000 ug/L
					MTICPICSAB2_00005	100 mL	Ag	1000 ug/L
							Mo	1000 ug/L
							Sb	1000 ug/L
							Si	10000 ug/L
							Sn	500 ug/L
							Ti	500 ug/L
.MTICPICSAB1_00005	01/01/17		INORGANIC VENTURES, Lot J2-MEB612071				Al	5000000 ug/L
					(Purchased Reagent)		As	10000 ug/L
							B	5000 ug/L
							Ba	5000 ug/L
							Be	5000 ug/L
							Ca	5000000 ug/L
							Cd	10000 ug/L
							Co	5000 ug/L
							Cr	5000 ug/L
							Cu	5000 ug/L
							Iron	2000000 ug/L
							K	100000 ug/L
							Li	5000 ug/L
							Manganese	5000 ug/L
							Mg	5000000 ug/L
							Na	100000 ug/L
							Ni	10000 ug/L
							Pb	10000 ug/L
							Se	10000 ug/L
							Sr	15000 ug/L
							Tl	10000 ug/L
							V	5000 ug/L
							Zn	10000 ug/L
.MTICPICSAB2_00005	01/01/17		INORGANIC VENTURES, Lot J2-MEB612072				Ag	10000 ug/L
					(Purchased Reagent)		Mo	10000 ug/L
							Sb	10000 ug/L
							Si	100000 ug/L
							Sn	5000 ug/L
							Ti	5000 ug/L
MTTMHCL_00117	07/11/18		Fisher, Lot 4115120				Hydrogen Chloride	100 %
MTTMHNO3_00091	07/06/18		Macron/Avantor, Lot 0000138698				Nitric acid	100 %
MTTRCRIC_00037	12/24/16	06/24/16	DIWATER, Lot DIWATER	500 mL	MTTRCRI6010C_00013	25 mL	Iron	200 ug/L
							Manganese	15 ug/L
.MTTRCRI6010C_00013	01/01/17		Inorganic Ventures, Lot J2-MEB612074				Iron	4000 ug/L
					(Purchased Reagent)		Manganese	300 ug/L
MTTRICSAW_00031	01/20/17	07/20/16	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00014	100 mL	Al	500000 ug/L
							Ca	500000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iron	200000 ug/L
							Mg	500000 ug/L
.MTTRICSA_00014	04/02/18		INORGANIC VENTURES, Lot J2-MEB572053		(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Iron	2000 ug/mL
							Mg	5000 ug/mL
SAICALSURR_00009	07/14/16		Matheson Trigas, Lot 109-46-10609		(Purchased Reagent)		1,1,1-Trifluoroethane	172158 ug/L
SARSK2NDSRCE_00010	10/13/18		Air Liquide-Scott Specialty gases, Lot 403-120156		(Purchased Reagent)		Ethane	12338 ug/L
							Ethene	11518 ug/L
							Methane	6558 ug/L
SARSKHIGHCALP_00007	09/18/17		Matheson Trigas, Lot 109-56-13135		(Purchased Reagent)		Acetylene	10657 ug/L
							Ethane	12338 ug/L
							Ethene	11518 ug/L
							Methane	6558 ug/L
							Propane	18077 ug/L
SARSKLOWCAL_00008	09/18/17		MATHESON TRI-GAS INC., Lot 109-56-13136		(Purchased Reagent)		Acetylene	1066 ug/L
							Ethane	1234 ug/L
							Ethene	1152 ug/L
							Methane	656 ug/L
							Propane	1808 ug/L
SARSKSURR_00009	11/19/16		Matheson Trigas, Lot 9302603973		(Purchased Reagent)		1,1,1-Trifluoroethane	11190 ug/L
VM50IS_00054	08/03/16	02/03/16	MEOH, Lot 118655	100 mL	vm30241_00002	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00002	11/30/19		restek, Lot A0107133		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00244	06/09/16	06/02/16	MEOH, Lot na	2 mL	vm50ss_stk_00069	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_00069	10/18/16	04/19/16	MEOH, Lot 0000118655	200 mL	VM567650_00023	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_00023	06/30/19		Restek, Lot A0104073		(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_00070	12/17/16	06/17/16	MEOH, Lot 0000118655	200 mL	VM567650_00023	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_00023	06/30/19		Restek, Lot A0104073		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW 00151	06/09/16	06/02/16	MEOH, Lot na	3 mL	VMACROLSTD_00037	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00037	06/30/16	06/02/16	MEOH, Lot 0000127999	20 mL	VM568720_00012	250 uL	Acrolein	250 ug/mL
..VM568720_00012	06/30/16		restek, Lot A0117486		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00158	06/07/16	05/31/16	MEOH, Lot NA	2 mL	VMFASG_00045	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_00045	06/30/16	05/31/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063		(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
VMFASGW_00166	07/31/16	07/25/16	MEOH, Lot NA	2 mL	VMFASG_00046	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_00046	07/31/16	06/30/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063		(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
VMFASPW_00157	06/08/16	06/01/16	MEOH, Lot n/a	2 mL	VMRFASP_00030	2 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

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Lab Name: TestAmerica Canton

Job No.: 240-67328-1

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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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
							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
.VMRFASP_00030	06/30/16	05/31/16	MEOH, Lot +173000000127999JM	100 mL	VM569720S_00001	2 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

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Job No.: 240-67328-1

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-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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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							
Xylenes, Total	100 ug/mL							
					VM569721S_00001	0.8 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM569720S_00001	01/31/17		Restek, Lot A0108163			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	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		
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
trans-1,3-Dichloropropene	2500 ug/mL							
Trichloroethene	2500 ug/mL							
Xylenes, Total	5000 ug/mL							
..VM569721S_00001	01/31/18		Restek, Lot A0108157		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMFASPW_00165	07/31/16	07/25/16	MEOH, Lot n/a	2 mL	VMRFASP_00031	2 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
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,4-Trichlorobenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

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
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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
							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
.VMRFASP_00031	07/31/16	06/30/16	MEOH, Lot 0000127999	100 mL	VM569720S_00001	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

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
							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
							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
							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
Xylenes, Total	100 ug/mL							
..VM569720S_00001	01/31/17		Restek, Lot A0108163		VM569721S_00001	0.8 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
trans-1,2-Dichloroethene	2500 ug/mL							
trans-1,3-Dichloropropene	2500 ug/mL							
Trichloroethene	2500 ug/mL							
Xylenes, Total	5000 ug/mL							
..VM569721S_00001	01/31/18		Restek, Lot A0108157		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMRA9W_00160	06/10/16	06/03/16	MEOH, Lot NA	1 mL	VMRA9_00016	1 mL	Cyclohexanone	500 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
							2-Methylnaphthalene	100 ug/mL
							Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
.VMRA9_00016	06/30/16	03/30/16	MEOH, Lot 00000118655	50 mL	VM567648_00015	1.25 mL	Cyclohexanone	500 ug/mL							
					vm569725_00005	1 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									
					vm569726_00002	2 mL	2-Methylnaphthalene	100 ug/mL							
					VM569728_00001	1 mL	Acetonitrile	500 ug/mL							
					..VM567648_00015	02/28/17		Restek, Lot A0101574			(Purchased Reagent)	Cyclohexanone	20000 ug/mL		
1,2,3-Trimethylbenzene	2500 ug/mL														
..vm569725_00005	06/30/16		restek, Lot A0115808			(Purchased Reagent)	1,3,5-Trichlorobenzene	2500 ug/mL							
							1-Chlorohexane	2500 ug/mL							
							2-Chloro-1,3-butadiene	2500 ug/mL							
							2-Nitropropane	5000 ug/mL							
							Ethyl acetate	5000 ug/mL							
							Ethyl acrylate	2500 ug/mL							
							Methacrylonitrile	25000 ug/mL							
							Methyl methacrylate	5000 ug/mL							
							n-Butanol	62500 ug/mL							
							n-Butyl acetate	2500 ug/mL							
							..vm569726_00002	01/31/17		Restek, Lot A0108210			(Purchased Reagent)	2-Methylnaphthalene	2500 ug/mL
							..VM569728_00001	04/30/17		restek, Lot A0110540			(Purchased Reagent)	Acetonitrile	25000 ug/mL
Isopropyl ether	2500 ug/mL														
Propionitrile	25000 ug/mL														
Tert-amyl methyl ether	2500 ug/mL														
Tert-butyl ethyl ether	2500 ug/mL														
VMRA9W_00168	08/01/16	07/25/16	MEOH, Lot NA	1 mL	VMRA9_00017	1 mL	1,3,5-Trichlorobenzene	50 ug/mL							
.VMRA9_00017	01/01/17	07/01/16	MEOH, Lot 00000127999	50 mL	VM570808_00001	1 mL	1,3,5-Trichlorobenzene	50 ug/mL							
..VM570808_00001	06/30/17		Restek, Lot A0116133			(Purchased Reagent)	1,3,5-Trichlorobenzene	2500 ug/mL							
VMRGAS_00156	06/09/16	06/02/16	MEOH, Lot 0000127999	10 mL	vm569722_00006	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							
							Trichlorofluoromethane	50 ug/mL							
Vinyl chloride	50 ug/mL														

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.vm569722_00006	10/31/18		Restek, Lot A0115012			(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_00162	07/28/16	07/21/16	MEOH, Lot 0000127999	10 mL	vm569722_00006	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_00006	10/31/18		Restek, Lot A0115012			(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_00188	06/07/16	05/31/16	MEOH, Lot NA	1 mL	VMRPRIM_00017	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
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
2-Methyl-2-propanol	500 ug/mL							
3-Chloro-1-propene	50 ug/mL							
4-Chlorotoluene	50 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

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	100 ug/mL
							Vinyl acetate	50 ug/mL
.VMRPRIM_00017	06/30/16	05/31/16	MEOH, Lot +173000000127999JM	50 mL	VM569720_00001	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
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 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
							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-Dichloropropane	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

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-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-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							
					VM569721_00001	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00001	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00004	0.5 mL	Vinyl acetate	50 ug/mL
..VM569720_00001	01/31/17		Restek, Lot A0108166			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..VM569721_00001	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00001	01/31/18		restek, Lot A0108172		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00004	06/30/16		Restek, Lot A0115764		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VMRPRIMW_00196	08/01/16	07/25/16	MEOH, Lot NA	1 mL	VMRPRIM_00018	1 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
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	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
							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
.VMRPRIM_00018	09/30/16	07/01/16	MEOH, Lot 0000127999	50 mL	VM569720_00001	1 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
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

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
							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
							Xylenes, Total	100 ug/mL
					VM569721_00001	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM569720_00001	01/31/17		Restek, Lot A0108166			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..VM569721_00001	04/30/18		Restek, Lot A0110400			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
WC L-LCS_00002	01/07/17	07/07/16	DIWATER, Lot 222	1 L	WCWIBBYDEMAND_00008	500 mL	TOC Result 1	7.2 mg/L
							Total Organic Carbon	7.2 mg/L
.WCWIBBYDEMAND_00008	11/30/18		Phenova, Lot 8162-07			(Purchased Reagent)	TOC Result 1	14.4 mL
							Total Organic Carbon	14.4 mL
WC LCS_00051	01/07/17	07/07/16	DIWATER, Lot 222	1 L	WCWIBBYDEMAND_00008	1000 mL	TOC Result 1	14.4 mg/L
							Total Organic Carbon	14.4 mg/L
.WCWIBBYDEMAND_00008	11/30/18		Phenova, Lot 8162-07			(Purchased Reagent)	TOC Result 1	14.4 mL
							Total Organic Carbon	14.4 mL
WC TOC CCV_00313	08/01/16	07/25/16	DIWATER, Lot 2222	250 mL	WCCARBON1000_00029	6.25 mL	TOC Result 1	25 mg/L
							Total Organic Carbon	25 mg/L
.WCCARBON1000_00029	06/22/18		Absolute Standards, Lot 062216			(Purchased Reagent)	TOC Result 1	1000 mg/L
							Total Organic Carbon	1000 mg/L
WC TOC CCV_00314	08/05/16	07/29/16	DIWATER, Lot 2222	250 mL	WCCARBON1000_00029	6.25 mL	TOC Result 1	25 mg/L
							Total Organic Carbon	25 mg/L
.WCCARBON1000_00029	06/22/18		Absolute Standards, Lot 062216			(Purchased Reagent)	TOC Result 1	1000 mg/L
							Total Organic Carbon	1000 mg/L
WC TOC CCVL_00107	08/01/16	07/25/16	DIWATER, Lot xxx	250 mL	WCCARBON1000_00029	1.25 mL	TOC Result 1	5 mg/L
							Total Organic Carbon	5 mg/L
.WCCARBON1000_00029	06/22/18		Absolute Standards, Lot 062216			(Purchased Reagent)	TOC Result 1	1000 mg/L
							Total Organic Carbon	1000 mg/L
WC TOC CCVL_00108	08/05/16	07/29/16	DIWATER, Lot xxx	250 mL	WCCARBON1000_00029	1.25 mL	TOC Result 1	5 mg/L
							Total Organic Carbon	5 mg/L
.WCCARBON1000_00029	06/22/18		Absolute Standards, Lot 062216			(Purchased Reagent)	TOC Result 1	1000 mg/L
							Total Organic Carbon	1000 mg/L
WCALKMSMSD_00016	10/31/18		HACH, Lot A5295			(Purchased Reagent)	Alkalinity	25000 mg/L
WCICCALSO LN_00262	06/30/16	06/23/16	ELUENT, Lot 1847588	20 mL	WCICSO LN1_00015	1.6 mL	Bromide	40 mg/L
							Chloride	200 mg/L
							Fluoride	10 mg/L
							Sulfate	200 mg/L
.WCICSO LN1_00015	06/06/19		Inorganic Ventures, Lot K2-MEB636034			(Purchased Reagent)	Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Sulfate	2500 ug/mL
WCICCALSO LN_00263	07/01/16	06/24/16	ELUENT, Lot 2588137	20 mL	WCICSO LN1_00014	1.6 mL	Bromide	40 mg/L
							Chloride	200 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoride	10 mg/L
							Sulfate	200 mg/L
.WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142		(Purchased Reagent)		Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Sulfate	2500 ug/mL
WCICCCV_00701	07/22/16	07/15/16	ELUENT, Lot 2588137	100 mL	WCICSOLNA1_00015	2 mL	Sulfate	50 mg/L
.WCICSOLNA1_00015	06/06/19		Inorganic Ventures, Lot K2-MEB636034		(Purchased Reagent)		Sulfate	2500 ug/mL
WCICCCV_00703	07/29/16	07/22/16	ELUENT, Lot 2588137	100 mL	WCICSOLNA1_00015	2 mL	Sulfate	50 mg/L
.WCICSOLNA1_00015	06/06/19		Inorganic Ventures, Lot K2-MEB636034		(Purchased Reagent)		Sulfate	2500 ug/mL
WCICCCV_00704	07/29/16	07/22/16	ELUENT, Lot 2522229	100 mL	WCICSOLNA1_00015	2 mL	Sulfate	50 mg/L
.WCICSOLNA1_00015	06/06/19		Inorganic Ventures, Lot K2-MEB636034		(Purchased Reagent)		Sulfate	2500 ug/mL
WCICLCS_00538	06/29/16	06/22/16	ELUENT, Lot 2522229	100 mL	WCICSOLNA2_00016	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831		(Purchased Reagent)		Sulfate	500 ug/mL
WCICLCS_00539	06/30/16	06/23/16	ELUENT, Lot 2522229	100 mL	WCICSOLNA2_00016	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831		(Purchased Reagent)		Sulfate	500 ug/mL
WCICLCS_00544	07/22/16	07/15/16	ELUENT, Lot 2588137	100 mL	WCICSOLNA2_00016	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831		(Purchased Reagent)		Sulfate	500 ug/mL
WCICLCS_00546	07/29/16	07/22/16	ELUENT, Lot 2588137	100 mL	WCICSOLNA2_00016	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831		(Purchased Reagent)		Sulfate	500 ug/mL
WCICLCS_00547	07/29/16	07/22/16	ELUENT, Lot 2522229	100 mL	WCICSOLNA2_00016	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831		(Purchased Reagent)		Sulfate	500 ug/mL
WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142		(Purchased Reagent)		Sulfate	2500 ug/mL
WCPHENOMINER_00015	05/31/18		PHENOVA-WIBBY, Lot 8156-08		(Purchased Reagent)		Alkalinity	368 mg/L
WCPHENOVOLID_00016	08/31/18		PHENOVA- WIBBY, Lot 8159-09		(Purchased Reagent)		Total Dissolved Solids	425 mg/L

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

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-071816	240-67328-1	102	114	81	80
MW-14B-071816	240-67328-2	101	114	85	85
MW-12B-071816	240-67328-3	101	111	83	86
MW-12A-071816	240-67328-4	103	114	85	82
TB-071916	240-67371-1	102	113	84	83
SWMW-1I-071916	240-67371-2	102	116	86	85
SWMW-2I-071916	240-67371-3	100	108	87	87
SWMW-5I-071916	240-67371-4	100	112	86	84
TB-072016	240-67443-1	105	118	84	83
SWMW-4S-072016	240-67443-2	102	115	83	83
SWMW-4I-072016	240-67443-3	104	117	84	81
SWMW-4I-072016	240-67443-3	103	108	84	86
SWMW-3I-072016	240-67443-4	103	115	82	84
BLOCK G OUTFALL-072016	240-67443-5	103	117	83	84
	MB 240-239593/6	96	110	85	83
	MB 240-239778/6	103	111	84	84
	MB 240-240005/6	97	109	82	82
	LCS 240-239593/4	100	105	87	96
	LCS 240-239778/4	100	107	87	96
	LCS 240-240005/4	104	103	85	95
	240-67437-B-4 MS	102	110	85	95
	240-67437-E-5 MS	106	112	89	97
	240-67437-B-11 MS	103	105	88	95
	240-67437-B-4 MSD	103	108	88	99
	240-67437-H-5 MSD	103	106	88	96
	240-67437-B-11 MSD	98	99	88	93

QC LIMITS

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

79-120
78-125
80-120
61-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXR3481.D

Lab ID: LCS 240-239593/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,3-Trichlorobenzene	10.0	9.65	97	66-120	
1,2,4-Trichlorobenzene	10.0	8.62	86	61-120	
1,1,1-Trichloroethane	10.0	12.9	129	77-123	*
1,2-Dichlorobenzene	10.0	9.51	95	79-120	
1,3-Dichlorobenzene	10.0	9.73	97	79-120	
1,4-Dichlorobenzene	10.0	9.51	95	79-120	
Benzene	10.0	9.63	96	80-120	
1,1-Dichloroethane	10.0	9.83	98	79-125	
Bromoform	10.0	13.7	137	56-122	*
1,2-Dichloroethane	10.0	11.9	119	80-120	
1,2-Dichloropropane	10.0	9.81	98	78-124	
Carbon disulfide	10.0	10.3	103	65-144	
1,1,2-Trichloroethane	10.0	9.91	99	80-120	
Chlorobenzene	10.0	9.76	98	80-120	
Acetone	20.0	18.0	90	34-148	
Chloromethane	10.0	7.92	79	48-133	
cis-1,3-Dichloropropene	10.0	10.8	108	74-126	
4-Methyl-2-pentanone (MIBK)	20.0	21.6	108	64-135	
Dichlorodifluoromethane	10.0	10.4	104	23-136	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.9	129	67-138	
Methyl acetate	50.0	48.7	97	67-131	
Methyl tert-butyl ether	10.0	11.4	114	69-121	
Methylene Chloride	10.0	10.8	108	77-129	
Tetrachloroethene	10.0	11.7	117	78-121	
Bromomethane	10.0	17.0	170	38-132	*
Chlorodibromomethane	10.0	11.6	116	74-120	
Toluene	10.0	9.56	96	80-120	
o-Xylene	10.0	9.84	98	80-120	
1,2-Dibromo-3-Chloropropane	10.0	10.7	107	50-132	
Styrene	10.0	10.3	103	76-122	
trans-1,2-Dichloroethene	10.0	11.1	111	80-124	
1,1,2,2-Tetrachloroethane	10.0	8.50	85	71-123	
Chloroethane	10.0	10.0	100	36-126	
1,1-Dichloroethene	10.0	10.7	107	76-124	
Trichloroethene	10.0	11.3	113	80-121	
2-Hexanone	20.0	19.1	96	55-141	
2-Butanone (MEK)	20.0	17.9	89	56-138	
Ethylbenzene	10.0	9.84	98	80-120	
Isopropylbenzene	10.0	10.6	106	77-120	
Methylcyclohexane	10.0	10.5	105	61-134	
Trichlorofluoromethane	10.0	15.5	155	61-133	*

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR3481.D
 Lab ID: LCS 240-239593/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Xylenes, Total	20.0	19.1	96	80-120	
Cyclohexane	10.0	10.1	101	60-140	
trans-1,3-Dichloropropene	10.0	10.6	106	75-131	
cis-1,2-Dichloroethene	10.0	10.4	104	79-120	
Chloroform	10.0	11.1	111	80-120	
m-Xylene & p-Xylene	10.0	9.27	93	80-120	
Vinyl chloride	10.0	9.35	93	52-121	
Ethylene Dibromide	10.0	11.0	110	80-120	
Carbon tetrachloride	10.0	14.1	141	77-131	*
Dichlorobromomethane	10.0	11.9	119	80-120	

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.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXR3509.D

Lab ID: LCS 240-239778/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,4-Trichlorobenzene	10.0	8.88	89	61-120	
1,1,1-Trichloroethane	10.0	12.7	127	77-123	*
1,2-Dichlorobenzene	10.0	9.46	95	79-120	
1,3-Dichlorobenzene	10.0	9.70	97	79-120	
1,4-Dichlorobenzene	10.0	9.68	97	79-120	
Benzene	10.0	9.74	97	80-120	
1,1-Dichloroethane	10.0	9.71	97	79-125	
Bromoform	10.0	13.0	130	56-122	*
1,2-Dichloroethane	10.0	12.4	124	80-120	*
1,2-Dichloropropane	10.0	9.85	98	78-124	
Carbon disulfide	10.0	10.1	101	65-144	
1,1,2-Trichloroethane	10.0	9.76	98	80-120	
Chlorobenzene	10.0	9.92	99	80-120	
Acetone	20.0	18.0	90	34-148	
Chloromethane	10.0	7.43	74	48-133	
cis-1,3-Dichloropropene	10.0	10.6	106	74-126	
4-Methyl-2-pentanone (MIBK)	20.0	21.5	107	64-135	
Dichlorodifluoromethane	10.0	10.1	101	23-136	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.4	124	67-138	
Methyl acetate	50.0	49.3	99	67-131	
Methyl tert-butyl ether	10.0	11.4	114	69-121	
Methylene Chloride	10.0	10.5	105	77-129	
Tetrachloroethene	10.0	11.2	112	78-121	
Bromomethane	10.0	16.8	168	38-132	*
Chlorodibromomethane	10.0	11.7	117	74-120	
Toluene	10.0	9.51	95	80-120	
o-Xylene	10.0	9.91	99	80-120	
1,2-Dibromo-3-Chloropropane	10.0	9.91	99	50-132	
Styrene	10.0	10.5	105	76-122	
trans-1,2-Dichloroethene	10.0	11.2	112	80-124	
1,1,2,2-Tetrachloroethane	10.0	8.67	87	71-123	
Chloroethane	10.0	9.90	99	36-126	
1,1-Dichloroethene	10.0	10.3	103	76-124	
Trichloroethene	10.0	11.1	111	80-121	
2-Hexanone	20.0	19.5	98	55-141	
2-Butanone (MEK)	20.0	18.4	92	56-138	
Ethylbenzene	10.0	9.74	97	80-120	
Isopropylbenzene	10.0	10.5	105	77-120	
Methylcyclohexane	10.0	9.95	100	61-134	
Trichlorofluoromethane	10.0	15.5	155	61-133	*
Xylenes, Total	20.0	19.3	96	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXR3509.D

Lab ID: LCS 240-239778/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Cyclohexane	10.0	9.35	93	60-140	
trans-1,3-Dichloropropene	10.0	10.2	102	75-131	
cis-1,2-Dichloroethene	10.0	10.8	108	79-120	
Chloroform	10.0	11.5	115	80-120	
m-Xylene & p-Xylene	10.0	9.35	93	80-120	
Vinyl chloride	10.0	8.98	90	52-121	
Ethylene Dibromide	10.0	10.7	107	80-120	
Carbon tetrachloride	10.0	13.7	137	77-131	*
Dichlorobromomethane	10.0	12.1	121	80-120	*

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.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXR3539.D

Lab ID: LCS 240-240005/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,4-Trichlorobenzene	10.0	8.34	83	61-120	
1,1,1-Trichloroethane	10.0	12.9	129	77-123	*
1,2-Dichlorobenzene	10.0	9.19	92	79-120	
1,3-Dichlorobenzene	10.0	9.52	95	79-120	
1,4-Dichlorobenzene	10.0	9.44	94	79-120	
Benzene	10.0	9.64	96	80-120	
1,1-Dichloroethane	10.0	9.79	98	79-125	
Bromoform	10.0	12.2	122	56-122	
1,2-Dichloroethane	10.0	11.8	118	80-120	
1,2-Dichloropropane	10.0	9.90	99	78-124	
Carbon disulfide	10.0	10.6	106	65-144	
1,1,2-Trichloroethane	10.0	9.45	95	80-120	
Chlorobenzene	10.0	9.55	96	80-120	
Acetone	20.0	18.0	90	34-148	
Chloromethane	10.0	6.79	68	48-133	
cis-1,3-Dichloropropene	10.0	10.8	108	74-126	
4-Methyl-2-pentanone (MIBK)	20.0	19.9	100	64-135	
Dichlorodifluoromethane	10.0	8.76	88	23-136	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.6	126	67-138	
Methyl acetate	50.0	45.7	91	67-131	
Methyl tert-butyl ether	10.0	10.9	109	69-121	
Methylene Chloride	10.0	10.7	107	77-129	
Tetrachloroethene	10.0	11.0	110	78-121	
Bromomethane	10.0	14.2	142	38-132	*
Chlorodibromomethane	10.0	11.4	114	74-120	
Toluene	10.0	8.89	89	80-120	
o-Xylene	10.0	9.59	96	80-120	
1,2-Dibromo-3-Chloropropane	10.0	9.28	93	50-132	
Styrene	10.0	10.2	102	76-122	
trans-1,2-Dichloroethene	10.0	11.0	110	80-124	
1,1,2,2-Tetrachloroethane	10.0	8.08	81	71-123	
Chloroethane	10.0	7.66	77	36-126	
1,1-Dichloroethene	10.0	10.5	105	76-124	
Trichloroethene	10.0	11.2	112	80-121	
2-Hexanone	20.0	17.3	86	55-141	
2-Butanone (MEK)	20.0	17.4	87	56-138	
Ethylbenzene	10.0	9.60	96	80-120	
Isopropylbenzene	10.0	10.1	101	77-120	
Methylcyclohexane	10.0	10.3	103	61-134	
Trichlorofluoromethane	10.0	13.9	139	61-133	*
Xylenes, Total	20.0	18.5	92	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXR3539.D

Lab ID: LCS 240-240005/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Cyclohexane	10.0	9.94	99	60-140	
trans-1,3-Dichloropropene	10.0	9.80	98	75-131	
cis-1,2-Dichloroethene	10.0	10.4	104	79-120	
Chloroform	10.0	11.1	111	80-120	
m-Xylene & p-Xylene	10.0	8.86	89	80-120	
Vinyl chloride	10.0	8.47	85	52-121	
Ethylene Dibromide	10.0	10.4	104	80-120	
Carbon tetrachloride	10.0	13.8	138	77-131	*
Dichlorobromomethane	10.0	12.0	120	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXR3506.D

Lab ID: 240-67437-B-4 MS

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,2,4-Trichlorobenzene	10000	1000 U	7690	77	48-120	
1,1,1-Trichloroethane	10000	1000 U	11600	116	69-122	
1,2-Dichlorobenzene	10000	1000 U	9200	92	67-118	
1,3-Dichlorobenzene	10000	1000 U	9160	92	65-120	
1,4-Dichlorobenzene	10000	1000 U	9380	94	66-120	
Benzene	10000	1000 U	9470	95	73-121	
1,1-Dichloroethane	10000	1000 U	9380	94	73-124	
Bromoform	10000	1000 U	12400	124	45-121	F1
1,2-Dichloroethane	10000	1000 U	12200	122	74-125	
1,2-Dichloropropane	10000	1000 U	9210	92	73-122	
Carbon disulfide	10000	1000 U	8740	87	54-144	
1,1,2-Trichloroethane	10000	1000 U	9480	95	72-125	
Chlorobenzene	10000	1000 U	9380	94	72-120	
Acetone	20000	10000 U	17500	87	32-126	
Chloromethane	10000	1000 U	6920	69	39-134	
cis-1,3-Dichloropropene	10000	1000 U	10100	101	60-120	
4-Methyl-2-pentanone (MIBK)	20000	10000 U	20000	100	58-136	
Dichlorodifluoromethane	10000	1000 U	5690	57	14-137	
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	1000 U	5580	56	44-140	
Methyl acetate	50000	10000 U	47300	95	64-124	
Methyl tert-butyl ether	10000	1000 U	10900	109	61-121	
Methylene Chloride	10000	1000 U	10300	103	70-124	
Tetrachloroethene	10000	1000 U	9660	97	59-125	
Bromomethane	10000	1000 U	14400	144	26-136	F1
Chlorodibromomethane	10000	1000 U	11400	114	62-122	
Toluene	10000	1000 U	8890	89	72-122	
o-Xylene	10000	1000 U	9320	93	68-121	
1,2-Dibromo-3-Chloropropane	10000	2000 U	9620	96	42-130	
Styrene	10000	1000 U	10000	100	64-126	
trans-1,2-Dichloroethene	10000	1000 U	10600	106	72-125	
1,1,2,2-Tetrachloroethane	10000	1000 U	8310	83	61-130	
Chloroethane	10000	1000 U	9210	92	27-131	
1,1-Dichloroethene	10000	1000 U	9270	93	67-124	
Trichloroethene	10000	1000 U	10800	108	61-129	
2-Hexanone	20000	10000 U	18300	91	49-142	
2-Butanone (MEK)	20000	10000 U	18000	90	49-132	
Ethylbenzene	10000	1000 U	9180	92	68-121	
Isopropylbenzene	10000	1000 U	9240	92	61-122	
Methylcyclohexane	10000	1000 U	4390	44	39-135	
Trichlorofluoromethane	10000	1000 U	10100	101	49-133	
Xylenes, Total	20000	2000 U	17900	89	67-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR3506.D
 Lab ID: 240-67437-B-4 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Cyclohexane	10000	1000 U	4490	45	41-137	
trans-1,3-Dichloropropene	10000	1000 U	9390	94	58-132	
cis-1,2-Dichloroethene	10000	10000	19900	99	66-124	
Chloroform	10000	1000 U	11300	113	73-121	
m-Xylene & p-Xylene	10000	2000 U	8560	86	66-123	
Vinyl chloride	10000	17000	24300	74	44-122	
Ethylene Dibromide	10000	1000 U	10500	105	69-125	
Carbon tetrachloride	10000	1000 U	11200	112	65-129	
Dichlorobromomethane	10000	1000 U	11300	113	72-120	

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.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXR3534.D

Lab ID: 240-67437-E-5 MS

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,2,4-Trichlorobenzene	10.0	1.0 U	6.41	64	48-120	
1,1,1-Trichloroethane	10.0	1.0 U	10.7	107	69-122	
1,2-Dichlorobenzene	10.0	1.0 U	8.16	82	67-118	
1,3-Dichlorobenzene	10.0	1.0 U	8.09	81	65-120	
1,4-Dichlorobenzene	10.0	1.0 U	7.92	79	66-120	
Benzene	10.0	1.0 U	8.60	86	73-121	
1,1-Dichloroethane	10.0	1.0 U	8.76	88	73-124	
Bromoform	10.0	1.0 U	10.6	106	45-121	
1,2-Dichloroethane	10.0	1.0 U	11.5	115	74-125	
1,2-Dichloropropane	10.0	1.0 U	8.87	89	73-122	
Carbon disulfide	10.0	1.0 U	8.86	89	54-144	
1,1,2-Trichloroethane	10.0	1.0 U	9.14	91	72-125	
Chlorobenzene	10.0	1.0 U	8.41	84	72-120	
Acetone	20.0	10 U	16.6	83	32-126	
Chloromethane	10.0	1.0 U	4.96	50	39-134	
cis-1,3-Dichloropropene	10.0	1.0 U	8.05	80	60-120	
4-Methyl-2-pentanone (MIBK)	20.0	10 U	19.3	97	58-136	
Dichlorodifluoromethane	10.0	1.0 U	6.95	70	14-137	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	1.0 U	8.87	89	44-140	
Methyl acetate	50.0	10 U	43.5	87	64-124	
Methyl tert-butyl ether	10.0	1.0 U	10.2	102	61-121	
Methylene Chloride	10.0	1.0 U	9.08	91	70-124	
Tetrachloroethene	10.0	1.0 U	9.10	91	59-125	
Bromomethane	10.0	1.0 U	11.4	114	26-136	
Chlorodibromomethane	10.0	1.0 U	10.3	103	62-122	
Toluene	10.0	1.0 U	8.07	81	72-122	
o-Xylene	10.0	1.0 U	8.16	82	68-121	
1,2-Dibromo-3-Chloropropane	10.0	2.0 U	8.78	88	42-130	
Styrene	10.0	1.0 U	8.94	89	64-126	
trans-1,2-Dichloroethene	10.0	1.0 U	9.91	99	72-125	
1,1,2,2-Tetrachloroethane	10.0	1.0 U	7.93	79	61-130	
Chloroethane	10.0	1.0 U	11.2	112	27-131	
1,1-Dichloroethene	10.0	1.0 U	8.71	87	67-124	
Trichloroethene	10.0	1.0 U	9.79	98	61-129	
2-Hexanone	20.0	10 U	16.9	84	49-142	
2-Butanone (MEK)	20.0	10 U	16.5	82	49-132	
Ethylbenzene	10.0	1.0 U	7.86	79	68-121	
Isopropylbenzene	10.0	1.0 U	8.28	83	61-122	
Methylcyclohexane	10.0	1.0 U	6.73	67	39-135	
Trichlorofluoromethane	10.0	1.0 U	9.72	97	49-133	
Xylenes, Total	20.0	2.0 U	15.8	79	67-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR3534.D
 Lab ID: 240-67437-E-5 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Cyclohexane	10.0	1.0 U	6.43	64	41-137	
trans-1,3-Dichloropropene	10.0	1.0 U	7.82	78	58-132	
cis-1,2-Dichloroethene	10.0	1.0 U	9.57	96	66-124	
Chloroform	10.0	1.0 U	10.5	105	73-121	
m-Xylene & p-Xylene	10.0	2.0 U	7.67	77	66-123	
Vinyl chloride	10.0	1.0 U	7.83	78	44-122	
Ethylene Dibromide	10.0	1.0 U	9.83	98	69-125	
Carbon tetrachloride	10.0	1.0 U	11.2	112	65-129	
Dichlorobromomethane	10.0	1.0 U	10.8	108	72-120	

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.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXR3563.D

Lab ID: 240-67437-B-11 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,2,4-Trichlorobenzene	25000	2500 U	18700	75	48-120	
1,1,1-Trichloroethane	25000	2500 U	30500	122	69-122	
1,2-Dichlorobenzene	25000	2500 U	22700	91	67-118	
1,3-Dichlorobenzene	25000	2500 U	22900	91	65-120	
1,4-Dichlorobenzene	25000	2500 U	22700	91	66-120	
Benzene	25000	2500 U	23600	94	73-121	
1,1-Dichloroethane	25000	2500 U	23300	93	73-124	
Bromoform	25000	2500 U	30600	122	45-121	F1
1,2-Dichloroethane	25000	2500 U	29300	117	74-125	
1,2-Dichloropropane	25000	2500 U	22500	90	73-122	
Carbon disulfide	25000	2500 U	24600	99	54-144	
1,1,2-Trichloroethane	25000	2500 U	24100	96	72-125	
Chlorobenzene	25000	2500 U	23400	93	72-120	
Acetone	50000	25000 U	40700	81	32-126	
Chloromethane	25000	2500 U	14600	58	39-134	
cis-1,3-Dichloropropene	25000	2500 U	23800	95	60-120	
4-Methyl-2-pentanone (MIBK)	50000	25000 U	46300	93	58-136	
Dichlorodifluoromethane	25000	2500 U	12000	48	14-137	
1,1,2-Trichloro-1,2,2-trifluoroethane	25000	2500 U	19100	77	44-140	
Methyl acetate	125000	25000 U	109000	87	64-124	
Methyl tert-butyl ether	25000	2500 U	25900	104	61-121	
Methylene Chloride	25000	2500 U	25800	103	70-124	
Tetrachloroethene	25000	2500 U	26700	107	59-125	
Bromomethane	25000	2500 U	36200	145	26-136	F1
Chlorodibromomethane	25000	2500 U	28100	113	62-122	
Toluene	25000	2500 U	22700	91	72-122	
o-Xylene	25000	2500 U	23600	94	68-121	
1,2-Dibromo-3-Chloropropane	25000	5000 U	20600	82	42-130	
Styrene	25000	2500 U	25400	102	64-126	
trans-1,2-Dichloroethene	25000	2500 U	26900	107	72-125	
1,1,2,2-Tetrachloroethane	25000	2500 U	19800	79	61-130	
Chloroethane	25000	2500 U	19400	78	27-131	
1,1-Dichloroethene	25000	2500 U	24100	97	67-124	
Trichloroethene	25000	1500 J	28900	110	61-129	
2-Hexanone	50000	25000 U	42000	84	49-142	
2-Butanone (MEK)	50000	25000 U	42100	84	49-132	
Ethylbenzene	25000	2500 U	23000	92	68-121	
Isopropylbenzene	25000	2500 U	24400	98	61-122	
Methylcyclohexane	25000	2500 U	15800	63	39-135	
Trichlorofluoromethane	25000	2500 U	22100	88	49-133	
Xylenes, Total	50000	5000 U	45600	91	67-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR3563.D
 Lab ID: 240-67437-B-11 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Cyclohexane	25000	2500 U	15600	62	41-137	
trans-1,3-Dichloropropene	25000	2500 U	23200	93	58-132	
cis-1,2-Dichloroethene	25000	58000	79100	86	66-124	
Chloroform	25000	2500 U	27900	112	73-121	
m-Xylene & p-Xylene	25000	5000 U	22000	88	66-123	
Vinyl chloride	25000	6300	25100	75	44-122	
Ethylene Dibromide	25000	2500 U	26500	106	69-125	
Carbon tetrachloride	25000	2500 U	32200	129	65-129	
Dichlorobromomethane	25000	2500 U	29000	116	72-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR3507.D
 Lab ID: 240-67437-B-4 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,2,4-Trichlorobenzene	10000	8230	82	7	28	48-120	
1,1,1-Trichloroethane	10000	11600	116	0	14	69-122	
1,2-Dichlorobenzene	10000	9360	94	2	15	67-118	
1,3-Dichlorobenzene	10000	9180	92	0	15	65-120	
1,4-Dichlorobenzene	10000	9140	91	3	16	66-120	
Benzene	10000	9400	94	1	13	73-121	
1,1-Dichloroethane	10000	9380	94	0	14	73-124	
Bromoform	10000	12600	126	1	19	45-121	F1
1,2-Dichloroethane	10000	12100	121	1	24	74-125	
1,2-Dichloropropane	10000	9240	92	0	15	73-122	
Carbon disulfide	10000	8940	89	2	34	54-144	
1,1,2-Trichloroethane	10000	9740	97	3	19	72-125	
Chlorobenzene	10000	9250	92	1	15	72-120	
Acetone	20000	17700	89	1	28	32-126	
Chloromethane	10000	6830	68	1	20	39-134	
cis-1,3-Dichloropropene	10000	9820	98	3	21	60-120	
4-Methyl-2-pentanone (MIBK)	20000	20000	100	0	32	58-136	
Dichlorodifluoromethane	10000	8690	87	42	34	14-137	F2
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	11000	110	65	35	44-140	F2
Methyl acetate	50000	47200	94	0	12	64-124	
Methyl tert-butyl ether	10000	10800	108	1	12	61-121	
Methylene Chloride	10000	10300	103	0	14	70-124	
Tetrachloroethene	10000	10400	104	8	20	59-125	
Bromomethane	10000	13400	134	7	35	26-136	
Chlorodibromomethane	10000	10900	109	4	19	62-122	
Toluene	10000	8910	89	0	15	72-122	
o-Xylene	10000	9350	94	0	14	68-121	
1,2-Dibromo-3-Chloropropane	10000	9650	97	0	24	42-130	
Styrene	10000	9990	100	0	15	64-126	
trans-1,2-Dichloroethene	10000	10500	105	0	25	72-125	
1,1,2,2-Tetrachloroethane	10000	8510	85	2	18	61-130	
Chloroethane	10000	6940	69	28	35	27-131	
1,1-Dichloroethene	10000	9810	98	6	24	67-124	
Trichloroethene	10000	10600	106	2	14	61-129	
2-Hexanone	20000	19000	95	4	27	49-142	
2-Butanone (MEK)	20000	17700	89	2	19	49-132	
Ethylbenzene	10000	9200	92	0	16	68-121	
Isopropylbenzene	10000	9580	96	4	20	61-122	
Methylcyclohexane	10000	8430	84	63	35	39-135	F2
Trichlorofluoromethane	10000	12400	124	21	25	49-133	
Xylenes, Total	20000	18100	90	1	14	67-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR3507.D
 Lab ID: 240-67437-B-4 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Cyclohexane	10000	7860	79	55	35	41-137	F2
trans-1,3-Dichloropropene	10000	9600	96	2	22	58-132	
cis-1,2-Dichloroethene	10000	20000	100	1	22	66-124	
Chloroform	10000	11200	112	1	17	73-121	
m-Xylene & p-Xylene	10000	8710	87	2	15	66-123	
Vinyl chloride	10000	25400	85	4	35	44-122	
Ethylene Dibromide	10000	10800	108	3	24	69-125	
Carbon tetrachloride	10000	12000	120	6	20	65-129	
Dichlorobromomethane	10000	11500	115	2	19	72-120	

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.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXR3535.D

Lab ID: 240-67437-H-5 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,2,4-Trichlorobenzene	10.0	7.56	76	16	28	48-120	
1,1,1-Trichloroethane	10.0	11.0	110	3	14	69-122	
1,2-Dichlorobenzene	10.0	8.35	84	2	15	67-118	
1,3-Dichlorobenzene	10.0	8.51	85	5	15	65-120	
1,4-Dichlorobenzene	10.0	8.44	84	6	16	66-120	
Benzene	10.0	8.87	89	3	13	73-121	
1,1-Dichloroethane	10.0	8.89	89	2	14	73-124	
Bromoform	10.0	10.5	105	0	19	45-121	
1,2-Dichloroethane	10.0	11.1	111	3	24	74-125	
1,2-Dichloropropane	10.0	8.75	88	1	15	73-122	
Carbon disulfide	10.0	9.17	92	3	34	54-144	
1,1,2-Trichloroethane	10.0	9.49	95	4	19	72-125	
Chlorobenzene	10.0	8.70	87	3	15	72-120	
Acetone	20.0	16.4	82	1	28	32-126	
Chloromethane	10.0	4.95	50	0	20	39-134	
cis-1,3-Dichloropropene	10.0	8.64	86	7	21	60-120	
4-Methyl-2-pentanone (MIBK)	20.0	19.5	97	1	32	58-136	
Dichlorodifluoromethane	10.0	8.21	82	17	34	14-137	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.2	102	14	35	44-140	
Methyl acetate	50.0	42.9	86	1	12	64-124	
Methyl tert-butyl ether	10.0	10.4	104	2	12	61-121	
Methylene Chloride	10.0	9.28	93	2	14	70-124	
Tetrachloroethene	10.0	10.1	101	10	20	59-125	
Bromomethane	10.0	7.85	79	37	35	26-136	F2
Chlorodibromomethane	10.0	10.0	100	3	19	62-122	
Toluene	10.0	8.44	84	4	15	72-122	
o-Xylene	10.0	8.79	88	7	14	68-121	
1,2-Dibromo-3-Chloropropane	10.0	8.97	90	2	24	42-130	
Styrene	10.0	9.28	93	4	15	64-126	
trans-1,2-Dichloroethene	10.0	9.94	99	0	25	72-125	
1,1,2,2-Tetrachloroethane	10.0	8.05	81	2	18	61-130	
Chloroethane	10.0	5.54	55	68	35	27-131	F2
1,1-Dichloroethene	10.0	9.29	93	6	24	67-124	
Trichloroethene	10.0	9.89	99	1	14	61-129	
2-Hexanone	20.0	16.7	84	1	27	49-142	
2-Butanone (MEK)	20.0	15.9	80	4	19	49-132	
Ethylbenzene	10.0	8.68	87	10	16	68-121	
Isopropylbenzene	10.0	9.05	91	9	20	61-122	
Methylcyclohexane	10.0	7.99	80	17	35	39-135	
Trichlorofluoromethane	10.0	11.3	113	15	25	49-133	
Xylenes, Total	20.0	16.9	85	7	14	67-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR3535.D
 Lab ID: 240-67437-H-5 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Cyclohexane	10.0	7.85	79	20	35	41-137	
trans-1,3-Dichloropropene	10.0	8.38	84	7	22	58-132	
cis-1,2-Dichloroethene	10.0	9.76	98	2	22	66-124	
Chloroform	10.0	10.5	105	0	17	73-121	
m-Xylene & p-Xylene	10.0	8.13	81	6	15	66-123	
Vinyl chloride	10.0	7.71	77	2	35	44-122	
Ethylene Dibromide	10.0	10.3	103	5	24	69-125	
Carbon tetrachloride	10.0	11.7	117	4	20	65-129	
Dichlorobromomethane	10.0	10.8	108	0	19	72-120	

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.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXR3564.D

Lab ID: 240-67437-B-11 MSD

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,2,4-Trichlorobenzene	25000	19000	76	1	28	48-120	
1,1,1-Trichloroethane	25000	29500	118	3	14	69-122	
1,2-Dichlorobenzene	25000	21900	88	4	15	67-118	
1,3-Dichlorobenzene	25000	22200	89	3	15	65-120	
1,4-Dichlorobenzene	25000	22500	90	1	16	66-120	
Benzene	25000	23400	94	1	13	73-121	
1,1-Dichloroethane	25000	23600	94	1	14	73-124	
Bromoform	25000	28800	115	6	19	45-121	
1,2-Dichloroethane	25000	27100	108	8	24	74-125	
1,2-Dichloropropane	25000	23400	94	4	15	73-122	
Carbon disulfide	25000	26800	107	9	34	54-144	
1,1,2-Trichloroethane	25000	21700	87	10	19	72-125	
Chlorobenzene	25000	22900	92	2	15	72-120	
Acetone	50000	37700	75	8	28	32-126	
Chloromethane	25000	17200	69	16	20	39-134	
cis-1,3-Dichloropropene	25000	25200	101	6	21	60-120	
4-Methyl-2-pentanone (MIBK)	50000	36400	73	24	32	58-136	
Dichlorodifluoromethane	25000	18600	75	43	34	14-137	F2
1,1,2-Trichloro-1,2,2-trifluoroethane	25000	26600	106	33	35	44-140	
Methyl acetate	125000	89600	72	20	12	64-124	F2
Methyl tert-butyl ether	25000	23600	94	9	12	61-121	
Methylene Chloride	25000	27100	108	5	14	70-124	
Tetrachloroethene	25000	26500	106	1	20	59-125	
Bromomethane	25000	34600	139	4	35	26-136	F1
Chlorodibromomethane	25000	27400	110	2	19	62-122	
Toluene	25000	22600	90	1	15	72-122	
o-Xylene	25000	23000	92	3	14	68-121	
1,2-Dibromo-3-Chloropropane	25000	17700	71	15	24	42-130	
Styrene	25000	24400	98	4	15	64-126	
trans-1,2-Dichloroethene	25000	26800	107	0	25	72-125	
1,1,2,2-Tetrachloroethane	25000	16800	67	16	18	61-130	
Chloroethane	25000	18900	76	3	35	27-131	
1,1-Dichloroethene	25000	26500	106	9	24	67-124	
Trichloroethene	25000	28600	108	1	14	61-129	
2-Hexanone	50000	30700	61	31	27	49-142	F2
2-Butanone (MEK)	50000	32900	66	24	19	49-132	F2
Ethylbenzene	25000	22400	89	3	16	68-121	
Isopropylbenzene	25000	24000	96	1	20	61-122	
Methylcyclohexane	25000	20900	83	27	35	39-135	
Trichlorofluoromethane	25000	30200	121	31	25	49-133	F2
Xylenes, Total	50000	44500	89	2	14	67-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXR3564.D

Lab ID: 240-67437-B-11 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Cyclohexane	25000	19600	79	23	35	41-137	
trans-1,3-Dichloropropene	25000	23000	92	1	22	58-132	
cis-1,2-Dichloroethene	25000	80900	93	2	22	66-124	
Chloroform	25000	27200	109	3	17	73-121	
m-Xylene & p-Xylene	25000	21500	86	3	15	66-123	
Vinyl chloride	25000	26100	79	4	35	44-122	
Ethylene Dibromide	25000	23100	92	14	24	69-125	
Carbon tetrachloride	25000	32900	131	2	20	65-129	F1
Dichlorobromomethane	25000	28700	115	1	19	72-120	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab File ID: UXR3484.D Lab Sample ID: MB 240-239593/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX17 Date Analyzed: 07/25/2016 10:26
 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 240-239593/4	UXR3481.D	07/25/2016 09:18
TB-071816	240-67328-1	UXR3493.D	07/25/2016 14:20
MW-14B-071816	240-67328-2	UXR3494.D	07/25/2016 14:42
MW-12B-071816	240-67328-3	UXR3495.D	07/25/2016 15:05
MW-12A-071816	240-67328-4	UXR3496.D	07/25/2016 15:27
TB-071916	240-67371-1	UXR3497.D	07/25/2016 15:50
SWMW-1I-071916	240-67371-2	UXR3498.D	07/25/2016 16:12
SWMW-2I-071916	240-67371-3	UXR3499.D	07/25/2016 16:34
SWMW-5I-071916	240-67371-4	UXR3500.D	07/25/2016 16:57
	240-67437-B-4 MS	UXR3506.D	07/25/2016 19:11
	240-67437-B-4 MSD	UXR3507.D	07/25/2016 19:34

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab File ID: UXR3512.D Lab Sample ID: MB 240-239778/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX17 Date Analyzed: 07/26/2016 11:37
 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 240-239778/4	UXR3509.D	07/26/2016 10:29
TB-072016	240-67443-1	UXR3524.D	07/26/2016 16:06
SWMW-4S-072016	240-67443-2	UXR3525.D	07/26/2016 16:29
SWMW-4I-072016	240-67443-3	UXR3526.D	07/26/2016 16:51
SWMW-3I-072016	240-67443-4	UXR3527.D	07/26/2016 17:14
BLOCK G OUTFALL-072016	240-67443-5	UXR3528.D	07/26/2016 17:36
	240-67437-E-5 MS	UXR3534.D	07/26/2016 19:50
	240-67437-H-5 MSD	UXR3535.D	07/26/2016 20:13

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab File ID: UXR3542.D Lab Sample ID: MB 240-240005/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX17 Date Analyzed: 07/27/2016 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 240-240005/4	UXR3539.D	07/27/2016 11:21
SWMW-4I-072016	240-67443-3	UXR3545.D	07/27/2016 13:55
	240-67437-B-11 MS	UXR3563.D	07/27/2016 20:39
	240-67437-B-11 MSD	UXR3564.D	07/28/2016 01:26

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

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab File ID: BFB1120.D BFB Injection Date: 06/06/2016
 Instrument ID: A3UX17 BFB Injection Time: 16:10
 Analysis Batch No.: 233329

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	46.6
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	92.0
175	5.0 - 9.0 % of mass 174	6.4 (6.9) 1
176	95.0 - 101.0 % of mass 174	90.8 (98.8) 1
177	5.0 - 9.0 % of mass 176	6.1 (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 240-233329/2	UXR2588.D	06/06/2016	17:07
	STD8260 240-233329/3	UXR2589.D	06/06/2016	17:29
	STD8260 240-233329/4	UXR2590.D	06/06/2016	17:52
	STD8260 240-233329/5	UXR2591.D	06/06/2016	18:14
	STD8260 240-233329/6	UXR2592.D	06/06/2016	18:36
	STD8260 240-233329/7	UXR2593.D	06/06/2016	18:59
	ICV 240-233329/8	UXR2594.D	06/06/2016	19:21
	STDA9 240-233329/9	UXR2595.D	06/06/2016	19:44
	STDA9 240-233329/10	UXR2596.D	06/06/2016	20:06
	STDA9 240-233329/11	UXR2597.D	06/06/2016	20:28
	STDA9 240-233329/12	UXR2598.D	06/06/2016	20:51
	STDA9 240-233329/13	UXR2599.D	06/06/2016	21:13
	STDA9 240-233329/14	UXR2600.D	06/06/2016	21:36
	ICV 240-233329/15	UXR2601.D	06/06/2016	21:58

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

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab File ID: BFB1164.D BFB Injection Date: 07/25/2016
 Instrument ID: A3UX17 BFB Injection Time: 08:27
 Analysis Batch No.: 239593

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.0
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	6.8
173	Less than 2.0 % of mass 174	0.4 (0.4) 1
174	50.0 - 120.00 % of mass 95	109.0
175	5.0 - 9.0 % of mass 174	7.6 (6.9) 1
176	95.0 - 101.0 % of mass 174	105.1 (96.5) 1
177	5.0 - 9.0 % of mass 176	6.7 (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 240-239593/2	UXR3480.D	07/25/2016	08:56
	LCS 240-239593/4	UXR3481.D	07/25/2016	09:18
	CCV 240-239593/3	UXR3482.D	07/25/2016	09:41
	MB 240-239593/6	UXR3484.D	07/25/2016	10:26
TB-071816	240-67328-1	UXR3493.D	07/25/2016	14:20
MW-14B-071816	240-67328-2	UXR3494.D	07/25/2016	14:42
MW-12B-071816	240-67328-3	UXR3495.D	07/25/2016	15:05
MW-12A-071816	240-67328-4	UXR3496.D	07/25/2016	15:27
TB-071916	240-67371-1	UXR3497.D	07/25/2016	15:50
SWMW-1I-071916	240-67371-2	UXR3498.D	07/25/2016	16:12
SWMW-2I-071916	240-67371-3	UXR3499.D	07/25/2016	16:34
SWMW-5I-071916	240-67371-4	UXR3500.D	07/25/2016	16:57
	240-67437-B-4 MS	UXR3506.D	07/25/2016	19:11
	240-67437-B-4 MSD	UXR3507.D	07/25/2016	19:34

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

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab File ID: BFB1165.D BFB Injection Date: 07/26/2016
 Instrument ID: A3UX17 BFB Injection Time: 09:23
 Analysis Batch No.: 239778

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	47.9	
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	107.9	
175	5.0 - 9.0 % of mass 174	7.6	(7.0) 1
176	95.0 - 101.0 % of mass 174	105.3	(97.6) 1
177	5.0 - 9.0 % of mass 176	6.8	(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 240-239778/2	UXR3508.D	07/26/2016	10:07
	LCS 240-239778/4	UXR3509.D	07/26/2016	10:29
	CCV 240-239778/3	UXR3510.D	07/26/2016	10:52
	MB 240-239778/6	UXR3512.D	07/26/2016	11:37
TB-072016	240-67443-1	UXR3524.D	07/26/2016	16:06
SWMW-4S-072016	240-67443-2	UXR3525.D	07/26/2016	16:29
SWMW-4I-072016	240-67443-3	UXR3526.D	07/26/2016	16:51
SWMW-3I-072016	240-67443-4	UXR3527.D	07/26/2016	17:14
BLOCK G OUTFALL-072016	240-67443-5	UXR3528.D	07/26/2016	17:36
	240-67437-E-5 MS	UXR3534.D	07/26/2016	19:50
	240-67437-H-5 MSD	UXR3535.D	07/26/2016	20:13

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

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab File ID: BFB1166.D BFB Injection Date: 07/27/2016
 Instrument ID: A3UX17 BFB Injection Time: 10:26
 Analysis Batch No.: 240005

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	47.6
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	0.4 (0.4) 1
174	50.0 - 120.00 % of mass 95	109.7
175	5.0 - 9.0 % of mass 174	7.3 (6.7) 1
176	95.0 - 101.0 % of mass 174	106.1 (96.7) 1
177	5.0 - 9.0 % of mass 176	6.7 (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 240-240005/2	UXR3538.D	07/27/2016	10:59
	LCS 240-240005/4	UXR3539.D	07/27/2016	11:21
	CCV 240-240005/3	UXR3540.D	07/27/2016	11:44
	MB 240-240005/6	UXR3542.D	07/27/2016	12:28
SWMW-4I-072016	240-67443-3	UXR3545.D	07/27/2016	13:55
	240-67437-B-11 MS	UXR3563.D	07/27/2016	20:39
	240-67437-B-11 MSD	UXR3564.D	07/28/2016	01:26

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

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Sample No.: STD8260 240-233329/4 Date Analyzed: 06/06/2016 17:52
 Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXR2590.D Heated Purge: (Y/N) N
 Calibration ID: 34730

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	2008684	5.76	1551513	8.48	855367	10.72	
UPPER LIMIT	4017368	6.26	3103026	8.98	1710734	11.22	
LOWER LIMIT	1004342	5.26	775757	7.98	427684	10.22	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-233329/8		1919748	5.76	1450753	8.47	839948	10.72
ICV 240-233329/15		1850277	5.76	1471163	8.48	730516	10.72
CCVIS 240-239593/2		1318330	5.76	1059555	8.48	668640	10.72
CCVIS 240-239778/2		1167337	5.76	979209	8.48	620671	10.72
CCVIS 240-240005/2		1259270	5.76	1048294	8.47	629702	10.72

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Sample No.: CCVIS 240-239593/2 Date Analyzed: 07/25/2016 08:56
 Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXR3480.D Heated Purge: (Y/N) N
 Calibration ID: 34732

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1318330	5.76	1059555	8.48	668640	10.72	
UPPER LIMIT	2636660	6.26	2119110	8.98	1337280	11.22	
LOWER LIMIT	659165	5.26	529778	7.98	334320	10.22	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-239593/4		1206793	5.76	1011823	8.48	638161	10.72
CCV 240-239593/3		1195766	5.76	1012321	8.48	559278	10.72
MB 240-239593/6		1088184	5.76	917686	8.48	526875	10.72
240-67328-1	TB-071816	993828	5.76	855798	8.48	462038	10.72
240-67328-2	MW-14B-071816	986694	5.76	820845	8.48	457308	10.72
240-67328-3	MW-12B-071816	1012532	5.76	830727	8.48	459559	10.72
240-67328-4	MW-12A-071816	1022296	5.76	843622	8.48	460454	10.72
240-67371-1	TB-071916	966368	5.76	826067	8.48	462206	10.72
240-67371-2	SWMW-1I-071916	984417	5.76	827066	8.48	466119	10.72
240-67371-3	SWMW-2I-071916	1051586	5.76	840719	8.48	466481	10.72
240-67371-4	SWMW-5I-071916	1018156	5.76	836666	8.48	471562	10.72
240-67437-B-4 MS		1085033	5.76	918654	8.48	580475	10.72
240-67437-B-4 MSD		1115285	5.76	918239	8.48	573628	10.72

FB = Fluorobenzene
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Sample No.: CCVIS 240-239778/2 Date Analyzed: 07/26/2016 10:07
 Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXR3508.D Heated Purge: (Y/N) N
 Calibration ID: 34732

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1167337	5.76	979209	8.48	620671	10.72	
UPPER LIMIT	2334674	6.26	1958418	8.98	1241342	11.22	
LOWER LIMIT	583669	5.26	489605	7.98	310336	10.22	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-239778/4		1152304	5.76	978663	8.48	612000	10.72
CCV 240-239778/3		1177128	5.76	996962	8.48	538287	10.72
MB 240-239778/6		1059468	5.76	893885	8.48	494646	10.72
240-67443-1	TB-072016	923038	5.76	793632	8.48	449396	10.72
240-67443-2	SWMW-4S-072016	958886	5.76	809401	8.48	437428	10.72
240-67443-4	SWMW-3I-072016	954804	5.76	807609	8.48	450295	10.72
240-67443-5	BLOCK G OUTFALL-072016	931586	5.76	793221	8.48	432154	10.72
240-67437-E-5 MS		1014427	5.76	870661	8.48	559923	10.72
240-67437-H-5 MSD		1058479	5.76	882194	8.48	567989	10.72

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Sample No.: CCVIS 240-240005/2 Date Analyzed: 07/27/2016 10:59
 Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXR3538.D Heated Purge: (Y/N) N
 Calibration ID: 34732

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1259270	5.76	1048294	8.47	629702	10.72	
UPPER LIMIT	2518540	6.26	2096588	8.97	1259404	11.22	
LOWER LIMIT	629635	5.26	524147	7.97	314851	10.22	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-240005/4		1162460	5.76	1011863	8.48	617616	10.72
CCV 240-240005/3		1162498	5.76	998835	8.48	541834	10.72
MB 240-240005/6		1044724	5.76	912003	8.48	502737	10.72
240-67443-3	SWMW-4I-072016	1026107	5.76	874936	8.48	479778	10.72
240-67437-B-11 MS		1058705	5.76	894667	8.48	569986	10.72
240-67437-B-11 MSD		1202418	5.76	998830	8.48	621405	10.72

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: TB-071816 Lab Sample ID: 240-67328-1
 Matrix: Water Lab File ID: UXR3493.D
 Analysis Method: 8260C Date Collected: 07/18/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 14:20
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U *	1.0	0.56
74-83-9	Bromomethane	1.0	U *	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: TB-071816 Lab Sample ID: 240-67328-1
 Matrix: Water Lab File ID: UXR3493.D
 Analysis Method: 8260C Date Collected: 07/18/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 14:20
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	81		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		79-120
460-00-4	4-Bromofluorobenzene (Surr)	80		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: MW-14B-071816 Lab Sample ID: 240-67328-2
 Matrix: Water Lab File ID: UXR3494.D
 Analysis Method: 8260C Date Collected: 07/18/2016 10:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 14:42
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.44
71-43-2	Benzene	1.0	U	1.0	0.35
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
75-25-2	Bromoform	1.0	U *	1.0	0.56
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
67-64-1	Acetone	10	U	10	0.94
79-20-9	Methyl acetate	10	U	10	2.3
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
74-83-9	Bromomethane	1.0	U *	1.0	0.44
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
108-88-3	Toluene	1.0	U	1.0	0.23
95-47-6	o-Xylene	1.0	U	1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
100-42-5	Styrene	1.0	U	1.0	0.45
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
75-00-3	Chloroethane	1.0	U	1.0	0.32
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
79-01-6	Trichloroethene	1.0	U	1.0	0.22
591-78-6	2-Hexanone	10	U	10	0.48
78-93-3	2-Butanone (MEK)	10	U	10	0.53
100-41-4	Ethylbenzene	1.0	U	1.0	0.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: MW-14B-071816 Lab Sample ID: 240-67328-2
 Matrix: Water Lab File ID: UXR3494.D
 Analysis Method: 8260C Date Collected: 07/18/2016 10:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 14:42
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.49
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52
110-82-7	Cyclohexane	1.0	U	1.0	0.45
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
67-66-3	Chloroform	1.0	U	1.0	0.25
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.43
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		79-120
460-00-4	4-Bromofluorobenzene (Surr)	85		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: MW-12B-071816 Lab Sample ID: 240-67328-3
 Matrix: Water Lab File ID: UXR3495.D
 Analysis Method: 8260C Date Collected: 07/18/2016 11:49
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 15:05
 Soil Aliquot Vol: _____ Dilution Factor: 15.38
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	15	U	15	4.9
95-50-1	1,2-Dichlorobenzene	15	U	15	3.8
541-73-1	1,3-Dichlorobenzene	15	U	15	2.9
106-46-7	1,4-Dichlorobenzene	15	U	15	4.2
108-90-7	Chlorobenzene	15	U	15	3.8
71-55-6	1,1,1-Trichloroethane	15	U *	15	6.8
71-43-2	Benzene	15	U	15	5.4
10061-01-5	cis-1,3-Dichloropropene	15	U	15	7.1
75-15-0	Carbon disulfide	15	U	15	5.8
75-25-2	Bromoform	15	U *	15	8.6
127-18-4	Tetrachloroethene	15	U	15	4.8
75-34-3	1,1-Dichloroethane	11	J	15	4.6
107-06-2	1,2-Dichloroethane	15	U	15	3.5
78-87-5	1,2-Dichloropropane	15	U	15	3.8
79-00-5	1,1,2-Trichloroethane	15	U	15	3.7
67-64-1	Acetone	150	U	150	14
79-20-9	Methyl acetate	150	U	150	35
75-71-8	Dichlorodifluoromethane	15	U	15	4.9
108-10-1	4-Methyl-2-pentanone (MIBK)	150	U	150	15
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U	15	6.9
75-09-2	Methylene Chloride	15	U	15	5.1
74-83-9	Bromomethane	15	U *	15	6.8
124-48-1	Chlorodibromomethane	15	U	15	6.6
108-88-3	Toluene	15	U	15	3.5
95-47-6	o-Xylene	15	U	15	3.8
96-12-8	1,2-Dibromo-3-Chloropropane	31	U	31	13
100-42-5	Styrene	15	U	15	6.9
156-60-5	trans-1,2-Dichloroethene	15	U	15	4.6
79-34-5	1,1,2,2-Tetrachloroethane	15	U	15	3.4
75-00-3	Chloroethane	15	U	15	4.9
75-35-4	1,1-Dichloroethene	83		15	6.9
79-01-6	Trichloroethene	460		15	3.4
591-78-6	2-Hexanone	150	U	150	7.4
78-93-3	2-Butanone (MEK)	150	U	150	8.2
100-41-4	Ethylbenzene	15	U	15	3.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: MW-12B-071816 Lab Sample ID: 240-67328-3
 Matrix: Water Lab File ID: UXR3495.D
 Analysis Method: 8260C Date Collected: 07/18/2016 11:49
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 15:05
 Soil Aliquot Vol: _____ Dilution Factor: 15.38
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	15	U	15	5.4
108-87-2	Methylcyclohexane	15	U	15	6.6
75-69-4	Trichlorofluoromethane	15	U *	15	7.5
1330-20-7	Xylenes, Total	31	U	31	8.0
110-82-7	Cyclohexane	15	U	15	6.9
10061-02-6	trans-1,3-Dichloropropene	15	U	15	8.6
156-59-2	cis-1,2-Dichloroethene	190		15	4.0
67-66-3	Chloroform	15	U	15	3.8
179601-23-1	m-Xylene & p-Xylene	31	U	31	3.7
75-01-4	Vinyl chloride	15	U	15	4.5
106-93-4	Ethylene Dibromide	15	U	15	4.9
56-23-5	Carbon tetrachloride	15	U *	15	6.6
75-27-4	Dichlorobromomethane	15	U	15	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	83		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		79-120
460-00-4	4-Bromofluorobenzene (Surr)	86		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: MW-12A-071816 Lab Sample ID: 240-67328-4
 Matrix: Water Lab File ID: UXR3496.D
 Analysis Method: 8260C Date Collected: 07/18/2016 16:55
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 15:27
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.44
71-43-2	Benzene	3.7		1.0	0.35
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
75-25-2	Bromoform	1.0	U *	1.0	0.56
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	17		1.0	0.30
107-06-2	1,2-Dichloroethane	3.0		1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
67-64-1	Acetone	10	U	10	0.94
79-20-9	Methyl acetate	10	U	10	2.3
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
74-83-9	Bromomethane	1.0	U *	1.0	0.44
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
108-88-3	Toluene	1.0	U	1.0	0.23
95-47-6	o-Xylene	1.0	U	1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
100-42-5	Styrene	1.0	U	1.0	0.45
156-60-5	trans-1,2-Dichloroethene	0.58	J	1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
75-00-3	Chloroethane	0.32	J	1.0	0.32
75-35-4	1,1-Dichloroethene	27		1.0	0.45
79-01-6	Trichloroethene	0.82	J	1.0	0.22
591-78-6	2-Hexanone	10	U	10	0.48
78-93-3	2-Butanone (MEK)	1.9	J	10	0.53
100-41-4	Ethylbenzene	1.0	U	1.0	0.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: MW-12A-071816 Lab Sample ID: 240-67328-4
 Matrix: Water Lab File ID: UXR3496.D
 Analysis Method: 8260C Date Collected: 07/18/2016 16:55
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 15:27
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.49
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52
110-82-7	Cyclohexane	1.0	U	1.0	0.45
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
156-59-2	cis-1,2-Dichloroethene	75	E	1.0	0.26
67-66-3	Chloroform	1.0	U	1.0	0.25
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
75-01-4	Vinyl chloride	15		1.0	0.29
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.43
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120
460-00-4	4-Bromofluorobenzene (Surr)	82		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: TB-071916 Lab Sample ID: 240-67371-1
 Matrix: Water Lab File ID: UXR3497.D
 Analysis Method: 8260C Date Collected: 07/19/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 15:50
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U *	1.0	0.56
74-83-9	Bromomethane	1.0	U *	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: TB-071916 Lab Sample ID: 240-67371-1
 Matrix: Water Lab File ID: UXR3497.D
 Analysis Method: 8260C Date Collected: 07/19/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 15:50
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		79-120
460-00-4	4-Bromofluorobenzene (Surr)	83		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-1I-071916 Lab Sample ID: 240-67371-2
 Matrix: Water Lab File ID: UXR3498.D
 Analysis Method: 8260C Date Collected: 07/19/2016 10:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 16:12
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	4.7		1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.48	J	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	0.93	J	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	4.3	J	10	0.94
71-43-2	Benzene	3.1		1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U *	1.0	0.56
74-83-9	Bromomethane	1.0	U *	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.4		1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.33	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-1I-071916 Lab Sample ID: 240-67371-2
 Matrix: Water Lab File ID: UXR3498.D
 Analysis Method: 8260C Date Collected: 07/19/2016 10:20
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 16:12
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.86	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.49
75-01-4	Vinyl chloride	1.7		1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	86		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		79-120
460-00-4	4-Bromofluorobenzene (Surr)	85		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-2I-071916 Lab Sample ID: 240-67371-3
 Matrix: Water Lab File ID: UXR3499.D
 Analysis Method: 8260C Date Collected: 07/19/2016 12:19
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 16:34
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	3.1		1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.88	J	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	23		10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	11		10	0.94
71-43-2	Benzene	6.3		1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U *	1.0	0.56
74-83-9	Bromomethane	1.0	U *	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	7.3		1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.1		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-2I-071916 Lab Sample ID: 240-67371-3
 Matrix: Water Lab File ID: UXR3499.D
 Analysis Method: 8260C Date Collected: 07/19/2016 12:19
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 16:34
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.87	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.49
75-01-4	Vinyl chloride	0.99	J	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		79-120
460-00-4	4-Bromofluorobenzene (Surr)	87		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-5I-071916 Lab Sample ID: 240-67371-4
 Matrix: Water Lab File ID: UXR3500.D
 Analysis Method: 8260C Date Collected: 07/19/2016 15:05
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 16:57
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.0	U *	2.0	0.88
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.44
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.90
79-00-5	1,1,2-Trichloroethane	2.0	U	2.0	0.48
75-34-3	1,1-Dichloroethane	2.0		2.0	0.60
75-35-4	1,1-Dichloroethene	7.9		2.0	0.90
120-82-1	1,2,4-Trichlorobenzene	2.0	U	2.0	0.64
96-12-8	1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6
106-93-4	Ethylene Dibromide	2.0	U	2.0	0.64
95-50-1	1,2-Dichlorobenzene	2.0	U	2.0	0.50
107-06-2	1,2-Dichloroethane	0.79	J	2.0	0.46
78-87-5	1,2-Dichloropropane	2.0	U	2.0	0.50
541-73-1	1,3-Dichlorobenzene	2.0	U	2.0	0.38
106-46-7	1,4-Dichlorobenzene	2.0	U	2.0	0.54
78-93-3	2-Butanone (MEK)	140		20	1.1
591-78-6	2-Hexanone	20	U	20	0.96
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20	2.0
67-64-1	Acetone	3.0	J	20	1.9
71-43-2	Benzene	2.5		2.0	0.70
75-27-4	Dichlorobromomethane	2.0	U	2.0	0.58
75-25-2	Bromoform	2.0	U *	2.0	1.1
74-83-9	Bromomethane	2.0	U *	2.0	0.88
75-15-0	Carbon disulfide	2.0	U	2.0	0.76
56-23-5	Carbon tetrachloride	2.0	U *	2.0	0.86
108-90-7	Chlorobenzene	2.0	U	2.0	0.50
75-00-3	Chloroethane	2.2		2.0	0.64
67-66-3	Chloroform	2.0	U	2.0	0.50
74-87-3	Chloromethane	2.0	U	2.0	0.88
156-59-2	cis-1,2-Dichloroethene	63		2.0	0.52
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0	0.92
110-82-7	Cyclohexane	2.0	U	2.0	0.90
124-48-1	Chlorodibromomethane	2.0	U	2.0	0.86
75-71-8	Dichlorodifluoromethane	2.0	U	2.0	0.64
100-41-4	Ethylbenzene	2.0	U	2.0	0.50
98-82-8	Isopropylbenzene	2.0	U	2.0	0.70

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-5I-071916 Lab Sample ID: 240-67371-4
 Matrix: Water Lab File ID: UXR3500.D
 Analysis Method: 8260C Date Collected: 07/19/2016 15:05
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 16:57
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	20	U	20	4.5
1634-04-4	Methyl tert-butyl ether	2.0	U	2.0	0.40
108-87-2	Methylcyclohexane	2.0	U	2.0	0.86
75-09-2	Methylene Chloride	2.0	U	2.0	0.66
100-42-5	Styrene	2.0	U	2.0	0.90
127-18-4	Tetrachloroethene	2.0	U	2.0	0.62
108-88-3	Toluene	2.0	U	2.0	0.46
156-60-5	trans-1,2-Dichloroethene	2.0	U	2.0	0.60
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0	1.1
79-01-6	Trichloroethene	0.52	J	2.0	0.44
75-69-4	Trichlorofluoromethane	2.0	U *	2.0	0.98
75-01-4	Vinyl chloride	9.0		2.0	0.58
1330-20-7	Xylenes, Total	4.0	U	4.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	86		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		79-120
460-00-4	4-Bromofluorobenzene (Surr)	84		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: TB-072016 Lab Sample ID: 240-67443-1
 Matrix: Water Lab File ID: UXR3524.D
 Analysis Method: 8260C Date Collected: 07/20/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U *	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U *	1.0	0.29
75-25-2	Bromoform	1.0	U *	1.0	0.56
74-83-9	Bromomethane	1.0	U *	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: TB-072016 Lab Sample ID: 240-67443-1
 Matrix: Water Lab File ID: UXR3524.D
 Analysis Method: 8260C Date Collected: 07/20/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120
460-00-4	4-Bromofluorobenzene (Surr)	83		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-4S-072016 Lab Sample ID: 240-67443-2
 Matrix: Water Lab File ID: UXR3525.D
 Analysis Method: 8260C Date Collected: 07/20/2016 10:18
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 16:29
 Soil Aliquot Vol: _____ Dilution Factor: 2.86
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.9	U *	2.9	1.3
79-34-5	1,1,2,2-Tetrachloroethane	2.9	U	2.9	0.63
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.9	U	2.9	1.3
79-00-5	1,1,2-Trichloroethane	2.9	U	2.9	0.69
75-34-3	1,1-Dichloroethane	5.8		2.9	0.86
75-35-4	1,1-Dichloroethene	26		2.9	1.3
120-82-1	1,2,4-Trichlorobenzene	2.9	U	2.9	0.92
96-12-8	1,2-Dibromo-3-Chloropropane	5.7	U	5.7	2.3
106-93-4	Ethylene Dibromide	2.9	U	2.9	0.92
95-50-1	1,2-Dichlorobenzene	2.9	U	2.9	0.72
107-06-2	1,2-Dichloroethane	2.9	U *	2.9	0.66
78-87-5	1,2-Dichloropropane	2.9	U	2.9	0.72
541-73-1	1,3-Dichlorobenzene	2.9	U	2.9	0.54
106-46-7	1,4-Dichlorobenzene	2.9	U	2.9	0.77
78-93-3	2-Butanone (MEK)	29	U	29	1.5
591-78-6	2-Hexanone	29	U	29	1.4
108-10-1	4-Methyl-2-pentanone (MIBK)	29	U	29	2.8
67-64-1	Acetone	29	U	29	2.7
71-43-2	Benzene	1.2	J	2.9	1.0
75-27-4	Dichlorobromomethane	2.9	U *	2.9	0.83
75-25-2	Bromoform	2.9	U *	2.9	1.6
74-83-9	Bromomethane	2.9	U *	2.9	1.3
75-15-0	Carbon disulfide	2.9	U	2.9	1.1
56-23-5	Carbon tetrachloride	2.9	U *	2.9	1.2
108-90-7	Chlorobenzene	2.9	U	2.9	0.72
75-00-3	Chloroethane	2.9	U	2.9	0.92
67-66-3	Chloroform	2.9	U	2.9	0.72
74-87-3	Chloromethane	2.9	U	2.9	1.3
156-59-2	cis-1,2-Dichloroethene	91		2.9	0.74
10061-01-5	cis-1,3-Dichloropropene	2.9	U	2.9	1.3
110-82-7	Cyclohexane	2.9	U	2.9	1.3
124-48-1	Chlorodibromomethane	2.9	U	2.9	1.2
75-71-8	Dichlorodifluoromethane	2.9	U	2.9	0.92
100-41-4	Ethylbenzene	2.9	U	2.9	0.72
98-82-8	Isopropylbenzene	2.9	U	2.9	1.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-4S-072016 Lab Sample ID: 240-67443-2
 Matrix: Water Lab File ID: UXR3525.D
 Analysis Method: 8260C Date Collected: 07/20/2016 10:18
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 16:29
 Soil Aliquot Vol: _____ Dilution Factor: 2.86
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	29	U	29	6.5
1634-04-4	Methyl tert-butyl ether	2.9	U	2.9	0.57
108-87-2	Methylcyclohexane	2.9	U	2.9	1.2
75-09-2	Methylene Chloride	2.9	U	2.9	0.94
100-42-5	Styrene	2.9	U	2.9	1.3
127-18-4	Tetrachloroethene	2.9	U	2.9	0.89
108-88-3	Toluene	2.9	U	2.9	0.66
156-60-5	trans-1,2-Dichloroethene	0.92	J	2.9	0.86
10061-02-6	trans-1,3-Dichloropropene	2.9	U	2.9	1.6
79-01-6	Trichloroethene	49		2.9	0.63
75-69-4	Trichlorofluoromethane	2.9	U *	2.9	1.4
75-01-4	Vinyl chloride	2.9		2.9	0.83
1330-20-7	Xylenes, Total	5.7	U	5.7	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	83		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		79-120
460-00-4	4-Bromofluorobenzene (Surr)	83		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-4I-072016 Lab Sample ID: 240-67443-3
 Matrix: Water Lab File ID: UXR3526.D
 Analysis Method: 8260C Date Collected: 07/20/2016 11:28
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 16:51
 Soil Aliquot Vol: _____ Dilution Factor: 3.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3.3	U *	3.3	1.5
79-34-5	1,1,2,2-Tetrachloroethane	3.3	U	3.3	0.73
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.3	U	3.3	1.5
79-00-5	1,1,2-Trichloroethane	3.3	U	3.3	0.80
75-34-3	1,1-Dichloroethane	3.3	U	3.3	1.0
75-35-4	1,1-Dichloroethene	3.3	U	3.3	1.5
120-82-1	1,2,4-Trichlorobenzene	3.3	U	3.3	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	6.7	U	6.7	2.7
106-93-4	Ethylene Dibromide	3.3	U	3.3	1.1
95-50-1	1,2-Dichlorobenzene	3.3	U	3.3	0.83
107-06-2	1,2-Dichloroethane	1.6	J *	3.3	0.77
78-87-5	1,2-Dichloropropane	3.3	U	3.3	0.83
541-73-1	1,3-Dichlorobenzene	3.3	U	3.3	0.63
106-46-7	1,4-Dichlorobenzene	3.3	U	3.3	0.90
78-93-3	2-Butanone (MEK)	150		33	1.8
591-78-6	2-Hexanone	33	U	33	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	33	U	33	3.3
67-64-1	Acetone	3.2	J	33	3.1
71-43-2	Benzene	3.3	U	3.3	1.2
75-27-4	Dichlorobromomethane	3.3	U *	3.3	0.97
75-25-2	Bromoform	3.3	U *	3.3	1.9
74-83-9	Bromomethane	3.3	U *	3.3	1.5
75-15-0	Carbon disulfide	3.3	U	3.3	1.3
56-23-5	Carbon tetrachloride	3.3	U *	3.3	1.4
108-90-7	Chlorobenzene	3.3	U	3.3	0.83
67-66-3	Chloroform	3.3	U	3.3	0.83
74-87-3	Chloromethane	3.3	U	3.3	1.5
156-59-2	cis-1,2-Dichloroethene	10		3.3	0.87
10061-01-5	cis-1,3-Dichloropropene	3.3	U	3.3	1.5
110-82-7	Cyclohexane	3.3	U	3.3	1.5
124-48-1	Chlorodibromomethane	3.3	U	3.3	1.4
75-71-8	Dichlorodifluoromethane	3.3	U	3.3	1.1
100-41-4	Ethylbenzene	3.3	U	3.3	0.83
98-82-8	Isopropylbenzene	3.3	U	3.3	1.2
79-20-9	Methyl acetate	33	U	33	7.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-4I-072016 Lab Sample ID: 240-67443-3
 Matrix: Water Lab File ID: UXR3526.D
 Analysis Method: 8260C Date Collected: 07/20/2016 11:28
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 16:51
 Soil Aliquot Vol: _____ Dilution Factor: 3.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	3.3	U	3.3	0.67
108-87-2	Methylcyclohexane	3.3	U	3.3	1.4
75-09-2	Methylene Chloride	1.2	J	3.3	1.1
100-42-5	Styrene	3.3	U	3.3	1.5
127-18-4	Tetrachloroethene	3.3	U	3.3	1.0
108-88-3	Toluene	3.3	U	3.3	0.77
156-60-5	trans-1,2-Dichloroethene	3.3	U	3.3	1.0
10061-02-6	trans-1,3-Dichloropropene	3.3	U	3.3	1.9
79-01-6	Trichloroethene	3.3	U	3.3	0.73
75-69-4	Trichlorofluoromethane	3.3	U *	3.3	1.6
75-01-4	Vinyl chloride	14		3.3	0.97
1330-20-7	Xylenes, Total	6.7	U	6.7	1.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120
460-00-4	4-Bromofluorobenzene (Surr)	81		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SWMW-4I-072016 Lab Sample ID: 240-67443-3
 Matrix: Water Lab File ID: UXR3545.D
 Analysis Method: 8260C Date Collected: 07/20/2016 11:28
 Sample wt/vol: 5 (mL) Date Analyzed: 07/27/2016 13:55
 Soil Aliquot Vol: _____ Dilution Factor: 3.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 240005 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	4.7		3.3	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120
460-00-4	4-Bromofluorobenzene (Surr)	86		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-3I-072016 Lab Sample ID: 240-67443-4
 Matrix: Water Lab File ID: UXR3527.D
 Analysis Method: 8260C Date Collected: 07/20/2016 14:13
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 17:14
 Soil Aliquot Vol: _____ Dilution Factor: 6.67
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	6.7	U *	6.7	2.9
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U	6.7	1.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U	6.7	3.0
79-00-5	1,1,2-Trichloroethane	6.7	U	6.7	1.6
75-34-3	1,1-Dichloroethane	6.5	J	6.7	2.0
75-35-4	1,1-Dichloroethene	50		6.7	3.0
120-82-1	1,2,4-Trichlorobenzene	6.7	U	6.7	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	13	U	13	5.5
106-93-4	Ethylene Dibromide	6.7	U	6.7	2.1
95-50-1	1,2-Dichlorobenzene	6.7	U	6.7	1.7
107-06-2	1,2-Dichloroethane	1.7	J *	6.7	1.5
78-87-5	1,2-Dichloropropane	6.7	U	6.7	1.7
541-73-1	1,3-Dichlorobenzene	6.7	U	6.7	1.3
106-46-7	1,4-Dichlorobenzene	6.7	U	6.7	1.8
78-93-3	2-Butanone (MEK)	43	J	67	3.5
591-78-6	2-Hexanone	67	U	67	3.2
108-10-1	4-Methyl-2-pentanone (MIBK)	67	U	67	6.6
67-64-1	Acetone	67	U	67	6.3
71-43-2	Benzene	3.2	J	6.7	2.3
75-27-4	Dichlorobromomethane	6.7	U *	6.7	1.9
75-25-2	Bromoform	6.7	U *	6.7	3.7
74-83-9	Bromomethane	6.7	U *	6.7	2.9
75-15-0	Carbon disulfide	6.7	U	6.7	2.5
56-23-5	Carbon tetrachloride	6.7	U *	6.7	2.9
108-90-7	Chlorobenzene	6.7	U	6.7	1.7
75-00-3	Chloroethane	5.1	J	6.7	2.1
67-66-3	Chloroform	6.7	U	6.7	1.7
74-87-3	Chloromethane	6.7	U	6.7	2.9
156-59-2	cis-1,2-Dichloroethene	210		6.7	1.7
10061-01-5	cis-1,3-Dichloropropene	6.7	U	6.7	3.1
110-82-7	Cyclohexane	6.7	U	6.7	3.0
124-48-1	Chlorodibromomethane	6.7	U	6.7	2.9
75-71-8	Dichlorodifluoromethane	6.7	U	6.7	2.1
100-41-4	Ethylbenzene	6.7	U	6.7	1.7
98-82-8	Isopropylbenzene	6.7	U	6.7	2.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SMMW-3I-072016 Lab Sample ID: 240-67443-4
 Matrix: Water Lab File ID: UXR3527.D
 Analysis Method: 8260C Date Collected: 07/20/2016 14:13
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 17:14
 Soil Aliquot Vol: _____ Dilution Factor: 6.67
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	67	U	67	15
1634-04-4	Methyl tert-butyl ether	6.7	U	6.7	1.3
108-87-2	Methylcyclohexane	6.7	U	6.7	2.9
75-09-2	Methylene Chloride	6.7	U	6.7	2.2
100-42-5	Styrene	6.7	U	6.7	3.0
127-18-4	Tetrachloroethene	6.7	U	6.7	2.1
108-88-3	Toluene	6.7	U	6.7	1.5
156-60-5	trans-1,2-Dichloroethene	6.7	U	6.7	2.0
10061-02-6	trans-1,3-Dichloropropene	6.7	U	6.7	3.7
79-01-6	Trichloroethene	23		6.7	1.5
75-69-4	Trichlorofluoromethane	6.7	U *	6.7	3.3
75-01-4	Vinyl chloride	9.7		6.7	1.9
1330-20-7	Xylenes, Total	13	U	13	3.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	82		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120
460-00-4	4-Bromofluorobenzene (Surr)	84		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: BLOCK G OUTFALL-072016 Lab Sample ID: 240-67443-5
 Matrix: Water Lab File ID: UXR3528.D
 Analysis Method: 8260C Date Collected: 07/20/2016 15:05
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 17:36
 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U *	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U *	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	2.6	J	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U *	1.0	0.29
75-25-2	Bromoform	1.0	U *	1.0	0.56
74-83-9	Bromomethane	1.0	U *	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U *	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: BLOCK G OUTFALL-072016 Lab Sample ID: 240-67443-5
 Matrix: Water Lab File ID: UXR3528.D
 Analysis Method: 8260C Date Collected: 07/20/2016 15:05
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 17:36
 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.53	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	83		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120
460-00-4	4-Bromofluorobenzene (Surr)	84		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		78-125

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

Lab Name: TestAmerica Canton Job No.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 17:07 Calibration End Date: 06/06/2016 18:59 Calibration ID: 34730

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-233329/7	UXR2593.D
Level 2	STD8260 240-233329/6	UXR2592.D
Level 3	STD8260 240-233329/5	UXR2591.D
Level 4	STD8260 240-233329/4	UXR2590.D
Level 5	STD8260 240-233329/3	UXR2589.D
Level 6	STD8260 240-233329/2	UXR2588.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	0.4005 0.3808	0.3267	0.3535	0.3293	0.3451	Ave		0.3560			0.1000	8.2		20.0			
Chloromethane	0.3447 0.3112	0.2932	0.2856	0.2910	0.3132	Ave		0.3065			0.1000	7.1		20.0			
Vinyl chloride	0.3114 0.2841	0.2624	0.2806	0.2710	0.2790	Ave		0.2814			0.1000	5.9		20.0			
Butadiene	0.2886 0.2527	0.2333	0.2478	0.2378	0.2524	Ave		0.2521				7.7		20.0			
Bromomethane	0.0784 0.0677	0.0605	0.0682	0.0690	0.0705	Ave		0.0691			0.0500	8.3		20.0			
Chloroethane	0.0952 0.0809	0.0768	0.0741	0.0796	0.0799	Ave		0.0811			0.0500	9.1		20.0			
Dichlorofluoromethane	0.3182 0.2774	0.2537	0.2575	0.2696	0.2734	Ave		0.2750				8.4		20.0			
Trichlorofluoromethane	0.2646 0.2925	0.2306	0.2539	0.2504	0.2660	Ave		0.2596			0.1000	7.9		20.0			
Ethyl ether	0.2524 0.2193	0.2290	0.2382	0.2196	0.2277	Ave		0.2310				5.4		20.0			
Acrolein	0.0303 0.0285	0.0263	0.0281	0.0282	0.0289	Ave		0.0284				4.6		20.0			
1,1-Dichloroethene	0.3108 0.2764	0.2687	0.2654	0.2634	0.2667	Ave		0.2752			0.1000	6.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2893 0.2357	0.2268	0.2306	0.2207	0.2301	Ave		0.2389			0.0500	10.5		20.0			
Acetone	0.2069 0.0680	0.0969	0.0852	0.0773	0.0724	Lin1	0.1396	0.0677			0.0100				0.9990		0.9900
Iodomethane	0.4822 0.4228	0.4214	0.4425	0.4195	0.4232	Ave		0.4353				5.6		20.0			
Carbon disulfide	0.6720 0.7685	0.6348	0.6761	0.6856	0.7300	Ave		0.6945			0.1000	6.8		20.0			

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.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 17:07 Calibration End Date: 06/06/2016 18:59 Calibration ID: 34730

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	0.1229 0.1428	0.1210	0.1195	0.1312	0.1392	Ave		0.1294			7.6		20.0				
Methyl acetate	0.1731 0.1442	0.1493	0.1510	0.1503	0.1502	Ave		0.1530		0.1000	6.6		20.0				
Methylene Chloride	0.7016 0.2756	0.3679	0.3246	0.2921	0.2826	Lin1	0.2146	0.2712		0.1000				1.0000		0.9900	
2-Methyl-2-propanol	0.0187 0.0138	0.0142	0.0142	0.0145	0.0146	Ave		0.0150			12.3		20.0				
Acrylonitrile	0.1008 0.0818	0.0860	0.0873	0.0867	0.0868	Ave		0.0883			7.3		20.0				
Methyl tert-butyl ether	0.6692 0.6716	0.6099	0.6405	0.6391	0.6688	Ave		0.6499		0.1000	3.8		20.0				
trans-1,2-Dichloroethene	0.3013 0.2733	0.2852	0.2838	0.2749	0.2775	Ave		0.2827		0.1000	3.6		20.0				
Hexane	0.0772 0.0729	0.0673	0.0684	0.0681	0.0684	Ave		0.0704			5.5		20.0				
1,1-Dichloroethane	0.5292 0.4571	0.4574	0.4574	0.4504	0.4519	Ave		0.4672		0.2000	6.5		20.0				
Vinyl acetate	0.3291 0.3944	0.3069	0.3240	0.3577	0.3733	Ave		0.3476			9.5		20.0				
2,2-Dichloropropane	0.1911 0.1914	0.1751	0.1919	0.1945	0.2011	Ave		0.1909			4.5		20.0				
cis-1,2-Dichloroethene	0.3355 0.2981	0.2997	0.2987	0.2903	0.3005	Ave		0.3038		0.1000	5.3		20.0				
2-Butanone (MEK)	0.1257 0.0882	0.0854	0.0941	0.0877	0.0899	Ave		0.0952		0.0100	16.0		20.0				
Chlorobromomethane	0.1762 0.1502	0.1442	0.1478	0.1420	0.1485	Ave		0.1515			8.2		20.0				
Tetrahydrofuran	0.0516 0.0539	0.0509	0.0535	0.0547	0.0553	Ave		0.0533			3.2		20.0				
Chloroform	0.5425 0.4536	0.4442	0.4458	0.4425	0.4458	Ave		0.4624		0.2000	8.5		20.0				
1,1,1-Trichloroethane	0.3309 0.3173	0.2930	0.3076	0.3093	0.3208	Ave		0.3131		0.1000	4.1		20.0				
Cyclohexane	0.4376 0.4387	0.3872	0.4285	0.4238	0.4322	Ave		0.4247		0.1000	4.5		20.0				
1,1-Dichloropropene	0.4267 0.3793	0.3552	0.3669	0.3647	0.3736	Ave		0.3777			6.7		20.0				
Carbon tetrachloride	0.2838 0.3168	0.2522	0.2749	0.2843	0.3007	Ave		0.2855		0.1000	7.7		20.0				

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.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 17:07 Calibration End Date: 06/06/2016 18:59 Calibration ID: 34730

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	0.0081 0.0069	0.0077	0.0072	0.0074	0.0075	Ave		0.0075			5.7		20.0				
Benzene	1.3235 1.1446	1.1290	1.1413	1.1035	1.1265	Ave		1.1614		0.5000	6.9		20.0				
1,2-Dichloroethane	0.4022 0.3604	0.3522	0.3570	0.3419	0.3511	Ave		0.3608		0.1000	5.9		20.0				
n-Heptane	0.0588 0.0652	0.0503	0.0567	0.0615	0.0638	Ave		0.0594			9.1		20.0				
Trichloroethene	0.3644 0.3180	0.3090	0.3135	0.3126	0.3155	Ave		0.3222		0.1500	6.5		20.0				
Methylcyclohexane	0.4061 0.4266	0.3756	0.3962	0.3994	0.4120	Ave		0.4026		0.1000	4.2		20.0				
1,2-Dichloropropane	0.2601 0.2490	0.2354	0.2485	0.2503	0.2405	Ave		0.2473		0.1000	3.4		20.0				
Dibromomethane	0.1610 0.1485	0.1402	0.1432	0.1441	0.1449	Ave		0.1470			5.0		20.0				
1,4-Dioxane	0.0029 0.0026	0.0028	0.0029	0.0030	0.0030	Ave		0.0029			5.6		20.0				
Dichlorobromomethane	0.2653 0.3136	0.2276	0.2540	0.2676	0.2911	Ave		0.2699		0.1500	11.0		20.0				
2-Chloroethyl vinyl ether	0.1281 0.1508	0.1186	0.1366	0.1423	0.1472	Ave		0.1373			8.9		20.0				
cis-1,3-Dichloropropene	0.3000 0.4026	0.2814	0.3141	0.3483	0.3766	Ave		0.3372		0.1500	13.9		20.0				
4-Methyl-2-pentanone (MIBK)	0.1621 0.1832	0.1492	0.1628	0.1738	0.1825	Ave		0.1690		0.0500	7.9		20.0				
Toluene	1.8286 1.6351	1.6024	1.5375	1.5558	1.5840	Ave		1.6239		0.4000	6.5		20.0				
trans-1,3-Dichloropropene	0.2919 0.4562	0.2888	0.3362	0.3726	0.4115	Ave		0.3595		0.1000	18.6		20.0				
Ethyl methacrylate	0.3345 0.4222	0.3010	0.3543	0.3880	0.4104	Ave		0.3684			12.7		20.0				
1,1,2-Trichloroethane	0.3381 0.2954	0.3085	0.2864	0.2914	0.2949	Ave		0.3025		0.1000	6.3		20.0				
Tetrachloroethene	0.3926 0.3493	0.3523	0.3376	0.3372	0.3377	Ave		0.3511		0.1500	6.1		20.0				
1,3-Dichloropropane	0.5937 0.5405	0.5524	0.5233	0.5218	0.5309	Ave		0.5438			5.0		20.0				
2-Hexanone	0.1341 0.1730	0.1421	0.1531	0.1645	0.1754	Ave		0.1570		0.0500	10.7		20.0				

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.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 17:07 Calibration End Date: 06/06/2016 18:59 Calibration ID: 34730

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	0.2293 0.3158	0.2134	0.2419	0.2526	0.2858	Ave		0.2565			14.8		20.0				
Ethylene Dibromide	0.2988 0.2932	0.2645	0.2770	0.2842	0.2933	Ave		0.2852			4.5		20.0				
Chlorobenzene	1.2518 1.0877	1.0729	1.0513	1.0276	1.0646	Ave		1.0926		0.3000	7.4		20.0				
1,1,1,2-Tetrachloroethane	0.3197 0.3560	0.2825	0.2981	0.3172	0.3364	Ave		0.3183			8.2		20.0				
Ethylbenzene	0.5899 0.5697	0.5344	0.5400	0.5323	0.5633	Ave		0.5549			4.2		20.0				
m-Xylene & p-Xylene	0.8988 0.7264	0.7098	0.6957	0.6802	0.7039	Ave		0.7358			11.1		20.0				
o-Xylene	0.6674 0.6981	0.6183	0.6385	0.6697	0.6935	Ave		0.6642			4.7		20.0				
Styrene	0.9990 1.2000	0.9759	1.0609	1.0948	1.1646	Ave		1.0825		0.3000	8.2		20.0				
Bromoform	0.1318 0.1936	0.1130	0.1309	0.1415	0.1638	Ave		0.1458		0.1000	19.7		20.0				
Isopropylbenzene	1.5666 1.7570	1.4745	1.5687	1.6112	1.6894	Ave		1.6112		0.1000	6.2		20.0				
1,1,2,2-Tetrachloroethane	0.7070 0.6326	0.5994	0.6257	0.6313	0.6389	Ave		0.6392		0.3000	5.6		20.0				
Bromobenzene	0.9800 0.8569	0.8727	0.8562	0.8307	0.8552	Ave		0.8753			6.1		20.0				
1,2,3-Trichloropropane	0.2711 0.2194	0.2093	0.2226	0.2214	0.2254	Ave		0.2282			9.5		20.0				
trans-1,4-Dichloro-2-butene	0.1264 0.1730	0.1255	0.1223	0.1383	0.1561	Ave		0.1403			14.5		20.0				
N-Propylbenzene	0.7103 0.8543	0.7495	0.7912	0.8255	0.8286	Ave		0.7932			6.9		20.0				
2-Chlorotoluene	0.8250 0.7416	0.7284	0.7343	0.7236	0.7335	Ave		0.7477			5.1		20.0				
1,3,5-Trimethylbenzene	2.2288 2.5625	2.2276	2.3368	2.4085	2.4794	Ave		2.3739			5.7		20.0				
4-Chlorotoluene	0.8232 0.7964	0.8204	0.7678	0.7651	0.7867	Ave		0.7933			3.2		20.0				
tert-Butylbenzene	1.9766 2.1722	1.9443	1.9926	2.0901	2.1269	Ave		2.0505			4.5		20.0				
1,2,4-Trimethylbenzene	2.2728 2.6239	2.3467	2.4770	2.4933	2.5682	Ave		2.4636			5.4		20.0				

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.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 17:07 Calibration End Date: 06/06/2016 18:59 Calibration ID: 34730

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	2.5713 2.8077	2.5087	2.5977	2.6550	2.6936	Ave		2.6390			4.0		20.0				
1,3-Dichlorobenzene	1.8471 1.5210	1.5552	1.5024	1.5112	1.5318	Ave		1.5781		0.6000	8.4		20.0				
4-Isopropyltoluene	2.1070 2.5512	2.1927	2.2705	2.3866	2.4941	Ave		2.3337			7.4		20.0				
1,4-Dichlorobenzene	1.9779 1.5887	1.6251	1.5817	1.5194	1.5593	Ave		1.6420		0.5000	10.2		20.0				
n-Butylbenzene	1.7821 1.9317	1.6494	1.6763	1.8033	1.8399	Ave		1.7804			5.9		20.0				
1,2-Dichlorobenzene	1.7751 1.4597	1.5837	1.4669	1.4467	1.4738	Ave		1.5343		0.4000	8.3		20.0				
1,2-Dibromo-3-Chloropropane	0.1098 0.1075	0.0887	0.0888	0.0944	0.1048	Ave		0.0990		0.0500	9.6		20.0				
1,2,4-Trichlorobenzene	1.3109 0.8968	0.9838	0.9450	0.9580	0.9784	Ave		1.0121		0.2000	14.8		20.0				
Hexachlorobutadiene	0.8783 0.3592	0.5551	0.4335	0.4374	0.3952	Lin1	0.2937	0.3691						0.9960		0.9900	
Naphthalene	2.3527 1.9496	1.8705	2.0078	2.1503	2.2724	Ave		2.1006			9.0		20.0				
1,2,3-Trichlorobenzene	1.4503 0.7793	1.0663	0.9692	0.9595	0.9357	Lin1	0.3978	0.8361						0.9910		0.9900	
Dibromofluoromethane (Surr)	0.2974 0.2427	0.2371	0.2398	0.2288	0.2436	Ave		0.2482			9.9		20.0				
1,2-Dichloroethane-d4 (Surr)	0.3634 0.2902	0.2847	0.2925	0.2714	0.2856	Ave		0.2980			11.0		20.0				
Toluene-d8 (Surr)	1.5913 1.3757	1.3246	1.3355	1.2747	1.3584	Ave		1.3767			8.0		20.0				
4-Bromofluorobenzene (Surr)	0.5735 0.5169	0.4854	0.4938	0.4826	0.5162	Ave		0.5114			6.6		20.0				

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.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 17:07 Calibration End Date: 06/06/2016 18:59 Calibration ID: 34730

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-233329/7	UXR2593.D
Level 2	STD8260 240-233329/6	UXR2592.D
Level 3	STD8260 240-233329/5	UXR2591.D
Level 4	STD8260 240-233329/4	UXR2590.D
Level 5	STD8260 240-233329/3	UXR2589.D
Level 6	STD8260 240-233329/2	UXR2588.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	38427 2863062	131793	350983	661410	1346594	0.500 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	33074 2339618	118310	283570	584540	1222130	0.500 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	29876 2135980	105869	278621	544286	1088423	0.500 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	27687 1899787	94141	246059	477743	984883	0.500 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	7523 509382	24408	67717	138557	275183	0.500 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	9132 608455	30990	73541	159904	311839	0.500 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	30532 2085944	102341	255719	541626	1066600	0.500 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	25386 2199192	93025	252102	502946	1037801	0.500 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	24218 1648718	92398	236505	441137	888553	0.500 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	14542 1070412	52977	139576	283135	562853	2.50 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	29818 2078672	108398	263551	529049	1040519	0.500 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	27758 1772582	91519	228972	443238	897596	0.500 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	39713 1022683	78170	169217	310417	564728	1.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	46272 3179454	170040	439405	842574	1650988	0.500 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	64478 5778592	256137	671419	1377216	2848352	0.500 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	11796 1073747	48817	118678	263457	543040	0.500 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 17:07

Calibration End Date: 06/06/2016 18:59

Calibration ID: 34730

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	83030 5420981	301218	749658	1509188	2929278	2.50 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Lin1	67322 2072459	148430	322305	586790	1102521	0.500 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	17952 1040339	57273	140645	290319	570520	5.00 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	96711 6154427	347108	867247	1742273	3388498	5.00 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	64215 5049900	246087	636061	1283737	2609294	0.500 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	28907 2055107	115087	281806	552199	1082709	0.500 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	7407 547939	27147	67909	136850	266850	0.500 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	50774 3437277	184551	454229	904667	1763052	0.500 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	31579 2965478	123833	321786	718606	1456517	0.500 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	18338 1439245	70650	190555	390717	784566	0.500 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	32193 2241233	120915	296603	583125	1172312	0.500 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	24126 1326153	68872	186927	352257	701808	1.00 80.0	4.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	16908 1129488	58160	146781	285204	579446	0.500 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	9894 810056	41073	106208	219666	431273	1.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	52056 3410993	179213	442643	888916	1739340	0.500 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	31746 2385668	118215	305413	621292	1251753	0.500 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	41987 3298290	156203	425515	851345	1686470	0.500 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	40938 2852096	143322	364352	732618	1457815	0.500 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	27229 2382360	101756	273016	571079	1173226	0.500 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBNZ d5	Ave	14675 998956	57778	138185	286291	567158	12.5 1000	50.0	125	250	500
Benzene	FB	Ave	126988 8606743	455517	1133359	2216664	4395120	0.500 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 17:07 Calibration End Date: 06/06/2016 18:59 Calibration ID: 34730

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	38594 2709635	142084	354501	686682	1369936	0.500 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	5645 489990	20311	56285	123443	248970	0.500 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	34963 2391204	124688	311335	627823	1230955	0.500 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	38966 3207790	151537	393432	802180	1607528	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	24954 1872569	94980	246785	502688	938496	0.500 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	15448 1116642	56576	142163	289359	565470	0.500 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	5656 385381	22932	56905	120163	232769	10.0 800	40.0	100	200	400
Dichlorobromomethane	FB	Ave	25457 2357880	91818	252271	537528	1135933	0.500 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	24591 2267709	95680	271257	571479	1148677	1.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	28785 3027570	113522	311922	699595	1469396	0.500 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	31116 2755477	120406	323281	698370	1424363	1.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBNZ d5	Ave	132600 9534057	481293	1183019	2413809	4767181	0.500 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	21171 2659981	86743	258658	578034	1238504	0.500 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBNZ d5	Ave	24259 2461933	90414	272598	602005	1235081	0.500 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	24521 1722209	92671	220363	452180	887599	0.500 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	28469 2036883	105809	259740	523118	1016255	0.500 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	43051 3151784	165906	402662	809529	1597833	0.500 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBNZ d5	Ave	19451 2017210	85350	235573	510327	1055525	1.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBNZ d5	Ave	16631 1841537	64083	186097	391881	860245	0.500 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBNZ d5	Ave	21669 1709661	79431	213103	440908	882692	0.500 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	90775 6342185	322263	808880	1594390	3203799	0.500 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 17:07 Calibration End Date: 06/06/2016 18:59 Calibration ID: 34730

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	CBNZ d5	Ave	23185 2075644	84837	229392	492083	1012481	0.500 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	42774 3321825	160523	415532	825930	1695216	0.500 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBNZ d5	Ave	65178 4235568	213187	535262	1055325	2118397	0.500 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBNZ d5	Ave	48396 4070240	185702	491326	1038976	2087061	0.500 40.0	2.00	5.00	10.0	20.0
Styrene	CBNZ d5	Ave	72444 6997138	293124	816289	1698608	3504928	0.500 40.0	2.00	5.00	10.0	20.0
Bromoform	CBNZ d5	Ave	9560 1129059	33950	100709	219517	493033	0.500 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBNZ d5	Ave	113603 10244892	442884	1207046	2499792	5084299	0.500 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	27536 2080088	98339	265784	539960	1083552	0.500 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCBd 4	Ave	38167 2817516	143173	363692	710570	1450401	0.500 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	10559 721492	34333	94558	189364	382179	0.500 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	4922 568815	20582	51945	118292	264786	0.500 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	27663 2809032	122960	336085	706076	1405320	0.500 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	32129 2438545	119503	311908	618933	1243957	0.500 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	86799 8425690	365470	992634	2060130	4204880	0.500 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCBd 4	Ave	32061 2618606	134606	326130	654481	1334223	0.500 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	76980 7142579	318997	846404	1787766	3607131	0.500 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	88513 8627752	385006	1052157	2132656	4355418	0.500 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	100141 9232150	411590	1103456	2271019	4568096	0.500 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	71935 5001289	255157	638186	1292606	2597855	0.500 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCBd 4	Ave	82058 8388751	359752	964463	2041406	4229868	0.500 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	77029 5223946	266618	671867	1299677	2644440	0.500 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 17:07 Calibration End Date: 06/06/2016 18:59 Calibration ID: 34730

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	DCBd 4	Ave	69403 6351719	270601	712039	1542516	3120318	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	69130 4799693	259821	623098	1237430	2499392	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	4276 353600	14558	37720	80716	177679	0.500 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	51052 2948638	161407	401427	819430	1659261	0.500 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCBd 4	Lin1	34204 1181238	91071	184129	374157	670307	0.500 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCBd 4	Ave	91628 6410582	306882	852864	1839311	3853834	0.500 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Lin1	56481 2562439	174939	411696	820759	1586927	0.500 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	28532 1825265	95642	238097	459507	950433	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	34869 2182148	114878	290459	545158	1114416	0.500 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	115395 8021571	397858	1027560	1977774	4088201	0.500 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	41588 3013787	145795	379986	748803	1553435	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 BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 19:44 Calibration End Date: 06/06/2016 21:36 Calibration ID: 34732

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-233329/14	UXR2600.D
Level 2	STDA9 240-233329/13	UXR2599.D
Level 3	STDA9 240-233329/12	UXR2598.D
Level 4	STDA9 240-233329/11	UXR2597.D
Level 5	STDA9 240-233329/10	UXR2596.D
Level 6	STDA9 240-233329/9	UXR2595.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	0.0267 0.0245	0.0258	0.0246	0.0251	0.0250	Ave		0.0253			3.4		20.0				
Isopropyl ether	0.2067 0.2327	0.2088	0.2105	0.2181	0.2369	Ave		0.2189			5.9		20.0				
2-Chloro-1,3-butadiene	0.3337 0.3901	0.3485	0.3490	0.3689	0.3851	Ave		0.3625			6.2		20.0				
Tert-butyl ethyl ether	0.5698 0.6656	0.5759	0.5827	0.6094	0.6616	Ave		0.6109			7.1		20.0				
Ethyl acetate	0.1475 0.1601	0.1455	0.1422	0.1498	0.1611	Ave		0.1510			5.2		20.0				
Propionitrile	0.0302 0.0312	0.0312	0.0299	0.0308	0.0318	Ave		0.0308			2.3		20.0				
Methacrylonitrile	0.1150 0.1226	0.1230	0.1199	0.1217	0.1263	Ave		0.1214			3.1		20.0				
Tert-amyl methyl ether	0.4854 0.5751	0.4957	0.5069	0.5301	0.5716	Ave		0.5274			7.3		20.0				
n-Butanol	0.0043 0.0058	0.0043	0.0049	0.0054	0.0063	Ave		0.0052			15.7		20.0				
Ethyl acrylate	0.1892 0.2559	0.2002	0.2121	0.2319	0.2513	Ave		0.2234			12.2		20.0				
Methyl methacrylate	0.1354 0.1743	0.1469	0.1500	0.1611	0.1704	Ave		0.1563			9.5		20.0				
2-Nitropropane	0.0290 0.0385	0.0272	0.0257	0.0292	0.0336	Ave		0.0305			15.5		20.0				
n-Butyl acetate	0.1056 0.1574	0.1058	0.1191	0.1334	0.1578	Ave		0.1298			18.4		20.0				
1-Chlorohexane	0.3382 0.4092	0.3405	0.3535	0.3706	0.4128	Ave		0.3708			9.0		20.0				
Cyclohexanone	0.0105 0.0131	0.0101	0.0111	0.0115	0.0139	Ave		0.0117			12.7		20.0				

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.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 19:44 Calibration End Date: 06/06/2016 21:36 Calibration ID: 34732

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	2.1221 2.5777	2.1559	2.3613	2.4425	2.6716	Ave		2.3885			9.3		20.0				
1,3,5-Trichlorobenzene	1.1244 0.9851	1.0924	1.0150	1.0555	1.0896	Ave		1.0603			4.9		20.0				
2-Methylnaphthalene	0.9851 0.7913	1.1167	1.1542	1.3110	1.2530	Ave		1.1019			17.2		20.0				

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.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 19:44 Calibration End Date: 06/06/2016 21:36 Calibration ID: 34732

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-233329/14	UXR2600.D
Level 2	STDA9 240-233329/13	UXR2599.D
Level 3	STDA9 240-233329/12	UXR2598.D
Level 4	STDA9 240-233329/11	UXR2597.D
Level 5	STDA9 240-233329/10	UXR2596.D
Level 6	STDA9 240-233329/9	UXR2595.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	48971 1854587	96662	239690	496420	985955	10.0 400	20.0	50.0	100	200
Isopropyl ether	FB	Ave	37858 1762040	78197	205097	431041	935656	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	61110 2953511	130506	340104	729144	1520831	1.00 40.0	2.00	5.00	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	104369 5039316	215683	567763	1204609	2613260	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	54041 2424045	108990	277087	592377	1272353	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	55262 2362542	116684	290860	609720	1255094	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	210612 9283085	460624	1168718	2405577	4988531	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	88896 4353733	185614	493926	1047826	2257711	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	CBNZ d5	Ave	15108 890130	30591	90903	205069	481201	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	34653 1937742	74970	206632	458358	992468	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	49590 2639039	110051	292271	636712	1345654	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	10615 583658	20396	50008	115440	265479	2.00 80.0	4.00	10.0	20.0	40.0
n-Butyl acetate	CBNZ d5	Ave	14686 962921	30250	88568	202589	482133	1.00 40.0	2.00	5.00	10.0	20.0
1-Chlorohexane	CBNZ d5	Ave	47053 2502806	97402	262876	562922	1261163	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCBd 4	Ave	7434 419496	14774	40879	88323	218021	10.0 400	20.0	50.0	100	200
1,2,3-Trimethylbenzene	DCBd 4	Ave	149670 8276951	313983	871322	1878475	4182442	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-67328-1 Analy Batch No.: 233329

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2016 19:44 Calibration End Date: 06/06/2016 21:36 Calibration ID: 34732

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	DCBd 4	Ave	79305 3163159	159087	374544	811767	1705888	1.00 40.0	2.00	5.00	10.0	20.0
2-Methylnaphthalene	DCBd 4	Ave	138961 5081976	325255	851802	2016498	3923384	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.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: ICV 240-233329/8 Calibration Date: 06/06/2016 19:21
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR2594.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	0.3560	0.3707	0.1000	0.0104	0.0100	4.1	20.0
Chloromethane	Ave	0.3065	0.2890	0.1000	0.00943	0.0100	-5.7	20.0
Vinyl chloride	Ave	0.2814	0.2713	0.1000	0.00964	0.0100	-3.6	20.0
Butadiene	Ave	0.2521	0.2400		0.00952	0.0100	-4.8	30.0
Bromomethane	Ave	0.0691	0.0680	0.0500	0.00985	0.0100	-1.5	20.0
Chloroethane	Ave	0.0811	0.0730	0.0500	0.00900	0.0100	-10.0	20.0
Dichlorofluoromethane	Ave	0.2750	0.2690		0.00978	0.0100	-2.2	20.0
Trichlorofluoromethane	Ave	0.2596	0.2601	0.1000	0.0100	0.0100	0.2	20.0
Ethyl ether	Ave	0.2310	0.2210		0.00957	0.0100	-4.3	20.0
Acrolein	Ave	0.0284	0.0390		0.0687	0.0500	37.4	50.0
1,1-Dichloroethene	Ave	0.2752	0.2652	0.1000	0.00964	0.0100	-3.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2389	0.2314	0.0500	0.00969	0.0100	-3.1	20.0
Acetone	Lin1		0.0613	0.0100	0.0161	0.0200	-19.7	50.0
Iodomethane	Ave	0.4353	0.4267		0.00980	0.0100	-2.0	20.0
Carbon disulfide	Ave	0.6945	0.6801	0.1000	0.00979	0.0100	-2.1	20.0
3-Chloro-1-propene	Ave	0.1294	0.1278		0.00987	0.0100	-1.3	20.0
Methyl acetate	Ave	0.1530	0.1417	0.1000	0.0463	0.0500	-7.4	20.0
Methylene Chloride	Lin1		0.2828	0.1000	0.00963	0.0100	-3.7	50.0
2-Methyl-2-propanol	Ave	0.0150	0.0127		0.0846	0.100	-15.4	50.0
Acrylonitrile	Ave	0.0883	0.0821		0.0930	0.100	-7.0	20.0
Methyl tert-butyl ether	Ave	0.6499	0.6224	0.1000	0.00958	0.0100	-4.2	20.0
trans-1,2-Dichloroethene	Ave	0.2827	0.2771	0.1000	0.00980	0.0100	-2.0	20.0
Hexane	Ave	0.0704	0.0697		0.00990	0.0100	-1.0	20.0
1,1-Dichloroethane	Ave	0.4672	0.4322	0.2000	0.00925	0.0100	-7.5	20.0
Vinyl acetate	Ave	0.3476	0.3357		0.00966	0.0100	-3.4	50.0
2,2-Dichloropropane	Ave	0.1909	0.1803		0.00945	0.0100	-5.5	20.0
cis-1,2-Dichloroethene	Ave	0.3038	0.2865	0.1000	0.00943	0.0100	-5.7	20.0
2-Butanone (MEK)	Ave	0.0952	0.0821	0.0100	0.0172	0.0200	-13.8	20.0
Chlorobromomethane	Ave	0.1515	0.1423		0.00939	0.0100	-6.1	20.0
Tetrahydrofuran	Ave	0.0533	0.0492		0.0185	0.0200	-7.7	20.0
Chloroform	Ave	0.4624	0.4296	0.2000	0.00929	0.0100	-7.1	20.0
1,1,1-Trichloroethane	Ave	0.3131	0.3035	0.1000	0.00969	0.0100	-3.1	20.0
Cyclohexane	Ave	0.4247	0.4174	0.1000	0.00983	0.0100	-1.7	20.0
1,1-Dichloropropene	Ave	0.3777	0.3493		0.00925	0.0100	-7.5	20.0
Carbon tetrachloride	Ave	0.2855	0.2946	0.1000	0.0103	0.0100	3.2	20.0
Isobutyl alcohol	Ave	0.0075	0.0067		0.226	0.250	-9.7	20.0
Benzene	Ave	1.161	1.084	0.5000	0.00933	0.0100	-6.7	20.0
1,2-Dichloroethane	Ave	0.3608	0.3418	0.1000	0.00947	0.0100	-5.3	20.0
n-Heptane	Ave	0.0594	0.0569		0.00958	0.0100	-4.2	20.0
Trichloroethene	Ave	0.3222	0.3105	0.1500	0.00964	0.0100	-3.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: ICV 240-233329/8 Calibration Date: 06/06/2016 19:21
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR2594.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	0.4026	0.3848	0.1000	0.00956	0.0100	-4.4	20.0
1,2-Dichloropropane	Ave	0.2473	0.2409	0.1000	0.00974	0.0100	-2.6	20.0
1,4-Dioxane	Ave	0.0029	0.0024		0.165	0.200	-17.5	50.0
Dibromomethane	Ave	0.1470	0.1389		0.00945	0.0100	-5.5	20.0
Dichlorobromomethane	Ave	0.2699	0.2626	0.1500	0.00973	0.0100	-2.7	20.0
2-Chloroethyl vinyl ether	Ave	0.1373	0.1265		0.00921	0.0100	-7.9	20.0
cis-1,3-Dichloropropene	Ave	0.3372	0.3260	0.1500	0.00967	0.0100	-3.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1690	0.1646	0.0500	0.0195	0.0200	-2.6	20.0
Toluene	Ave	1.624	1.516	0.4000	0.00934	0.0100	-6.6	20.0
trans-1,3-Dichloropropene	Ave	0.3595	0.3440	0.1000	0.00957	0.0100	-4.3	20.0
Ethyl methacrylate	Ave	0.3684	0.3820		0.0104	0.0100	3.7	20.0
1,1,2-Trichloroethane	Ave	0.3025	0.2898	0.1000	0.00958	0.0100	-4.2	20.0
Tetrachloroethene	Ave	0.3511	0.3343	0.1500	0.00952	0.0100	-4.8	20.0
1,3-Dichloropropane	Ave	0.5438	0.5231		0.00962	0.0100	-3.8	20.0
2-Hexanone	Ave	0.1570	0.1515	0.0500	0.0193	0.0200	-3.5	20.0
Chlorodibromomethane	Ave	0.2565	0.2459		0.00959	0.0100	-4.1	20.0
Ethylene Dibromide	Ave	0.2852	0.2862		0.0100	0.0100	0.4	20.0
Chlorobenzene	Ave	1.093	1.008	0.3000	0.00923	0.0100	-7.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3183	0.3097		0.00973	0.0100	-2.7	20.0
Ethylbenzene	Ave	0.5549	0.5172		0.00932	0.0100	-6.8	20.0
m-Xylene & p-Xylene	Ave	0.7358	0.6656		0.00905	0.0100	-9.5	20.0
o-Xylene	Ave	0.6642	0.6301		0.00949	0.0100	-5.1	20.0
Styrene	Ave	1.083	1.070	0.3000	0.00988	0.0100	-1.2	20.0
Bromoform	Ave	0.1458	0.1474	0.1000	0.0101	0.0100	1.1	20.0
Isopropylbenzene	Ave	1.611	1.574	0.1000	0.00977	0.0100	-2.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6392	0.5752	0.3000	0.00900	0.0100	-10.0	20.0
Bromobenzene	Ave	0.8753	0.7955		0.00909	0.0100	-9.1	20.0
1,2,3-Trichloropropane	Ave	0.2282	0.2156		0.00945	0.0100	-5.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1403	0.1363		0.00972	0.0100	-2.8	20.0
N-Propylbenzene	Ave	0.7932	0.7654		0.00965	0.0100	-3.5	20.0
2-Chlorotoluene	Ave	0.7477	0.6915		0.00925	0.0100	-7.5	20.0
1,3,5-Trimethylbenzene	Ave	2.374	2.216		0.00933	0.0100	-6.7	20.0
4-Chlorotoluene	Ave	0.7933	0.7172		0.00904	0.0100	-9.6	20.0
tert-Butylbenzene	Ave	2.050	1.907		0.00930	0.0100	-7.0	20.0
1,2,4-Trimethylbenzene	Ave	2.464	2.304		0.00935	0.0100	-6.5	20.0
sec-Butylbenzene	Ave	2.639	2.400		0.00909	0.0100	-9.1	20.0
1,3-Dichlorobenzene	Ave	1.578	1.390	0.6000	0.00881	0.0100	-11.9	20.0
4-Isopropyltoluene	Ave	2.334	2.210		0.00947	0.0100	-5.3	20.0
1,4-Dichlorobenzene	Ave	1.642	1.460	0.5000	0.00889	0.0100	-11.1	20.0
n-Butylbenzene	Ave	1.780	1.548		0.00869	0.0100	-13.1	20.0
1,2-Dichlorobenzene	Ave	1.534	1.337	0.4000	0.00872	0.0100	-12.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: ICV 240-233329/8 Calibration Date: 06/06/2016 19:21
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR2594.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	0.0990	0.0869	0.0500	0.00878	0.0100	-12.2	50.0
1,2,4-Trichlorobenzene	Ave	1.012	0.7892	0.2000	0.00780	0.0100	-22.0	50.0
Hexachlorobutadiene	Lin1		0.3006		0.00735	0.0100	-26.5*	20.0
Naphthalene	Ave	2.101	1.623		0.00773	0.0100	-22.7	50.0
1,2,3-Trichlorobenzene	Lin1		0.7104		0.00802	0.0100	-19.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2482	0.2242		0.00903	0.0100	-9.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2980	0.2630		0.00883	0.0100	-11.7	20.0
Toluene-d8 (Surr)	Ave	1.377	1.271		0.00923	0.0100	-7.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5114	0.4754		0.00930	0.0100	-7.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: ICV 240-233329/15 Calibration Date: 06/06/2016 21:58
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 19:44
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 21:36
 Lab File ID: UXR2601.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	0.0238		0.0941	0.100	-5.9	20.0
Isopropyl ether	Ave	0.2189	0.2316		0.0106	0.0100	5.8	20.0
2-Chloro-1,3-butadiene	Ave	0.3625	0.3818		0.0105	0.0100	5.3	20.0
Tert-butyl ethyl ether	Ave	0.6109	0.6248		0.0102	0.0100	2.3	20.0
Ethyl acetate	Ave	0.1510	0.1587		0.0210	0.0200	5.1	50.0
Propionitrile	Ave	0.0308	0.0307		0.0995	0.100	-0.5	20.0
Methacrylonitrile	Ave	0.1214	0.1212		0.0998	0.100	-0.2	20.0
Tert-amyl methyl ether	Ave	0.5274	0.5319		0.0101	0.0100	0.8	20.0
n-Butanol	Ave	0.0052	0.0039		0.190	0.250	-24.0*	20.0
Methyl methacrylate	Ave	0.1563	0.1625		0.0208	0.0200	3.9	20.0
2-Nitropropane	Ave	0.0305	0.0276		0.0181	0.0200	-9.5	20.0
1-Chlorohexane	Ave	0.3708	0.3767		0.0102	0.0100	1.6	20.0
Cyclohexanone	Ave	0.0117	0.0101		0.0866	0.100	-13.4	20.0
1,2,3-Trimethylbenzene	Ave	2.389	2.434		0.0102	0.0100	1.9	20.0
1,3,5-Trichlorobenzene	Ave	1.060	0.9553		0.00901	0.0100	-9.9	20.0
2-Methylnaphthalene	Ave	1.102	0.5297		0.00962	0.0200	-51.9*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-239593/2 Calibration Date: 07/25/2016 08:56
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR3480.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	0.3560	0.3783	0.1000	0.0106	0.0100	6.3	20.0
Chloromethane	Ave	0.3065	0.2395	0.1000	0.00781	0.0100	-21.9*	20.0
Vinyl chloride	Ave	0.2814	0.2670	0.1000	0.00949	0.0100	-5.1	20.0
Butadiene	Ave	0.2521	0.2161		0.00857	0.0100	-14.3	20.0
Bromomethane	Ave	0.0691	0.1073	0.0500	0.0155	0.0100	55.4*	20.0
Chloroethane	Ave	0.0811	0.0791	0.0500	0.00976	0.0100	-2.4	20.0
Dichlorofluoromethane	Ave	0.2750	0.3267		0.0119	0.0100	18.8	20.0
Trichlorofluoromethane	Ave	0.2596	0.3815	0.1000	0.0147	0.0100	46.9*	20.0
Ethyl ether	Ave	0.2310	0.2098		0.00908	0.0100	-9.2	20.0
Acrolein	Ave	0.0284	0.0334		0.0589	0.0500	17.8	50.0
1,1-Dichloroethene	Ave	0.2752	0.2896	0.1000	0.0105	0.0100	5.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2389	0.2898	0.0500	0.0121	0.0100	21.3*	20.0
Acetone	Lin1		0.0720	0.0100	0.0192	0.0200	-4.0	50.0
Iodomethane	Ave	0.4353	0.4802		0.0110	0.0100	10.3	20.0
Carbon disulfide	Ave	0.6945	0.6968	0.1000	0.0100	0.0100	0.3	20.0
3-Chloro-1-propene	Ave	0.1294	0.1342		0.0104	0.0100	3.7	20.0
Methyl acetate	Ave	0.1530	0.1367	0.1000	0.0447	0.0500	-10.6	20.0
Methylene Chloride	Lin1		0.3159	0.1000	0.0109	0.0100	8.6	50.0
2-Methyl-2-propanol	Ave	0.0150	0.0143		0.0955	0.100	-4.5	50.0
Acrylonitrile	Ave	0.0883	0.0785		0.0889	0.100	-11.1	20.0
Methyl tert-butyl ether	Ave	0.6499	0.6868	0.1000	0.0106	0.0100	5.7	20.0
trans-1,2-Dichloroethene	Ave	0.2827	0.2894	0.1000	0.0102	0.0100	2.4	20.0
Hexane	Ave	0.0704	0.0724		0.0103	0.0100	2.9	20.0
1,1-Dichloroethane	Ave	0.4672	0.4395	0.2000	0.00941	0.0100	-5.9	20.0
Vinyl acetate	Ave	0.3476	0.3467		0.00997	0.0100	-0.3	50.0
2,2-Dichloropropane	Ave	0.1909	0.1866		0.00978	0.0100	-2.2	20.0
cis-1,2-Dichloroethene	Ave	0.3038	0.2978	0.1000	0.00980	0.0100	-2.0	20.0
2-Butanone (MEK)	Ave	0.0952	0.0791	0.0100	0.0166	0.0200	-16.8	20.0
Chlorobromomethane	Ave	0.1515	0.1600		0.0106	0.0100	5.6	20.0
Tetrahydrofuran	Ave	0.0533	0.0480		0.0180	0.0200	-9.8	20.0
Chloroform	Ave	0.4624	0.4816	0.2000	0.0104	0.0100	4.2	20.0
1,1,1-Trichloroethane	Ave	0.3131	0.3375	0.1000	0.0108	0.0100	7.8	20.0
Cyclohexane	Ave	0.4247	0.3826	0.1000	0.00901	0.0100	-9.9	20.0
1,1-Dichloropropene	Ave	0.3777	0.3784		0.0100	0.0100	0.2	20.0
Carbon tetrachloride	Ave	0.2855	0.3478	0.1000	0.0122	0.0100	21.8*	20.0
Isobutyl alcohol	Ave	0.0075	0.0068		0.229	0.250	-8.4	20.0
Benzene	Ave	1.161	1.064	0.5000	0.00916	0.0100	-8.4	20.0
1,2-Dichloroethane	Ave	0.3608	0.3968	0.1000	0.0110	0.0100	10.0	20.0
n-Heptane	Ave	0.0594	0.0655		0.0110	0.0100	10.4	20.0
Trichloroethene	Ave	0.3222	0.3306	0.1500	0.0103	0.0100	2.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-239593/2 Calibration Date: 07/25/2016 08:56
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR3480.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	0.4026	0.3991	0.1000	0.00991	0.0100	-0.9	20.0
1,2-Dichloropropane	Ave	0.2473	0.2227	0.1000	0.00901	0.0100	-9.9	20.0
1,4-Dioxane	Ave	0.0029	0.0025		0.172	0.200	-14.1	50.0
Dibromomethane	Ave	0.1470	0.1547		0.0105	0.0100	5.3	20.0
Dichlorobromomethane	Ave	0.2699	0.3045	0.1500	0.0113	0.0100	12.8	20.0
2-Chloroethyl vinyl ether	Ave	0.1373	0.1263		0.0184	0.0200	-8.0	20.0
cis-1,3-Dichloropropene	Ave	0.3372	0.3474	0.1500	0.0103	0.0100	3.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1690	0.1585	0.0500	0.0188	0.0200	-6.2	20.0
Toluene	Ave	1.624	1.475	0.4000	0.00908	0.0100	-9.2	20.0
trans-1,3-Dichloropropene	Ave	0.3595	0.3784	0.1000	0.0105	0.0100	5.3	20.0
Ethyl methacrylate	Ave	0.3684	0.3464		0.00940	0.0100	-6.0	20.0
1,1,2-Trichloroethane	Ave	0.3025	0.2811	0.1000	0.00929	0.0100	-7.1	20.0
Tetrachloroethene	Ave	0.3511	0.3906	0.1500	0.0111	0.0100	11.2	20.0
1,3-Dichloropropane	Ave	0.5438	0.4797		0.00882	0.0100	-11.8	20.0
2-Hexanone	Ave	0.1570	0.1310	0.0500	0.0167	0.0200	-16.6	20.0
Chlorodibromomethane	Ave	0.2565	0.2920		0.0114	0.0100	13.9	20.0
Ethylene Dibromide	Ave	0.2852	0.2918		0.0102	0.0100	2.3	20.0
Chlorobenzene	Ave	1.093	1.029	0.3000	0.00941	0.0100	-5.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3183	0.3621		0.0114	0.0100	13.7	20.0
Ethylbenzene	Ave	0.5549	0.5286		0.00953	0.0100	-4.7	20.0
m-Xylene & p-Xylene	Ave	0.7358	0.6592		0.00896	0.0100	-10.4	20.0
o-Xylene	Ave	0.6642	0.6298		0.00948	0.0100	-5.2	20.0
Styrene	Ave	1.083	1.094	0.3000	0.0101	0.0100	1.0	20.0
Bromoform	Ave	0.1458	0.1789	0.1000	0.0123	0.0100	22.7*	20.0
Isopropylbenzene	Ave	1.611	1.608	0.1000	0.00998	0.0100	-0.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6392	0.5189	0.3000	0.00812	0.0100	-18.8	20.0
Bromobenzene	Ave	0.8753	0.8068		0.00922	0.0100	-7.8	20.0
1,2,3-Trichloropropane	Ave	0.2282	0.2065		0.00905	0.0100	-9.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1403	0.1331		0.00949	0.0100	-5.1	20.0
N-Propylbenzene	Ave	0.7932	0.7303		0.00921	0.0100	-7.9	20.0
2-Chlorotoluene	Ave	0.7477	0.6461		0.00864	0.0100	-13.6	20.0
1,3,5-Trimethylbenzene	Ave	2.374	2.160		0.00910	0.0100	-9.0	20.0
4-Chlorotoluene	Ave	0.7933	0.7112		0.00897	0.0100	-10.3	20.0
tert-Butylbenzene	Ave	2.050	1.893		0.00923	0.0100	-7.7	20.0
1,2,4-Trimethylbenzene	Ave	2.464	2.285		0.00927	0.0100	-7.3	20.0
sec-Butylbenzene	Ave	2.639	2.322		0.00880	0.0100	-12.0	20.0
1,3-Dichlorobenzene	Ave	1.578	1.447	0.6000	0.00917	0.0100	-8.3	20.0
4-Isopropyltoluene	Ave	2.334	2.164		0.00927	0.0100	-7.3	20.0
1,4-Dichlorobenzene	Ave	1.642	1.500	0.5000	0.00914	0.0100	-8.6	20.0
n-Butylbenzene	Ave	1.780	1.503		0.00844	0.0100	-15.6	20.0
1,2-Dichlorobenzene	Ave	1.534	1.394	0.4000	0.00909	0.0100	-9.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-239593/2 Calibration Date: 07/25/2016 08:56
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR3480.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	0.0990	0.0937	0.0500	0.00946	0.0100	-5.4	50.0
1,2,4-Trichlorobenzene	Ave	1.012	0.8017	0.2000	0.00792	0.0100	-20.8	50.0
Hexachlorobutadiene	Lin1		0.4066		0.0102	0.0100	2.2	20.0
Naphthalene	Ave	2.101	1.488		0.00708	0.0100	-29.2	50.0
1,2,3-Trichlorobenzene	Lin1		0.7793		0.00884	0.0100	-11.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2482	0.2902		0.0117	0.0100	16.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2980	0.3681		0.0124	0.0100	23.5*	20.0
Toluene-d8 (Surr)	Ave	1.377	1.326		0.00963	0.0100	-3.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5114	0.5218		0.0102	0.0100	2.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCV 240-239593/3 Calibration Date: 07/25/2016 09:41
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 19:44
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 21:36
 Lab File ID: UXR3482.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	0.0248		0.0982	0.100	-1.8	20.0
Isopropyl ether	Ave	0.2189	0.2284		0.0104	0.0100	4.3	20.0
2-Chloro-1,3-butadiene	Ave	0.3625	0.4110		0.0113	0.0100	13.4	20.0
Tert-butyl ethyl ether	Ave	0.6109	0.6629		0.0109	0.0100	8.5	20.0
Ethyl acetate	Ave	0.1510	0.1801		0.0238	0.0200	19.2	50.0
Propionitrile	Ave	0.0308	0.0322		0.105	0.100	4.6	20.0
Methacrylonitrile	Ave	0.1214	0.1296		0.107	0.100	6.7	20.0
Tert-amyl methyl ether	Ave	0.5274	0.5984		0.0113	0.0100	13.4	20.0
n-Butanol	Ave	0.0052	0.0050		0.239	0.250	-4.3	20.0
Methyl methacrylate	Ave	0.1563	0.1849		0.0237	0.0200	18.3	20.0
2-Nitropropane	Ave	0.0305	0.0373		0.0244	0.0200	22.0*	20.0
1-Chlorohexane	Ave	0.3708	0.3769		0.0102	0.0100	1.7	20.0
Cyclohexanone	Ave	0.0117	0.0099		0.0843	0.100	-15.7	20.0
1,2,3-Trimethylbenzene	Ave	2.389	2.446		0.0102	0.0100	2.4	20.0
1,3,5-Trichlorobenzene	Ave	1.060	1.009		0.00951	0.0100	-4.9	20.0
2-Methylnaphthalene	Ave	1.102	0.6442		0.0117	0.0200	-41.5*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-239778/2 Calibration Date: 07/26/2016 10:07
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR3508.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	0.3560	0.3910	0.1000	0.0110	0.0100	9.8	20.0
Chloromethane	Ave	0.3065	0.2334	0.1000	0.00762	0.0100	-23.8*	20.0
Vinyl chloride	Ave	0.2814	0.2597	0.1000	0.00923	0.0100	-7.7	20.0
Butadiene	Ave	0.2521	0.1692		0.00671	0.0100	-32.9*	20.0
Bromomethane	Ave	0.0691	0.0969	0.0500	0.0140	0.0100	40.3*	20.0
Chloroethane	Ave	0.0811	0.0641	0.0500	0.00790	0.0100	-21.0*	20.0
Dichlorofluoromethane	Ave	0.2750	0.3436		0.0125	0.0100	25.0*	20.0
Trichlorofluoromethane	Ave	0.2596	0.3983	0.1000	0.0153	0.0100	53.4*	20.0
Ethyl ether	Ave	0.2310	0.2283		0.00988	0.0100	-1.2	20.0
Acrolein	Ave	0.0284	0.0359		0.0633	0.0500	26.5	50.0
1,1-Dichloroethene	Ave	0.2752	0.2874	0.1000	0.0104	0.0100	4.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2389	0.2937	0.0500	0.0123	0.0100	23.0*	20.0
Acetone	Lin1		0.0818	0.0100	0.0221	0.0200	10.6	50.0
Iodomethane	Ave	0.4353	0.5123		0.0118	0.0100	17.7	20.0
Carbon disulfide	Ave	0.6945	0.6813	0.1000	0.00981	0.0100	-1.9	20.0
3-Chloro-1-propene	Ave	0.1294	0.1325		0.0102	0.0100	2.4	20.0
Methyl acetate	Ave	0.1530	0.1477	0.1000	0.0483	0.0500	-3.4	20.0
Methylene Chloride	Lin1		0.3007	0.1000	0.0103	0.0100	3.0	50.0
2-Methyl-2-propanol	Ave	0.0150	0.0150		0.100	0.100	0.1	50.0
Acrylonitrile	Ave	0.0883	0.0828		0.0938	0.100	-6.2	20.0
Methyl tert-butyl ether	Ave	0.6499	0.7053	0.1000	0.0109	0.0100	8.5	20.0
trans-1,2-Dichloroethene	Ave	0.2827	0.3063	0.1000	0.0108	0.0100	8.3	20.0
Hexane	Ave	0.0704	0.0716		0.0102	0.0100	1.8	20.0
1,1-Dichloroethane	Ave	0.4672	0.4563	0.2000	0.00977	0.0100	-2.3	20.0
Vinyl acetate	Ave	0.3476	0.3544		0.0102	0.0100	1.9	50.0
2,2-Dichloropropane	Ave	0.1909	0.2170		0.0114	0.0100	13.7	20.0
cis-1,2-Dichloroethene	Ave	0.3038	0.3138	0.1000	0.0103	0.0100	3.3	20.0
2-Butanone (MEK)	Ave	0.0952	0.0857	0.0100	0.0180	0.0200	-10.0	20.0
Chlorobromomethane	Ave	0.1515	0.1713		0.0113	0.0100	13.1	20.0
Tetrahydrofuran	Ave	0.0533	0.0500		0.0188	0.0200	-6.2	20.0
Chloroform	Ave	0.4624	0.5066	0.2000	0.0110	0.0100	9.6	20.0
1,1,1-Trichloroethane	Ave	0.3131	0.3794	0.1000	0.0121	0.0100	21.2*	20.0
Cyclohexane	Ave	0.4247	0.4011	0.1000	0.00944	0.0100	-5.6	20.0
1,1-Dichloropropene	Ave	0.3777	0.4028		0.0107	0.0100	6.6	20.0
Carbon tetrachloride	Ave	0.2855	0.3792	0.1000	0.0133	0.0100	32.8*	20.0
Isobutyl alcohol	Ave	0.0075	0.0068		0.229	0.250	-8.2	20.0
Benzene	Ave	1.161	1.110	0.5000	0.00956	0.0100	-4.4	20.0
1,2-Dichloroethane	Ave	0.3608	0.4413	0.1000	0.0122	0.0100	22.3*	20.0
n-Heptane	Ave	0.0594	0.0619		0.0104	0.0100	4.3	20.0
Trichloroethene	Ave	0.3222	0.3491	0.1500	0.0108	0.0100	8.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-239778/2 Calibration Date: 07/26/2016 10:07
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR3508.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	0.4026	0.4112	0.1000	0.0102	0.0100	2.1	20.0
1,2-Dichloropropane	Ave	0.2473	0.2252	0.1000	0.00911	0.0100	-8.9	20.0
1,4-Dioxane	Ave	0.0029	0.0026		0.184	0.200	-8.1	50.0
Dibromomethane	Ave	0.1470	0.1628		0.0111	0.0100	10.7	20.0
Dichlorobromomethane	Ave	0.2699	0.3123	0.1500	0.0116	0.0100	15.7	20.0
2-Chloroethyl vinyl ether	Ave	0.1373	0.1329		0.0194	0.0200	-3.2	20.0
cis-1,3-Dichloropropene	Ave	0.3372	0.3456	0.1500	0.0102	0.0100	2.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1690	0.1757	0.0500	0.0208	0.0200	4.0	20.0
Toluene	Ave	1.624	1.459	0.4000	0.00899	0.0100	-10.1	20.0
trans-1,3-Dichloropropene	Ave	0.3595	0.3682	0.1000	0.0102	0.0100	2.4	20.0
Ethyl methacrylate	Ave	0.3684	0.3699		0.0100	0.0100	0.4	20.0
1,1,2-Trichloroethane	Ave	0.3025	0.2861	0.1000	0.00946	0.0100	-5.4	20.0
Tetrachloroethene	Ave	0.3511	0.4058	0.1500	0.0116	0.0100	15.6	20.0
1,3-Dichloropropane	Ave	0.5438	0.4880		0.00897	0.0100	-10.3	20.0
2-Hexanone	Ave	0.1570	0.1465	0.0500	0.0187	0.0200	-6.7	20.0
Chlorodibromomethane	Ave	0.2565	0.2925		0.0114	0.0100	14.1	20.0
Ethylene Dibromide	Ave	0.2852	0.2930		0.0103	0.0100	2.8	20.0
Chlorobenzene	Ave	1.093	1.032	0.3000	0.00945	0.0100	-5.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3183	0.3542		0.0111	0.0100	11.3	20.0
Ethylbenzene	Ave	0.5549	0.5294		0.00954	0.0100	-4.6	20.0
m-Xylene & p-Xylene	Ave	0.7358	0.6655		0.00904	0.0100	-9.6	20.0
o-Xylene	Ave	0.6642	0.6360		0.00958	0.0100	-4.2	20.0
Styrene	Ave	1.083	1.104	0.3000	0.0102	0.0100	2.0	20.0
Bromoform	Ave	0.1458	0.1783	0.1000	0.0122	0.0100	22.3*	20.0
Isopropylbenzene	Ave	1.611	1.628	0.1000	0.0101	0.0100	1.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6392	0.5214	0.3000	0.00816	0.0100	-18.4	20.0
Bromobenzene	Ave	0.8753	0.8255		0.00943	0.0100	-5.7	20.0
1,2,3-Trichloropropane	Ave	0.2282	0.2206		0.00967	0.0100	-3.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1403	0.1385		0.00988	0.0100	-1.2	20.0
N-Propylbenzene	Ave	0.7932	0.7368		0.00929	0.0100	-7.1	20.0
2-Chlorotoluene	Ave	0.7477	0.6752		0.00903	0.0100	-9.7	20.0
1,3,5-Trimethylbenzene	Ave	2.374	2.189		0.00922	0.0100	-7.8	20.0
4-Chlorotoluene	Ave	0.7933	0.6996		0.00882	0.0100	-11.8	20.0
tert-Butylbenzene	Ave	2.050	1.898		0.00926	0.0100	-7.4	20.0
1,2,4-Trimethylbenzene	Ave	2.464	2.316		0.00940	0.0100	-6.0	20.0
sec-Butylbenzene	Ave	2.639	2.347		0.00889	0.0100	-11.1	20.0
1,3-Dichlorobenzene	Ave	1.578	1.481	0.6000	0.00939	0.0100	-6.1	20.0
4-Isopropyltoluene	Ave	2.334	2.227		0.00954	0.0100	-4.6	20.0
1,4-Dichlorobenzene	Ave	1.642	1.513	0.5000	0.00921	0.0100	-7.9	20.0
n-Butylbenzene	Ave	1.780	1.530		0.00859	0.0100	-14.1	20.0
1,2-Dichlorobenzene	Ave	1.534	1.380	0.4000	0.00899	0.0100	-10.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-239778/2 Calibration Date: 07/26/2016 10:07
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR3508.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	0.0990	0.0862	0.0500	0.00870	0.0100	-13.0	50.0
1,2,4-Trichlorobenzene	Ave	1.012	0.7755	0.2000	0.00766	0.0100	-23.4	50.0
Hexachlorobutadiene	Lin1		0.3938		0.00987	0.0100	-1.3	20.0
Naphthalene	Ave	2.101	1.454		0.00692	0.0100	-30.8	50.0
1,2,3-Trichlorobenzene	Lin1		0.7609		0.00862	0.0100	-13.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2482	0.2580		0.0104	0.0100	4.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2980	0.3255		0.0109	0.0100	9.2	20.0
Toluene-d8 (Surr)	Ave	1.377	1.194		0.00867	0.0100	-13.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5114	0.4814		0.00941	0.0100	-5.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-240005/2 Calibration Date: 07/27/2016 10:59
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR3538.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	0.3560	0.3410	0.1000	0.00958	0.0100	-4.2	20.0
Chloromethane	Ave	0.3065	0.2331	0.1000	0.00761	0.0100	-23.9*	20.0
Vinyl chloride	Ave	0.2814	0.2489	0.1000	0.00885	0.0100	-11.5	20.0
Butadiene	Ave	0.2521	0.2194		0.00870	0.0100	-13.0	20.0
Bromomethane	Ave	0.0691	0.1237	0.0500	0.0179	0.0100	79.1*	20.0
Chloroethane	Ave	0.0811	0.0911	0.0500	0.0112	0.0100	12.3	20.0
Dichlorofluoromethane	Ave	0.2750	0.3694		0.0134	0.0100	34.3*	20.0
Trichlorofluoromethane	Ave	0.2596	0.3936	0.1000	0.0152	0.0100	51.6*	20.0
Ethyl ether	Ave	0.2310	0.2122		0.00918	0.0100	-8.2	20.0
Acrolein	Ave	0.0284	0.0312		0.0551	0.0500	10.1	50.0
1,1-Dichloroethene	Ave	0.2752	0.2708	0.1000	0.00984	0.0100	-1.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2389	0.2709	0.0500	0.0113	0.0100	13.4	20.0
Acetone	Lin1		0.0638	0.0100	0.0168	0.0200	-16.1	50.0
Iodomethane	Ave	0.4353	0.5318		0.0122	0.0100	22.2*	20.0
Carbon disulfide	Ave	0.6945	0.6957	0.1000	0.0100	0.0100	0.2	20.0
3-Chloro-1-propene	Ave	0.1294	0.1307		0.0101	0.0100	1.0	20.0
Methyl acetate	Ave	0.1530	0.1335	0.1000	0.0436	0.0500	-12.7	20.0
Methylene Chloride	Lin1		0.2986	0.1000	0.0102	0.0100	2.2	50.0
2-Methyl-2-propanol	Ave	0.0150	0.0137		0.0914	0.100	-8.6	50.0
Acrylonitrile	Ave	0.0883	0.0767		0.0869	0.100	-13.1	20.0
Methyl tert-butyl ether	Ave	0.6499	0.6555	0.1000	0.0101	0.0100	0.9	20.0
trans-1,2-Dichloroethene	Ave	0.2827	0.2869	0.1000	0.0101	0.0100	1.5	20.0
Hexane	Ave	0.0704	0.0677		0.00962	0.0100	-3.8	20.0
1,1-Dichloroethane	Ave	0.4672	0.4405	0.2000	0.00943	0.0100	-5.7	20.0
Vinyl acetate	Ave	0.3476	0.3096		0.00891	0.0100	-10.9	50.0
2,2-Dichloropropane	Ave	0.1909	0.2181		0.0114	0.0100	14.3	20.0
2-Butanone (MEK)	Ave	0.0952	0.0727	0.0100	0.0153	0.0200	-23.6*	20.0
cis-1,2-Dichloroethene	Ave	0.3038	0.3036	0.1000	0.00999	0.0100	-0.0	20.0
Chlorobromomethane	Ave	0.1515	0.1586		0.0105	0.0100	4.7	20.0
Tetrahydrofuran	Ave	0.0533	0.0441		0.0166	0.0200	-17.2	20.0
Chloroform	Ave	0.4624	0.4903	0.2000	0.0106	0.0100	6.0	20.0
1,1,1-Trichloroethane	Ave	0.3131	0.3747	0.1000	0.0120	0.0100	19.7	20.0
Cyclohexane	Ave	0.4247	0.3771	0.1000	0.00888	0.0100	-11.2	20.0
1,1-Dichloropropene	Ave	0.3777	0.3747		0.00992	0.0100	-0.8	20.0
Carbon tetrachloride	Ave	0.2855	0.3707	0.1000	0.0130	0.0100	29.9*	20.0
Isobutyl alcohol	Ave	0.0075	0.0057		0.191	0.250	-23.5*	20.0
Benzene	Ave	1.161	1.061	0.5000	0.00913	0.0100	-8.7	20.0
1,2-Dichloroethane	Ave	0.3608	0.3961	0.1000	0.0110	0.0100	9.8	20.0
n-Heptane	Ave	0.0594	0.0663		0.0112	0.0100	11.6	20.0
Trichloroethene	Ave	0.3222	0.3305	0.1500	0.0103	0.0100	2.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-240005/2 Calibration Date: 07/27/2016 10:59
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR3538.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	0.4026	0.3928	0.1000	0.00975	0.0100	-2.5	20.0
1,2-Dichloropropane	Ave	0.2473	0.2280	0.1000	0.00922	0.0100	-7.8	20.0
1,4-Dioxane	Ave	0.0029	0.0024		0.168	0.200	-16.2	50.0
Dibromomethane	Ave	0.1470	0.1540		0.0105	0.0100	4.8	20.0
Dichlorobromomethane	Ave	0.2699	0.3080	0.1500	0.0114	0.0100	14.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1373	0.1251		0.0182	0.0200	-8.8	20.0
cis-1,3-Dichloropropene	Ave	0.3372	0.3419	0.1500	0.0101	0.0100	1.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1690	0.1535	0.0500	0.0182	0.0200	-9.2	20.0
Toluene	Ave	1.624	1.466	0.4000	0.00903	0.0100	-9.7	20.0
trans-1,3-Dichloropropene	Ave	0.3595	0.3631	0.1000	0.0101	0.0100	1.0	20.0
Ethyl methacrylate	Ave	0.3684	0.3380		0.00917	0.0100	-8.3	20.0
1,1,2-Trichloroethane	Ave	0.3025	0.2795	0.1000	0.00924	0.0100	-7.6	20.0
Tetrachloroethene	Ave	0.3511	0.3826	0.1500	0.0109	0.0100	9.0	20.0
1,3-Dichloropropane	Ave	0.5438	0.4692		0.00863	0.0100	-13.7	20.0
2-Hexanone	Ave	0.1570	0.1315	0.0500	0.0167	0.0200	-16.3	20.0
Chlorodibromomethane	Ave	0.2565	0.2895		0.0113	0.0100	12.9	20.0
Ethylene Dibromide	Ave	0.2852	0.2837		0.00995	0.0100	-0.5	20.0
Chlorobenzene	Ave	1.093	1.007	0.3000	0.00921	0.0100	-7.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3183	0.3507		0.0110	0.0100	10.2	20.0
Ethylbenzene	Ave	0.5549	0.5122		0.00923	0.0100	-7.7	20.0
m-Xylene & p-Xylene	Ave	0.7358	0.6582		0.00895	0.0100	-10.5	20.0
o-Xylene	Ave	0.6642	0.6198		0.00933	0.0100	-6.7	20.0
Styrene	Ave	1.083	1.053	0.3000	0.00973	0.0100	-2.7	20.0
Bromoform	Ave	0.1458	0.1698	0.1000	0.0116	0.0100	16.5	20.0
Isopropylbenzene	Ave	1.611	1.563	0.1000	0.00970	0.0100	-3.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6392	0.5013	0.3000	0.00784	0.0100	-21.6*	20.0
Bromobenzene	Ave	0.8753	0.8424		0.00962	0.0100	-3.8	20.0
1,2,3-Trichloropropane	Ave	0.2282	0.2059		0.00902	0.0100	-9.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1403	0.1357		0.00967	0.0100	-3.3	20.0
N-Propylbenzene	Ave	0.7932	0.7319		0.00923	0.0100	-7.7	20.0
2-Chlorotoluene	Ave	0.7477	0.6798		0.00909	0.0100	-9.1	20.0
1,3,5-Trimethylbenzene	Ave	2.374	2.169		0.00913	0.0100	-8.7	20.0
4-Chlorotoluene	Ave	0.7933	0.7017		0.00885	0.0100	-11.5	20.0
tert-Butylbenzene	Ave	2.050	1.907		0.00930	0.0100	-7.0	20.0
1,2,4-Trimethylbenzene	Ave	2.464	2.302		0.00934	0.0100	-6.6	20.0
sec-Butylbenzene	Ave	2.639	2.351		0.00891	0.0100	-10.9	20.0
1,3-Dichlorobenzene	Ave	1.578	1.459	0.6000	0.00925	0.0100	-7.5	20.0
4-Isopropyltoluene	Ave	2.334	2.197		0.00941	0.0100	-5.9	20.0
1,4-Dichlorobenzene	Ave	1.642	1.503	0.5000	0.00915	0.0100	-8.5	20.0
n-Butylbenzene	Ave	1.780	1.497		0.00841	0.0100	-15.9	20.0
1,2-Dichlorobenzene	Ave	1.534	1.385	0.4000	0.00903	0.0100	-9.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-240005/2 Calibration Date: 07/27/2016 10:59
 Instrument ID: A3UX17 Calib Start Date: 06/06/2016 17:07
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/06/2016 18:59
 Lab File ID: UXR3538.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	0.0990	0.0865	0.0500	0.00874	0.0100	-12.6	50.0
1,2,4-Trichlorobenzene	Ave	1.012	0.7976	0.2000	0.00788	0.0100	-21.2	50.0
Hexachlorobutadiene	Lin1		0.4191		0.0106	0.0100	5.6	20.0
Naphthalene	Ave	2.101	1.363		0.00649	0.0100	-35.1	50.0
1,2,3-Trichlorobenzene	Lin1		0.7400		0.00837	0.0100	-16.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2482	0.2456		0.00989	0.0100	-1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2980	0.3035		0.0102	0.0100	1.8	20.0
Toluene-d8 (Surr)	Ave	1.377	1.198		0.00870	0.0100	-13.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5114	0.4700		0.00919	0.0100	-8.1	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-239593/6
 Matrix: Water Lab File ID: UXR3484.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 10:26
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
71-43-2	Benzene	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-25-2	Bromoform	1.0	U	1.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
67-64-1	Acetone	10	U	10	0.94
74-87-3	Chloromethane	1.0	U	1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
74-83-9	Bromomethane	1.0	U	1.0	0.44
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
108-88-3	Toluene	1.0	U	1.0	0.23
95-47-6	o-Xylene	1.0	U	1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
100-42-5	Styrene	1.0	U	1.0	0.45
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
75-00-3	Chloroethane	1.0	U	1.0	0.32
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
79-01-6	Trichloroethene	1.0	U	1.0	0.22
591-78-6	2-Hexanone	10	U	10	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-239593/6
 Matrix: Water Lab File ID: UXR3484.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 10:26
 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	10	U	10	0.53
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52
110-82-7	Cyclohexane	1.0	U	1.0	0.45
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
67-66-3	Chloroform	1.0	U	1.0	0.25
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		79-120
460-00-4	4-Bromofluorobenzene (Surr)	83		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-239778/6
 Matrix: Water Lab File ID: UXR3512.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 11:37
 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
71-43-2	Benzene	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-25-2	Bromoform	1.0	U	1.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
67-64-1	Acetone	10	U	10	0.94
74-87-3	Chloromethane	1.0	U	1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
74-83-9	Bromomethane	1.0	U	1.0	0.44
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
108-88-3	Toluene	1.0	U	1.0	0.23
95-47-6	o-Xylene	1.0	U	1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
100-42-5	Styrene	1.0	U	1.0	0.45
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
75-00-3	Chloroethane	1.0	U	1.0	0.32
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
79-01-6	Trichloroethene	1.0	U	1.0	0.22
591-78-6	2-Hexanone	10	U	10	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-239778/6
 Matrix: Water Lab File ID: UXR3512.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 11:37
 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	10	U	10	0.53
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52
110-82-7	Cyclohexane	1.0	U	1.0	0.45
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
67-66-3	Chloroform	1.0	U	1.0	0.25
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120
460-00-4	4-Bromofluorobenzene (Surr)	84		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-240005/6
 Matrix: Water Lab File ID: UXR3542.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/27/2016 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.: 240005 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
71-43-2	Benzene	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-25-2	Bromoform	1.0	U	1.0	0.56
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
67-64-1	Acetone	10	U	10	0.94
74-87-3	Chloromethane	1.0	U	1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
74-83-9	Bromomethane	1.0	U	1.0	0.44
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
108-88-3	Toluene	1.0	U	1.0	0.23
95-47-6	o-Xylene	1.0	U	1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
100-42-5	Styrene	1.0	U	1.0	0.45
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
75-00-3	Chloroethane	1.0	U	1.0	0.32
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
79-01-6	Trichloroethene	1.0	U	1.0	0.22
591-78-6	2-Hexanone	10	U	10	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-240005/6
 Matrix: Water Lab File ID: UXR3542.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/27/2016 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.: 240005 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	10	U	10	0.53
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52
110-82-7	Cyclohexane	1.0	U	1.0	0.45
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
67-66-3	Chloroform	1.0	U	1.0	0.25
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	82		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		79-120
460-00-4	4-Bromofluorobenzene (Surr)	82		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-239593/4
 Matrix: Water Lab File ID: UXR3481.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	8.62		1.0	0.32
71-55-6	1,1,1-Trichloroethane	12.9		1.0	0.44
95-50-1	1,2-Dichlorobenzene	9.51		1.0	0.25
541-73-1	1,3-Dichlorobenzene	9.73		1.0	0.19
106-46-7	1,4-Dichlorobenzene	9.51		1.0	0.27
71-43-2	Benzene	9.63		1.0	0.35
75-34-3	1,1-Dichloroethane	9.83		1.0	0.30
75-25-2	Bromoform	13.7		1.0	0.56
107-06-2	1,2-Dichloroethane	11.9		1.0	0.23
78-87-5	1,2-Dichloropropane	9.81		1.0	0.25
75-15-0	Carbon disulfide	10.3		1.0	0.38
79-00-5	1,1,2-Trichloroethane	9.91		1.0	0.24
108-90-7	Chlorobenzene	9.76		1.0	0.25
67-64-1	Acetone	18.0		10	0.94
74-87-3	Chloromethane	7.92		1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	10.8		1.0	0.46
108-10-1	4-Methyl-2-pentanone (MIBK)	21.6		10	0.99
75-71-8	Dichlorodifluoromethane	10.4		1.0	0.32
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12.9		1.0	0.45
79-20-9	Methyl acetate	48.7		10	2.3
1634-04-4	Methyl tert-butyl ether	11.4		1.0	0.20
75-09-2	Methylene Chloride	10.8		1.0	0.33
127-18-4	Tetrachloroethene	11.7		1.0	0.31
74-83-9	Bromomethane	17.0		1.0	0.44
124-48-1	Chlorodibromomethane	11.6		1.0	0.43
108-88-3	Toluene	9.56		1.0	0.23
95-47-6	o-Xylene	9.84		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	10.7		2.0	0.82
100-42-5	Styrene	10.3		1.0	0.45
156-60-5	trans-1,2-Dichloroethene	11.1		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	8.50		1.0	0.22
75-00-3	Chloroethane	10.0		1.0	0.32
75-35-4	1,1-Dichloroethene	10.7		1.0	0.45
79-01-6	Trichloroethene	11.3		1.0	0.22
591-78-6	2-Hexanone	19.1		10	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-239593/4
 Matrix: Water Lab File ID: UXR3481.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 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.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	17.9		10	0.53
100-41-4	Ethylbenzene	9.84		1.0	0.25
98-82-8	Isopropylbenzene	10.6		1.0	0.35
108-87-2	Methylcyclohexane	10.5		1.0	0.43
75-69-4	Trichlorofluoromethane	15.5		1.0	0.49
1330-20-7	Xylenes, Total	19.1		2.0	0.52
110-82-7	Cyclohexane	10.1		1.0	0.45
10061-02-6	trans-1,3-Dichloropropene	10.6		1.0	0.56
156-59-2	cis-1,2-Dichloroethene	10.4		1.0	0.26
67-66-3	Chloroform	11.1		1.0	0.25
179601-23-1	m-Xylene & p-Xylene	9.27		2.0	0.24
75-01-4	Vinyl chloride	9.35		1.0	0.29
106-93-4	Ethylene Dibromide	11.0		1.0	0.32
56-23-5	Carbon tetrachloride	14.1		1.0	0.43
75-27-4	Dichlorobromomethane	11.9		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		79-120
460-00-4	4-Bromofluorobenzene (Surr)	96		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-239778/4
 Matrix: Water Lab File ID: UXR3509.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 10:29
 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	8.88		1.0	0.32
71-55-6	1,1,1-Trichloroethane	12.7		1.0	0.44
95-50-1	1,2-Dichlorobenzene	9.46		1.0	0.25
541-73-1	1,3-Dichlorobenzene	9.70		1.0	0.19
106-46-7	1,4-Dichlorobenzene	9.68		1.0	0.27
71-43-2	Benzene	9.74		1.0	0.35
75-34-3	1,1-Dichloroethane	9.71		1.0	0.30
75-25-2	Bromoform	13.0		1.0	0.56
107-06-2	1,2-Dichloroethane	12.4		1.0	0.23
78-87-5	1,2-Dichloropropane	9.85		1.0	0.25
75-15-0	Carbon disulfide	10.1		1.0	0.38
79-00-5	1,1,2-Trichloroethane	9.76		1.0	0.24
108-90-7	Chlorobenzene	9.92		1.0	0.25
67-64-1	Acetone	18.0		10	0.94
74-87-3	Chloromethane	7.43		1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	10.6		1.0	0.46
108-10-1	4-Methyl-2-pentanone (MIBK)	21.5		10	0.99
75-71-8	Dichlorodifluoromethane	10.1		1.0	0.32
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12.4		1.0	0.45
79-20-9	Methyl acetate	49.3		10	2.3
1634-04-4	Methyl tert-butyl ether	11.4		1.0	0.20
75-09-2	Methylene Chloride	10.5		1.0	0.33
127-18-4	Tetrachloroethene	11.2		1.0	0.31
74-83-9	Bromomethane	16.8		1.0	0.44
124-48-1	Chlorodibromomethane	11.7		1.0	0.43
108-88-3	Toluene	9.51		1.0	0.23
95-47-6	o-Xylene	9.91		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	9.91		2.0	0.82
100-42-5	Styrene	10.5		1.0	0.45
156-60-5	trans-1,2-Dichloroethene	11.2		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	8.67		1.0	0.22
75-00-3	Chloroethane	9.90		1.0	0.32
75-35-4	1,1-Dichloroethene	10.3		1.0	0.45
79-01-6	Trichloroethene	11.1		1.0	0.22
591-78-6	2-Hexanone	19.5		10	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-239778/4
 Matrix: Water Lab File ID: UXR3509.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 10:29
 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	18.4		10	0.53
100-41-4	Ethylbenzene	9.74		1.0	0.25
98-82-8	Isopropylbenzene	10.5		1.0	0.35
108-87-2	Methylcyclohexane	9.95		1.0	0.43
75-69-4	Trichlorofluoromethane	15.5		1.0	0.49
1330-20-7	Xylenes, Total	19.3		2.0	0.52
110-82-7	Cyclohexane	9.35		1.0	0.45
10061-02-6	trans-1,3-Dichloropropene	10.2		1.0	0.56
156-59-2	cis-1,2-Dichloroethene	10.8		1.0	0.26
67-66-3	Chloroform	11.5		1.0	0.25
179601-23-1	m-Xylene & p-Xylene	9.35		2.0	0.24
75-01-4	Vinyl chloride	8.98		1.0	0.29
106-93-4	Ethylene Dibromide	10.7		1.0	0.32
56-23-5	Carbon tetrachloride	13.7		1.0	0.43
75-27-4	Dichlorobromomethane	12.1		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		79-120
460-00-4	4-Bromofluorobenzene (Surr)	96		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-240005/4
 Matrix: Water Lab File ID: UXR3539.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/27/2016 11:21
 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.: 240005 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	8.34		1.0	0.32
71-55-6	1,1,1-Trichloroethane	12.9		1.0	0.44
95-50-1	1,2-Dichlorobenzene	9.19		1.0	0.25
541-73-1	1,3-Dichlorobenzene	9.52		1.0	0.19
106-46-7	1,4-Dichlorobenzene	9.44		1.0	0.27
71-43-2	Benzene	9.64		1.0	0.35
75-34-3	1,1-Dichloroethane	9.79		1.0	0.30
75-25-2	Bromoform	12.2		1.0	0.56
107-06-2	1,2-Dichloroethane	11.8		1.0	0.23
78-87-5	1,2-Dichloropropane	9.90		1.0	0.25
75-15-0	Carbon disulfide	10.6		1.0	0.38
79-00-5	1,1,2-Trichloroethane	9.45		1.0	0.24
108-90-7	Chlorobenzene	9.55		1.0	0.25
67-64-1	Acetone	18.0		10	0.94
74-87-3	Chloromethane	6.79		1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	10.8		1.0	0.46
108-10-1	4-Methyl-2-pentanone (MIBK)	19.9		10	0.99
75-71-8	Dichlorodifluoromethane	8.76		1.0	0.32
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12.6		1.0	0.45
79-20-9	Methyl acetate	45.7		10	2.3
1634-04-4	Methyl tert-butyl ether	10.9		1.0	0.20
75-09-2	Methylene Chloride	10.7		1.0	0.33
127-18-4	Tetrachloroethene	11.0		1.0	0.31
74-83-9	Bromomethane	14.2		1.0	0.44
124-48-1	Chlorodibromomethane	11.4		1.0	0.43
108-88-3	Toluene	8.89		1.0	0.23
95-47-6	o-Xylene	9.59		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	9.28		2.0	0.82
100-42-5	Styrene	10.2		1.0	0.45
156-60-5	trans-1,2-Dichloroethene	11.0		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	8.08		1.0	0.22
75-00-3	Chloroethane	7.66		1.0	0.32
75-35-4	1,1-Dichloroethene	10.5		1.0	0.45
79-01-6	Trichloroethene	11.2		1.0	0.22
591-78-6	2-Hexanone	17.3		10	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-240005/4
 Matrix: Water Lab File ID: UXR3539.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 07/27/2016 11:21
 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.: 240005 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	17.4		10	0.53
100-41-4	Ethylbenzene	9.60		1.0	0.25
98-82-8	Isopropylbenzene	10.1		1.0	0.35
108-87-2	Methylcyclohexane	10.3		1.0	0.43
75-69-4	Trichlorofluoromethane	13.9		1.0	0.49
1330-20-7	Xylenes, Total	18.5		2.0	0.52
110-82-7	Cyclohexane	9.94		1.0	0.45
10061-02-6	trans-1,3-Dichloropropene	9.80		1.0	0.56
156-59-2	cis-1,2-Dichloroethene	10.4		1.0	0.26
67-66-3	Chloroform	11.1		1.0	0.25
179601-23-1	m-Xylene & p-Xylene	8.86		2.0	0.24
75-01-4	Vinyl chloride	8.47		1.0	0.29
106-93-4	Ethylene Dibromide	10.4		1.0	0.32
56-23-5	Carbon tetrachloride	13.8		1.0	0.43
75-27-4	Dichlorobromomethane	12.0		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		79-120
460-00-4	4-Bromofluorobenzene (Surr)	95		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-B-4 MS
 Matrix: Water Lab File ID: UXR3506.D
 Analysis Method: 8260C Date Collected: 07/19/2016 17:45
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 19:11
 Soil Aliquot Vol: _____ Dilution Factor: 1000
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	7690		1000	320
71-55-6	1,1,1-Trichloroethane	11600		1000	440
95-50-1	1,2-Dichlorobenzene	9200		1000	250
541-73-1	1,3-Dichlorobenzene	9160		1000	190
106-46-7	1,4-Dichlorobenzene	9380		1000	270
71-43-2	Benzene	9470		1000	350
75-34-3	1,1-Dichloroethane	9380		1000	300
75-25-2	Bromoform	12400		1000	560
107-06-2	1,2-Dichloroethane	12200		1000	230
78-87-5	1,2-Dichloropropane	9210		1000	250
75-15-0	Carbon disulfide	8740		1000	380
79-00-5	1,1,2-Trichloroethane	9480		1000	240
108-90-7	Chlorobenzene	9380		1000	250
67-64-1	Acetone	17500		10000	940
74-87-3	Chloromethane	6920		1000	440
10061-01-5	cis-1,3-Dichloropropene	10100		1000	460
108-10-1	4-Methyl-2-pentanone (MIBK)	20000		10000	990
75-71-8	Dichlorodifluoromethane	5690		1000	320
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5580		1000	450
79-20-9	Methyl acetate	47300		10000	2300
1634-04-4	Methyl tert-butyl ether	10900		1000	200
75-09-2	Methylene Chloride	10300		1000	330
127-18-4	Tetrachloroethene	9660		1000	310
74-83-9	Bromomethane	14400		1000	440
124-48-1	Chlorodibromomethane	11400		1000	430
108-88-3	Toluene	8890		1000	230
95-47-6	o-Xylene	9320		1000	250
96-12-8	1,2-Dibromo-3-Chloropropane	9620		2000	820
100-42-5	Styrene	10000		1000	450
156-60-5	trans-1,2-Dichloroethene	10600		1000	300
79-34-5	1,1,2,2-Tetrachloroethane	8310		1000	220
75-00-3	Chloroethane	9210		1000	320
75-35-4	1,1-Dichloroethene	9270		1000	450
79-01-6	Trichloroethene	10800		1000	220
591-78-6	2-Hexanone	18300		10000	480

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-B-4 MS
 Matrix: Water Lab File ID: UXR3506.D
 Analysis Method: 8260C Date Collected: 07/19/2016 17:45
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 19:11
 Soil Aliquot Vol: _____ Dilution Factor: 1000
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	18000		10000	530
100-41-4	Ethylbenzene	9180		1000	250
98-82-8	Isopropylbenzene	9240		1000	350
108-87-2	Methylcyclohexane	4390		1000	430
75-69-4	Trichlorofluoromethane	10100		1000	490
1330-20-7	Xylenes, Total	17900		2000	520
110-82-7	Cyclohexane	4490		1000	450
10061-02-6	trans-1,3-Dichloropropene	9390		1000	560
156-59-2	cis-1,2-Dichloroethene	19900		1000	260
67-66-3	Chloroform	11300		1000	250
179601-23-1	m-Xylene & p-Xylene	8560		2000	240
75-01-4	Vinyl chloride	24300		1000	290
106-93-4	Ethylene Dibromide	10500		1000	320
56-23-5	Carbon tetrachloride	11200		1000	430
75-27-4	Dichlorobromomethane	11300		1000	290

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		79-120
460-00-4	4-Bromofluorobenzene (Surr)	95		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-E-5 MS
 Matrix: Water Lab File ID: UXR3534.D
 Analysis Method: 8260C Date Collected: 07/19/2016 19:30
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 19:50
 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	6.41		1.0	0.32
71-55-6	1,1,1-Trichloroethane	10.7		1.0	0.44
95-50-1	1,2-Dichlorobenzene	8.16		1.0	0.25
541-73-1	1,3-Dichlorobenzene	8.09		1.0	0.19
106-46-7	1,4-Dichlorobenzene	7.92		1.0	0.27
71-43-2	Benzene	8.60		1.0	0.35
75-34-3	1,1-Dichloroethane	8.76		1.0	0.30
75-25-2	Bromoform	10.6		1.0	0.56
107-06-2	1,2-Dichloroethane	11.5		1.0	0.23
78-87-5	1,2-Dichloropropane	8.87		1.0	0.25
75-15-0	Carbon disulfide	8.86		1.0	0.38
79-00-5	1,1,2-Trichloroethane	9.14		1.0	0.24
108-90-7	Chlorobenzene	8.41		1.0	0.25
67-64-1	Acetone	16.6		10	0.94
74-87-3	Chloromethane	4.96		1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	8.05		1.0	0.46
108-10-1	4-Methyl-2-pentanone (MIBK)	19.3		10	0.99
75-71-8	Dichlorodifluoromethane	6.95		1.0	0.32
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.87		1.0	0.45
79-20-9	Methyl acetate	43.5		10	2.3
1634-04-4	Methyl tert-butyl ether	10.2		1.0	0.20
75-09-2	Methylene Chloride	9.08		1.0	0.33
127-18-4	Tetrachloroethene	9.10		1.0	0.31
74-83-9	Bromomethane	11.4		1.0	0.44
124-48-1	Chlorodibromomethane	10.3		1.0	0.43
108-88-3	Toluene	8.07		1.0	0.23
95-47-6	o-Xylene	8.16		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	8.78		2.0	0.82
100-42-5	Styrene	8.94		1.0	0.45
156-60-5	trans-1,2-Dichloroethene	9.91		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	7.93		1.0	0.22
75-00-3	Chloroethane	11.2		1.0	0.32
75-35-4	1,1-Dichloroethene	8.71		1.0	0.45
79-01-6	Trichloroethene	9.79		1.0	0.22
591-78-6	2-Hexanone	16.9		10	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-E-5 MS
 Matrix: Water Lab File ID: UXR3534.D
 Analysis Method: 8260C Date Collected: 07/19/2016 19:30
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 19:50
 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	16.5		10	0.53
100-41-4	Ethylbenzene	7.86		1.0	0.25
98-82-8	Isopropylbenzene	8.28		1.0	0.35
108-87-2	Methylcyclohexane	6.73		1.0	0.43
75-69-4	Trichlorofluoromethane	9.72		1.0	0.49
1330-20-7	Xylenes, Total	15.8		2.0	0.52
110-82-7	Cyclohexane	6.43		1.0	0.45
10061-02-6	trans-1,3-Dichloropropene	7.82		1.0	0.56
156-59-2	cis-1,2-Dichloroethene	9.57		1.0	0.26
67-66-3	Chloroform	10.5		1.0	0.25
179601-23-1	m-Xylene & p-Xylene	7.67		2.0	0.24
75-01-4	Vinyl chloride	7.83		1.0	0.29
106-93-4	Ethylene Dibromide	9.83		1.0	0.32
56-23-5	Carbon tetrachloride	11.2		1.0	0.43
75-27-4	Dichlorobromomethane	10.8		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		79-120
460-00-4	4-Bromofluorobenzene (Surr)	97		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-B-11 MS
 Matrix: Water Lab File ID: UXR3563.D
 Analysis Method: 8260C Date Collected: 07/19/2016 17:10
 Sample wt/vol: 5 (mL) Date Analyzed: 07/27/2016 20:39
 Soil Aliquot Vol: _____ Dilution Factor: 2500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 240005 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	18700		2500	800
71-55-6	1,1,1-Trichloroethane	30500		2500	1100
95-50-1	1,2-Dichlorobenzene	22700		2500	630
541-73-1	1,3-Dichlorobenzene	22900		2500	480
106-46-7	1,4-Dichlorobenzene	22700		2500	680
71-43-2	Benzene	23600		2500	880
75-34-3	1,1-Dichloroethane	23300		2500	750
75-25-2	Bromoform	30600		2500	1400
107-06-2	1,2-Dichloroethane	29300		2500	580
78-87-5	1,2-Dichloropropane	22500		2500	630
75-15-0	Carbon disulfide	24600		2500	950
79-00-5	1,1,2-Trichloroethane	24100		2500	600
108-90-7	Chlorobenzene	23400		2500	630
67-64-1	Acetone	40700		25000	2400
74-87-3	Chloromethane	14600		2500	1100
10061-01-5	cis-1,3-Dichloropropene	23800		2500	1200
108-10-1	4-Methyl-2-pentanone (MIBK)	46300		25000	2500
75-71-8	Dichlorodifluoromethane	12000		2500	800
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19100		2500	1100
79-20-9	Methyl acetate	109000		25000	5700
1634-04-4	Methyl tert-butyl ether	25900		2500	500
75-09-2	Methylene Chloride	25800		2500	830
127-18-4	Tetrachloroethene	26700		2500	780
74-83-9	Bromomethane	36200		2500	1100
124-48-1	Chlorodibromomethane	28100		2500	1100
108-88-3	Toluene	22700		2500	580
95-47-6	o-Xylene	23600		2500	630
96-12-8	1,2-Dibromo-3-Chloropropane	20600		5000	2100
100-42-5	Styrene	25400		2500	1100
156-60-5	trans-1,2-Dichloroethene	26900		2500	750
79-34-5	1,1,2,2-Tetrachloroethane	19800		2500	550
75-00-3	Chloroethane	19400		2500	800
75-35-4	1,1-Dichloroethene	24100		2500	1100
79-01-6	Trichloroethene	28900		2500	550
591-78-6	2-Hexanone	42000		25000	1200

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-B-11 MS
 Matrix: Water Lab File ID: UXR3563.D
 Analysis Method: 8260C Date Collected: 07/19/2016 17:10
 Sample wt/vol: 5 (mL) Date Analyzed: 07/27/2016 20:39
 Soil Aliquot Vol: _____ Dilution Factor: 2500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 240005 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	42100		25000	1300
100-41-4	Ethylbenzene	23000		2500	630
98-82-8	Isopropylbenzene	24400		2500	880
108-87-2	Methylcyclohexane	15800		2500	1100
75-69-4	Trichlorofluoromethane	22100		2500	1200
1330-20-7	Xylenes, Total	45600		5000	1300
110-82-7	Cyclohexane	15600		2500	1100
10061-02-6	trans-1,3-Dichloropropene	23200		2500	1400
156-59-2	cis-1,2-Dichloroethene	79100		2500	650
67-66-3	Chloroform	27900		2500	630
179601-23-1	m-Xylene & p-Xylene	22000		5000	600
75-01-4	Vinyl chloride	25100		2500	730
106-93-4	Ethylene Dibromide	26500		2500	800
56-23-5	Carbon tetrachloride	32200		2500	1100
75-27-4	Dichlorobromomethane	29000		2500	730

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	88		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120
460-00-4	4-Bromofluorobenzene (Surr)	95		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-B-4 MSD
 Matrix: Water Lab File ID: UXR3507.D
 Analysis Method: 8260C Date Collected: 07/19/2016 17:45
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 19:34
 Soil Aliquot Vol: _____ Dilution Factor: 1000
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	8230		1000	320
71-55-6	1,1,1-Trichloroethane	11600		1000	440
95-50-1	1,2-Dichlorobenzene	9360		1000	250
541-73-1	1,3-Dichlorobenzene	9180		1000	190
106-46-7	1,4-Dichlorobenzene	9140		1000	270
71-43-2	Benzene	9400		1000	350
75-34-3	1,1-Dichloroethane	9380		1000	300
75-25-2	Bromoform	12600		1000	560
107-06-2	1,2-Dichloroethane	12100		1000	230
78-87-5	1,2-Dichloropropane	9240		1000	250
75-15-0	Carbon disulfide	8940		1000	380
79-00-5	1,1,2-Trichloroethane	9740		1000	240
108-90-7	Chlorobenzene	9250		1000	250
67-64-1	Acetone	17700		10000	940
74-87-3	Chloromethane	6830		1000	440
10061-01-5	cis-1,3-Dichloropropene	9820		1000	460
108-10-1	4-Methyl-2-pentanone (MIBK)	20000		10000	990
75-71-8	Dichlorodifluoromethane	8690		1000	320
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11000		1000	450
79-20-9	Methyl acetate	47200		10000	2300
1634-04-4	Methyl tert-butyl ether	10800		1000	200
75-09-2	Methylene Chloride	10300		1000	330
127-18-4	Tetrachloroethene	10400		1000	310
74-83-9	Bromomethane	13400		1000	440
124-48-1	Chlorodibromomethane	10900		1000	430
108-88-3	Toluene	8910		1000	230
95-47-6	o-Xylene	9350		1000	250
96-12-8	1,2-Dibromo-3-Chloropropane	9650		2000	820
100-42-5	Styrene	9990		1000	450
156-60-5	trans-1,2-Dichloroethene	10500		1000	300
79-34-5	1,1,2,2-Tetrachloroethane	8510		1000	220
75-00-3	Chloroethane	6940		1000	320
75-35-4	1,1-Dichloroethene	9810		1000	450
79-01-6	Trichloroethene	10600		1000	220
591-78-6	2-Hexanone	19000		10000	480

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-B-4 MSD
 Matrix: Water Lab File ID: UXR3507.D
 Analysis Method: 8260C Date Collected: 07/19/2016 17:45
 Sample wt/vol: 5 (mL) Date Analyzed: 07/25/2016 19:34
 Soil Aliquot Vol: _____ Dilution Factor: 1000
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239593 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	17700		10000	530
100-41-4	Ethylbenzene	9200		1000	250
98-82-8	Isopropylbenzene	9580		1000	350
108-87-2	Methylcyclohexane	8430		1000	430
75-69-4	Trichlorofluoromethane	12400		1000	490
1330-20-7	Xylenes, Total	18100		2000	520
110-82-7	Cyclohexane	7860		1000	450
10061-02-6	trans-1,3-Dichloropropene	9600		1000	560
156-59-2	cis-1,2-Dichloroethene	20000		1000	260
67-66-3	Chloroform	11200		1000	250
179601-23-1	m-Xylene & p-Xylene	8710		2000	240
75-01-4	Vinyl chloride	25400		1000	290
106-93-4	Ethylene Dibromide	10800		1000	320
56-23-5	Carbon tetrachloride	12000		1000	430
75-27-4	Dichlorobromomethane	11500		1000	290

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	88		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120
460-00-4	4-Bromofluorobenzene (Surr)	99		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-H-5 MSD
 Matrix: Water Lab File ID: UXR3535.D
 Analysis Method: 8260C Date Collected: 07/19/2016 19:30
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 20:13
 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	7.56		1.0	0.32
71-55-6	1,1,1-Trichloroethane	11.0		1.0	0.44
95-50-1	1,2-Dichlorobenzene	8.35		1.0	0.25
541-73-1	1,3-Dichlorobenzene	8.51		1.0	0.19
106-46-7	1,4-Dichlorobenzene	8.44		1.0	0.27
71-43-2	Benzene	8.87		1.0	0.35
75-34-3	1,1-Dichloroethane	8.89		1.0	0.30
75-25-2	Bromoform	10.5		1.0	0.56
107-06-2	1,2-Dichloroethane	11.1		1.0	0.23
78-87-5	1,2-Dichloropropane	8.75		1.0	0.25
75-15-0	Carbon disulfide	9.17		1.0	0.38
79-00-5	1,1,2-Trichloroethane	9.49		1.0	0.24
108-90-7	Chlorobenzene	8.70		1.0	0.25
67-64-1	Acetone	16.4		10	0.94
74-87-3	Chloromethane	4.95		1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	8.64		1.0	0.46
108-10-1	4-Methyl-2-pentanone (MIBK)	19.5		10	0.99
75-71-8	Dichlorodifluoromethane	8.21		1.0	0.32
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10.2		1.0	0.45
79-20-9	Methyl acetate	42.9		10	2.3
1634-04-4	Methyl tert-butyl ether	10.4		1.0	0.20
75-09-2	Methylene Chloride	9.28		1.0	0.33
127-18-4	Tetrachloroethene	10.1		1.0	0.31
74-83-9	Bromomethane	7.85		1.0	0.44
124-48-1	Chlorodibromomethane	10.0		1.0	0.43
108-88-3	Toluene	8.44		1.0	0.23
95-47-6	o-Xylene	8.79		1.0	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	8.97		2.0	0.82
100-42-5	Styrene	9.28		1.0	0.45
156-60-5	trans-1,2-Dichloroethene	9.94		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	8.05		1.0	0.22
75-00-3	Chloroethane	5.54		1.0	0.32
75-35-4	1,1-Dichloroethene	9.29		1.0	0.45
79-01-6	Trichloroethene	9.89		1.0	0.22
591-78-6	2-Hexanone	16.7		10	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-H-5 MSD
 Matrix: Water Lab File ID: UXR3535.D
 Analysis Method: 8260C Date Collected: 07/19/2016 19:30
 Sample wt/vol: 5 (mL) Date Analyzed: 07/26/2016 20:13
 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.: 239778 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	15.9		10	0.53
100-41-4	Ethylbenzene	8.68		1.0	0.25
98-82-8	Isopropylbenzene	9.05		1.0	0.35
108-87-2	Methylcyclohexane	7.99		1.0	0.43
75-69-4	Trichlorofluoromethane	11.3		1.0	0.49
1330-20-7	Xylenes, Total	16.9		2.0	0.52
110-82-7	Cyclohexane	7.85		1.0	0.45
10061-02-6	trans-1,3-Dichloropropene	8.38		1.0	0.56
156-59-2	cis-1,2-Dichloroethene	9.76		1.0	0.26
67-66-3	Chloroform	10.5		1.0	0.25
179601-23-1	m-Xylene & p-Xylene	8.13		2.0	0.24
75-01-4	Vinyl chloride	7.71		1.0	0.29
106-93-4	Ethylene Dibromide	10.3		1.0	0.32
56-23-5	Carbon tetrachloride	11.7		1.0	0.43
75-27-4	Dichlorobromomethane	10.8		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	88		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120
460-00-4	4-Bromofluorobenzene (Surr)	96		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-B-11 MSD
 Matrix: Water Lab File ID: UXR3564.D
 Analysis Method: 8260C Date Collected: 07/19/2016 17:10
 Sample wt/vol: 5 (mL) Date Analyzed: 07/28/2016 01:26
 Soil Aliquot Vol: _____ Dilution Factor: 2500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 240005 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	19000		2500	800
71-55-6	1,1,1-Trichloroethane	29500		2500	1100
95-50-1	1,2-Dichlorobenzene	21900		2500	630
541-73-1	1,3-Dichlorobenzene	22200		2500	480
106-46-7	1,4-Dichlorobenzene	22500		2500	680
71-43-2	Benzene	23400		2500	880
75-34-3	1,1-Dichloroethane	23600		2500	750
75-25-2	Bromoform	28800		2500	1400
107-06-2	1,2-Dichloroethane	27100		2500	580
78-87-5	1,2-Dichloropropane	23400		2500	630
75-15-0	Carbon disulfide	26800		2500	950
79-00-5	1,1,2-Trichloroethane	21700		2500	600
108-90-7	Chlorobenzene	22900		2500	630
67-64-1	Acetone	37700		25000	2400
74-87-3	Chloromethane	17200		2500	1100
10061-01-5	cis-1,3-Dichloropropene	25200		2500	1200
108-10-1	4-Methyl-2-pentanone (MIBK)	36400		25000	2500
75-71-8	Dichlorodifluoromethane	18600		2500	800
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26600		2500	1100
79-20-9	Methyl acetate	89600		25000	5700
1634-04-4	Methyl tert-butyl ether	23600		2500	500
75-09-2	Methylene Chloride	27100		2500	830
127-18-4	Tetrachloroethene	26500		2500	780
74-83-9	Bromomethane	34600		2500	1100
124-48-1	Chlorodibromomethane	27400		2500	1100
108-88-3	Toluene	22600		2500	580
95-47-6	o-Xylene	23000		2500	630
96-12-8	1,2-Dibromo-3-Chloropropane	17700		5000	2100
100-42-5	Styrene	24400		2500	1100
156-60-5	trans-1,2-Dichloroethene	26800		2500	750
79-34-5	1,1,2,2-Tetrachloroethane	16800		2500	550
75-00-3	Chloroethane	18900		2500	800
75-35-4	1,1-Dichloroethene	26500		2500	1100
79-01-6	Trichloroethene	28600		2500	550
591-78-6	2-Hexanone	30700		25000	1200

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-B-11 MSD
 Matrix: Water Lab File ID: UXR3564.D
 Analysis Method: 8260C Date Collected: 07/19/2016 17:10
 Sample wt/vol: 5 (mL) Date Analyzed: 07/28/2016 01:26
 Soil Aliquot Vol: _____ Dilution Factor: 2500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 240005 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	2-Butanone (MEK)	32900		25000	1300
100-41-4	Ethylbenzene	22400		2500	630
98-82-8	Isopropylbenzene	24000		2500	880
108-87-2	Methylcyclohexane	20900		2500	1100
75-69-4	Trichlorofluoromethane	30200		2500	1200
1330-20-7	Xylenes, Total	44500		5000	1300
110-82-7	Cyclohexane	19600		2500	1100
10061-02-6	trans-1,3-Dichloropropene	23000		2500	1400
156-59-2	cis-1,2-Dichloroethene	80900		2500	650
67-66-3	Chloroform	27200		2500	630
179601-23-1	m-Xylene & p-Xylene	21500		5000	600
75-01-4	Vinyl chloride	26100		2500	730
106-93-4	Ethylene Dibromide	23100		2500	800
56-23-5	Carbon tetrachloride	32900		2500	1100
75-27-4	Dichlorobromomethane	28700		2500	730

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	88		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		79-120
460-00-4	4-Bromofluorobenzene (Surr)	93		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: A3UX17 Start Date: 06/06/2016 16:10Analysis Batch Number: 233329 End Date: 06/06/2016 21:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-233329/1		06/06/2016 16:10	1	BFB1120.D	DB-624 0.18 (mm)
STD8260 240-233329/2 IC		06/06/2016 17:07	1	UXR2588.D	DB-624 0.18 (mm)
STD8260 240-233329/3 IC		06/06/2016 17:29	1	UXR2589.D	DB-624 0.18 (mm)
STD8260 240-233329/4 ICIS		06/06/2016 17:52	1	UXR2590.D	DB-624 0.18 (mm)
STD8260 240-233329/5 IC		06/06/2016 18:14	1	UXR2591.D	DB-624 0.18 (mm)
STD8260 240-233329/6 IC		06/06/2016 18:36	1	UXR2592.D	DB-624 0.18 (mm)
STD8260 240-233329/7 IC		06/06/2016 18:59	1	UXR2593.D	DB-624 0.18 (mm)
ICV 240-233329/8		06/06/2016 19:21	1	UXR2594.D	DB-624 0.18 (mm)
STDA9 240-233329/9 IC		06/06/2016 19:44	1	UXR2595.D	DB-624 0.18 (mm)
STDA9 240-233329/10 IC		06/06/2016 20:06	1	UXR2596.D	DB-624 0.18 (mm)
STDA9 240-233329/11 IC		06/06/2016 20:28	1	UXR2597.D	DB-624 0.18 (mm)
STDA9 240-233329/12 IC		06/06/2016 20:51	1	UXR2598.D	DB-624 0.18 (mm)
STDA9 240-233329/13 IC		06/06/2016 21:13	1	UXR2599.D	DB-624 0.18 (mm)
STDA9 240-233329/14 IC		06/06/2016 21:36	1	UXR2600.D	DB-624 0.18 (mm)
ICV 240-233329/15		06/06/2016 21:58	1	UXR2601.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: A3UX17 Start Date: 07/25/2016 08:27

Analysis Batch Number: 239593 End Date: 07/25/2016 19:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-239593/1		07/25/2016 08:27	1	BFB1164.D	DB-624 0.18 (mm)
CCVIS 240-239593/2		07/25/2016 08:56	1	UXR3480.D	DB-624 0.18 (mm)
LCS 240-239593/4		07/25/2016 09:18	1	UXR3481.D	DB-624 0.18 (mm)
CCV 240-239593/3		07/25/2016 09:41	1	UXR3482.D	DB-624 0.18 (mm)
ZZZZZ		07/25/2016 10:03	1		DB-624 0.18 (mm)
MB 240-239593/6		07/25/2016 10:26	1	UXR3484.D	DB-624 0.18 (mm)
ZZZZZ		07/25/2016 10:52	166.67		DB-624 0.18 (mm)
ZZZZZ		07/25/2016 11:42	166.67		DB-624 0.18 (mm)
ZZZZZ		07/25/2016 12:05	166.67		DB-624 0.18 (mm)
ZZZZZ		07/25/2016 12:27	166.67		DB-624 0.18 (mm)
ZZZZZ		07/25/2016 12:50	166.67		DB-624 0.18 (mm)
ZZZZZ		07/25/2016 13:35	166.67		DB-624 0.18 (mm)
ZZZZZ		07/25/2016 13:57	166.67		DB-624 0.18 (mm)
240-67328-1		07/25/2016 14:20	1	UXR3493.D	DB-624 0.18 (mm)
240-67328-2		07/25/2016 14:42	1	UXR3494.D	DB-624 0.18 (mm)
240-67328-3		07/25/2016 15:05	15.38	UXR3495.D	DB-624 0.18 (mm)
240-67328-4		07/25/2016 15:27	1	UXR3496.D	DB-624 0.18 (mm)
240-67371-1		07/25/2016 15:50	1	UXR3497.D	DB-624 0.18 (mm)
240-67371-2		07/25/2016 16:12	1	UXR3498.D	DB-624 0.18 (mm)
240-67371-3		07/25/2016 16:34	1	UXR3499.D	DB-624 0.18 (mm)
240-67371-4		07/25/2016 16:57	2	UXR3500.D	DB-624 0.18 (mm)
ZZZZZ		07/25/2016 17:42	200		DB-624 0.18 (mm)
ZZZZZ		07/25/2016 18:04	250		DB-624 0.18 (mm)
ZZZZZ		07/25/2016 18:27	1000		DB-624 0.18 (mm)
ZZZZZ		07/25/2016 18:49	33.33		DB-624 0.18 (mm)
240-67437-B-4 MS		07/25/2016 19:11	1000	UXR3506.D	DB-624 0.18 (mm)
240-67437-B-4 MSD		07/25/2016 19:34	1000	UXR3507.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica CantonJob No.: 240-67328-1

SDG No.: _____

Instrument ID: A3UX17Start Date: 07/26/2016 09:23Analysis Batch Number: 239778End Date: 07/26/2016 20:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-239778/1		07/26/2016 09:23	1	BFB1165.D	DB-624 0.18 (mm)
CCVIS 240-239778/2		07/26/2016 10:07	1	UXR3508.D	DB-624 0.18 (mm)
LCS 240-239778/4		07/26/2016 10:29	1	UXR3509.D	DB-624 0.18 (mm)
CCV 240-239778/3		07/26/2016 10:52	1	UXR3510.D	DB-624 0.18 (mm)
ZZZZZ		07/26/2016 11:14	1		DB-624 0.18 (mm)
MB 240-239778/6		07/26/2016 11:37	1	UXR3512.D	DB-624 0.18 (mm)
ZZZZZ		07/26/2016 11:59	1.67		DB-624 0.18 (mm)
ZZZZZ		07/26/2016 12:22	1		DB-624 0.18 (mm)
ZZZZZ		07/26/2016 12:44	66.67		DB-624 0.18 (mm)
ZZZZZ		07/26/2016 13:06	333.33		DB-624 0.18 (mm)
ZZZZZ		07/26/2016 13:29	714.28		DB-624 0.18 (mm)
ZZZZZ		07/26/2016 13:52	1000		DB-624 0.18 (mm)
ZZZZZ		07/26/2016 14:14	333.33		DB-624 0.18 (mm)
ZZZZZ		07/26/2016 14:36	625		DB-624 0.18 (mm)
ZZZZZ		07/26/2016 14:59	333.33		DB-624 0.18 (mm)
ZZZZZ		07/26/2016 15:21	1000		DB-624 0.18 (mm)
ZZZZZ		07/26/2016 15:44	1		DB-624 0.18 (mm)
240-67443-1		07/26/2016 16:06	1	UXR3524.D	DB-624 0.18 (mm)
240-67443-2		07/26/2016 16:29	2.86	UXR3525.D	DB-624 0.18 (mm)
240-67443-3		07/26/2016 16:51	3.33	UXR3526.D	DB-624 0.18 (mm)
240-67443-4		07/26/2016 17:14	6.67	UXR3527.D	DB-624 0.18 (mm)
240-67443-5		07/26/2016 17:36	1	UXR3528.D	DB-624 0.18 (mm)
ZZZZZ		07/26/2016 19:28	666.67		DB-624 0.18 (mm)
240-67437-E-5 MS		07/26/2016 19:50	1	UXR3534.D	DB-624 0.18 (mm)
240-67437-H-5 MSD		07/26/2016 20:13	1	UXR3535.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: A3UX17 Start Date: 07/27/2016 10:26Analysis Batch Number: 240005 End Date: 07/28/2016 01:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-240005/1		07/27/2016 10:26	1	BFB1166.D	DB-624 0.18 (mm)
CCVIS 240-240005/2		07/27/2016 10:59	1	UXR3538.D	DB-624 0.18 (mm)
LCS 240-240005/4		07/27/2016 11:21	1	UXR3539.D	DB-624 0.18 (mm)
CCV 240-240005/3		07/27/2016 11:44	1	UXR3540.D	DB-624 0.18 (mm)
ZZZZZ		07/27/2016 12:06	1		DB-624 0.18 (mm)
MB 240-240005/6		07/27/2016 12:28	1	UXR3542.D	DB-624 0.18 (mm)
ZZZZZ		07/27/2016 13:10	2500		DB-624 0.18 (mm)
ZZZZZ		07/27/2016 13:33	500		DB-624 0.18 (mm)
240-67443-3		07/27/2016 13:55	3.33	UXR3545.D	DB-624 0.18 (mm)
240-67437-B-11 MS		07/27/2016 20:39	2500	UXR3563.D	DB-624 0.18 (mm)
240-67437-B-11 MSD		07/28/2016 01:26	2500	UXR3564.D	DB-624 0.18 (mm)

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): HP-PLOT/Q ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TFE1 #
MW-14B-071816	240-67328-2	109
SWMW-1I-071916	240-67371-2	100
SWMW-1I-071916	240-67371-2	114
SWMW-2I-071916	240-67371-3	104
SWMW-2I-071916	240-67371-3	102
SWMW-5I-071916	240-67371-4	104
SWMW-5I-071916	240-67371-4	107
SWMW-4I-072016	240-67443-3	93
SWMW-4I-072016	240-67443-3	103
	MB 240-239141/4	102
	MB 240-239364/4	111
	MB 240-239649/4	113
	LCS 240-239141/5	109
	LCS 240-239364/5	107
	LCS 240-239649/5	109
SWMW-1I-071916 MS	240-67371-2 MS	106
	240-67404-M-1 MS	103
	240-67437-E-4 MS	107
SWMW-1I-071916 MSD	240-67371-2 MSD	103
	240-67404-R-1 MSD	101
	240-67437-E-4 MSD	104

TFE = 1,1,1-Trifluoroethane

QC LIMITS
76-121

Column to be used to flag recovery values

FORM II RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0072105.D
 Lab ID: LCS 240-239141/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	364	104	79-132	
Ethane	374	398	106	76-131	
Methane	199	178	90	80-130	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0072205.D
 Lab ID: LCS 240-239364/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	346	99	79-132	
Ethane	374	386	103	76-131	
Methane	199	172	86	80-130	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0072505.D
 Lab ID: LCS 240-239649/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	332	95	79-132	
Ethane	374	360	96	76-131	
Methane	199	173	87	80-130	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0072207.D
 Lab ID: 240-67371-2 MS Client ID: SWMW-1I-071916 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethene	3490	58	3500	98	60-135	
Ethane	3740	11	3810	102	65-126	
Methane	1990	6700	8120	70	48-159	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0072112.D

Lab ID: 240-67404-M-1 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Methane	199	1.1	171	85	48-159	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0072509.D

Lab ID: 240-67437-E-4 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Methane	1990	5700	7740	104	48-159	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0072208.D

Lab ID: 240-67371-2 MSD Client ID: SWMW-1I-071916 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethene	3490	3380	95	3	10	60-135	
Ethane	3740	3720	99	2	11	65-126	
Methane	1990	8980	113	10	23	48-159	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0072113.D

Lab ID: 240-67404-R-1 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane	199	169	84	1	23	48-159	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0072510.D

Lab ID: 240-67437-E-4 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane	1990	7730	104	0	23	48-159	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: MB 240-239141/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) RSK0072104.D Lab File ID: (2) _____
 Date Analyzed: (1) 07/21/2016 13:26 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) HP-PLOT/Q 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
	LCS 240-239141/5	07/21/2016 13:44	
MW-14B-071816	240-67328-2	07/21/2016 14:18	
SWMW-1I-071916	240-67371-2	07/21/2016 14:35	
SWMW-2I-071916	240-67371-3	07/21/2016 14:53	
SWMW-5I-071916	240-67371-4	07/21/2016 15:10	
	240-67404-M-1 MS	07/21/2016 15:44	
	240-67404-R-1 MSD	07/21/2016 16:02	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: MB 240-239364/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) RSK0072204.D Lab File ID: (2) _____
 Date Analyzed: (1) 07/22/2016 15:12 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) HP-PLOT/Q 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
	LCS 240-239364/5	07/22/2016 15:30	
SWMW-1I-071916	240-67371-2	07/22/2016 15:47	
SWMW-1I-071916 MS	240-67371-2 MS	07/22/2016 16:05	
SWMW-1I-071916 MSD	240-67371-2 MSD	07/22/2016 16:22	
SWMW-2I-071916	240-67371-3	07/22/2016 16:39	
SWMW-5I-071916	240-67371-4	07/22/2016 16:57	
SWMW-4I-072016	240-67443-3	07/22/2016 21:00	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: MB 240-239649/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) RSK0072504.D Lab File ID: (2) _____
 Date Analyzed: (1) 07/25/2016 15:25 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) HP-PLOT/Q 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
	LCS 240-239649/5	07/25/2016 15:42	
	240-67437-E-4 MS	07/25/2016 16:51	
	240-67437-E-4 MSD	07/25/2016 17:09	
SWMW-4I-072016	240-67443-3	07/25/2016 18:01	

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Sample No.: STD3 240-214437/5 Date Analyzed: 01/18/2016 16:06
 Instrument ID: ZPID GC Column: _____ ID: ()
 Lab File ID (Standard): Z0011805.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
INITIAL CALIBRATION SURROGATE				3.33		
UPPER LIMIT				3.38		
LOWER LIMIT				3.28		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD3 240-214437/5 ICRT		01/18/2016 16:06	Z0011805.D	3.33		
ICV 240-214437/9		01/18/2016 17:08	Z0011809.D	3.33		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Sample No.: CCVRT 240-239141/3 Date Analyzed: 07/21/2016 13:09
 Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53 (mm)
 Lab File ID (Standard): RSK0072103.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.34		
UPPER LIMIT				3.39		
LOWER LIMIT				3.29		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-239141/3		07/21/2016 13:09	RSK0072103.D	3.34		
MB 240-239141/4		07/21/2016 13:26	RSK0072104.D	3.34		
LCS 240-239141/5		07/21/2016 13:44	RSK0072105.D	3.34		
240-67328-2	MW-14B-071816	07/21/2016 14:18	RSK0072107.D	3.34		
240-67371-2	SWMW-1I-071916	07/21/2016 14:35	RSK0072108.D	3.34		
240-67371-3	SWMW-2I-071916	07/21/2016 14:53	RSK0072109.D	3.34		
240-67371-4	SWMW-5I-071916	07/21/2016 15:10	RSK0072110.D	3.34		
240-67404-M-1 MS		07/21/2016 15:44	RSK0072112.D	3.34		
240-67404-R-1 MSD		07/21/2016 16:02	RSK0072113.D	3.34		
CCV 240-239141/14		07/21/2016 16:19	RSK0072114.D	3.34		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Sample No.: CCVRT 240-239364/3 Date Analyzed: 07/22/2016 14:55
 Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53 (mm)
 Lab File ID (Standard): RSK0072203.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.34		
UPPER LIMIT				3.39		
LOWER LIMIT				3.29		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-239364/3		07/22/2016 14:55	RSK0072203.D	3.34		
MB 240-239364/4		07/22/2016 15:12	RSK0072204.D	3.34		
LCS 240-239364/5		07/22/2016 15:30	RSK0072205.D	3.34		
240-67371-2	SWMW-1I-071916	07/22/2016 15:47	RSK0072206.D	3.34		
240-67371-2 MS	SWMW-1I-071916 MS	07/22/2016 16:05	RSK0072207.D	3.34		
240-67371-2 MSD	SWMW-1I-071916 MSD	07/22/2016 16:22	RSK0072208.D	3.34		
240-67371-3	SWMW-2I-071916	07/22/2016 16:39	RSK0072209.D	3.34		
240-67371-4	SWMW-5I-071916	07/22/2016 16:57	RSK0072210.D	3.34		
CCV 240-239364/14		07/22/2016 18:07	RSK0072214.D	3.34		
240-67443-3	SWMW-4I-072016	07/22/2016 21:00	RSK0072224.D	3.34		
CCV 240-239364/25		07/22/2016 21:18	RSK0072225.D	3.34		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Sample No.: CCVRT 240-239649/3 Date Analyzed: 07/25/2016 15:07
 Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53 (mm)
 Lab File ID (Standard): RSK0072503.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.34		
UPPER LIMIT				3.39		
LOWER LIMIT				3.29		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-239649/3		07/25/2016 15:07	RSK0072503.D	3.34		
MB 240-239649/4		07/25/2016 15:25	RSK0072504.D	3.34		
LCS 240-239649/5		07/25/2016 15:42	RSK0072505.D	3.34		
240-67437-E-4 MS		07/25/2016 16:51	RSK0072509.D	3.34		
240-67437-E-4 MSD		07/25/2016 17:09	RSK0072510.D	3.34		
240-67443-3	SWMW-4I-072016	07/25/2016 18:01	RSK0072513.D	3.34		
CCV 240-239649/14		07/25/2016 18:18	RSK0072514.D	3.34		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: MW-14B-071816 Lab Sample ID: 240-67328-2
 Matrix: Water Lab File ID: RSK0072107.D
 Analysis Method: RSK-175 Date Collected: 07/18/2016 10:20
 Sample wt/vol: 33 (mL) Date Analyzed: 07/21/2016 14:18
 Soil Aliquot Vol.: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	21		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	109		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SWMW-1I-071916 Lab Sample ID: 240-67371-2
 Matrix: Water Lab File ID: RSK0072108.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 10:20
 Sample wt/vol: 33 (mL) Date Analyzed: 07/21/2016 14:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	73		0.50	0.13
74-84-0	Ethane	14		0.50	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	100		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SWMW-1I-071916 Lab Sample ID: 240-67371-2
 Matrix: Water Lab File ID: RSK0072206.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 10:20
 Sample wt/vol: 33 (mL) Date Analyzed: 07/22/2016 15:47
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239364 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	6700		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	114		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SWMW-2I-071916 Lab Sample ID: 240-67371-3
 Matrix: Water Lab File ID: RSK0072109.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 12:19
 Sample wt/vol: 33 (mL) Date Analyzed: 07/21/2016 14:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	50		0.50	0.13
74-84-0	Ethane	0.77		0.50	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	104		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SWMW-2I-071916 Lab Sample ID: 240-67371-3
 Matrix: Water Lab File ID: RSK0072209.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 12:19
 Sample wt/vol: 33 (mL) Date Analyzed: 07/22/2016 16:39
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239364 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	16000		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	102		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SWMW-5I-071916 Lab Sample ID: 240-67371-4
 Matrix: Water Lab File ID: RSK0072110.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 15:05
 Sample wt/vol: 33 (mL) Date Analyzed: 07/21/2016 15:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	7.9		0.50	0.13
74-84-0	Ethane	0.18	J	0.50	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	104		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SWMW-5I-071916 Lab Sample ID: 240-67371-4
 Matrix: Water Lab File ID: RSK0072210.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 15:05
 Sample wt/vol: 33 (mL) Date Analyzed: 07/22/2016 16:57
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239364 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	11000		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	107		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SWMW-4I-072016 Lab Sample ID: 240-67443-3
 Matrix: Water Lab File ID: RSK0072224.D
 Analysis Method: RSK-175 Date Collected: 07/20/2016 11:28
 Sample wt/vol: 33 (mL) Date Analyzed: 07/22/2016 21:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239364 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	18		0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	93		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SWMW-4I-072016 Lab Sample ID: 240-67443-3
 Matrix: Water Lab File ID: RSK0072513.D
 Analysis Method: RSK-175 Date Collected: 07/20/2016 11:28
 Sample wt/vol: 33 (mL) Date Analyzed: 07/25/2016 18:01
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239649 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	19000		10	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	103		76-121

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Methane	1.178	1.179	1.178	1.177	1.176	1.175					1.125 - 1.225	1.177
Ethene	1.871	1.872	1.872	1.870	1.869	1.865					1.815 - 1.915	1.870
Acetylene	1.985	1.982	1.982	1.984	1.983	1.979					1.929 - 2.029	1.983
Ethane	2.191	2.192	2.188	2.190	2.189	2.179					1.979 - 2.379	2.188
Propane	4.535	4.535	4.532	4.530	4.526	4.505					4.455 - 4.555	4.527
1,1,1-Trifluoroethane	3.331	3.332	3.328	3.324	3.319						3.228 - 3.428	3.327

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-67328-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.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								
Methane	16635 16339	16394 17321	16338	16069	Ave		16516.1974			2.6			30.0			
Ethene	12459 15191	15005 16050	15614	14955	Ave		14878.7453			8.4			30.0			
Acetylene	5207.9 6736.9	5918.0 6848.7	6621.7	6347.3	Ave		6280.08282			9.9			30.0			
Ethane	12801 15860	15600 17080	16229	15623	Ave		15532.1681			9.3			30.0			
Propane	12702 15394	15026 17064	15933	14986	Ave		15184.1425			9.5			30.0			
1,1,1-Trifluoroethane	6027.5 6174.1	6495.1	6443.1	6377.0	Ave		6303.36685			3.1			30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-67328-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.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
Methane	Ave	4299 34421990	32590	162394	1597146	6493970	0.258 1987	1.99	9.94	99.4	397
Ethene	Ave	5654 56017687	52380	272536	2610268	10604119	0.454 3490	3.49	17.5	175	698
Acetylene	Ave	2187 22117246	19117	106950	1025188	4351198	0.420 3229	3.23	16.2	162	646
Ethane	Ave	6223 63858213	58336	303430	2921002	11859185	0.486 3739	3.74	18.7	187	748
Propane	Ave	9047 93473662	82323	436476	4105331	16864776	0.712 5478	5.48	27.4	274	1096
1,1,1-Trifluoroethane	Ave	1572249	6776913	16806617	33268209	64418942	261	1043	2608	5217	10434

Curve Type Legend:

Ave = Average

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: ICV 240-214437/9 Calibration Date: 01/18/2016 17:08
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: Z0011809.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15087		182	199	-8.7	30.0
Ethene	Ave	14879	16432		385	349	10.4	30.0
Acetylene	Ave	6280	6935		357	323	10.4	30.0
Ethane	Ave	15532	17873		430	374	15.1	30.0
Propane	Ave	15184	18496		665	546	21.8	30.0
1,1,1-Trifluoroethane	Ave	6303	7158		3470	3050	13.6	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: ICV 240-214437/9 Calibration Date: 01/18/2016 17:08
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: Z0011809.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.98	1.93	2.03
Ethane	2.19	1.98	2.38
Propane	4.53	4.46	4.56
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-239141/3 Calibration Date: 07/21/2016 13:09
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072103.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	13855		167	199	-16.1	30.0
Ethene	Ave	14879	14398		338	349	-3.2	30.0
Acetylene	Ave	6280	5767		297	323	-8.2	30.0
Ethane	Ave	15532	15585		375	374	0.3	30.0
Propane	Ave	15184	15184		548	548	0.0	30.0
1,1,1-Trifluoroethane	Ave	6303	6512		3150	3050	3.3	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-239141/3 Calibration Date: 07/21/2016 13:09
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072103.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCV 240-239141/14 Calibration Date: 07/21/2016 16:19
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072114.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	14179		171	199	-14.1	30.0
Ethene	Ave	14879	14179		333	349	-4.7	30.0
Acetylene	Ave	6280	5409		278	323	-13.9	30.0
Ethane	Ave	15532	15811		381	374	1.8	30.0
Propane	Ave	15184	15459		558	548	1.8	30.0
1,1,1-Trifluoroethane	Ave	6303	6402		3100	3050	1.6	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCV 240-239141/14 Calibration Date: 07/21/2016 16:19
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072114.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-239364/3 Calibration Date: 07/22/2016 14:55
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072203.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	13838		167	199	-16.2	30.0
Ethene	Ave	14879	14135		332	349	-5.0	30.0
Acetylene	Ave	6280	5502		283	323	-12.4	30.0
Ethane	Ave	15532	15398		371	374	-0.9	30.0
Propane	Ave	15184	14816		534	548	-2.4	30.0
1,1,1-Trifluoroethane	Ave	6303	6515		3150	3050	3.4	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-239364/3 Calibration Date: 07/22/2016 14:55
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072203.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCV 240-239364/14 Calibration Date: 07/22/2016 18:07
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072214.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	14008		169	199	-15.2	30.0
Ethene	Ave	14879	13993		328	349	-6.0	30.0
Acetylene	Ave	6280	5291		272	323	-15.7	30.0
Ethane	Ave	15532	15431		371	374	-0.7	30.0
Propane	Ave	15184	14716		531	548	-3.1	30.0
1,1,1-Trifluoroethane	Ave	6303	6311		3060	3050	0.1	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCV 240-239364/14 Calibration Date: 07/22/2016 18:07
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072214.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCV 240-239364/25 Calibration Date: 07/22/2016 21:18
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072225.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	14103		170	199	-14.6	30.0
Ethene	Ave	14879	13604		319	349	-8.6	30.0
Acetylene	Ave	6280	5324		274	323	-15.2	30.0
Ethane	Ave	15532	15452		372	374	-0.5	30.0
Propane	Ave	15184	14935		539	548	-1.6	30.0
1,1,1-Trifluoroethane	Ave	6303	6073		2940	3050	-3.7	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCV 240-239364/25 Calibration Date: 07/22/2016 21:18
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072225.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.55	4.50	4.60
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-239649/3 Calibration Date: 07/25/2016 15:07
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	14480		174	199	-12.3	30.0
Ethene	Ave	14879	14444		339	349	-2.9	30.0
Acetylene	Ave	6280	6965		358	323	10.9	30.0
Ethane	Ave	15532	15190		366	374	-2.2	30.0
Propane	Ave	15184	15246		550	548	0.4	30.0
1,1,1-Trifluoroethane	Ave	6303	6839		3310	3050	8.5	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-239649/3 Calibration Date: 07/25/2016 15:07
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072503.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.55	4.50	4.60
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCV 240-239649/14 Calibration Date: 07/25/2016 18:18
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072514.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	14043		169	199	-15.0	30.0
Ethene	Ave	14879	13326		313	349	-10.4	30.0
Acetylene	Ave	6280	5506		283	323	-12.3	30.0
Ethane	Ave	15532	14574		351	374	-6.2	30.0
Propane	Ave	15184	14631		528	548	-3.6	30.0
1,1,1-Trifluoroethane	Ave	6303	6358		3080	3050	0.9	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Lab Sample ID: CCV 240-239649/14 Calibration Date: 07/25/2016 18:18
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0072514.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-239141/4
 Matrix: Water Lab File ID: RSK0072104.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 07/21/2016 13:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	102		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-239364/4
 Matrix: Water Lab File ID: RSK0072204.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 07/22/2016 15:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239364 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	111		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-239649/4
 Matrix: Water Lab File ID: RSK0072504.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 07/25/2016 15:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239649 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	113		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-239141/5
 Matrix: Water Lab File ID: RSK0072105.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 07/21/2016 13:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	364		0.50	0.13
74-84-0	Ethane	398		0.50	0.14
74-82-8	Methane	178		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	109		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-239364/5
 Matrix: Water Lab File ID: RSK0072205.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 07/22/2016 15:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239364 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	346		0.50	0.13
74-84-0	Ethane	386		0.50	0.14
74-82-8	Methane	172		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	107		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-239649/5
 Matrix: Water Lab File ID: RSK0072505.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 07/25/2016 15:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239649 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	332		0.50	0.13
74-84-0	Ethane	360		0.50	0.14
74-82-8	Methane	173		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	109		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SWMW-1I-071916 MS Lab Sample ID: 240-67371-2 MS
 Matrix: Water Lab File ID: RSK0072207.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 10:20
 Sample wt/vol: 33 (mL) Date Analyzed: 07/22/2016 16:05
 Soil Aliquot Vol.: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239364 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	3500		5.0	1.3
74-84-0	Ethane	3810		5.0	1.4
74-82-8	Methane	8120		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	106		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67404-M-1 MS
 Matrix: Water Lab File ID: RSK0072112.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 09:30
 Sample wt/vol: 33 (mL) Date Analyzed: 07/21/2016 15:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	171		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	103		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-E-4 MS
 Matrix: Water Lab File ID: RSK0072509.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 17:45
 Sample wt/vol: 33 (mL) Date Analyzed: 07/25/2016 16:51
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239649 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	7740		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	107		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: SWMW-1I-071916 MSD Lab Sample ID: 240-67371-2 MSD
 Matrix: Water Lab File ID: RSK0072208.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 10:20
 Sample wt/vol: 33 (mL) Date Analyzed: 07/22/2016 16:22
 Soil Aliquot Vol.: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239364 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	3380		5.0	1.3
74-84-0	Ethane	3720		5.0	1.4
74-82-8	Methane	8980		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	103		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67404-R-1 MSD
 Matrix: Water Lab File ID: RSK0072113.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 09:30
 Sample wt/vol: 33 (mL) Date Analyzed: 07/21/2016 16:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	169		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	101		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-67437-E-4 MSD
 Matrix: Water Lab File ID: RSK0072510.D
 Analysis Method: RSK-175 Date Collected: 07/19/2016 17:45
 Sample wt/vol: 33 (mL) Date Analyzed: 07/25/2016 17:09
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 239649 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	7730		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	104		76-121

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: ZPID Start Date: 01/18/2016 15:34

Analysis Batch Number: 214437 End Date: 01/18/2016 17:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-214437/3 IC		01/18/2016 15:34	1	Z0011803.D	
STD2 240-214437/4 IC		01/18/2016 15:50	1	Z0011804.D	
STD3 240-214437/5 ICRT		01/18/2016 16:06	1	Z0011805.D	
STD4 240-214437/6 IC		01/18/2016 16:21	1	Z0011806.D	
STD5 240-214437/7 IC		01/18/2016 16:37	1	Z0011807.D	
STD6 240-214437/8 IC		01/18/2016 16:53	1	Z0011808.D	
ICV 240-214437/9		01/18/2016 17:08	1	Z0011809.D	

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: ZPID Start Date: 07/21/2016 13:09

Analysis Batch Number: 239141 End Date: 07/21/2016 17:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-239141/3		07/21/2016 13:09	1	RSK0072103.D	HP-PLOT/Q 0.53 (mm)
MB 240-239141/4		07/21/2016 13:26	1	RSK0072104.D	HP-PLOT/Q 0.53 (mm)
LCS 240-239141/5		07/21/2016 13:44	1	RSK0072105.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/21/2016 14:01	2		HP-PLOT/Q 0.53 (mm)
240-67328-2		07/21/2016 14:18	1	RSK0072107.D	HP-PLOT/Q 0.53 (mm)
240-67371-2		07/21/2016 14:35	1	RSK0072108.D	HP-PLOT/Q 0.53 (mm)
240-67371-3		07/21/2016 14:53	1	RSK0072109.D	HP-PLOT/Q 0.53 (mm)
240-67371-4		07/21/2016 15:10	1	RSK0072110.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/21/2016 15:27	1		HP-PLOT/Q 0.53 (mm)
240-67404-M-1 MS		07/21/2016 15:44	1	RSK0072112.D	HP-PLOT/Q 0.53 (mm)
240-67404-R-1 MSD		07/21/2016 16:02	1	RSK0072113.D	HP-PLOT/Q 0.53 (mm)
CCV 240-239141/14		07/21/2016 16:19	1	RSK0072114.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/21/2016 16:36	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/21/2016 16:53	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/21/2016 17:11	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/21/2016 17:28	1		HP-PLOT/Q 0.53 (mm)
CCV 240-239141/19		07/21/2016 17:45	1		HP-PLOT/Q 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: ZPID Start Date: 07/22/2016 14:55Analysis Batch Number: 239364 End Date: 07/22/2016 21:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-239364/3		07/22/2016 14:55	1	RSK0072203.D	HP-PLOT/Q 0.53 (mm)
MB 240-239364/4		07/22/2016 15:12	1	RSK0072204.D	HP-PLOT/Q 0.53 (mm)
LCS 240-239364/5		07/22/2016 15:30	1	RSK0072205.D	HP-PLOT/Q 0.53 (mm)
240-67371-2		07/22/2016 15:47	10	RSK0072206.D	HP-PLOT/Q 0.53 (mm)
240-67371-2 MS		07/22/2016 16:05	10	RSK0072207.D	HP-PLOT/Q 0.53 (mm)
240-67371-2 MSD		07/22/2016 16:22	10	RSK0072208.D	HP-PLOT/Q 0.53 (mm)
240-67371-3		07/22/2016 16:39	10	RSK0072209.D	HP-PLOT/Q 0.53 (mm)
240-67371-4		07/22/2016 16:57	10	RSK0072210.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 17:14	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 17:32	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 17:49	1		HP-PLOT/Q 0.53 (mm)
CCV 240-239364/14		07/22/2016 18:07	1	RSK0072214.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 18:24	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 18:41	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 18:59	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 19:16	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 19:34	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 19:51	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 20:09	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 20:26	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/22/2016 20:43	1		HP-PLOT/Q 0.53 (mm)
240-67443-3		07/22/2016 21:00	1	RSK0072224.D	HP-PLOT/Q 0.53 (mm)
CCV 240-239364/25		07/22/2016 21:18	1	RSK0072225.D	HP-PLOT/Q 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: ZPID Start Date: 07/25/2016 15:07Analysis Batch Number: 239649 End Date: 07/25/2016 20:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-239649/3		07/25/2016 15:07	1	RSK0072503.D	HP-PLOT/Q 0.53 (mm)
MB 240-239649/4		07/25/2016 15:25	1	RSK0072504.D	HP-PLOT/Q 0.53 (mm)
LCS 240-239649/5		07/25/2016 15:42	1	RSK0072505.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/25/2016 15:59	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/25/2016 16:17	2		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/25/2016 16:34	10		HP-PLOT/Q 0.53 (mm)
240-67437-E-4 MS		07/25/2016 16:51	10	RSK0072509.D	HP-PLOT/Q 0.53 (mm)
240-67437-E-4 MSD		07/25/2016 17:09	10	RSK0072510.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/25/2016 17:26	5		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/25/2016 17:43	10		HP-PLOT/Q 0.53 (mm)
240-67443-3		07/25/2016 18:01	20	RSK0072513.D	HP-PLOT/Q 0.53 (mm)
CCV 240-239649/14		07/25/2016 18:18	1	RSK0072514.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/25/2016 18:35	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/25/2016 18:53	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/25/2016 19:10	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/25/2016 19:27	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		07/25/2016 19:44	1		HP-PLOT/Q 0.53 (mm)
CCV 240-239649/20		07/25/2016 20:02	1		HP-PLOT/Q 0.53 (mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton

Job Number: 240-67328-1

SDG No.: _____

Project: MRC Block G Month Sampling

Client Sample ID	Lab Sample ID
<u>MW-14B-071816</u>	<u>240-67328-2</u>
<u>SWMW-1I-071916</u>	<u>240-67371-2</u>
<u>SWMW-2I-071916</u>	<u>240-67371-3</u>
<u>SWMW-5I-071916</u>	<u>240-67371-4</u>
<u>SWMW-4I-072016</u>	<u>240-67443-3</u>
<u>SWMW-3I-072016</u>	<u>240-67443-4</u>
<u>BLOCK G OUTFALL-072016</u>	<u>240-67443-5</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW-14B-071816

Lab Sample ID: 240-67328-2

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/18/2016 10:20

Reporting Basis: WET

Date Received: 07/19/2016 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	12000	100	25	ug/L			1	6010C
7439-96-5	Manganese	950	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: SWMW-1I-071916

Lab Sample ID: 240-67371-2

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/19/2016 10:20

Reporting Basis: WET

Date Received: 07/20/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	16000	100	25	ug/L			1	6010C
7439-96-5	Manganese	1600	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: SWMW-2I-071916

Lab Sample ID: 240-67371-3

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/19/2016 12:19

Reporting Basis: WET

Date Received: 07/20/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	33000	100	25	ug/L			1	6010C
7439-96-5	Manganese	1000	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: SWMW-5I-071916

Lab Sample ID: 240-67371-4

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/19/2016 15:05

Reporting Basis: WET

Date Received: 07/20/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	74000	100	25	ug/L			1	6010C
7439-96-5	Manganese	2700	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: SWMW-4I-072016

Lab Sample ID: 240-67443-3

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/20/2016 11:28

Reporting Basis: WET

Date Received: 07/21/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	43000	100	25	ug/L			1	6010C
7439-96-5	Manganese	500	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: SWMW-3I-072016

Lab Sample ID: 240-67443-4

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/20/2016 14:13

Reporting Basis: WET

Date Received: 07/21/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	31000	100	25	ug/L			1	6010C
7439-96-5	Manganese	640	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: BLOCK G OUTFALL-072016

Lab Sample ID: 240-67443-5

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/20/2016 15:05

Reporting Basis: WET

Date Received: 07/21/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	2600	100	25	ug/L			1	6010C
7439-96-5	Manganese	720	15	5.1	ug/L			1	6010C

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

ICV Source: MT6500ICV_00032 Concentration Units: ug/L

CCV Source: MTICPCCV_00075

Analyte	ICV 240-239696/4 07/25/2016 10:13				CCV 240-239696/59 07/25/2016 14:06				CCV 240-239696/71 07/25/2016 15:09			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	12700		12500	102	25000		25000	100	25400		25000	102
Manganese	1520		1500	101	2010		2000	100	2050		2000	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.: 240-67328-1

SDG No.: _____

ICV Source: MT6500ICV_00032 Concentration Units: ug/L

CCV Source: MTICPCCV_00075

Analyte	ICV 240-239862/4 07/26/2016 09:19				CCV 240-239862/58 07/26/2016 13:06				CCV 240-239862/70 07/26/2016 14:48			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	12600		12500	101	24300		25000	97	23900		25000	96
Manganese	1500		1500	100	1890		2000	95	1860		2000	93

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.: 240-67328-1

SDG No.: _____

ICV Source: MT6500ICV_00032 Concentration Units: ug/L

CCV Source: MTICPCCV_00075

Analyte	CCV 240-239862/82 07/26/2016 15:38											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	23900		25000	96								
Manganese	1850		2000	92								

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.: 240-67328-1
 SDG No.: _____
 Method: 6010C Instrument ID: I12
 Lab Sample ID: CRI 240-239696/20 Concentration Units: ug/L
 CRQL Check Standard Source: MTTRCRIC_00037

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	223		112	70-130
Manganese	15.0	15.2		101	70-130

Lab Sample ID: CRI 240-239696/80 Concentration Units: ug/L
 CRQL Check Standard Source: MTTRCRIC_00037

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	217		108	70-130
Manganese	15.0	15.6		104	70-130

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Method: 6010C Instrument ID: I9

Lab Sample ID: CRI 240-239862/20 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00037

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	207		104	70-130
Manganese	15.0	15.2		102	70-130

Lab Sample ID: CRI 240-239862/88 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00037

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	200		100	70-130
Manganese	15.0	16.1		108	70-130

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-239696/5 07/25/2016 10:17		CCB 240-239696/60 07/25/2016 14:10		CCB 240-239696/72 07/25/2016 15:13		Found	C
		Found	C	Found	C	Found	C		
Iron	100	100	U	100	U	100	U		
Manganese	15	15	U	15	U	15	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-239862/5 07/26/2016 09:23		CCB 240-239862/59 07/26/2016 13:10		CCB 240-239862/71 07/26/2016 14:52		CCB 240-239862/83 07/26/2016 15:42	
		Found	C	Found	C	Found	C	Found	C
Iron	100	100	U	100	U	100	U	100	U
Manganese	15	15	U	15	U	15	U	15	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-67328-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-239374/1-A
Instrument Code: I12 Batch No.: 239696

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	100	U		6010C
7439-96-5	Manganese	15	U		6010C

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-67328-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-239145/1-A
Instrument Code: I9 Batch No.: 239862

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	100	U		6010C
7439-96-5	Manganese	15	U		6010C

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-67328-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-239378/1-A
Instrument Code: I9 Batch No.: 239862

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	100	U		6010C
7439-96-5	Manganese	15	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Lab Sample ID: ICSA 240-239696/8

Instrument ID: I12

Lab File ID: I12072516A.asc

ICS Source: MTTRICSAW_00031

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	183850	92
Manganese		0.691	
<i>Aluminum</i>	<i>500000</i>	<i>496190</i>	<i>99</i>
<i>Antimony</i>		<i>-4.62</i>	
<i>Arsenic</i>		<i>2.76</i>	
<i>Barium</i>		<i>-0.101</i>	
<i>Beryllium</i>		<i>-0.412</i>	
<i>Boron</i>		<i>-5.16</i>	
<i>Cadmium</i>		<i>1.02</i>	
<i>Calcium</i>	<i>500000</i>	<i>463130</i>	<i>93</i>
<i>Chromium</i>		<i>1.86</i>	
<i>Cobalt</i>		<i>-5.35</i>	
<i>Copper</i>		<i>1.54</i>	
<i>Lead</i>		<i>1.49</i>	
<i>Lithium</i>		<i>5.31</i>	
<i>Magnesium</i>	<i>500000</i>	<i>491980</i>	<i>98</i>
<i>Molybdenum</i>		<i>-2.36</i>	
<i>Nickel</i>		<i>1.79</i>	
<i>Potassium</i>		<i>-11.7</i>	
<i>Selenium</i>		<i>-4.12</i>	
<i>Silicon</i>		<i>7.75</i>	
<i>Silver</i>		<i>-2.28</i>	
<i>Sodium</i>		<i>39.3</i>	
<i>Strontium</i>		<i>9.66</i>	
<i>Thallium</i>		<i>2.82</i>	
<i>Tin</i>		<i>1.37</i>	
<i>Titanium</i>		<i>-3.37</i>	
<i>Vanadium</i>		<i>-4.19</i>	
<i>Zinc</i>		<i>4.01</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Lab Sample ID: ICSAB 240-239696/9

Instrument ID: I12

Lab File ID: I12072516A.asc

ICS Source: MTICPCSABW_00011

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	189980	95
Manganese	500	488	98
<i>Aluminum</i>	<i>500000</i>	<i>508580</i>	<i>102</i>
<i>Antimony</i>	<i>1000</i>	<i>1035</i>	<i>104</i>
<i>Arsenic</i>	<i>1000</i>	<i>1030</i>	<i>103</i>
<i>Barium</i>	<i>500</i>	<i>501</i>	<i>100</i>
<i>Beryllium</i>	<i>500</i>	<i>484</i>	<i>97</i>
<i>Boron</i>	<i>500</i>	<i>509</i>	<i>102</i>
<i>Cadmium</i>	<i>1000</i>	<i>1045</i>	<i>105</i>
<i>Calcium</i>	<i>500000</i>	<i>481030</i>	<i>96</i>
<i>Chromium</i>	<i>500</i>	<i>477</i>	<i>95</i>
<i>Cobalt</i>	<i>500</i>	<i>497</i>	<i>99</i>
<i>Copper</i>	<i>500</i>	<i>535</i>	<i>107</i>
<i>Lead</i>	<i>1000</i>	<i>912</i>	<i>91</i>
<i>Lithium</i>	<i>500</i>	<i>529</i>	<i>106</i>
<i>Magnesium</i>	<i>500000</i>	<i>504850</i>	<i>101</i>
<i>Molybdenum</i>	<i>1000</i>	<i>988</i>	<i>99</i>
<i>Nickel</i>	<i>1000</i>	<i>957</i>	<i>96</i>
<i>Potassium</i>	<i>10000</i>	<i>10271</i>	<i>103</i>
<i>Selenium</i>	<i>1000</i>	<i>1033</i>	<i>103</i>
<i>Silicon</i>	<i>10000</i>	<i>9932</i>	<i>99</i>
<i>Silver</i>	<i>1000</i>	<i>1085</i>	<i>108</i>
<i>Sodium</i>	<i>10000</i>	<i>10291</i>	<i>103</i>
<i>Strontium</i>	<i>1500</i>	<i>1463</i>	<i>98</i>
<i>Thallium</i>	<i>1000</i>	<i>979</i>	<i>98</i>
<i>Tin</i>	<i>500</i>	<i>515</i>	<i>103</i>
<i>Titanium</i>	<i>500</i>	<i>503</i>	<i>101</i>
<i>Vanadium</i>	<i>500</i>	<i>487</i>	<i>97</i>
<i>Zinc</i>	<i>1000</i>	<i>1007</i>	<i>101</i>

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Lab Sample ID: ICSA 240-239862/8

Instrument ID: I9

Lab File ID: I9072616A.asc

ICS Source: MTRICSAW_00031

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	185360	93
Manganese		1.67	
<i>Aluminum</i>	<i>500000</i>	<i>501180</i>	<i>100</i>
<i>Antimony</i>		<i>-0.664</i>	
<i>Arsenic</i>		<i>-0.0724</i>	
<i>Barium</i>		<i>-0.165</i>	
<i>Beryllium</i>		<i>-0.121</i>	
<i>Boron</i>		<i>-10.5</i>	
<i>Cadmium</i>		<i>0.393</i>	
<i>Calcium</i>	<i>500000</i>	<i>468540</i>	<i>94</i>
<i>Chromium</i>		<i>3.11</i>	
<i>Cobalt</i>		<i>-0.775</i>	
<i>Copper</i>		<i>0.645</i>	
<i>Lead</i>		<i>4.24</i>	
<i>Lithium</i>		<i>7.58</i>	
<i>Magnesium</i>	<i>500000</i>	<i>481310</i>	<i>96</i>
<i>Molybdenum</i>		<i>-2.39</i>	
<i>Nickel</i>		<i>7.78</i>	
<i>Potassium</i>		<i>35.5</i>	
<i>Selenium</i>		<i>-1.52</i>	
<i>Silicon</i>		<i>8.14</i>	
<i>Silver</i>		<i>-1.28</i>	
<i>Sodium</i>		<i>112</i>	
<i>Strontium</i>		<i>7.36</i>	
<i>Thallium</i>		<i>3.05</i>	
<i>Tin</i>		<i>4.02</i>	
<i>Titanium</i>		<i>-1.55</i>	
<i>Vanadium</i>		<i>-1.53</i>	
<i>Zinc</i>		<i>5.66</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Lab Sample ID: ICSAB 240-239862/9

Instrument ID: I9

Lab File ID: I9072616A.asc

ICS Source: MTICPCSABW_00011

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	188650	94
Manganese	500	488	98
<i>Aluminum</i>	<i>500000</i>	<i>498510</i>	<i>100</i>
<i>Antimony</i>	<i>1000</i>	<i>1026</i>	<i>103</i>
<i>Arsenic</i>	<i>1000</i>	<i>1023</i>	<i>102</i>
<i>Barium</i>	<i>500</i>	<i>494</i>	<i>99</i>
<i>Beryllium</i>	<i>500</i>	<i>488</i>	<i>98</i>
<i>Boron</i>	<i>500</i>	<i>497</i>	<i>99</i>
<i>Cadmium</i>	<i>1000</i>	<i>1033</i>	<i>103</i>
<i>Calcium</i>	<i>500000</i>	<i>475990</i>	<i>95</i>
<i>Chromium</i>	<i>500</i>	<i>477</i>	<i>95</i>
<i>Cobalt</i>	<i>500</i>	<i>493</i>	<i>99</i>
<i>Copper</i>	<i>500</i>	<i>517</i>	<i>103</i>
<i>Lead</i>	<i>1000</i>	<i>911</i>	<i>91</i>
<i>Lithium</i>	<i>500</i>	<i>550</i>	<i>110</i>
<i>Magnesium</i>	<i>500000</i>	<i>483880</i>	<i>97</i>
<i>Molybdenum</i>	<i>1000</i>	<i>983</i>	<i>98</i>
<i>Nickel</i>	<i>1000</i>	<i>949</i>	<i>95</i>
<i>Potassium</i>	<i>10000</i>	<i>10363</i>	<i>104</i>
<i>Selenium</i>	<i>1000</i>	<i>1015</i>	<i>101</i>
<i>Silicon</i>	<i>10000</i>	<i>9931</i>	<i>99</i>
<i>Silver</i>	<i>1000</i>	<i>1085</i>	<i>108</i>
<i>Sodium</i>	<i>10000</i>	<i>10533</i>	<i>105</i>
<i>Strontium</i>	<i>1500</i>	<i>1465</i>	<i>98</i>
<i>Thallium</i>	<i>1000</i>	<i>953</i>	<i>95</i>
<i>Tin</i>	<i>500</i>	<i>509</i>	<i>102</i>
<i>Titanium</i>	<i>500</i>	<i>501</i>	<i>100</i>
<i>Vanadium</i>	<i>500</i>	<i>486</i>	<i>97</i>
<i>Zinc</i>	<i>1000</i>	<i>1007</i>	<i>101</i>

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: SWMW-5I-071916 MS Lab ID: 240-67371-4 MS
 Lab Name: TestAmerica Canton Job No.: 240-67328-1
 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
Iron	73500	74000	1000	-29	75-125	4	6010C
Manganese	3150	2700	500	92	75-125	4	6010C

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: SWMW-5I-071916 MSD

Lab ID: 240-67371-4 MSD

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

% Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Iron	72000	1000	-180	75-125	2	20	4	6010C
Manganese	3070	500	77	75-125	2	20	4	6010C

SDR = Sample Duplicate Result

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

7A-IN
 LAB CONTROL SAMPLE
 METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-239374/2-A

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

Sample Matrix: Water

LCS Source: MTICP1_00053

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	1000	1000		100	80	120		6010C
Manganese	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 - TOTAL RECOVERABLE

Lab ID: LCS 240-239378/2-A

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

Sample Matrix: Water

LCS Source: MTICP1_00053

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	1000	991		99	80	120		6010C
Manganese	500	482		96	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 - TOTAL RECOVERABLE

Lab ID: LCS 240-239145/2-A

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

Sample Matrix: Water

LCS Source: MTICP1_00053

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	1000	1030		103	80	120		6010C
Manganese	500	492		98	80	120		6010C

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: 240-67371-4

SDG No: _____

Lab Name: TestAmerica Canton

Job No: 240-67328-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Iron	74000	76900	4.1		6010C
Manganese	2700	2760	2.7		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: 240-67328-1

SDG Number: _____

Matrix: Water

Instrument ID: I12

Method: 6010C

MDL Date: 05/06/2016 13:42

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Iron	271.441	100	25
Manganese	257.610	15	5.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-67328-1
SDG Number: _____
Matrix: Water Instrument ID: I12
Method: 6010C XMDL Date: 05/06/2016 13:44

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Iron	271.441	100	25
Manganese	257.610	15	5.1

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton

Job Number: 240-67328-1

SDG Number: _____

Matrix: Water

Instrument ID: I9

Method: 6010C

MDL Date: 05/06/2016 13:42

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Iron	271.441	100	25
Manganese	257.610	15	5.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-67328-1
SDG Number: _____
Matrix: Water Instrument ID: I9
Method: 6010C XMDL Date: 05/06/2016 13:44

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Iron	271.441	100	25
Manganese	257.610	15	5.1

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-67328-1

SDG No.: _____

ICP-AES Instrument ID: I12 Date: 02/02/2016

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	V
Aluminum										0.008918				0.066045
Antimony		-0.000049			0.000057			-0.000035						0.002792
Arsenic		0.000015			-0.000415	0.000782			-0.000355	0.002123				
Beryllium														0.000229
Cadmium			0.012636					0.000001						
Cobalt													0.002140	
Copper				0.000018	0.000199			0.000028						
Lead		-0.000079					0.000101	0.000055			0.000131	0.000119		
Lithium				0.000011										
Nickel					0.000518			0.000057						
Selenium		-0.000012							0.000338					
Thallium		0.00002170			0.003123				0.000571					0.001707
Vanadium								0.000036						
Zinc							-0.001092							

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-67328-1

SDG No.: _____

ICP-AES Instrument ID: I9 Date: 02/23/2016

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	Tl	V
Aluminum										0.016774					0.022189
Antimony		-0.000066			0.000057			-0.000015							0.002792
Arsenic		0.00002			-0.000415	0.000782			-0.000355	0.002551					
Barium															
Beryllium															0.000029
Boron															
Cadmium			0.010288					-0.000004							
Calcium															
Chromium															
Cobalt													0.002140		
Copper				0.000018	0.000199			0.000009							
Iron															
Lead		-0.000108					0.000101	0.000044			0.000131	0.000064			
Lithium															
Magnesium															
Manganese															
Molybdenum															
Nickel					0.000518			0.000057							
Potassium															
Selenium		-0.000013							0.000338						
Silver															
Sodium															
Strontium															
Thallium		0.000012			0.003074			-0.000019	-0.002934						0.001707
Tin															
Titanium															
Vanadium								0.000038							
Zinc								-0.001092							

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-67328-1

SDG No.: _____

Instrument ID: I12

Date: 07/28/2015 11:56

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Iron		500000	6010C
Manganese		15000	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-67328-1

SDG No.: _____

Instrument ID: I9

Date: 02/25/2016 13:19

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Iron		500000	6010C
Manganese		15000	6010C

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-239145/1-A	07/21/2016 17:00	239145		50	50
LCS 240-239145/2-A	07/21/2016 17:00	239145		50	50
240-67328-2	07/21/2016 17:00	239145		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-239374/1-A	07/22/2016 11:16	239374		50	50
LCS 240-239374/2-A	07/22/2016 11:16	239374		50	50
240-67371-2	07/22/2016 11:16	239374		50	50
240-67371-3	07/22/2016 11:16	239374		50	50
240-67371-4	07/22/2016 11:16	239374		50	50
240-67371-4 MS	07/22/2016 11:16	239374		50	50
240-67371-4 MSD	07/22/2016 11:16	239374		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-239378/1-A	07/22/2016 11:24	239378		50	50
LCS 240-239378/2-A	07/22/2016 11:24	239378		50	50
240-67443-3	07/22/2016 11:24	239378		50	50
240-67443-4	07/22/2016 11:24	239378		50	50
240-67443-5	07/22/2016 11:24	239378		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: I12 Analysis Method: 6010C

Start Date: 07/25/2016 10:01 End Date: 07/25/2016 20:47

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ICIS 240-239696/1	1		10:01	X	X																										
CALSTD 240-239696/2 IC			10:05	X	X																										
CALSTD 240-239696/3 IC			10:09	X	X																										
ICV 240-239696/4	1		10:13	X	X																										
ICB 240-239696/5	1		10:17	X	X																										
CRI 240-239696/6			10:21																												
ZZZZZZ			10:25																												
ICSA 240-239696/8	1		10:29	X	X																										
ICSAB 240-239696/9	1		10:33	X	X																										
CCV 240-239696/10			10:37																												
CCB 240-239696/11			10:41																												
ZZZZZZ			10:45																												
ZZZZZZ			10:49																												
ZZZZZZ			10:53																												
ZZZZZZ			10:57																												
ZZZZZZ			11:01																												
ZZZZZZ			11:06																												
CCV 240-239696/18			11:10																												
CCB 240-239696/19			11:14																												
CRI 240-239696/20	1		11:20	X	X																										
ZZZZZZ			11:24																												
ZZZZZZ			11:28																												
ZZZZZZ			11:32																												
ZZZZZZ			11:36																												
ZZZZZZ			11:40																												
ZZZZZZ			11:45																												
ZZZZZZ			11:49																												
ZZZZZZ			11:53																												
ZZZZZZ			11:57																												
CCV 240-239696/30			12:01																												
CCB 240-239696/31			12:05																												
ZZZZZZ			12:09																												
ZZZZZZ			12:14																												
ZZZZZZ			12:20																												
CCV 240-239696/35			12:25																												
CCB 240-239696/36			12:29																												
ZZZZZZ			12:33																												
ZZZZZZ			12:38																												
ZZZZZZ			12:42																												
ZZZZZZ			12:46																												
ZZZZZZ			12:50																												
CCV 240-239696/42			12:54																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: I12 Analysis Method: 6010C

Start Date: 07/25/2016 10:01 End Date: 07/25/2016 20:47

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
CCB 240-239696/43			12:58																												
ZZZZZZ			13:02																												
ZZZZZZ			13:06																												
ZZZZZZ			13:10																												
ZZZZZZ			13:14																												
ZZZZZZ			13:19																												
ZZZZZZ			13:23																												
ZZZZZZ			13:28																												
ZZZZZZ			13:32																												
ZZZZZZ			13:36																												
ZZZZZZ			13:40																												
CCV 240-239696/54			13:45																												
CCB 240-239696/55			13:49																												
ZZZZZZ			13:53																												
ZZZZZZ			13:57																												
ZZZZZZ			14:02																												
CCV 240-239696/59	1		14:06	X	X																										
CCB 240-239696/60	1		14:10	X	X																										
MB 240-239374/1-A	1	R	14:29	X	X																										
LCS 240-239374/2-A	1	R	14:33	X	X																										
240-67371-4	1	R	14:37	X	X																										
240-67371-4 SD	5	R	14:41	X	X																										
240-67371-4 MS	1	R	14:45	X	X																										
240-67371-4 MSD	1	R	14:49	X	X																										
ZZZZZZ			14:53																												
240-67371-2	1	R	14:57	X	X																										
240-67371-3	1	R	15:01	X	X																										
ZZZZZZ			15:05																												
CCV 240-239696/71	1		15:09	X	X																										
CCB 240-239696/72	1		15:13	X	X																										
ZZZZZZ			15:17																												
ZZZZZZ			15:21																												
ZZZZZZ			15:25																												
ZZZZZZ			15:29																												
ZZZZZZ			15:33																												
ZZZZZZ			15:37																												
ZZZZZZ			15:41																												
CRI 240-239696/80	1		15:45	X	X																										
ZZZZZZ			15:49																												
ZZZZZZ			15:53																												
CCV 240-239696/83			15:57																												
CCB 240-239696/84			16:01																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: I12 Analysis Method: 6010C

Start Date: 07/25/2016 10:01 End Date: 07/25/2016 20:47

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			16:05																												
ZZZZZZ			16:09																												
ZZZZZZ			16:14																												
ZZZZZZ			16:18																												
ZZZZZZ			16:22																												
ZZZZZZ			16:26																												
ZZZZZZ			16:30																												
ZZZZZZ			16:35																												
ZZZZZZ			16:39																												
ZZZZZZ			16:43																												
CCV 240-239696/95			16:47																												
CCB 240-239696/96			16:51																												
ZZZZZZ			16:55																												
ZZZZZZ			16:59																												
ZZZZZZ			17:04																												
ZZZZZZ			17:08																												
ZZZZZZ			17:12																												
ZZZZZZ			17:16																												
ZZZZZZ			17:20																												
ZZZZZZ			17:24																												
ZZZZZZ			17:28																												
ZZZZZZ			17:32																												
CCV 240-239696/107			17:36																												
CCB 240-239696/108			17:39																												
ZZZZZZ			17:44																												
ZZZZZZ			17:47																												
ZZZZZZ			17:51																												
ZZZZZZ			17:56																												
ZZZZZZ			18:00																												
ZZZZZZ			18:04																												
ZZZZZZ			18:08																												
ZZZZZZ			18:12																												
ZZZZZZ			18:16																												
ZZZZZZ			18:20																												
CCV 240-239696/119			18:24																												
CCB 240-239696/120			18:28																												
ZZZZZZ			18:32																												
ZZZZZZ			18:37																												
ZZZZZZ			18:41																												
ZZZZZZ			18:45																												
ZZZZZZ			18:49																												
ZZZZZZ			18:53																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: I12 Analysis Method: 6010C

Start Date: 07/25/2016 10:01 End Date: 07/25/2016 20:47

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			18:57																												
ZZZZZZ			19:02																												
ZZZZZZ			19:06																												
ZZZZZZ			19:10																												
CCV 240-239696/131			19:14																												
CCB 240-239696/132			19:18																												
ZZZZZZ			19:22																												
ZZZZZZ			19:26																												
ZZZZZZ			19:30																												
ZZZZZZ			19:34																												
ZZZZZZ			19:38																												
ZZZZZZ			19:42																												
ZZZZZZ			19:46																												
ZZZZZZ			19:50																												
ZZZZZZ			19:54																												
ZZZZZZ			19:58																												
CCV 240-239696/143			20:03																												
CCB 240-239696/144			20:06																												
ZZZZZZ			20:10																												
ZZZZZZ			20:14																												
ZZZZZZ			20:18																												
ZZZZZZ			20:22																												
ZZZZZZ			20:27																												
ZZZZZZ			20:31																												
ZZZZZZ			20:35																												
ZZZZZZ			20:39																												
CCV 240-239696/153			20:43																												
CCB 240-239696/154			20:47																												

Prep Types: _____
R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 07/26/2016 09:07 End Date: 07/27/2016 01:20

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ICIS 240-239862/1	1		09:07	X	X																										
CALSTD 240-239862/2 IC			09:11	X	X																										
CALSTD 240-239862/3 IC			09:15	X	X																										
ICV 240-239862/4	1		09:19	X	X																										
ICB 240-239862/5	1		09:23	X	X																										
CRI 240-239862/6			09:27																												
ZZZZZZ			09:31																												
ICSA 240-239862/8	1		09:35	X	X																										
ICSAB 240-239862/9	1		09:39	X	X																										
CCV 240-239862/10			09:43																												
CCB 240-239862/11			09:47																												
ZZZZZZ			09:51																												
ZZZZZZ			09:55																												
ZZZZZZ			10:00																												
ZZZZZZ			10:04																												
ZZZZZZ			10:08																												
ZZZZZZ			10:12																												
CCV 240-239862/18			10:21																												
CCB 240-239862/19			10:25																												
CRI 240-239862/20	1		10:29	X	X																										
ZZZZZZ			10:33																												
ZZZZZZ			10:38																												
ZZZZZZ			10:41																												
ZZZZZZ			10:46																												
CCV 240-239862/25			10:50																												
CCB 240-239862/26			10:54																												
ZZZZZZ			10:58																												
CCV 240-239862/28			11:02																												
CCB 240-239862/29			11:06																												
ZZZZZZ			11:10																												
ZZZZZZ			11:14																												
ZZZZZZ			11:18																												
ZZZZZZ			11:22																												
ZZZZZZ			11:26																												
ZZZZZZ			11:30																												
ZZZZZZ			11:34																												
ZZZZZZ			11:38																												
ZZZZZZ			11:42																												
ZZZZZZ			11:46																												
CCV 240-239862/40			11:51																												
CCB 240-239862/41			11:55																												
ZZZZZZ			11:59																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Instrument ID: I9

Analysis Method: 6010C

Start Date: 07/26/2016 09:07

End Date: 07/27/2016 01:20

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			12:03																												
ZZZZZZ			12:07																												
ZZZZZZ			12:11																												
ZZZZZZ			12:16																												
ZZZZZZ			12:20																												
ZZZZZZ			12:24																												
CRI 240-239862/49			12:28																												
ZZZZZZ			12:32																												
ZZZZZZ			12:37																												
CCV 240-239862/52			12:41																												
CCB 240-239862/53			12:45																												
ZZZZZZ			12:49																												
ZZZZZZ			12:53																												
ZZZZZZ			12:58																												
ZZZZZZ			13:02																												
CCV 240-239862/58	1		13:06	X	X																										
CCB 240-239862/59	1		13:10	X	X																										
ZZZZZZ			14:06																												
ZZZZZZ			14:10																												
MB 240-239378/1-A	1	R	14:15	X	X																										
LCS 240-239378/2-A	1	R	14:19	X	X																										
240-67443-3	1	R	14:23	X	X																										
240-67443-4	1	R	14:27	X	X																										
240-67443-5	1	R	14:31	X	X																										
ZZZZZZ			14:35																												
MB 240-239145/1-A	1	R	14:40	X	X																										
LCS 240-239145/2-A	1	R	14:44	X	X																										
CCV 240-239862/70	1		14:48	X	X																										
CCB 240-239862/71	1		14:52	X	X																										
240-67328-2	1	R	14:56	X	X																										
ZZZZZZ			15:00																												
ZZZZZZ			15:04																												
ZZZZZZ			15:08																												
ZZZZZZ			15:13																												
ZZZZZZ			15:17																												
ZZZZZZ			15:21																												
ZZZZZZ			15:25																												
ZZZZZZ			15:29																												
ZZZZZZ			15:34																												
CCV 240-239862/82	1		15:38	X	X																										
CCB 240-239862/83	1		15:42	X	X																										
ZZZZZZ			15:46																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 07/26/2016 09:07 End Date: 07/27/2016 01:20

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			15:50																												
ZZZZZZ			15:54																												
ZZZZZZ			15:59																												
CRI 240-239862/88	1		16:03	X	X																										
ZZZZZZ			16:07																												
ZZZZZZ			16:11																												
ZZZZZZ			16:16																												
ZZZZZZ			16:20																												
ZZZZZZ			16:24																												
CCV 240-239862/94			16:28																												
CCB 240-239862/95			16:32																												
ZZZZZZ			16:37																												
ZZZZZZ			16:41																												
ZZZZZZ			16:45																												
ZZZZZZ			16:49																												
ZZZZZZ			16:53																												
ZZZZZZ			16:58																												
ZZZZZZ			17:02																												
ZZZZZZ			17:06																												
ZZZZZZ			17:10																												
ZZZZZZ			17:14																												
CCV 240-239862/106			17:18																												
CCB 240-239862/107			17:22																												
ZZZZZZ			17:26																												
ZZZZZZ			17:30																												
ZZZZZZ			17:34																												
ZZZZZZ			17:38																												
ZZZZZZ			17:43																												
ZZZZZZ			17:47																												
ZZZZZZ			17:51																												
ZZZZZZ			17:55																												
ZZZZZZ			18:00																												
ZZZZZZ			18:04																												
CCV 240-239862/118			18:08																												
CCB 240-239862/119			18:12																												
ZZZZZZ			18:16																												
ZZZZZZ			18:20																												
ZZZZZZ			18:25																												
ZZZZZZ			18:29																												
ZZZZZZ			18:33																												
ZZZZZZ			18:37																												
ZZZZZZ			18:41																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 07/26/2016 09:07 End Date: 07/27/2016 01:20

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			18:45																												
ZZZZZZ			18:49																												
ZZZZZZ			18:53																												
CCV 240-239862/130			18:58																												
CCB 240-239862/131			19:01																												
ZZZZZZ			19:06																												
ZZZZZZ			19:09																												
ZZZZZZ			19:13																												
ZZZZZZ			19:18																												
ZZZZZZ			19:21																												
ZZZZZZ			19:25																												
ZZZZZZ			19:29																												
ZZZZZZ			19:33																												
ZZZZZZ			19:37																												
ZZZZZZ			19:41																												
CCV 240-239862/142			19:46																												
CCB 240-239862/143			19:50																												
ZZZZZZ			19:54																												
ZZZZZZ			19:58																												
ZZZZZZ			20:02																												
ZZZZZZ			20:06																												
ZZZZZZ			20:10																												
ZZZZZZ			20:14																												
ZZZZZZ			20:18																												
ZZZZZZ			20:22																												
ZZZZZZ			20:26																												
ZZZZZZ			20:30																												
CCV 240-239862/154			20:34																												
CCB 240-239862/155			20:38																												
ZZZZZZ			20:42																												
ZZZZZZ			20:46																												
ZZZZZZ			20:50																												
ZZZZZZ			20:55																												
ZZZZZZ			20:59																												
ZZZZZZ			21:03																												
ZZZZZZ			21:07																												
ZZZZZZ			21:11																												
ZZZZZZ			21:14																												
ZZZZZZ			21:18																												
CCV 240-239862/166			21:23																												
CCB 240-239862/167			21:26																												
ZZZZZZ			21:31																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 07/26/2016 09:07 End Date: 07/27/2016 01:20

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			21:35																												
ZZZZZZ			21:39																												
ZZZZZZ			21:43																												
ZZZZZZ			21:47																												
ZZZZZZ			21:51																												
ZZZZZZ			21:55																												
ZZZZZZ			22:00																												
ZZZZZZ			22:04																												
ZZZZZZ			22:08																												
CCV 240-239862/178			22:12																												
CCB 240-239862/179			22:16																												
ZZZZZZ			22:20																												
ZZZZZZ			22:24																												
ZZZZZZ			22:28																												
ZZZZZZ			22:32																												
ZZZZZZ			22:37																												
ZZZZZZ			22:40																												
ZZZZZZ			22:44																												
ZZZZZZ			22:48																												
ZZZZZZ			22:52																												
ZZZZZZ			22:56																												
CCV 240-239862/190			23:00																												
CCB 240-239862/191			23:04																												
ZZZZZZ			23:08																												
ZZZZZZ			23:13																												
ZZZZZZ			23:17																												
ZZZZZZ			23:21																												
ZZZZZZ			23:25																												
ZZZZZZ			23:29																												
ZZZZZZ			23:33																												
ZZZZZZ			23:37																												
ZZZZZZ			23:41																												
ZZZZZZ			23:45																												
CCV 240-239862/202			23:49																												
CCB 240-239862/203			23:53																												
ZZZZZZ			23:57																												
ZZZZZZ			00:02																												
ZZZZZZ			00:05																												
ZZZZZZ			00:09																												
ZZZZZZ			00:14																												
ZZZZZZ			00:17																												
ZZZZZZ			00:21																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 07/26/2016 09:07 End Date: 07/27/2016 01:20

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			00:25																												
ZZZZZZ			00:29																												
ZZZZZZ			00:34																												
CCV 240-239862/214			00:38																												
CCB 240-239862/215			00:42																												
ZZZZZZ			00:46																												
ZZZZZZ			00:50																												
ZZZZZZ			00:54																												
ZZZZZZ			00:58																												
ZZZZZZ			01:03																												
ZZZZZZ			01:07																												
ZZZZZZ			01:12																												
CCV 240-239862/223			01:16																												
CCB 240-239862/224			01:20																												

Prep Types: _____
R = Total Recoverable

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Batch Number: 239145 Batch Start Date: 07/21/16 17:00 Batch Analyst: Colosi, Alexander J

Batch Method: 3005A Batch End Date: 07/22/16 01:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00060	MTICP1 00053	MTICP2A 00061	MTTMHCL 00117
MB 240-239145/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-239145/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-67328-J-2	MW-14B-071816	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00091	AnalysisComment				
MB 240-239145/1		3005A, 6010C		1 mL					
LCS 240-239145/2		3005A, 6010C		1 mL					
240-67328-J-2	MW-14B-071816	3005A, 6010C	R	1 mL	Unpreserved volume split and preserved in lab at 16:40 on 7/20/16, MTTM HNO3 00091				

Batch Notes	
Filter Paper ID	9699375
Hot Block ID	HB1
Pipette ID	MP1
Digestion Tube/Cup ID	1512329

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.: 240-67328-1

SDG No.: _____

Batch Number: 239374 Batch Start Date: 07/22/16 11:16 Batch Analyst: Colosi, Alexander J

Batch Method: 3005A Batch End Date: 07/22/16 19:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00060	MTICP1 00053	MTICP2A 00061	MTTMHCL 00117
MB 240-239374/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-239374/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-67371-K-2	SWMW-1I-071916	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-67371-K-3	SWMW-2I-071916	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-67371-K-4	SWMW-5I-071916	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-67371-K-4 MS	SWMW-5I-071916	3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-67371-K-4 MSD	SWMW-5I-071916	3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00091				
MB 240-239374/1		3005A, 6010C		1 mL				
LCS 240-239374/2		3005A, 6010C		1 mL				
240-67371-K-2	SWMW-1I-071916	3005A, 6010C	R	1 mL				
240-67371-K-3	SWMW-2I-071916	3005A, 6010C	R	1 mL				
240-67371-K-4	SWMW-5I-071916	3005A, 6010C	R	1 mL				
240-67371-K-4 MS	SWMW-5I-071916	3005A, 6010C	R	1 mL				
240-67371-K-4 MSD	SWMW-5I-071916	3005A, 6010C	R	1 mL				

Batch Notes	
Filter Paper ID	9699375
Hot Block ID	HB3
Pipette ID	MP1
Digestion Tube/Cup ID	1512329

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.: 240-67328-1

SDG No.: _____

Batch Number: 239378 Batch Start Date: 07/22/16 11:24 Batch Analyst: Colosi, Alexander J

Batch Method: 3005A Batch End Date: 07/22/16 19:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00060	MTICP1 00053	MTICP2A 00061	MTTMHCL 00117
MB 240-239378/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-239378/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-67443-I-3	SWMW-4I-072016	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-67443-F-4	SWMW-3I-072016	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-67443-F-5	BLOCK G OUTFALL-072016	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00091				
MB 240-239378/1		3005A, 6010C		1 mL				
LCS 240-239378/2		3005A, 6010C		1 mL				
240-67443-I-3	SWMW-4I-072016	3005A, 6010C	R	1 mL				
240-67443-F-4	SWMW-3I-072016	3005A, 6010C	R	1 mL				
240-67443-F-5	BLOCK G OUTFALL-072016	3005A, 6010C	R	1 mL				

Batch Notes	
Filter Paper ID	9699375
Hot Block ID	HB3
Pipette ID	MP1
Digestion Tube/Cup ID	1512329

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-67328-1

SDG No.: _____

Project: MRC Block G Month Sampling

Client Sample ID	Lab Sample ID
<u>MW-14B-071816</u>	<u>240-67328-2</u>
<u>MW-12B-071816</u>	<u>240-67328-3</u>
<u>MW-12A-071816</u>	<u>240-67328-4</u>
<u>SWMW-1I-071916</u>	<u>240-67371-2</u>
<u>SWMW-2I-071916</u>	<u>240-67371-3</u>
<u>SWMW-5I-071916</u>	<u>240-67371-4</u>
<u>SWMW-4S-072016</u>	<u>240-67443-2</u>
<u>SWMW-4I-072016</u>	<u>240-67443-3</u>
<u>SWMW-3I-072016</u>	<u>240-67443-4</u>
<u>BLOCK G OUTFALL-072016</u>	<u>240-67443-5</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW-14B-071816

Lab Sample ID: 240-67328-2

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.:

Matrix: Water

Date Sampled: 07/18/2016 10:20

Reporting Basis: WET

Date Received: 07/19/2016 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	53	5.0	1.9	mg/L		B	1	2320B-19 97
14808-79-8	Sulfate	1.6	1.0	0.13	mg/L			1	300.0
	TOC Result 1	0.38	1.0	0.080	mg/L	J		1	9060A
	TOC Result 2	0.37	1.0	0.080	mg/L	J		1	9060A
	TOC Result 3	0.38	1.0	0.080	mg/L	J		1	9060A
	TOC Result 4	0.37	1.0	0.080	mg/L	J		1	9060A
7440-44-0	Total Organic Carbon	0.37	1.0	0.080	mg/L	J		1	9060A
	Total Dissolved Solids	60	10	7.4	mg/L			1	SM 2540C

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW-12B-071816

Lab Sample ID: 240-67328-3

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/18/2016 11:49

Reporting Basis: WET

Date Received: 07/19/2016 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	TOC Result 1	0.57	1.0	0.080	mg/L	J		1	9060A
	TOC Result 2	0.56	1.0	0.080	mg/L	J		1	9060A
	TOC Result 3	0.61	1.0	0.080	mg/L	J		1	9060A
	TOC Result 4	0.56	1.0	0.080	mg/L	J		1	9060A
7440-44-0	Total Organic Carbon	0.57	1.0	0.080	mg/L	J		1	9060A

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW-12A-071816

Lab Sample ID: 240-67328-4

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/18/2016 16:55

Reporting Basis: WET

Date Received: 07/19/2016 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	TOC Result 1	36	1.0	0.080	mg/L			1	9060A
	TOC Result 2	36	1.0	0.080	mg/L			1	9060A
	TOC Result 3	37	1.0	0.080	mg/L			1	9060A
	TOC Result 4	37	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	37	1.0	0.080	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SWMW-1I-071916

Lab Sample ID: 240-67371-2

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/19/2016 10:20

Reporting Basis: WET

Date Received: 07/20/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	200	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	17	1.0	0.13	mg/L			1	300.0
	TOC Result 1	10	2.0	0.16	mg/L			2	9060A
	TOC Result 2	11	2.0	0.16	mg/L			2	9060A
	TOC Result 3	11	2.0	0.16	mg/L			2	9060A
	TOC Result 4	11	2.0	0.16	mg/L			2	9060A
7440-44-0	Total Organic Carbon	11	2.0	0.16	mg/L			2	9060A
	Total Dissolved Solids	320	10	7.4	mg/L		H	1	SM 2540C

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: SWMW-2I-071916

Lab Sample ID: 240-67371-3

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/19/2016 12:19

Reporting Basis: WET

Date Received: 07/20/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	410	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	1.9	1.0	0.13	mg/L			1	300.0
	TOC Result 1	75	1.0	0.080	mg/L			1	9060A
	TOC Result 2	77	1.0	0.080	mg/L			1	9060A
	TOC Result 3	75	1.0	0.080	mg/L			1	9060A
	TOC Result 4	78	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	76	1.0	0.080	mg/L			1	9060A
	Total Dissolved Solids	630	10	7.4	mg/L			1	SM 2540C

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: SWMW-5I-071916

Lab Sample ID: 240-67371-4

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/19/2016 15:05

Reporting Basis: WET

Date Received: 07/20/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	680	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	0.16	1.0	0.13	mg/L	J		1	300.0
	TOC Result 1	150	10	0.80	mg/L			10	9060A
	TOC Result 2	150	10	0.80	mg/L			10	9060A
	TOC Result 3	150	10	0.80	mg/L			10	9060A
	TOC Result 4	150	10	0.80	mg/L			10	9060A
7440-44-0	Total Organic Carbon	150	10	0.80	mg/L			10	9060A
	Total Dissolved Solids	1100	10	7.4	mg/L			1	SM 2540C

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: SWMW-4S-072016

Lab Sample ID: 240-67443-2

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/20/2016 10:18

Reporting Basis: WET

Date Received: 07/21/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	TOC Result 1	5.0	1.0	0.080	mg/L			1	9060A
	TOC Result 2	4.6	1.0	0.080	mg/L			1	9060A
	TOC Result 3	5.2	1.0	0.080	mg/L			1	9060A
	TOC Result 4	4.7	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	4.9	1.0	0.080	mg/L			1	9060A

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: SWMW-4I-072016

Lab Sample ID: 240-67443-3

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/20/2016 11:28

Reporting Basis: WET

Date Received: 07/21/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	980	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	5.0	5.0	0.65	mg/L	U		5	300.0
	TOC Result 1	330	20	1.6	mg/L			20	9060A
	TOC Result 2	330	20	1.6	mg/L			20	9060A
	TOC Result 3	340	20	1.6	mg/L			20	9060A
	TOC Result 4	330	20	1.6	mg/L			20	9060A
7440-44-0	Total Organic Carbon	330	20	1.6	mg/L			20	9060A
	Total Dissolved Solids	1700	20	15	mg/L			1	SM 2540C

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: SWMW-3I-072016

Lab Sample ID: 240-67443-4

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/20/2016 14:13

Reporting Basis: WET

Date Received: 07/21/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	770	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	5.0	5.0	0.65	mg/L	U		5	300.0
	TOC Result 1	120	4.0	0.32	mg/L			4	9060A
	TOC Result 2	120	4.0	0.32	mg/L			4	9060A
	TOC Result 3	120	4.0	0.32	mg/L			4	9060A
	TOC Result 4	120	4.0	0.32	mg/L			4	9060A
7440-44-0	Total Organic Carbon	120	4.0	0.32	mg/L			4	9060A
	Total Dissolved Solids	1100	20	15	mg/L			1	SM 2540C

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: BLOCK G OUTFALL-072016

Lab Sample ID: 240-67443-5

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG ID.: _____

Matrix: Water

Date Sampled: 07/20/2016 15:05

Reporting Basis: WET

Date Received: 07/21/2016 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	270	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	37	1.0	0.13	mg/L			1	300.0
	TOC Result 1	5.1	1.0	0.080	mg/L			1	9060A
	TOC Result 2	5.0	1.0	0.080	mg/L			1	9060A
	TOC Result 3	5.2	1.0	0.080	mg/L			1	9060A
	TOC Result 4	5.1	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	5.1	1.0	0.080	mg/L			1	9060A
	Total Dissolved Solids	580	10	7.4	mg/L			1	SM 2540C

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
SDG No.: _____
Analyst: LKG Batch Start Date: 06/23/2016
Reporting Units: mg/L Analytical Batch No.: 235787

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	ICV	19:02	Sulfate	50.8	50.0	102	90-110		WCICLCS_00538

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
SDG No.: _____
Analyst: JMB Batch Start Date: 06/24/2016
Reporting Units: mg/L Analytical Batch No.: 235930

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
12	ICV	20:57	Sulfate	50.1	50.0	100	90-110		WCICLCS_00539

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Analyst: LCN Batch Start Date: 07/20/2016
 Reporting Units: mg/L Analytical Batch No.: 239032

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	07:57	Sulfate	50.3	50.0	101	90-110		WCICCCV_00701
2	CCB	08:13	Sulfate	1.0				U	
13	CCV	16:26	Sulfate	50.5	50.0	101	90-110		WCICCCV_00701
14	CCB	16:42	Sulfate	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Analyst: LKG Batch Start Date: 07/22/2016
 Reporting Units: mg/L Analytical Batch No.: 239446

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	16:46	Sulfate	50.5	50.0	101	90-110		WCICCCV_00704
2	CCB	17:06	Sulfate	1.0				U	
13	CCV	20:48	Sulfate	50.4	50.0	101	90-110		WCICCCV_00704
14	CCB	21:08	Sulfate	1.0				U	
25	CCV	00:50	Sulfate	50.8	50.0	102	90-110		WCICCCV_00704
26	CCB	01:10	Sulfate	1.0				U	
38	CCB	05:12	Sulfate	1.0				U	
46	CCV	07:53	Sulfate	50.8	50.0	102	90-110		WCICCCV_00704
47	CCB	08:13	Sulfate	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Analyst: LCN Batch Start Date: 07/27/2016
 Reporting Units: mg/L Analytical Batch No.: 239904

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
25	CCV	16:05	Sulfate	48.9	50.0	98	90-110		WCICCCV_00703
26	CCB	16:21	Sulfate	1.0				U	
37	CCV	19:22	Sulfate	49.2	50.0	98	90-110		WCICCCV_00703
38	CCB	19:38	Sulfate	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Analyst: TPH Batch Start Date: 07/25/2016
 Reporting Units: mg/L Analytical Batch No.: 239718

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
26	CCV	18:39	TOC Result 1	24.2	25.0	97	90-110		WC TOC CCV_00313
			Total Organic Carbon	24.2	25.0	97	90-110		WC TOC CCV_00313
35	CCVL	22:14	TOC Result 1	4.84	5.00	97	90-110		WC TOC CCVL_00107
			Total Organic Carbon	4.84	5.00	97	90-110		WC TOC CCVL_00107
36	CCB	22:24	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
47	CCV	01:35	TOC Result 1	24.0	25.0	96	90-110		WC TOC CCV_00313
			Total Organic Carbon	24.0	25.0	96	90-110		WC TOC CCV_00313
48	CCB	01:43	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
52	CCVL	03:15	TOC Result 1	4.85	5.00	97	90-110		WC TOC CCVL_00107
			Total Organic Carbon	4.85	5.00	97	90-110		WC TOC CCVL_00107
53	CCV	03:23	TOC Result 1	23.4	25.0	94	90-110		WC TOC CCV_00313
			Total Organic Carbon	23.4	25.0	94	90-110		WC TOC CCV_00313
54	CCB	03:31	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Analyst: TPH Batch Start Date: 07/29/2016
 Reporting Units: mg/L Analytical Batch No.: 240551

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	11:02	TOC Result 1	26.1	25.0	104	90-110		WC TOC CCV_00314
			Total Organic Carbon	26.1	25.0	104	90-110		WC TOC CCV_00314
3	CCB	11:09	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
14	CCVL	14:16	TOC Result 1	4.88	5.00	98	90-110		WC TOC CCVL_00108
			Total Organic Carbon	4.88	5.00	98	90-110		WC TOC CCVL_00108
15	CCB	14:25	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
26	CCV	18:24	TOC Result 1	24.1	25.0	97	90-110		WC TOC CCV_00314
			Total Organic Carbon	24.1	25.0	97	90-110		WC TOC CCV_00314
27	CCB	18:32	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
35	CCVL	21:54	TOC Result 1	4.72	5.00	94	90-110		WC TOC CCVL_00108
			Total Organic Carbon	4.72	5.00	94	90-110		WC TOC CCVL_00108
36	CCB	22:04	TOC Result 1	0.0870				J	
			Total Organic Carbon	0.0870				J	
47	CCVL	01:15	TOC Result 1	4.81	5.00	96	90-110		WC TOC CCVL_00108
			Total Organic Carbon	4.81	5.00	96	90-110		WC TOC CCVL_00108
48	CCV	01:23	TOC Result 1	23.9	25.0	96	90-110		WC TOC CCV_00314
			Total Organic Carbon	23.9	25.0	96	90-110		WC TOC CCV_00314
49	CCB	01:32	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 239362 Date: 07/21/2016 16:05							
2320B-1997	MB 240-239362/7	Alkalinity	5.0	U	mg/L	5.0	1
Batch ID: 239580 Date: 07/22/2016 14:17							
2320B-1997	MB 240-239580/5	Alkalinity	2.04	J	mg/L	5.0	1
Batch ID: 239748 Date: 07/25/2016 10:34							
2320B-1997	MB 240-239748/5	Alkalinity	5.0	U	mg/L	5.0	1
Batch ID: 239032 Date: 07/20/2016 08:30							
300.0	MB 240-239032/3	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 239446 Date: 07/22/2016 17:27							
300.0	MB 240-239446/3	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 239904 Date: 07/27/2016 16:38							
300.0	MB 240-239904/27	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 239718 Date: 07/25/2016 22:33							
9060A	MB 240-239718/37	TOC Result 1	1.0	U	mg/L	1.0	1
9060A	MB 240-239718/37	Total Organic Carbon	1.0	U	mg/L	1.0	1
Batch ID: 240551 Date: 07/29/2016 11:20							
9060A	MB 240-240551/4	TOC Result 1	1.0	U	mg/L	1.0	1
9060A	MB 240-240551/4	Total Organic Carbon	1.0	U	mg/L	1.0	1
Batch ID: 240551 Date: 07/29/2016 22:12							
9060A	MB 240-240551/37	TOC Result 1	1.0	U	mg/L	1.0	1
9060A	MB 240-240551/37	Total Organic Carbon	1.0	U	mg/L	1.0	1
Batch ID: 239389 Date: 07/22/2016 11:45							
SM 2540C	MB 240-239389/1	Total Dissolved Solids	10	U	mg/L	10	1
Batch ID: 239600 Date: 07/25/2016 08:52							
SM 2540C	MB 240-239600/1	Total Dissolved Solids	10	U	mg/L	10	1
Batch ID: 239768 Date: 07/26/2016 08:57							
SM 2540C	MB 240-239768/1	Total Dissolved Solids	10	U	mg/L	10	1
Batch ID: 239992 Date: 07/27/2016 09:27							
SM 2540C	MB 240-239992/1	Total Dissolved Solids	10	U	mg/L	10	1
Batch ID: 240201 Date: 07/28/2016 10:20							
SM 2540C	MB 240-240201/1	Total Dissolved Solids	10	U	mg/L	10	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 239362 Date: 07/21/2016 16:36											
2320B-1 997	240-67404-AC- 1	Alkalinity	150		mg/L						
2320B-1 997	240-67404-AC- 1 MS	Alkalinity	598		mg/L	500	90	10-160			
Batch ID: 239032 Date: 07/20/2016 09:19											
300.0	240-67328-2	Sulfate	1.6		mg/L						
300.0	240-67328-2 MS	Sulfate	55.1		mg/L	50.0	107	80-120			
Batch ID: 239446 Date: 07/22/2016 18:27											
300.0	190-11214-C-1	Sulfate	25		mg/L						
300.0	190-11214-C-1 MS	Sulfate	84.5		mg/L	50.0	119	80-120			
Batch ID: 239904 Date: 07/27/2016 18:16											
300.0	240-67371-2	Sulfate	17		mg/L						
300.0	240-67371-2 MS	Sulfate	71.1		mg/L	50.0	108	80-120			
Batch ID: 239718 Date: 07/25/2016 23:24											
9060A 9	240-66909-E-1	TOC Result 1	3.0		mg/L						
9060A 9 MS	240-66909-E-1	TOC Result 1	24.8		mg/L	25.0	87	72-136			
9060A 9	240-66909-E-1	Total Organic Carbon	3.0		mg/L						
9060A 9 MS	240-66909-E-1	Total Organic Carbon	24.8		mg/L	25.0	87	72-136			
Batch ID: 240551 Date: 07/29/2016 17:12											
9060A	240-67430-I-6	TOC Result 1	2.0		mg/L						
9060A MS	240-67430-I-6	TOC Result 1	24.0		mg/L	25.0	88	72-136			
9060A	240-67430-I-6	Total Organic Carbon	2.1		mg/L						
9060A MS	240-67430-I-6	Total Organic Carbon	24.0		mg/L	25.0	88	72-136			
Batch ID: 240551 Date: 07/29/2016 23:05											
9060A	240-67443-5	TOC Result 1	5.1		mg/L						
9060A MS	240-67443-5	TOC Result 1	27.6		mg/L	25.0	90	72-136			
9060A	240-67443-5	Total Organic Carbon	5.1		mg/L						
9060A MS	240-67443-5	Total Organic Carbon	27.6		mg/L	25.0	90	72-136			

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

5-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 239362 Date: 07/21/2016 16:53											
2320B-1	240-67404-AC-1	Alkalinity	583		mg/L	500	86	10-160	3	24	
997	1 MSD										
Batch ID: 239032 Date: 07/20/2016 09:35											
300.0	240-67328-2	Sulfate	56.6		mg/L	50.0	110	80-120	3	15	
	MSD										
Batch ID: 239446 Date: 07/22/2016 18:47											
300.0	190-11214-C-1	Sulfate	75.6		mg/L	50.0	101	80-120	11	15	
	MSD										
Batch ID: 239904 Date: 07/27/2016 18:32											
300.0	240-67371-2	Sulfate	71.0		mg/L	50.0	108	80-120	0	15	
	MSD										
Batch ID: 239718 Date: 07/25/2016 23:32											
9060A	240-66909-E-1	TOC Result 1	24.5		mg/L	25.0	86	72-136	1	20	
	9 MSD										
9060A	240-66909-E-1	Total Organic Carbon	24.5		mg/L	25.0	86	72-136	1	20	
	9 MSD										
Batch ID: 240551 Date: 07/29/2016 17:20											
9060A	240-67430-I-6	TOC Result 1	24.4		mg/L	25.0	89	72-136	1	20	
	MSD										
9060A	240-67430-I-6	Total Organic Carbon	24.4		mg/L	25.0	89	72-136	1	20	
	MSD										
Batch ID: 240551 Date: 07/29/2016 23:13											
9060A	240-67443-5	TOC Result 1	27.6		mg/L	25.0	90	72-136	0	20	
	MSD										
9060A	240-67443-5	Total Organic Carbon	27.6		mg/L	25.0	90	72-136	0	20	
	MSD										

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

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 239362 Date: 07/21/2016 19:29								
2320B-1997		240-67355-A-6	Alkalinity	90	mg/L			
2320B-1997		240-67355-A-6 DU	Alkalinity	88.4	mg/L	1	20	
Batch ID: 239580 Date: 07/22/2016 14:36								
2320B-1997	MW-14B-071816	240-67328-2	Alkalinity	53	mg/L			
2320B-1997	MW-14B-071816	240-67328-2 DU	Alkalinity	53.5	mg/L	0.1	20	
Batch ID: 239748 Date: 07/25/2016 14:44								
2320B-1997		240-67507-K-6	Alkalinity	240	mg/L			
2320B-1997		240-67507-K-6 DU	Alkalinity	241	mg/L	0.6	20	
Batch ID: 239389 Date: 07/22/2016 11:45								
SM 2540C		240-67399-B-2	Total Dissolved Solids	380	mg/L			
SM 2540C		240-67399-B-2 DU	Total Dissolved Solids	384	mg/L	0.5	20	
Batch ID: 239600 Date: 07/25/2016 08:52								
SM 2540C		480-103529-C-14	Total Dissolved Solids	370	mg/L			
SM 2540C		480-103529-C-14 DU	Total Dissolved Solids	381	mg/L	3	20	
Batch ID: 239768 Date: 07/26/2016 08:57								
SM 2540C		240-67440-A-13	Total Dissolved Solids	140	mg/L			
SM 2540C		240-67440-A-13 DU	Total Dissolved Solids	136	mg/L	3	20	
Batch ID: 239992 Date: 07/27/2016 09:27								
SM 2540C	BLOCK G OUTFALL-072016	240-67443-5	Total Dissolved Solids	580	mg/L			
SM 2540C	BLOCK G OUTFALL-072016	240-67443-5 DU	Total Dissolved Solids	584	mg/L	0.5	20	
Batch ID: 240201 Date: 07/28/2016 10:20								
SM 2540C		240-67469-E-3	Total Dissolved Solids	600	mg/L			
SM 2540C		240-67469-E-3 DU	Total Dissolved Solids	596	mg/L	0.5	20	

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

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-67328-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 239362 Date: 07/21/2016 15:59											
						LCS Source: WCPHENOMINER_00015					
2320B-1 997	LCS 240-239362/6	Alkalinity	380		mg/L	368	103	90-127			
Batch ID: 239580 Date: 07/22/2016 14:12											
						LCS Source: WCPHENOMINER_00015					
2320B-1 997	LCS 240-239580/4	Alkalinity	376		mg/L	368	102	90-127			
Batch ID: 239748 Date: 07/25/2016 10:28											
						LCS Source: WCPHENOMINER_00015					
2320B-1 997	LCS 240-239748/4	Alkalinity	413		mg/L	368	112	90-127			
Batch ID: 239032 Date: 07/20/2016 08:46											
						LCS Source: WCICLCS_00544					
300.0	LCS 240-239032/4	Sulfate	49.4		mg/L	50.0	99	90-110			
Batch ID: 239446 Date: 07/22/2016 17:47											
						LCS Source: WCICLCS_00547					
300.0	LCS 240-239446/4	Sulfate	51.1		mg/L	50.0	102	90-110			
Batch ID: 239904 Date: 07/27/2016 16:54											
						LCS Source: WCICLCS_00546					
300.0	LCS 240-239904/28	Sulfate	49.5		mg/L	50.0	99	90-110			
Batch ID: 239718 Date: 07/25/2016 22:49											
						LCS Source: WC LCS_00051					
9060A	LCS 240-239718/39	TOC Result 1	13.1		mg/L	14.4	91	88-115			
9060A	LCS 240-239718/39	Total Organic Carbon	13.1		mg/L	14.4	91	88-115			
Batch ID: 240551 Date: 07/29/2016 11:35											
						LCS Source: WC LCS_00051					
9060A	LCS 240-240551/6	TOC Result 1	14.2		mg/L	14.4	98	88-115			
9060A	LCS 240-240551/6	Total Organic Carbon	14.2		mg/L	14.4	98	88-115			
Batch ID: 240551 Date: 07/29/2016 22:29											
						LCS Source: WC LCS_00051					
9060A	LCS 240-240551/39	TOC Result 1	13.1		mg/L	14.4	91	88-115			
9060A	LCS 240-240551/39	Total Organic Carbon	13.1		mg/L	14.4	91	88-115			
Batch ID: 239389 Date: 07/22/2016 11:45											
						LCS Source: WCPHENOVOLID_00016					
SM 2540C	LCS 240-239389/2	Total Dissolved Solids	426		mg/L	425	100	88-110			
Batch ID: 239600 Date: 07/25/2016 08:52											
						LCS Source: WCPHENOVOLID_00016					
SM 2540C	LCS 240-239600/2	Total Dissolved Solids	450		mg/L	425	106	88-110			

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

FORM VIIA-IN

7A-IN
 LAB CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 239768 Date: 07/26/2016 08:57											
						LCS Source: WCPHENOVSOLID_00016					
SM 2540C	LCS 240-239768/2	Total Dissolved Solids	460		mg/L	425	108	88-110			
Batch ID: 239992 Date: 07/27/2016 09:27											
						LCS Source: WCPHENOVSOLID_00016					
SM 2540C	LCS 240-239992/2	Total Dissolved Solids	394		mg/L	425	93	88-110			
Batch ID: 240201 Date: 07/28/2016 10:20											
						LCS Source: WCPHENOVSOLID_00016					
SM 2540C	LCS 240-240201/2	Total Dissolved Solids	382		mg/L	425	90	88-110			

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

FORM VIIA-IN

7A-IN
 LOW LEVEL CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 239718 Date: 07/25/2016 22:41											
						LCS Source: WC L-LCS_00002					
9060A	LLCS 240-239718/38	TOC Result 1	6.94		mg/L	7.20	96	88-115			
9060A	LLCS 240-239718/38	Total Organic Carbon	6.94		mg/L	7.20	96	88-115			
Batch ID: 240551 Date: 07/29/2016 11:28											
						LCS Source: WC L-LCS_00002					
9060A	LLCS 240-240551/5	TOC Result 1	7.34		mg/L	7.20	102	88-115			
9060A	LLCS 240-240551/5	Total Organic Carbon	7.34		mg/L	7.20	102	88-115			
Batch ID: 240551 Date: 07/29/2016 22:21											
						LCS Source: WC L-LCS_00002					
9060A	LLCS 240-240551/38	TOC Result 1	7.03		mg/L	7.20	98	88-115			
9060A	LLCS 240-240551/38	Total Organic Carbon	7.03		mg/L	7.20	98	88-115			

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: 240-67328-1
SDG Number: _____
Matrix: Water Instrument ID: STEVE
Method: 2320B-1997 MDL Date: 07/12/2013 09:18

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity		5	1.9

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-67328-1
SDG Number: _____
Matrix: Water Instrument ID: STEVE
Method: 2320B-1997 XMDL Date: 07/12/2013 09:19

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	1.9

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-67328-1

SDG Number: _____

Matrix: Water

Instrument ID: SIMON

Method: 300.0

MDL Date: 08/12/2014 17:01

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		1	0.13

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-67328-1
SDG Number: _____
Matrix: Water Instrument ID: SIMON
Method: 300.0 XMDL Date: 08/12/2014 17:02

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		1	0.13

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-67328-1

SDG Number: _____

Matrix: Water

Instrument ID: VERONICA

Method: 300.0

MDL Date: 08/12/2014 17:01

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		1	0.13

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-67328-1
SDG Number: _____
Matrix: Water Instrument ID: VERONICA
Method: 300.0 XMDL Date: 08/12/2014 17:02

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		1	0.13

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-67328-1

SDG Number: _____

Matrix: Water

Instrument ID: Clark

Method: 9060A

MDL Date: 04/28/2015 15:58

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Result 1		1	0.08
TOC Result 2		1	0.08
TOC Result 3		1	0.08
TOC Result 4		1	0.08
Total Organic Carbon		1	0.08

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-67328-1
SDG Number: _____
Matrix: Water Instrument ID: Clark
Method: 9060A XMDL Date: 04/28/2015 15:59

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Result 1		1	0.08
TOC Result 2		1	0.08
TOC Result 3		1	0.08
TOC Result 4		1	0.08
Total Organic Carbon		1	0.08

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-67328-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: SM 2540C

MDL Date: 01/28/2010 09:50

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Dissolved Solids		10	7.4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-67328-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 2540C XMDL Date: 01/28/2010 09:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	7.4

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: STEVE Analysis Method: 2320B-1997

Start Date: 07/21/2016 14:09 End Date: 07/21/2016 22:23

Lab Sample Id	D/F	T y p e	Time	Analytes																			
				A l k																			
RINSE 240-239362/1			14:09																				
RINSE 240-239362/2			14:15																				
RINSE 240-239362/3			15:20																				
RINSE 240-239362/4			15:25																				
ZZZZZZ			15:44																				
LCS 240-239362/6	1	T	15:59	X																			
MB 240-239362/7	1	T	16:05	X																			
ZZZZZZ			16:09																				
ZZZZZZ			16:18																				
240-67404-AC-1 MS	1	T	16:36	X																			
240-67404-AC-1 MSD	1	T	16:53	X																			
ZZZZZZ			17:03																				
ZZZZZZ			17:11																				
ZZZZZZ			17:20																				
ZZZZZZ			17:27																				
ZZZZZZ			17:36																				
ZZZZZZ			18:29																				
ZZZZZZ			18:42																				
ZZZZZZ			18:46																				
ZZZZZZ			18:52																				
ZZZZZZ			19:03																				
ZZZZZZ			19:12																				
ZZZZZZ			19:20																				
240-67355-A-6 DU	1	T	19:29	X																			
ZZZZZZ			19:44																				
ZZZZZZ			19:53																				
ZZZZZZ			20:05																				
ZZZZZZ			20:14																				
ZZZZZZ			20:24																				
ZZZZZZ			20:28																				
240-67371-2	1	T	20:38	X																			
240-67371-3	1	T	20:52	X																			
240-67371-4	1	T	21:12	X																			
ZZZZZZ			21:20																				
ZZZZZZ			21:30																				
ZZZZZZ			21:41																				
ZZZZZZ			21:52																				
ZZZZZZ			22:00																				
ZZZZZZ			22:13																				
ZZZZZZ			22:19																				
ZZZZZZ			22:23																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: STEVE Analysis Method: 2320B-1997

Start Date: 07/21/2016 14:09 End Date: 07/21/2016 22:23

Lab Sample Id	D/F	Type	Time	Analytes																			
				A	l	k																	

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: STEVE Analysis Method: 2320B-1997

Start Date: 07/22/2016 13:34 End Date: 07/23/2016 01:33

Lab Sample Id	D/F	T y p e	Time	Analytes																			
				A l k																			
RINSE 240-239580/1			13:34																				
RINSE 240-239580/2			13:39																				
ZZZZZZ			13:59																				
LCS 240-239580/4	1	T	14:12	X																			
MB 240-239580/5	1	T	14:17	X																			
ZZZZZZ			14:21																				
240-67328-2	1	T	14:29	X																			
240-67328-2 DU	1	T	14:36	X																			
ZZZZZZ			14:52																				
ZZZZZZ			15:02																				
ZZZZZZ			15:11																				
ZZZZZZ			15:20																				
ZZZZZZ			15:29																				
ZZZZZZ			15:36																				
ZZZZZZ			15:42																				
ZZZZZZ			15:50																				
ZZZZZZ			15:54																				
ZZZZZZ			16:03																				
ZZZZZZ			16:13																				
ZZZZZZ			16:21																				
ZZZZZZ			16:31																				
ZZZZZZ			16:40																				
ZZZZZZ			16:51																				
ZZZZZZ			17:00																				
ZZZZZZ			17:08																				
ZZZZZZ			17:30																				
ZZZZZZ			18:22																				
ZZZZZZ			18:26																				
ZZZZZZ			18:39																				
ZZZZZZ			18:45																				
ZZZZZZ			19:36																				
ZZZZZZ			20:25																				
ZZZZZZ			21:15																				
ZZZZZZ			21:23																				
ZZZZZZ			21:28																				
ZZZZZZ			21:38																				
ZZZZZZ			21:46																				
ZZZZZZ			21:56																				
ZZZZZZ			22:01																				
ZZZZZZ			22:09																				
ZZZZZZ			22:18																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
SDG No.: _____
Instrument ID: STEVE Analysis Method: 2320B-1997
Start Date: 07/22/2016 13:34 End Date: 07/23/2016 01:33

Lab Sample Id	D/F	Type	Time	Analytes																											
				A	l	k																									
ZZZZZZ			22:28																												
ZZZZZZ			22:37																												
ZZZZZZ			22:49																												
ZZZZZZ			22:58																												
ZZZZZZ			23:10																												
ZZZZZZ			23:22																												
ZZZZZZ			23:45																												
ZZZZZZ			23:54																												
ZZZZZZ			23:58																												
ZZZZZZ			00:16																												
ZZZZZZ			00:32																												
ZZZZZZ			00:47																												
ZZZZZZ			01:00																												
ZZZZZZ			01:17																												
ZZZZZZ			01:29																												
ZZZZZZ			01:33																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: STEVE Analysis Method: 2320B-1997

Start Date: 07/25/2016 09:48 End Date: 07/25/2016 16:48

Lab Sample Id	D/F	Type	Time	Analytes																			
				A	l	k																	
RINSE 240-239748/1			09:48																				
RINSE 240-239748/2			09:54																				
ZZZZZZ			10:13																				
LCS 240-239748/4	1	T	10:28	X																			
MB 240-239748/5	1	T	10:34	X																			
ZZZZZZ			10:38																				
ZZZZZZ			10:47																				
ZZZZZZ			11:35																				
ZZZZZZ			12:23																				
ZZZZZZ			12:32																				
ZZZZZZ			12:42																				
ZZZZZZ			12:50																				
ZZZZZZ			12:58																				
ZZZZZZ			13:07																				
ZZZZZZ			13:23																				
ZZZZZZ			13:38																				
ZZZZZZ			13:43																				
ZZZZZZ			13:57																				
ZZZZZZ			14:10																				
ZZZZZZ			14:21																				
ZZZZZZ			14:32																				
240-67507-K-6 DU	1	T	14:44	X																			
ZZZZZZ			14:53																				
ZZZZZZ			15:07																				
ZZZZZZ			15:18																				
ZZZZZZ			15:27																				
240-67443-3	1	T	15:54	X																			
ZZZZZZ			15:58																				
240-67443-4	1	T	16:20	X																			
240-67443-5	1	T	16:31	X																			
ZZZZZZ			16:44																				
ZZZZZZ			16:48																				

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 06/24/2016 17:56 End Date: 06/24/2016 21:13

Lab Sample Id	D/F	Type	Time	Analytes																											
				S	O	4																									
RINSE 240-235930/1			17:56																												
STD1 240-235930/2 IC	1		18:13	X																											
STD2 240-235930/3 IC	1		18:29	X																											
STD3 240-235930/4 IC	1		18:46	X																											
STD4 240-235930/5 IC	1		19:02	X																											
STD5 240-235930/6 ICRT	1		19:18	X																											
STD6 240-235930/7 IC	1		19:35	X																											
STD7 240-235930/8 IC	1		19:51	X																											
STD8 240-235930/9 IC	1		20:08	X																											
STD9 240-235930/10 IC	1		20:24	X																											
ZZZZZZ			20:41																												
ICV 240-235930/12	1		20:57	X																											
ICB 240-235930/13			21:13																												

Prep Types: _____
=

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 07/20/2016 07:57 End Date: 07/21/2016 05:34

Lab Sample Id	D/F	Type	Time	Analytes																			
				S	O	4																	
CCV 240-239032/1	1		07:57	X																			
CCB 240-239032/2	1		08:13	X																			
MB 240-239032/3	1	T	08:30	X																			
LCS 240-239032/4	1	T	08:46	X																			
240-67328-2	1	T	09:03	X																			
240-67328-2 MS	1	T	09:19	X																			
240-67328-2 MSD	1	T	09:35	X																			
ZZZZZZ			15:04																				
ZZZZZZ			15:20																				
ZZZZZZ			15:37																				
ZZZZZZ			15:53																				
ZZZZZZ			16:10																				
CCV 240-239032/13	1		16:26	X																			
CCB 240-239032/14	1		16:42	X																			
ZZZZZZ			16:59																				
ZZZZZZ			17:15																				
ZZZZZZ			17:32																				
ZZZZZZ			17:48																				
ZZZZZZ			18:04																				
ZZZZZZ			18:21																				
ZZZZZZ			18:37																				
ZZZZZZ			18:54																				
ZZZZZZ			19:10																				
ZZZZZZ			19:26																				
CCV 240-239032/25			19:43																				
CCB 240-239032/26			19:59																				
ZZZZZZ			20:16																				
RINSE 240-239032/28			20:32																				
ZZZZZZ			20:48																				
ZZZZZZ			21:05																				
ZZZZZZ			21:21																				
ZZZZZZ			21:38																				
ZZZZZZ			21:54																				
ZZZZZZ			22:11																				
ZZZZZZ			22:27																				
ZZZZZZ			22:43																				
CCV 240-239032/37			23:00																				
CCB 240-239032/38			23:16																				
ZZZZZZ			23:33																				
ZZZZZZ			23:49																				
ZZZZZZ			00:05																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 07/20/2016 07:57 End Date: 07/21/2016 05:34

Lab Sample Id	D/F	Type	Time	Analytes																											
				S	O	4																									
ZZZZZZ			00:22																												
ZZZZZZ			00:38																												
ZZZZZZ			00:55																												
ZZZZZZ			01:11																												
ZZZZZZ			01:27																												
ZZZZZZ			01:44																												
ZZZZZZ			02:00																												
CCV 240-239032/49			02:17																												
CCB 240-239032/50			02:33																												
ZZZZZZ			02:50																												
ZZZZZZ			03:06																												
ZZZZZZ			03:22																												
ZZZZZZ			03:39																												
ZZZZZZ			03:55																												
ZZZZZZ			04:12																												
ZZZZZZ			04:28																												
ZZZZZZ			04:44																												
ZZZZZZ			05:01																												
CCV 240-239032/60			05:17																												
CCB 240-239032/61			05:34																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 07/27/2016 09:31 End Date: 07/28/2016 04:07

Lab Sample Id	D/F	Type	Time	Analytes																			
				S	O	4																	
CCV 240-239904/1			09:31																				
CCB 240-239904/2			09:47																				
ZZZZZZ			10:04																				
ZZZZZZ			10:20																				
ZZZZZZ			10:37																				
ZZZZZZ			10:53																				
ZZZZZZ			11:09																				
ZZZZZZ			11:26																				
ZZZZZZ			11:42																				
ZZZZZZ			11:59																				
ZZZZZZ			12:15																				
ZZZZZZ			12:31																				
CCV 240-239904/13			12:48																				
CCB 240-239904/14			13:04																				
ZZZZZZ			13:21																				
ZZZZZZ			13:37																				
ZZZZZZ			13:54																				
ZZZZZZ			14:10																				
ZZZZZZ			14:26																				
ZZZZZZ			14:43																				
ZZZZZZ			14:59																				
ZZZZZZ			15:16																				
ZZZZZZ			15:32																				
ZZZZZZ			15:48																				
CCV 240-239904/25		1	16:05	X																			
CCB 240-239904/26		1	16:21	X																			
MB 240-239904/27		1 T	16:38	X																			
LCS 240-239904/28		1 T	16:54	X																			
ZZZZZZ			17:10																				
ZZZZZZ			17:27																				
ZZZZZZ			17:43																				
240-67371-2		1 T	18:00	X																			
240-67371-2 MS		1 T	18:16	X																			
240-67371-2 MSD		1 T	18:32	X																			
240-67371-3		1 T	18:49	X																			
240-67371-4		1 T	19:05	X																			
CCV 240-239904/37		1	19:22	X																			
CCB 240-239904/38		1	19:38	X																			
ZZZZZZ			19:55																				
ZZZZZZ			20:11																				
ZZZZZZ			20:27																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 07/27/2016 09:31 End Date: 07/28/2016 04:07

Lab Sample Id	D/F	Type	Time	Analytes																			
				S	O	4																	
ZZZZZZ			20:44																				
ZZZZZZ			21:00																				
ZZZZZZ			21:17																				
ZZZZZZ			21:33																				
ZZZZZZ			21:49																				
ZZZZZZ			22:06																				
ZZZZZZ			22:22																				
CCV 240-239904/49			22:39																				
CCB 240-239904/50			22:55																				
ZZZZZZ			23:11																				
ZZZZZZ			23:28																				
ZZZZZZ			23:44																				
CCV 240-239904/54			00:01																				
CCB 240-239904/55			00:17																				
ZZZZZZ			00:34																				
ZZZZZZ			00:50																				
ZZZZZZ			01:06																				
ZZZZZZ			01:23																				
ZZZZZZ			01:39																				
ZZZZZZ			01:56																				
ZZZZZZ			02:12																				
CCV 240-239904/63			02:28																				
CCB 240-239904/64			02:45																				
ZZZZZZ			03:01																				
ZZZZZZ			03:18																				
ZZZZZZ			03:34																				
CCV 240-239904/68			03:50																				
CCB 240-239904/69			04:07																				

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: VERONICA Analysis Method: 300.0

Start Date: 06/23/2016 16:01 End Date: 06/23/2016 19:22

Lab Sample Id	D/F	Type	Time	Analytes																											
				S	O	4																									
STD1 240-235787/1 IC	1		16:01	X																											
STD2 240-235787/2 IC	1		16:21	X																											
STD3 240-235787/3 IC	1		16:41	X																											
STD4 240-235787/4 IC	1		17:01	X																											
STD5 240-235787/5 ICRT	1		17:21	X																											
STD6 240-235787/6 IC	1		17:42	X																											
STD7 240-235787/7 IC	1		18:02	X																											
STD8 240-235787/8 IC	1		18:22	X																											
STD9 240-235787/9 IC	1		18:42	X																											
ICV 240-235787/10	1		19:02	X																											
ICB 240-235787/11			19:22																												

Prep Types: _____
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: VERONICA Analysis Method: 300.0

Start Date: 07/22/2016 16:46 End Date: 07/23/2016 08:13

Lab Sample Id	D/F	T y p e	Time	Analytes																			
				S O 4																			
CCV 240-239446/1	1		16:46	X																			
CCB 240-239446/2	1		17:06	X																			
MB 240-239446/3	1	T	17:27	X																			
LCS 240-239446/4	1	T	17:47	X																			
ZZZZZZ			18:07																				
190-11214-C-1 MS	1	T	18:27	X																			
190-11214-C-1 MSD	1	T	18:47	X																			
ZZZZZZ			19:07																				
ZZZZZZ			19:27																				
240-67443-3	5	T	19:48	X																			
240-67443-4	5	T	20:08	X																			
240-67443-5	1	T	20:28	X																			
CCV 240-239446/13	1		20:48	X																			
CCB 240-239446/14	1		21:08	X																			
ZZZZZZ			21:28																				
ZZZZZZ			21:48																				
ZZZZZZ			22:09																				
ZZZZZZ			22:29																				
ZZZZZZ			22:49																				
ZZZZZZ			23:09																				
ZZZZZZ			23:29																				
ZZZZZZ			23:49																				
ZZZZZZ			00:09																				
ZZZZZZ			00:30																				
CCV 240-239446/25	1		00:50	X																			
CCB 240-239446/26	1		01:10	X																			
ZZZZZZ			01:30																				
ZZZZZZ			01:50																				
ZZZZZZ			02:10																				
ZZZZZZ			02:31																				
ZZZZZZ			02:51																				
ZZZZZZ			03:11																				
ZZZZZZ			03:31																				
ZZZZZZ			03:51																				
ZZZZZZ			04:11																				
ZZZZZZ			04:31																				
CCV 240-239446/37			04:51																				
CCB 240-239446/38	1		05:12	X																			
ZZZZZZ			05:32																				
ZZZZZZ			05:52																				
ZZZZZZ			06:12																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: VERONICA Analysis Method: 300.0

Start Date: 07/22/2016 16:46 End Date: 07/23/2016 08:13

Lab Sample Id	D/F	Type	Time	Analytes																											
				S	O	4																									
ZZZZZZ			06:32																												
ZZZZZZ			06:52																												
ZZZZZZ			07:12																												
ZZZZZZ			07:33																												
CCV 240-239446/46	1		07:53	X																											
CCB 240-239446/47	1		08:13	X																											

Prep Types: _____

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: Clark Analysis Method: 9060A

Start Date: 07/25/2016 10:42 End Date: 07/26/2016 03:31

Lab Sample Id	D/F	Type	Time	Analytes																			
				T O C	T O C 1	T O C 2	T O C 3	T O C 4															
ZZZZZZ			10:42																				
CCV 240-239718/2			11:14																				
CCB 240-239718/3			11:21																				
ZZZZZZ			11:31																				
ZZZZZZ			11:39																				
ZZZZZZ			11:47																				
ZZZZZZ			11:56																				
ZZZZZZ			12:22																				
ZZZZZZ			12:30																				
ZZZZZZ			12:40																				
ZZZZZZ			13:07																				
ZZZZZZ			13:34																				
ZZZZZZ			14:01																				
CCVL 240-239718/14			14:28																				
CCB 240-239718/15			14:36																				
ZZZZZZ			14:46																				
ZZZZZZ			15:12																				
ZZZZZZ			15:39																				
ZZZZZZ			16:06																				
ZZZZZZ			16:33																				
ZZZZZZ			16:59																				
ZZZZZZ			17:24																				
ZZZZZZ			17:32																				
ZZZZZZ			17:42																				
ZZZZZZ			18:11																				
CCV 240-239718/26	1		18:39	X	X																		
CCB 240-239718/27			18:48																				
ZZZZZZ			18:58																				
ZZZZZZ			19:26																				
ZZZZZZ			19:54																				
ZZZZZZ			20:23																				
ZZZZZZ			20:49																				
ZZZZZZ			21:17																				
ZZZZZZ			21:45																				
CCVL 240-239718/35	1		22:14	X	X																		
CCB 240-239718/36	1		22:24	X	X																		
MB 240-239718/37	1	T	22:33	X	X																		
LLCS 240-239718/38	1	T	22:41	X	X																		
LCS 240-239718/39	1	T	22:49	X	X																		
ZZZZZZ			22:58																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Instrument ID: Clark Analysis Method: 9060A
 Start Date: 07/25/2016 10:42 End Date: 07/26/2016 03:31

Lab Sample Id	D/F	Type	Time	Analytes																			
				TOC 1	TOC 2	TOC 3	TOC 4																
240-66909-E-19 MS	2	T	23:24	X	X																		
240-66909-E-19 MSD	2	T	23:32	X	X																		
ZZZZZZ			23:42																				
ZZZZZZ			00:10																				
ZZZZZZ			00:39																				
ZZZZZZ			01:08																				
CCV 240-239718/47	1		01:35	X	X																		
CCB 240-239718/48	1		01:43	X	X																		
240-67328-2	1	T	01:53	X	X	X	X	X															
240-67328-4	1	T	02:19	X	X	X	X	X															
240-67328-3	1	T	02:48	X	X	X	X	X															
CCVL 240-239718/52	1		03:15	X	X																		
CCV 240-239718/53	1		03:23	X	X																		
CCB 240-239718/54	1		03:31	X	X																		

Prep Types: _____
 T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: Clark Analysis Method: 9060A

Start Date: 07/29/2016 10:44 End Date: 07/30/2016 01:32

Lab Sample Id	D/F	Type	Time	Analytes																			
				T O C	T O C	T O C	T O C	T O C															
ZZZZZZ			10:44																				
CCV 240-240551/2	1		11:02	X	X																		
CCB 240-240551/3	1		11:09	X	X																		
MB 240-240551/4	1	T	11:20	X	X																		
LLCS 240-240551/5	1	T	11:28	X	X																		
LCS 240-240551/6	1	T	11:35	X	X																		
ZZZZZZ			11:44																				
ZZZZZZ			12:10																				
ZZZZZZ			12:18																				
ZZZZZZ			12:28																				
ZZZZZZ			12:55																				
ZZZZZZ			13:22																				
ZZZZZZ			13:49																				
CCVL 240-240551/14	1		14:16	X	X																		
CCB 240-240551/15	1		14:25	X	X																		
ZZZZZZ			14:34																				
ZZZZZZ			15:00																				
ZZZZZZ			15:26																				
ZZZZZZ			15:54																				
ZZZZZZ			16:20																				
ZZZZZZ			16:47																				
240-67430-I-6 MS	2	T	17:12	X	X																		
240-67430-I-6 MSD	2	T	17:20	X	X																		
ZZZZZZ			17:31																				
ZZZZZZ			17:58																				
CCV 240-240551/26	1		18:24	X	X																		
CCB 240-240551/27	1		18:32	X	X																		
ZZZZZZ			18:42																				
ZZZZZZ			19:09																				
ZZZZZZ			19:35																				
ZZZZZZ			20:03																				
ZZZZZZ			20:32																				
240-67371-2	2	T	20:59	X	X	X	X	X															
240-67371-3	1	T	21:25	X	X	X	X	X															
CCVL 240-240551/35	1		21:54	X	X																		
CCB 240-240551/36	1		22:04	X	X																		
MB 240-240551/37	1	T	22:12	X	X																		
LLCS 240-240551/38	1	T	22:21	X	X																		
LCS 240-240551/39	1	T	22:29	X	X																		
240-67443-5	1	T	22:38	X	X	X	X	X															

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1
 SDG No.: _____
 Instrument ID: Clark Analysis Method: 9060A
 Start Date: 07/29/2016 10:44 End Date: 07/30/2016 01:32

Lab Sample Id	D/F	T y p e	Time	Analytes																			
				T O C	T O C 1	T O C 2	T O C 3	T O C 4															
240-67443-5 MS	2	T	23:05	X	X																		
240-67443-5 MSD	2	T	23:13	X	X																		
240-67371-4	10	T	23:22	X	X	X	X	X															
240-67443-4	4	T	23:50	X	X	X	X	X															
240-67443-3	20	T	00:18	X	X	X	X	X															
240-67443-2	1	T	00:48	X	X	X	X	X															
CCVL 240-240551/47	1		01:15	X	X																		
CCV 240-240551/48	1		01:23	X	X																		
CCB 240-240551/49	1		01:32	X	X																		

Prep Types: _____
 T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2540C

Start Date: 07/22/2016 11:45 End Date: 07/22/2016 11:45

Lab Sample Id	D/F	T y p e	Time	T D S	Analytes																			
MB 240-239389/1	1	T	11:45	X																				
LCS 240-239389/2	1	T	11:45	X																				
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
240-67399-B-2 DU	1	T	11:45	X																				
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
ZZZZZZ			11:45																					
240-67328-2	1	T	11:45	X																				
ZZZZZZ			11:45																					

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2540C

Start Date: 07/25/2016 08:52 End Date: 07/25/2016 08:52

Lab Sample Id	D/F	T P e	Time	T D S	Analytes																			
MB 240-239600/1	1	T	08:52	X																				
LCS 240-239600/2	1	T	08:52	X																				
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
480-103529-C-14 DU	1	T	08:52	X																				
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
240-67371-3	1	T	08:52	X																				
240-67371-4	1	T	08:52	X																				
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					
ZZZZZZ			08:52																					

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2540C

Start Date: 07/26/2016 08:57 End Date: 07/26/2016 08:57

Lab Sample Id	D/F	T y p e	Time	T D S	Analytes																			
MB 240-239768/1	1	T	08:57	X																				
LCS 240-239768/2	1	T	08:57	X																				
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
240-67440-A-13 DU	1	T	08:57	X																				
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
ZZZZZZ			08:57																					
240-67443-3	1	T	08:57	X																				
240-67443-4	1	T	08:57	X																				

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2540C

Start Date: 07/27/2016 09:27 End Date: 07/27/2016 09:27

Lab Sample Id	D/F	Type	Time	TDS	Analytes																			
MB 240-239992/1	1	T	09:27	X																				
LCS 240-239992/2	1	T	09:27	X																				
240-67443-5 DU	1	T	09:27	X																				
240-67443-5	1	T	09:27	X																				
ZZZZZZ			09:27																					
ZZZZZZ			09:27																					
ZZZZZZ			09:27																					
ZZZZZZ			09:27																					
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ZZZZZZ			09:27																					
ZZZZZZ			09:27																					

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2540C

Start Date: 07/28/2016 10:20 End Date: 08/01/2016 15:36

Lab Sample Id	D/F	T y p e	Time	T D S	Analytes																			
MB 240-240201/1	1	T	10:20	X																				
LCS 240-240201/2	1	T	10:20	X																				
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
240-67469-E-3 DU	1	T	10:20	X																				
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
ZZZZZZ			10:20																					
240-67371-2	1	T	10:20	X																				
ZZZZZZ			15:36																					

Prep Types: _____
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Batch Number: 239362 Batch Start Date: 07/21/16 14:09 Batch Analyst: Nolle, Laura C

Batch Method: 2320B-1997 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CalcMsg	FinalAmount	WCALKMSMSD 00016	WCPHENOMINER 00015
LCS 240-239362/6		2320B-1997		50 mL	BuretStart2 is blank	50 mL		50 mL
MB 240-239362/7		2320B-1997		50 mL	BuretStart2 is blank	50 mL		
240-67404-AC-1 MS		2320B-1997	T	50 mL	BuretStart2 is blank	50 mL	1 mL	
240-67404-AC-1 MSD		2320B-1997	T	50 mL	BuretStart2 is blank	50 mL	1 mL	
240-67355-A-6 DU		2320B-1997	T	50 mL	BuretStart2 is blank	50 mL		
240-67371-I-2	SWMW-1I-071916	2320B-1997	T	50 mL	BuretStart2 is blank	50 mL		
240-67371-I-3	SWMW-2I-071916	2320B-1997	T	50 mL	BuretStart2 is blank	50 mL		
240-67371-I-4	SWMW-5I-071916	2320B-1997	T	50 mL	BuretStart2 is blank	50 mL		

Batch Notes	
pH Buffer 1 ID	4-2614181
pH Buffer 2 ID	7-2614184
pH Buffer 3 ID	10-2492819
pH Buffer 4 ID	12-2614176
Sulfuric Acid Lot Number	2301144
Nominal Amount Used	50 mL
Probe ID	112
Normality of First Titrant	.02 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.: 240-67328-1

SDG No.: _____

Batch Number: 239580 Batch Start Date: 07/22/16 13:34 Batch Analyst: Grossman, Lucas

Batch Method: 2320B-1997 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	FinalAmount	WCPHENOMINER 00015			
LCS 240-239580/4		2320B-1997		InitialAmount is blank	50 mL	50 mL			
MB 240-239580/5		2320B-1997		InitialAmount is blank	50 mL				
240-67328-J-2	MW-14B-071816	2320B-1997	T	InitialAmount is blank	50 mL				
240-67328-J-2 DU	MW-14B-071816	2320B-1997	T	InitialAmount is blank	50 mL				

Batch Notes	
pH Buffer 1 ID	4-2614181
pH Buffer 2 ID	7-2614184
pH Buffer 3 ID	10-2492819
pH Buffer 4 ID	12-2614176
Sulfuric Acid Lot Number	2564942
Nominal Amount Used	50 mL
Probe ID	112
Normality of First Titrant	0.02 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.: 240-67328-1

SDG No.: _____

Batch Number: 239748 Batch Start Date: 07/25/16 09:48 Batch Analyst: Grossman, Lucas

Batch Method: 2320B-1997 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	FinalAmount	WCPHENOMINER 00015			
LCS 240-239748/4		2320B-1997		InitialAmount is blank	50 mL	50 mL			
MB 240-239748/5		2320B-1997		InitialAmount is blank	50 mL				
240-67507-K-6 DU		2320B-1997	T	InitialAmount is blank	50 mL				
240-67443-J-3	SMMW-4I-072016	2320B-1997	T	InitialAmount is blank	50 mL				
240-67443-G-4	SMMW-3I-072016	2320B-1997	T	InitialAmount is blank	50 mL				
240-67443-G-5	BLOCK G OUTFALL-072016	2320B-1997	T	InitialAmount is blank	50 mL				

Batch Notes	
pH Buffer 1 ID	4-2614181
pH Buffer 2 ID	7-2614184
pH Buffer 3 ID	10-2492819
pH Buffer 4 ID	12-2614176
Sulfuric Acid Lot Number	2564942
Nominal Amount Used	50 mL
Probe ID	112
Normality of First Titrant	0.02 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.: 240-67328-1

SDG No.: _____

Batch Number: 235787 Batch Start Date: 06/23/16 16:01 Batch Analyst: Grossman, Lucas

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCAL SOLN 00262	WCICLCS 00538			
STD1 240-235787/1 IC		300.0		5 mL	0.025 mL				
STD2 240-235787/2 IC		300.0		5 mL	0.125 mL				
STD3 240-235787/3 IC		300.0		5 mL	0.25 mL				
STD4 240-235787/4 IC		300.0		5 mL	0.5 mL				
STD5 240-235787/5 ICRT		300.0		5 mL	1.25 mL				
STD6 240-235787/6 IC		300.0		5 mL	2 mL				
STD7 240-235787/7 IC		300.0		5 mL	2.5 mL				
STD8 240-235787/8 IC		300.0		5 mL	3.75 mL				
STD9 240-235787/9 IC		300.0		5 mL	5 mL				
ICV 240-235787/10		300.0		5 mL		5 mL			

Batch Notes	

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 BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Batch Number: 235930 Batch Start Date: 06/24/16 17:56 Batch Analyst: Burns, Jill

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCICCAL SOLN 00263	WCICLCS 00539		
STD1 240-235930/2 IC		300.0		5 mL	1.0 mL	0.025 mL			
STD2 240-235930/3 IC		300.0		5 mL		0.125 mL			
STD3 240-235930/4 IC		300.0		5 mL		0.25 mL			
STD4 240-235930/5 IC		300.0		5 mL		0.5 mL			
STD5 240-235930/6 ICRT		300.0		5 mL		1.25 mL			
STD6 240-235930/7 IC		300.0		5 mL		2 mL			
STD7 240-235930/8 IC		300.0		5 mL		2.5 mL			
STD8 240-235930/9 IC		300.0		5 mL		3.75 mL			
STD9 240-235930/10 IC		300.0		5 mL		5 mL			
ICV 240-235930/12		300.0		5 mL	1.0 mL		5 mL		

Batch Notes	

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Batch Number: 239032 Batch Start Date: 07/20/16 07:57 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00701	WCICELUENT 00177	WCICLCS 00544	WCICSOLNA1 00014	WCICSOLNB1 00012
CCV 240-239032/1		300.0		5 mL	5 mL				
CCB 240-239032/2		300.0		5 mL		5 mL			
MB 240-239032/3		300.0		5 mL		5 mL			
LCS 240-239032/4		300.0		5 mL			5 mL		
240-67328-J-2	MW-14B-071816	300.0	T	5 mL					
240-67328-J-2 MS	MW-14B-071816	300.0	T	5 mL				0.1 mL	0.1 mL
240-67328-J-2 MSD	MW-14B-071816	300.0	T	5 mL				0.1 mL	0.1 mL
CCV 240-239032/13		300.0		5 mL	5 mL				
CCB 240-239032/14		300.0		5 mL		5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Batch Number: 239446 Batch Start Date: 07/22/16 16:46 Batch Analyst: Grossman, Lucas

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00704	WCICLCS 00547	WCICSOLNA1 00014	WCICSOLNB1 00012	
CCV 240-239446/1		300.0		5 mL	5 mL				
CCB 240-239446/2		300.0		5 mL					
MB 240-239446/3		300.0		5 mL					
LCS 240-239446/4		300.0		5 mL		5 mL			
190-11214-C-1 MS		300.0	T	5 mL			0.1 mL	0.1 mL	
190-11214-C-1 MSD		300.0	T	5 mL			0.1 mL	0.1 mL	
240-67443-J-3	SWMW-4I-072016	300.0	T	5 mL					
240-67443-G-4	SWMW-3I-072016	300.0	T	5 mL					
240-67443-G-5	BLOCK G OUTFALL-072016	300.0	T	5 mL					
CCV 240-239446/13		300.0		5 mL	5 mL				
CCB 240-239446/14		300.0		5 mL					
CCV 240-239446/25		300.0		5 mL	5 mL				
CCB 240-239446/26		300.0		5 mL					
MB 240-239446/27		300.0		5 mL					
LCS 240-239446/28		300.0		5 mL		5 mL			
240-67454-A-2 MS		300.0	T	5 mL			0.1 mL	0.1 mL	
240-67454-A-2 MSD		300.0	T	5 mL			0.1 mL	0.1 mL	
CCB 240-239446/38		300.0		5 mL					
240-67371-I-2	SWMW-1I-071916	300.0	T	5 mL					
240-67371-I-3	SWMW-2I-071916	300.0	T	5 mL					
240-67371-I-4	SWMW-5I-071916	300.0	T	5 mL					
CCV 240-239446/46		300.0		5 mL	5 mL				
CCB 240-239446/47		300.0		5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Batch Number: 239446 Batch Start Date: 07/22/16 16:46 Batch Analyst: Grossman, Lucas

Batch Method: 300.0 Batch End Date: _____

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Batch Number: 239904 Batch Start Date: 07/27/16 09:31 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00703	WCICELUENT 00178	WCICLCS 00546	WCICSOLNA1 00014	WCICSOLNB1 00012
CCV 240-239904/25		300.0		5 mL	5 mL				
CCB 240-239904/26		300.0		5 mL		5 mL			
MB 240-239904/27		300.0		5 mL		5 mL			
LCS 240-239904/28		300.0		5 mL			5 mL		
240-67371-I-2	SWMW-1I-071916	300.0	T	5 mL					
240-67371-I-2	SWMW-1I-071916	300.0	T	5 mL				0.1 mL	0.1 mL
MS 240-67371-I-2	SWMW-1I-071916	300.0	T	5 mL				0.1 mL	0.1 mL
MSD 240-67371-I-3	SWMW-2I-071916	300.0	T	5 mL					
240-67371-I-4	SWMW-5I-071916	300.0	T	5 mL					
CCV 240-239904/37		300.0		5 mL	5 mL				
CCB 240-239904/38		300.0		5 mL		5 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.: 240-67328-1

SDG No.: _____

Batch Number: 239718 Batch Start Date: 07/25/16 10:42 Batch Analyst: Harshman, Tom

Batch Method: 9060A Batch End Date: 07/26/16 03:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC L-LCS 00002	WC LCS 00051	WC TOC CCV 00313	WC TOC CCVL 00107
CCV 240-239718/26		9060A		40 mL	40 mL			40 mL	
CCVL 240-239718/35		9060A		40 mL	40 mL				40 mL
CCB 240-239718/36		9060A		40 mL	40 mL				
MB 240-239718/37		9060A		40 mL	40 mL				
LLCS 240-239718/38		9060A		40 mL	40 mL	40 mL			
LCS 240-239718/39		9060A		40 mL	40 mL		40 mL		
240-66909-E-19 MS		9060A	T	40 mL	40 mL			20 mL	
240-66909-E-19 MSD		9060A	T	40 mL	40 mL			20 mL	
CCV 240-239718/47		9060A		40 mL	40 mL			40 mL	
CCB 240-239718/48		9060A		40 mL	40 mL				
240-67328-G-2	MW-14B-071816	9060A	T	40 mL	40 mL				
240-67328-D-4	MW-12A-071816	9060A	T	40 mL	40 mL				
240-67328-D-3	MW-12B-071816	9060A	T	40 mL	40 mL				
CCVL 240-239718/52		9060A		40 mL	40 mL				40 mL
CCV 240-239718/53		9060A		40 mL	40 mL			40 mL	
CCB 240-239718/54		9060A		40 mL	40 mL				

Batch Notes	
Phosphoric Acid ID	2607487
Pipette ID	C6 / E5
Sodium Persulfate ID	2607488

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.: 240-67328-1

SDG No.: _____

Batch Number: 240551 Batch Start Date: 07/29/16 10:44 Batch Analyst: Harshman, Tom

Batch Method: 9060A Batch End Date: 07/30/16 01:32

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC L-LCS 00002	WC LCS 00051	WC TOC CCV 00314	WC TOC CCVL 00108
CCV 240-240551/2		9060A		40 mL	40 mL			40 mL	
CCB 240-240551/3		9060A		40 mL	40 mL				
MB 240-240551/4		9060A		40 mL	40 mL				
LLCS 240-240551/5		9060A		40 mL	40 mL	40 mL			
LCS 240-240551/6		9060A		40 mL	40 mL		40 mL		
CCVL 240-240551/14		9060A		40 mL	40 mL				40 mL
CCB 240-240551/15		9060A		40 mL	40 mL				
240-67430-I-6 MS		9060A	T	40 mL	40 mL			20 mL	
240-67430-I-6 MSD		9060A	T	40 mL	40 mL			20 mL	
CCV 240-240551/26		9060A		40 mL	40 mL			40 mL	
CCB 240-240551/27		9060A		40 mL	40 mL				
240-67371-G-2 ^2	SWMW-1I-071916	9060A	T	40 mL	40 mL				
240-67371-G-3	SWMW-2I-071916	9060A	T	40 mL	40 mL				
CCVL 240-240551/35		9060A		40 mL	40 mL				40 mL
CCB 240-240551/36		9060A		40 mL	40 mL				
MB 240-240551/37		9060A		40 mL	40 mL				
LLCS 240-240551/38		9060A		40 mL	40 mL	40 mL			
LCS 240-240551/39		9060A		40 mL	40 mL		40 mL		
240-67443-D-5	BLOCK G OUTFALL-072016	9060A	T	40 mL	40 mL				
240-67443-D-5 MS	BLOCK G OUTFALL-072016	9060A	T	40 mL	40 mL			20 mL	
240-67443-D-5 MSD	BLOCK G OUTFALL-072016	9060A	T	40 mL	40 mL			20 mL	
240-67371-G-4 ^10	SWMW-5I-071916	9060A	T	40 mL	40 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.: 240-67328-1

SDG No.: _____

Batch Number: 240551 Batch Start Date: 07/29/16 10:44 Batch Analyst: Harshman, Tom

Batch Method: 9060A Batch End Date: 07/30/16 01:32

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC L-LCS 00002	WC LCS 00051	WC TOC CCV 00314	WC TOC CCVL 00108
240-67443-D-4 ^4	SWMW-3I-072016	9060A	T	40 mL	40 mL				
240-67443-H-3 ^20	SWMW-4I-072016	9060A	T	40 mL	40 mL				
240-67443-E-2	SWMW-4S-072016	9060A	T	40 mL	40 mL				
CCVL 240-240551/47		9060A		40 mL	40 mL				40 mL
CCV 240-240551/48		9060A		40 mL	40 mL			40 mL	
CCB 240-240551/49		9060A		40 mL	40 mL				

Batch Notes	
Phosphoric Acid ID	2607487
Sodium Persulfate ID	2607488

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.: 240-67328-1

SDG No.: _____

Batch Number: 239389 Batch Start Date: 07/22/16 11:45 Batch Analyst: Weisend, Joeseeph

Batch Method: SM 2540C Batch End Date: 07/26/16 13:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	Weight3
MB 240-239389/1		SM 2540C			100 mL	87.0240 g	87.0241 g	87.0239 g	0 g
LCS 240-239389/2		SM 2540C			50 mL	87.1337 g	87.1555 g	87.1550 g	0 g
240-67399-B-2 DU		SM 2540C	T	640 umhos/cm	100 mL	88.0488 g	88.0876 g	88.0872 g	0 g
240-67328-J-2	MW-14B-071816	SM 2540C	T	115 umhos/cm	100 mL	85.4091 g	85.4154 g	85.4151 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight4	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue	Residue2
MB 240-239389/1		SM 2540C		0 g	Pass	N/A	N/A	0.0001 g	-0.0001 g
LCS 240-239389/2		SM 2540C		0 g	Pass	N/A	N/A	0.0218 g	0.0213 g
240-67399-B-2 DU		SM 2540C	T	0 g	Pass	N/A	N/A	0.0388 g	0.0384 g
240-67328-J-2	MW-14B-071816	SM 2540C	T	0 g	Pass	N/A	N/A	0.0063 g	0.006 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue3	FinalAmount	Residue4	CalcMsg	WCPHENOVOLID 00016
MB 240-239389/1		SM 2540C		N/A g	100 mL	N/A g	OK	
LCS 240-239389/2		SM 2540C		N/A g	100 mL	N/A g	OK	50 mL
240-67399-B-2 DU		SM 2540C	T	N/A g	100 mL	N/A g	OK	
240-67328-J-2	MW-14B-071816	SM 2540C	T	N/A g	100 mL	N/A g	OK	

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.: 240-67328-1

SDG No.: _____

Batch Number: 239389 Batch Start Date: 07/22/16 11:45 Batch Analyst: Weisend, Joseeph

Batch Method: SM 2540C Batch End Date: 07/26/16 13:43

Batch Notes	
Balance ID	B044
Conductivity Meter ID	MYRON
Constant Weight (WT2) Date/Time In	07/25/16 12:10
Constant Weight (WT2) Date/Time Out	07/25/16 14:10
Uncorrected CW (Wt2) Temp In	179 Celsius
Uncorrected CW (Wt2) Temp Out	182 Celsius
Constant Weight (WT3) Date/time In	07/25/16 16:00
Constant Weight (WT3) Date/Time Out	07/26/16 08:15
Uncorrected CW (Wt3) Temp In	180 Celsius
Uncorrected CW (Wt3) Temp Out	180 Celsius
Constant Weight (WT4) Date/Time In	07/26/16 10:52
Constant Weight (WT4) Date/Time Out	07/26/16 11:55
Constant Weight (WT4) Temp In	178 Celsius
Constant Weight (WT4) Temp Out	180 Celsius
Corrected Temperature in Oven	104 Celsius
Corrected Temperature out of Oven	104 Celsius
Date/Time Samples placed in Oven	07/22/16 03:15
Date/Time Samples Removed from Oven	07/25/16 08:30
Filter Paper ID	9697689
Nominal Amount Used	100 mL
Oven ID	001
Pipette ID	D4
Weight (WT1) Start Date/Time	07/25/16 08:32
Weight (WT1) Date/Time Out	07/25/16 10:00
Uncorrected Weight (WT1) Start Temp	180 Celsius
Uncorrected Weight (WT1) Temp Out	178 Celsius

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.: 240-67328-1

SDG No.: _____

Batch Number: 239600 Batch Start Date: 07/25/16 08:52 Batch Analyst: Weisend, Joeseeph

Batch Method: SM 2540C Batch End Date: 07/27/16 15:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	Weight3
MB 240-239600/1		SM 2540C			100 mL	90.8039 g	90.8039 g	90.8039 g	0 g
LCS 240-239600/2		SM 2540C			50 mL	86.7401 g	86.7621 g	86.7626 g	0 g
480-103529-C-14 DU		SM 2540C	T	740 umhos/cm	100 mL	76.5557 g	76.5941 g	76.5938 g	76.5938 g
240-67371-I-3	SWMW-2I-071916	SM 2540C	T	900 umhos/cm	100 mL	85.8836 g	85.9467 g	85.9469 g	0 g
240-67371-I-4	SWMW-5I-071916	SM 2540C	T	1180 umhos/cm	100 mL	88.4684 g	88.5806 g	88.5786 g	88.5790 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight4	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue	Residue2
MB 240-239600/1		SM 2540C		0 g	Pass	N/A	N/A	0 g	0 g
LCS 240-239600/2		SM 2540C		0 g	Pass	N/A	N/A	0.022 g	0.0225 g
480-103529-C-14 DU		SM 2540C	T	0 g	Pass	Pass	N/A	0.0384 g	0.0381 g
240-67371-I-3	SWMW-2I-071916	SM 2540C	T	0 g	Pass	N/A	N/A	0.0631 g	0.0633 g
240-67371-I-4	SWMW-5I-071916	SM 2540C	T	0 g	Fail >0.5mg	Pass	N/A	0.1122 g	0.1102 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue3	FinalAmount	Residue4	CalcMsg	WCPHENOVSOLID 00016
MB 240-239600/1		SM 2540C		N/A g	100 mL	N/A g	OK	
LCS 240-239600/2		SM 2540C		N/A g	100 mL	N/A g	OK	50 mL
480-103529-C-14 DU		SM 2540C	T	0.0381 g	100 mL	N/A g	OK	
240-67371-I-3	SWMW-2I-071916	SM 2540C	T	N/A g	100 mL	N/A g	OK	
240-67371-I-4	SWMW-5I-071916	SM 2540C	T	0.1106 g	100 mL	N/A g	OK	

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-67328-1

SDG No.: _____

Batch Number: 239600 Batch Start Date: 07/25/16 08:52 Batch Analyst: Weisend, Joeseph

Batch Method: SM 2540C Batch End Date: 07/27/16 15:08

Batch Notes	
Balance ID	B044
Conductivity Meter ID	MYRON
Constant Weight (WT2) Date/Time In	07/26/16 11:54
Constant Weight (WT2) Date/Time Out	07/26/16 13:26
Uncorrected CW (Wt2) Temp In	180 Celsius
Uncorrected CW (Wt2) Temp Out	178 Celsius
Constant Weight (WT3) Date/time In	07/26/16 16:29
Constant Weight (WT3) Date/Time Out	07/27/16 09:05
Uncorrected CW (Wt3) Temp In	180 Celsius
Uncorrected CW (Wt3) Temp Out	180 Celsius
Constant Weight (WT4) Date/Time In	07/27/16 11:30
Constant Weight (WT4) Date/Time Out	07/27/16 13:15
Constant Weight (WT4) Temp In	178 Celsius
Constant Weight (WT4) Temp Out	180 Celsius
Corrected Temperature in Oven	103 Celsius
Corrected Temperature out of Oven	104 Celsius
Date/Time Samples placed in Oven	07/25/16 10:57
Date/Time Samples Removed from Oven	07/26/16 08:20
Filter Paper ID	9697689
Nominal Amount Used	100 mL
Oven ID	001
Weight (WT1) Start Date/Time	07/26/16 08:20
Weight (WT1) Date/Time Out	07/26/16 09:43
Uncorrected Weight (WT1) Start Temp	178 Celsius
Uncorrected Weight (WT1) Temp Out	180 Celsius

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.: 240-67328-1

SDG No.: _____

Batch Number: 239768 Batch Start Date: 07/26/16 08:57 Batch Analyst: Weisend, Joseph

Batch Method: SM 2540C Batch End Date: 07/28/16 15:56

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	Weight3
MB 240-239768/1		SM 2540C			100 mL	87.0173 g	87.0175 g	87.0174 g	0 g
LCS 240-239768/2		SM 2540C			50 mL	86.6150 g	86.6377 g	86.6380 g	0 g
240-67440-A-13 DU		SM 2540C	T	160 umhos/cm	100 mL	90.2384 g	90.2486 g	90.2504 g	90.2520 g
240-67443-J-3	SWMW-4I-072016	SM 2540C	T	1600 umhos/cm	50 mL	75.8877 g	75.9741 g	75.9752 g	75.9749 g
240-67443-G-4	SWMW-3I-072016	SM 2540C	T	1990 umhos/cm	50 mL	75.2971 g	75.3519 g	75.3518 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight4	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue	Residue2
MB 240-239768/1		SM 2540C		0 g	Pass	N/A	N/A	0.0002 g	0.0001 g
LCS 240-239768/2		SM 2540C		0 g	Pass	N/A	N/A	0.0227 g	0.023 g
240-67440-A-13 DU		SM 2540C	T	90.2520 g	Fail >0.5mg	Fail >0.5mg	Pass	0.0102 g	0.012 g
240-67443-J-3	SWMW-4I-072016	SM 2540C	T	0 g	Fail >0.5mg	Pass	N/A	0.0864 g	0.0875 g
240-67443-G-4	SWMW-3I-072016	SM 2540C	T	0 g	Pass	N/A	N/A	0.0548 g	0.0547 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue3	FinalAmount	Residue4	CalcMsg	WCPHENOVSOLID 00016
MB 240-239768/1		SM 2540C		N/A g	100 mL	N/A g	OK	
LCS 240-239768/2		SM 2540C		N/A g	100 mL	N/A g	OK	50 mL
240-67440-A-13 DU		SM 2540C	T	0.0136 g	100 mL	0.0136 g	OK	
240-67443-J-3	SWMW-4I-072016	SM 2540C	T	0.0872 g	100 mL	N/A g	OK	
240-67443-G-4	SWMW-3I-072016	SM 2540C	T	N/A g	100 mL	N/A g	OK	

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.: 240-67328-1

SDG No.: _____

Batch Number: 239768 Batch Start Date: 07/26/16 08:57 Batch Analyst: Weisend, Joeseph

Batch Method: SM 2540C Batch End Date: 07/28/16 15:56

Batch Notes	
Balance ID	B044
Conductivity Meter ID	MYRON
Constant Weight (WT2) Date/Time In	07/27/16 13:15
Constant Weight (WT2) Date/Time Out	07/27/16 14:28
Uncorrected CW (Wt2) Temp In	178 Celsius
Uncorrected CW (Wt2) Temp Out	178 Celsius
Constant Weight (WT3) Date/time In	07/27/16 16:47
Constant Weight (WT3) Date/Time Out	07/28/16 08:59
Uncorrected CW (Wt3) Temp In	180 Celsius
Uncorrected CW (Wt3) Temp Out	182 Celsius
Constant Weight (WT4) Date/Time In	07/28/16 11:48
Constant Weight (WT4) Date/Time Out	07/28/16 13:02
Constant Weight (WT4) Temp In	178 Celsius
Constant Weight (WT4) Temp Out	178 Celsius
Corrected Temperature in Oven	104 Celsius
Corrected Temperature out of Oven	104 Celsius
Date/Time Samples placed in Oven	07/26/16 10:24
Date/Time Samples Removed from Oven	07/27/16 09:04
Filter Paper ID	9679318
Nominal Amount Used	100 mL
Oven ID	001
Pipette ID	D1
Weight (WT1) Start Date/Time	07/27/16 09:05
Weight (WT1) Date/Time Out	07/27/16 11:05
Uncorrected Weight (WT1) Start Temp	180 Celsius
Uncorrected Weight (WT1) Temp Out	182 Celsius

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.: 240-67328-1

SDG No.: _____

Batch Number: 239992 Batch Start Date: 07/27/16 09:27 Batch Analyst: Weisend, Joeseeph

Batch Method: SM 2540C Batch End Date: 07/29/16 14:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	Weight3
MB 240-239992/1		SM 2540C			100 mL	86.3657 g	86.3654 g	86.3655 g	0 g
LCS 240-239992/2		SM 2540C			50 mL	87.0240 g	87.0433 g	87.0437 g	0 g
240-67443-G-5 DU	BLOCK G OUTFALL-072016	SM 2540C	T	900 umhos/cm	100 mL	90.6682 g	90.7265 g	90.7266 g	0 g
240-67443-G-5	BLOCK G OUTFALL-072016	SM 2540C	T	900 umhos/cm	100 mL	88.1115 g	88.1699 g	88.1696 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight4	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue	Residue2
MB 240-239992/1		SM 2540C		0 g	Pass	N/A	N/A	-0.0003 g	-0.0002 g
LCS 240-239992/2		SM 2540C		0 g	Pass	N/A	N/A	0.0193 g	0.0197 g
240-67443-G-5 DU	BLOCK G OUTFALL-072016	SM 2540C	T	0 g	Pass	N/A	N/A	0.0583 g	0.0584 g
240-67443-G-5	BLOCK G OUTFALL-072016	SM 2540C	T	0 g	Pass	N/A	N/A	0.0584 g	0.0581 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue3	FinalAmount	Residue4	CalcMsg	WCPHENOV SOLID 00016
MB 240-239992/1		SM 2540C		N/A g	100 mL	N/A g	OK	
LCS 240-239992/2		SM 2540C		N/A g	100 mL	N/A g	OK	50 mL
240-67443-G-5 DU	BLOCK G OUTFALL-072016	SM 2540C	T	N/A g	100 mL	N/A g	OK	
240-67443-G-5	BLOCK G OUTFALL-072016	SM 2540C	T	N/A g	100 mL	N/A g	OK	

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.: 240-67328-1

SDG No.: _____

Batch Number: 239992 Batch Start Date: 07/27/16 09:27 Batch Analyst: Weisend, Joseph

Batch Method: SM 2540C Batch End Date: 07/29/16 14:48

Batch Notes	
Balance ID	B044
Conductivity Meter ID	MYRON
Constant Weight (WT2) Date/Time In	07/28/16 13:00
Constant Weight (WT2) Date/Time Out	07/28/16 14:08
Uncorrected CW (Wt2) Temp In	178 Celsius
Uncorrected CW (Wt2) Temp Out	178 Celsius
Constant Weight (WT3) Date/time In	07/28/16 16:30
Constant Weight (WT3) Date/Time Out	07/29/16 09:08
Uncorrected CW (Wt3) Temp In	180 Celsius
Uncorrected CW (Wt3) Temp Out	182 Celsius
Constant Weight (WT4) Date/Time In	07/29/16 11:47
Constant Weight (WT4) Date/Time Out	07/29/16 13:02
Constant Weight (WT4) Temp In	178 Celsius
Constant Weight (WT4) Temp Out	180 Celsius
Corrected Temperature in Oven	104 Celsius
Corrected Temperature out of Oven	104 Celsius
Date/Time Samples placed in Oven	07/27/16 13:56
Date/Time Samples Removed from Oven	07/28/16 09:02
Filter Paper ID	9679318
Nominal Amount Used	100 mL
Oven ID	001
Pipette ID	D2
Weight (WT1) Start Date/Time	07/28/16 09:02
Weight (WT1) Date/Time Out	07/28/16 10:34
Uncorrected Weight (WT1) Start Temp	180 Celsius
Uncorrected Weight (WT1) Temp Out	180 Celsius

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.: 240-67328-1

SDG No.: _____

Batch Number: 240201 Batch Start Date: 07/28/16 10:20 Batch Analyst: Weisend, Joeseeph

Batch Method: SM 2540C Batch End Date: 08/01/16 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	Weight3
MB 240-240201/1		SM 2540C			100 mL	91.0598 g	91.0598 g	91.0598 g	0 g
LCS 240-240201/2		SM 2540C			50 mL	87.7253 g	87.7446 g	87.7444 g	0 g
240-67469-E-3 DU		SM 2540C	T	880 umhos/cm	100 mL	88.1114 g	88.1706 g	88.1710 g	0 g
240-67371-I-2	SWMW-1I-071916	SM 2540C	T	550 umhos/cm	100 mL	87.2310 g	87.2633 g	87.2629 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight4	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue	Residue2
MB 240-240201/1		SM 2540C		0 g	Pass	N/A	N/A	0 g	0 g
LCS 240-240201/2		SM 2540C		0 g	Pass	N/A	N/A	0.0193 g	0.0191 g
240-67469-E-3 DU		SM 2540C	T	0 g	Pass	N/A	N/A	0.0592 g	0.0596 g
240-67371-I-2	SWMW-1I-071916	SM 2540C	T	0 g	Pass	N/A	N/A	0.0323 g	0.0319 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue3	FinalAmount	Residue4	CalcMsg	WCPHENOVSOLID 00016
MB 240-240201/1		SM 2540C		N/A g	100 mL	N/A g	OK	
LCS 240-240201/2		SM 2540C		N/A g	100 mL	N/A g	OK	50 mL
240-67469-E-3 DU		SM 2540C	T	N/A g	100 mL	N/A g	OK	
240-67371-I-2	SWMW-1I-071916	SM 2540C	T	N/A g	100 mL	N/A g	OK	

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.: 240-67328-1

SDG No.: _____

Batch Number: 240201 Batch Start Date: 07/28/16 10:20

Batch Analyst: Weisend, Joeseph

Batch Method: SM 2540C Batch End Date: 08/01/16 15:45

Batch Notes	
Balance ID	B044
Conductivity Meter ID	MYRON
Constant Weight (WT2) Date/Time In	07/29/16 13:59
Constant Weight (WT2) Date/Time Out	07/29/16 15:10
Uncorrected CW (Wt2) Temp In	180 Celsius
Uncorrected CW (Wt2) Temp Out	180 Celsius
Constant Weight (WT3) Date/time In	07/29/16 17:30
Constant Weight (WT3) Date/Time Out	08/01/16 08:55
Uncorrected CW (Wt3) Temp In	180 Celsius
Uncorrected CW (Wt3) Temp Out	182 Celsius
Constant Weight (WT4) Date/Time In	08/01/16 10:33
Constant Weight (WT4) Date/Time Out	08/01/16 12:43
Constant Weight (WT4) Temp In	178 Celsius
Constant Weight (WT4) Temp Out	180 Celsius
Corrected Temperature in Oven	103 Celsius
Corrected Temperature out of Oven	104 Celsius
Date/Time Samples placed in Oven	07/28/16 12:48
Date/Time Samples Removed from Oven	07/29/16 09:59
Filter Paper ID	9679318
Nominal Amount Used	100 mL
Oven ID	001
Weight (WT1) Start Date/Time	07/29/16 10:00
Weight (WT1) Date/Time Out	07/29/16 11:42
Uncorrected Weight (WT1) Start Temp	180 Celsius
Uncorrected Weight (WT1) Temp Out	180 Celsius

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.

Subcontract Data

How to Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database and Client Portal

The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 32,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide. Driven by field samples, the database reflects the impacts of common contaminants, geochemical conditions, and site management practices on critical microbial populations.

With your report, you received a passcode enabling you to retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge. When accessing the database, you will be asked to provide background information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations. As with all client information provided to MI, site specific data will be treated as confidential.

Is that low, medium or high?

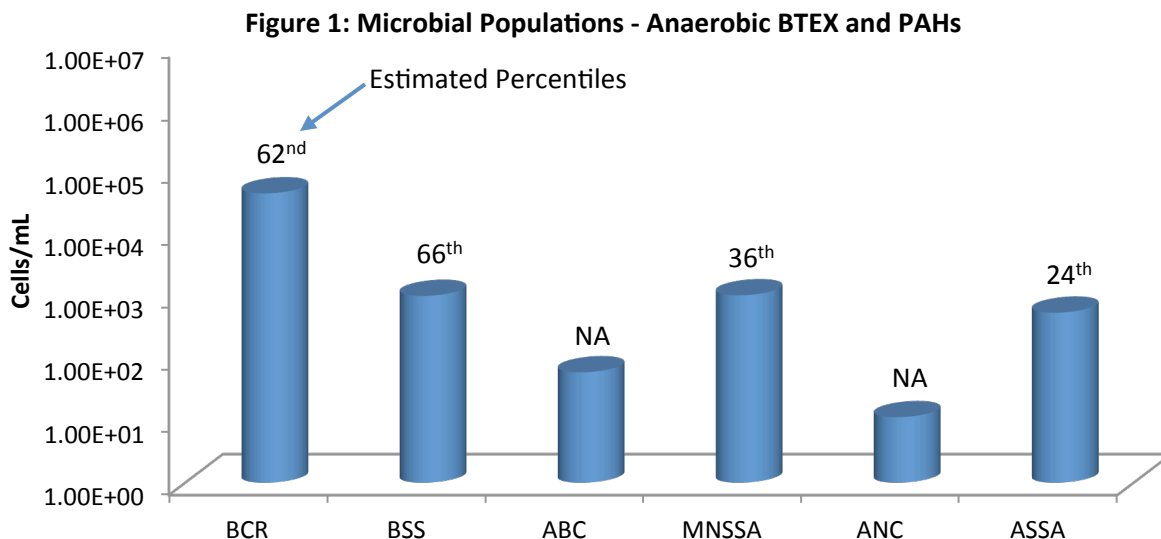
In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. Simply put, qPCR and QuantArray results demonstrating high concentrations of target microorganisms or functional genes suggest in situ selection, enrichment and growth of those specific contaminant degraders and therefore a greater probability that monitored natural attenuation (MNA) or bioremediation will be successful.

Is that a low, medium, or high concentration? The estimated percentile ranks retrieved from the MI Database answer that question by comparing your qPCR and QuantArray results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Using the Estimated Percentile - Interpretation Examples

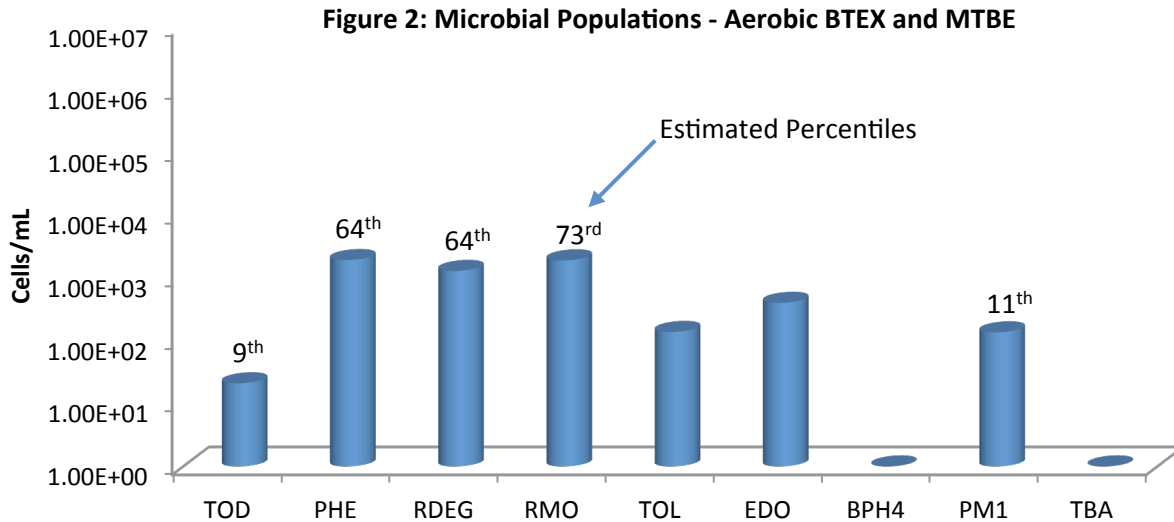
MNA Assessment – Petroleum Hydrocarbon Site:

Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between samples obtained from background and impacted wells. The estimated percentile ranks however provide an additional avenue for comparison and evaluation of treatment options as shown below.



Anaerobic BTEX and PAH Biodegradation (Figure 1):

- With moderate concentrations of functional genes involved in anaerobic BTEX metabolism detected, the QuantArray-Petro® results were encouraging in terms of evaluating biodegradation potential under existing site conditions.
- More specifically, benzylsuccinate synthase (BSS) was detected on the order of nearly 10^3 cells/mL indicating the presence of a substantial population (66th percentile) capable of anaerobic biodegradation of toluene and other alkyl substituted benzenes.
- Naphthyl-2-methylsuccinate synthase (MNSSA) and alkylsuccinate synthase (ASSA) genes were also detected indicating the potential for anaerobic biodegradation of 2-methylnaphthalene and normal alkanes.
- The concentration of MNSSA genes would be considered modest with an estimated percentile of 36th.
- While the percentile rank for MNSSA would be “below average”, a number of additional factors should be considered.
 - First, anaerobic hydrocarbon degraders are less prevalent than aerobic BTEX degraders and overall detection frequencies for many genes involved in anaerobic hydrocarbon biodegradation are less than 50%.
 - Therefore, the detection of genes like BSS, MNSSA, ASSA, anaerobic benzene carboxylase (ABC), and anaerobic naphthalene carboxylase (ANC) even at low concentrations is certainly noteworthy and inherently “better than average”.
 - The estimated percentiles for all assays are based only on samples where the concentration of the target gene was greater than the practical quantitation limit (PQL).
 - For less commonly detected targets like many of the genes involved in anaerobic hydrocarbon biodegradation this is an especially important consideration.
 - Excluding samples where a gene target is below the PQL ensured that the median concentrations of less commonly detected targets would not be unduly biased low by the fact that the gene is not detected in most samples.
- Anaerobic benzene carboxylase (ABC) and naphthalene carboxylase (ANC) genes were also detected indicating the presence of bacterial populations capable of anaerobic biodegradation of benzene and naphthalene.
- For newly identified genes like ABC and ANC, estimated percentile ranks are not yet available due to the limited number of field samples that have been analyzed to date.
- However, like MNSSA and other genes involved in anaerobic hydrocarbon biodegradation, ABC and ANC detection frequencies are relatively low so the detection of these genes even at low concentrations should be considered when evaluating biodegradation potential under existing site conditions.

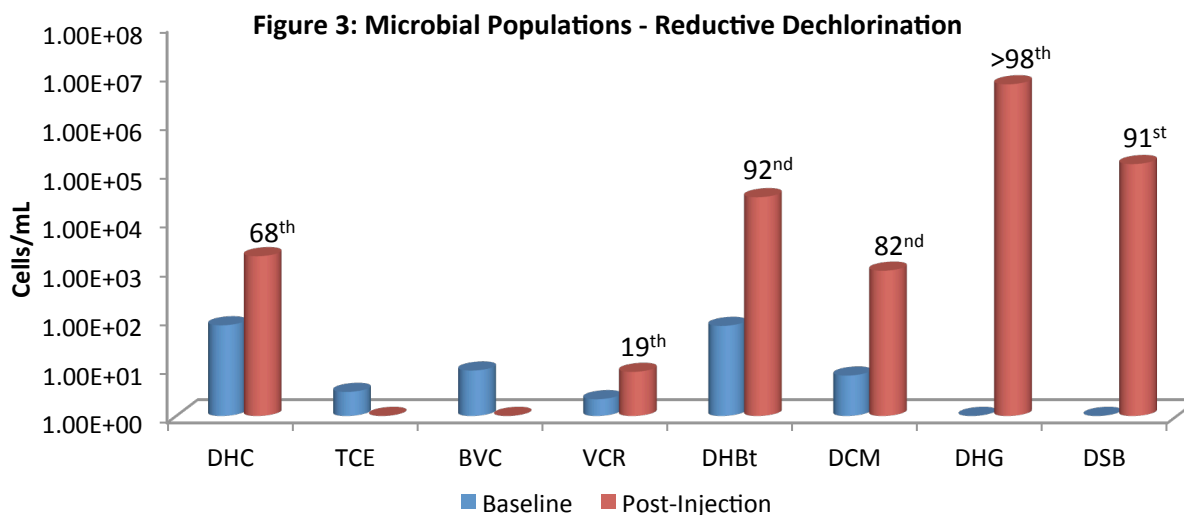


Aerobic BTEX and MTBE Biodegradation (Figure 2):

- With growing evidence that aromatic oxygenases function at low dissolved oxygen concentrations, aerobic BTEX biodegradation pathways should also be evaluated when considering MNA.
- Again, the QuantArray-Petro results were encouraging – genes encoding the first step in multiple pathways for aerobic BTEX biodegradation were detected indicating the presence of a diverse population of aerobic BTEX degraders.
- However, aerobic BTEX degraders are often considered ubiquitous. Therefore answering the question “Is that low, medium or high?” becomes especially important when evaluating aerobic BTEX biodegradation at petroleum hydrocarbon sites.
- In this case, the estimated percentile ranks of the concentrations of toluene/benzene monooxygenase (RMO and RDEG) and phenol hydroxylase (PHE) genes ranged from the 64th to 73rd percentile.
- In other words, the concentrations of RMO, RDEG, and PHE detected in this groundwater sample were greater than the concentrations detected in 64% to 73% of all other groundwater samples where these genes were analyzed and detected above the PQL.
- Aerobic BTEX degraders are common in the environment, but in this sample concentrations of toluene/benzene monooxygenase genes could be viewed as “better than average” when compared to the MI Database.

Biostimulation – Chlorinated Solvent Site:

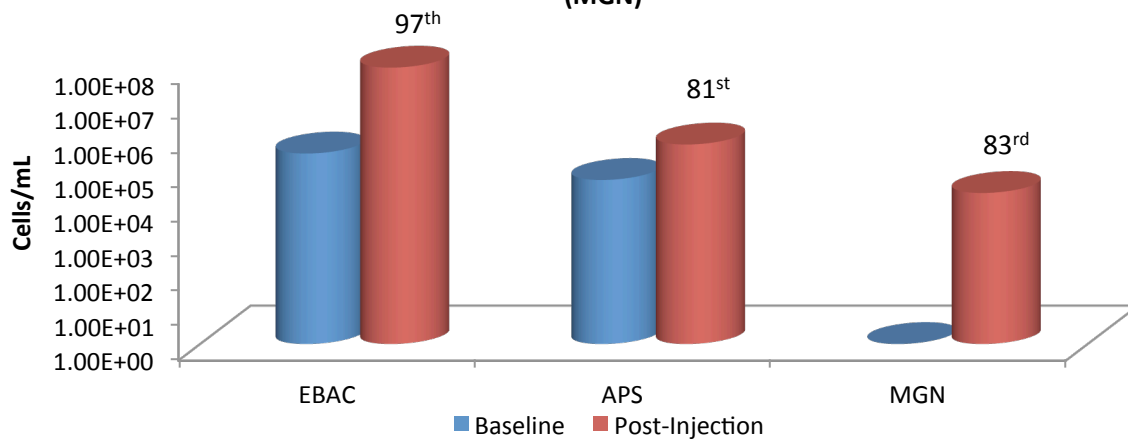
Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between baseline and post-injection monitoring events as shown below (Figure 3). The estimated percentile ranks however provide an additional avenue for comparison and evaluation of remedy performance.



- During the baseline groundwater sampling event, *Dehalococcoides* and vinyl chloride reductase genes were detected indicating the potential for complete reductive dechlorination of PCE and TCE to ethene.
- However, the *Dehalococcoides* concentration was well below the 10^4 cells/mL recommended by Lu et al. (2006) for generally effective rates of reductive dechlorination.
- Based on qPCR results as well as traditional groundwater monitoring, biostimulation with electron donor addition was selected as the site management plan.
- By the first monitoring event after injection, populations of halorespiring bacteria had increased substantially in response to electron donor addition.
 - *Dehalobacter* populations increased by more than two orders of magnitude to post-injection concentrations greater than 10^4 cells/mL (92nd percentile).
 - *Dehalogenimonas* (10^6 cells/mL) and *Desulfitobacterium* (10^5 cells/mL) which had not been detected prior electron donor addition were present at concentrations greater than observed in over 90% of other groundwater samples where these halorespiring bacteria were detected.
- After injection, *Dehalococcoides* populations increased by more than an order of magnitude to a concentration of over 10^3 cells/mL (68th percentile) demonstrating growth of this key group of halorespiring bacteria.
- Despite a substantial increase and a “better than average” concentration, the *Dehalococcoides* population was still below the 10^4 cells/mL threshold and vinyl chloride reductase gene copies were low (19th percentile).
 - In terms of electron donors and acceptors, the metabolic capabilities of *Dehalococcoides* are rather specialized (hydrogen utilizing obligate halorespiring bacteria) so the median concentration is low. With a low median concentration across the database, a “better than average” *Dehalococcoides* concentration in a given sample may not exceed the 10^4 cells/mL threshold established for effective reductive dechlorination (Lu et al. 2006) and ethene production (Microbial Insights, unpublished data).

- In this case, the initial growth of *Dehalococcoides* was substantial but may have been somewhat hindered by competition with sulfate reducing bacteria (Figure 4 below).
 - The baseline population of sulfate reducing bacteria was moderate (10^4 cells/mL; 63rd percentile). Consistent with an observed decreased in dissolved sulfate concentrations, populations of sulfate reducing bacteria increased and were detected at a relatively high concentration (81st percentile) after electron donor addition.
 - After injection, methanogen populations also increased to a relatively high concentration (83rd percentile) suggesting generation of methanogenic conditions.
- With sulfate depletion and generation of highly anaerobic conditions more conducive to reductive dechlorination, *Dehalococcoides* populations may continue to increase and exceed the 10^4 *Dehalococcoides* cells/mL threshold in subsequent monitoring events.
- Overall, QuantArray analysis conclusively demonstrated that electron donor addition stimulated growth of halorespiring bacteria with the estimated percentiles retrieved from the MI Database providing the “low, medium or high” perspective to the observed changes in microbial populations.

Figure 4: Total Bacteria (EBAC), Sulfate Reducing Bacteria (APS) and Methanogens (MGN)



References

- Lu, X., J.T. Wilson, and D.H. Kampbell. 2006. Relationship between *Dehalococcoides* DNA in ground water and rates of reductive dechlorination at field scale. *Water Research* 40 no. 16: 3131-3140.

How to Retrieve and Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database

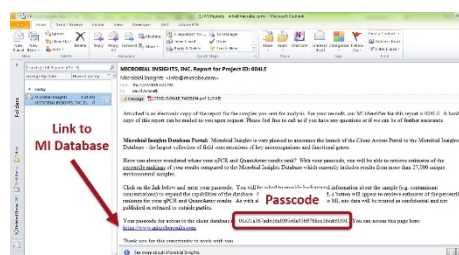
The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 40,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide.

Is that low, medium or high?

In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. The estimated percentile ranks retrieved from the MI Database answer the question “Is that low, medium or high?” by comparing your results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Retrieving Estimated Percentile Ranks

With your report, you were emailed a passcode and link enabling you to login to the Client Portal. Just enter basic information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations and you can retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge.



Well ID	Sample ID	Sample Date	Analysis Method	Run ID	CAS #	Analyte	Concentration	Units	Notes
MW1	MW1Q4	10/28/2014	SW8260B	1	107-06-2	1,2-Dichloroethane	21	UG/L	
MW1	MW1Q4	10/28/2014	SW8260B	1	156-59-2	cis-1,2-Dichloroethene	25	UG/L	
MW1	MW1Q4	10/28/2014	SW8260B	1		trans-1,2-Dichloroethene	5.8	UG/L	
MW1	MW1Q4	10/28/2014	SW8260B	1	127-1				
MW1	MW1Q4	10/28/2014	SW8260B	1	67-66				
MW1	MW1Q4	10/28/2014	SW8260B	1	79-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	107-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	156-5				
MW2	MW2Q4	11/6/2014	SW8260B	1	123-9				
MW2	MW2Q4	11/6/2014	SW8260B	1	127-1				
MW2	MW2Q4	11/6/2014	SW8260B	2	79-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	67-66				
MW2	MW2Q4	11/6/2014	SW8260B	1	75-01				

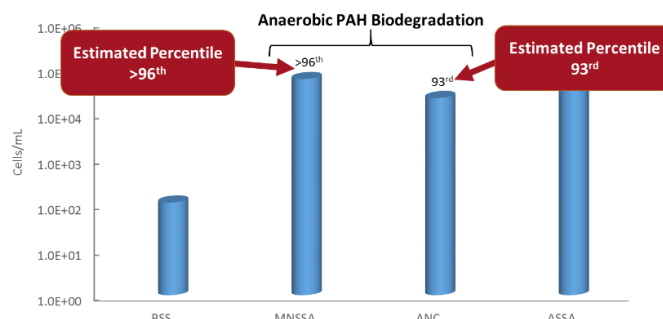
All site specific data will be treated as confidential and uploading is easy.

You can even upload chemical and geochemical data from EDDs. Just save as a Tab Delimited text file.

Example - Using Estimated Percentile for MNA Assessment at an MGP Site

CENSUS® qPCR was performed to quantify anaerobic naphthalene carboxylase (ANC) and naphthyl-2-methylsuccinate synthase (MNSSA) to assess anaerobic biodegradation of naphthalene and methyl-naphthalene under existing site conditions.

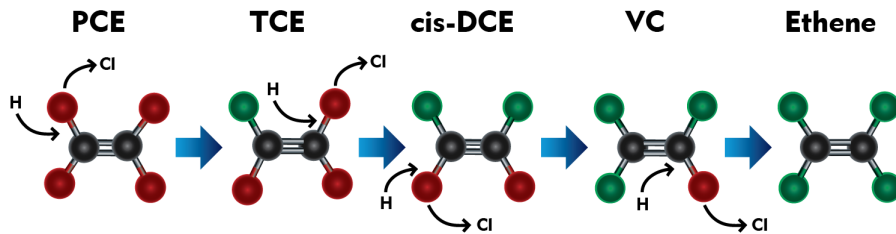
- Not only were ANC and MNSSA genes detected, but these functional genes responsible for anaerobic biodegradation of PAHs were present at concentrations “far better than average” based on the estimated percentile ranks.
- Demonstrating high concentrations of ANC and MNSSA gave an additional line of evidence indicating growth substantial populations of anaerobic PAH degraders and suggested a greater probability that monitored natural attenuation (MNA) will be successful.



DHC Interpretation

Dehalococcoides 16S rRNA gene (qDHC)

Under anaerobic conditions, tetrachloroethene (PCE) and trichloroethene (TCE) can undergo sequential reductive dechlorination through the daughter products *cis*-dichloroethene (*cis*-DCE) and vinyl chloride to nontoxic ethene (1,2).



While a number of bacterial cultures capable of utilizing PCE and TCE as growth supporting electron acceptors have been isolated (3-7), *Dehalococcoides* spp. may be the most important because they are the only bacterial group that has been isolated to date which is capable of complete reductive dechlorination of PCE to ethene (8). In fact, the presence of *Dehalococcoides* spp. has been associated with complete dechlorination to ethene at sites across North America and Europe (9).

Status	<i>Dehalococcoides</i> spp.	Observation
	$\geq 10^4$ (cells/mL)	Lu et al. proposed that a concentration of 1×10^4 DHC cells/mL could be used as a screening criterion to identify sites where reductive dechlorination will yield a generally useful biodegradation rate (10). Similarly, in an internal study conducted with nearly 1000 groundwater samples obtained from sites across the US, ethene production was observed in approximately 80% of samples in which CENSUS® qDHC results were greater than or equal to 10^4 DHC cells/mL.
	10^1 to $< 10^4$ (cells/mL)	When vinyl chloride reductase genes (See DHC functional genes discussion below) are also detected, complete reductive dechlorination of PCE and TCE to ethene may still occur even with moderate DHC concentrations. When the DHC population is below the 10^4 cells/mL criterion proposed by Lu et al. (10), project managers should carefully consider other site-specific data to determine whether subsurface conditions may be limiting reductive dechlorination. For example, the addition of an electron donor may be able to stimulate DHC growth and enhance anaerobic bioremediation.
	$< 10^1$ (cells/mL)	DHC concentrations are low suggesting that complete reductive dechlorination of PCE and TCE to ethene is unlikely to occur under existing conditions. Enhanced anaerobic bioremediation options (biostimulation or bioaugmentation) may need to be considered.

DHC Functional Genes (*tceA*, *bvcA*, *vcrA*)

A “stall” where daughter products *cis*-DCE and vinyl chloride accumulate can occur at PCE- and TCE-impacted sites especially under MNA conditions. The accumulation of vinyl chloride, generally considered more carcinogenic than the parent compounds, is particularly problematic. Although elevated *Dehalococcoides* concentrations correspond to ethene production in numerous studies, the range of chlorinated ethenes metabolized and cometabolized varies among species and strains within the *Dehalococcoides* genus. For example, *Dehalococcoides ethenogenes* str. 195 metabolizes PCE, TCE, and *cis*-DCE and cometabolizes vinyl chloride (8) to produce ethene. Conversely, *Dehalococcoides* sp. CBDB1 utilizes PCE and TCE but does not cometabolize additional chloroethenes (11). Other *Dehalococcoides* strains, such as BAV1, GT and VS, are known to fully dechlorinate *cis*-DCE and VC to ethene (14,16,19). Quantification of reductive dehalogenase genes is used to more definitively confirm the potential for reductive dechlorination of TCE, *cis*-DCE, and vinyl chloride (12-15).

Functional Gene	Observation
-----------------	-------------

TCE Reductase

<i>tceA</i> gene	<p>The <i>tceA</i> gene encodes the enzyme responsible for reductive dechlorination of TCE to <i>cis</i>-DCE in some strains of <i>Dehalococcoides</i>.</p> <p>Absence of <i>tceA</i> does not preclude the potential for reductive dechlorination of TCE in the field since the <i>tceA</i> gene is not universally distributed among all DHC and is not present in other microorganisms capable of reductive dechlorination of TCE (e.g. <i>Dehalobacter</i>).</p> <p>Detection of the <i>tceA</i> gene provides an additional line of evidence indicating the potential for dechlorination of TCE.</p>
-------------------------	---

Vinyl Chloride Reductase

<i>bvcA</i> gene	<p>The <i>bvcA</i> gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of vinyl chloride to ethene by <i>Dehalococcoides</i> sp. str. BAV1 (16).</p> <p>Presence of <i>bvcA</i> gene indicates the potential for reductive dechlorination of VC to ethene.</p> <p>Absence of both <i>bvcA</i> and <i>vcrA</i> genes suggests VC may accumulate.</p> <p>An internal study with ~1,000 samples showed ethene production was observed in 80% of the samples that the DHC population was greater than or equal to 10⁴ cells/mL. The <i>bvcA</i> gene was detected in over 50% of these samples.</p> <p>Van Der Zaan et al (17) noted that the <i>bvcA</i> gene was the only VC reductase gene detected at three of their sites.</p> <p>Alfred Spormann’s laboratory at Stanford University (18) reported that the <i>bvcA</i> gene was the most abundant and active at the outflow of a PCE fed column study. This section of the column was in the DCE to VC stages of reductive dechlorination thus confirming the importance of the <i>bvcA</i> gene for complete reductive dechlorination.</p>
<i>vcrA</i> gene	<p>The <i>vcrA</i> gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of <i>cis</i>-DCE and vinyl chloride by <i>Dehalococcoides</i> sp. strain VS (14).</p> <p>Presence of <i>vcrA</i> gene indicates the potential for reductive dechlorination of DCE and/or VC to ethene.</p> <p>Absence of both <i>bvcA</i> and <i>vcrA</i> genes suggest VC may accumulate.</p> <p>As with the <i>bvcA</i> gene, detection of the <i>vcrA</i> gene is associated with ethene production in internal studies (67%) and vinyl chloride reduction in independent studies (14, 17).</p>

Reporting

Microbial Insights can provide a variety of data packages and reporting levels to suit the needs of any project. Data packages range from simple analytical reports with results only to more complex data packages that include a report narrative, analytical results, QC data, and supporting materials including all raw data and chain-of-custody documentation. The figure below shows our standard report and explains the way values are reported.

Microbial Insights, Inc.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: Company Name	MI Project Number: Unique Laboratory Identifier
Project: Your Project Name	Date Received: Date Samples Arrived

Sample Information

Client Sample ID:	Sample A	Sample B	Sample C
Sample Date:	00/00/0000	00/00/0000	00/00/0000
Units:	cells/mL	cells/mL	cells/mL
Analyst:	Intials	Intials	Intials

Dechlorinating Bacteria

	DHC	1.84E+05	2.76E+02	2.28E+01 (J)
<i>Dehalococcoides spp.</i>				
Functional Genes				
tceA Reductase	TCE	6.00E+01	3.23E+01	<4.00E-01
bvcA Reductase	BVC	1.17E+04	1.81E+01	<4.00E-01
vcrA Reducataase	VCR	8.42E+04	1.74E+02	<4.00E-01

"J" value
Result is an estimated value. This data qualifier (flag) is used when the target gene is detected but at a concentration or abundance below the practical quantification limit (PQL).

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL
< = Result not detected

< value
The target gene was not detected at the limit of quantitation (LOQ) reported for that sample.

I = Inhibited

"I" value
QA Procedure indicated that the sample may have exhibited PCR inhibition. Although relatively rare, PCR inhibition can occur due to the presence of metals or humic acids at high concentrations in the sample.

Quality Assurance

Microbial Insights' comprehensive Quality Assurance (QA) Program is the foundation of all laboratory analyses, ensuring that our clients receive high-quality analytical services that are timely, reliable, and meet their intended purpose in a cost effective manner. MI is committed to providing quality data that surpasses regulatory and industry standards, thus enabling the client to make well-informed decisions. MI maintains strict standard operating procedures and QA/QC measures throughout all of the analyses offered. The following Table details specific QA/QC procedures that are used for CENSUS.

QA/QC	Description
Date of Extraction	DNA and RNA extractions are performed the day the samples are received by MI to minimize the possibility of any changes to the microbial community prior to analysis.
Laboratory Method Blanks	An extraction blank (no sample added) is processed alongside each set of field samples from DNA extraction through CENSUS® analysis to ensure that cross contamination has not occurred. Although MI has never experienced this issue, the detection of the CENSUS® target (e.g. <i>Dehalococcoides</i>) in an extraction blank is direct evidence of cross contamination with a sample or contamination of a reagent and would invalidate the results. If this were to occur, MI would re-extract the sample. If not possible to re-extract, MI would contact the client immediately and notate it on the laboratory report.
Laboratory Control Samples (LCS)	A laboratory control sample (LCS) or positive control (target DNA) is included with each CENSUS® plate to confirm amplification and as a continuing calibration check.
Negative Controls	A negative control (no DNA) is included with each CENSUS plate to ensure that cross contamination has not occurred during amplification. As with the extraction blank, detection of CENSUS target (e.g. DHC) in a negative control is direct evidence of contamination and would invalidate the results. If this were to occur, MI would rerun the analysis.

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Phone:

Fax:

Identifier: 050NG

Date Rec: 07/20/2016

Report Date: 07/21/2016

Client Project #: 24015639

Client Project Name: MRC 2016 GW

Purchase Order #: TA Job #240-67328-1

Analysis Requested: CENSUS

Reviewed By:

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Client: Test America
Project: MRC 2016 GW

MI Project Number: 050NG
Date Received: 07/20/2016

Sample Information

Client Sample ID: MW-14B-071816
 (240-67328-2)
Sample Date: 07/18/2016
Units: cells/mL
Analyst: CB

Dechlorinating Bacteria

<i>Dehalococcoides</i>	DHC	7.00E-01
tceA Reductase	TCE	<5.00E-01
BAV1 Vinyl Chloride Reductase	BVC	<5.00E-01
Vinyl Chloride Reductase	VCR	<5.00E-01
<i>Dehalobacter spp.</i>	DHBt	1.30E+00 (J)

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected

Quality Assurance/Quality Control Data

Samples Received 7/20/2016

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	07/20/2016	07/21/2016	0 °C	100%	non-detect	non-detect
BVC	07/20/2016	07/21/2016	0 °C	99%	non-detect	non-detect
TCE	07/20/2016	07/21/2016	0 °C	109%	non-detect	non-detect
VCR	07/20/2016	07/21/2016	0 °C	102%	non-detect	non-detect
DHBt	07/20/2016	07/21/2016	0 °C	103%	non-detect	non-detect



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Phone:

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Identifier: 061NG

Date Rec: 07/22/2016

Report Date: 07/25/2016

Client Project #: 24015639

Client Project Name: MRC Block G Month Sampling

Purchase Order #: TA Job #240-67328-1

Analysis Requested: CENSUS

Reviewed By:

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Client: Test America
Project: MRC Block G Month Sampling

MI Project Number: 061NG
Date Received: 07/22/2016

Sample Information

Client Sample ID:	SWMW-11-0719	SWMW-21-0719	SWMW-51-0719
	16 (240-67371-2)	16 (240-67371-3)	16 (240-67371-4)
Sample Date:	07/19/2016	07/19/2016	07/19/2016
Units:	cells/mL	cells/mL	cells/mL
Analyst:	JS	JS	JS

Dechlorinating Bacteria

<i>Dehalococcoides</i>	DHC	3.47E+04	1.66E+05	6.13E+04
tceA Reductase	TCE	2.74E+02	2.80E+02	2.10E+00
BAV1 Vinyl Chloride Reductase	BVC	8.50E+00	<7.00E-01	<5.00E-01
Vinyl Chloride Reductase	VCR	4.44E+03	2.75E+04	5.02E+03
<i>Dehalobacter spp.</i>	DHBt	1.99E+03	6.26E+04	1.01E+04

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected

Quality Assurance/Quality Control Data

Samples Received 7/22/2016

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHBt	07/22/2016	07/25/2016	0 °C	104%	non-detect	non-detect
DHC	07/22/2016	07/25/2016	0 °C	100%	non-detect	non-detect
BVC	07/22/2016	07/25/2016	0 °C	100%	non-detect	non-detect
TCE	07/22/2016	07/25/2016	0 °C	106%	non-detect	non-detect
VCR	07/22/2016	07/25/2016	0 °C	99%	non-detect	non-detect



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Identifier: 062NG

Date Rec: 07/22/2016

Report Date: 07/25/2016

Client Project #: 24015639

Client Project Name: MRC 2016 GW

Purchase Order #: TA Job #240-67443-1

Analysis Requested: CENSUS

Reviewed By:

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Client: Test America
Project: MRC 2016 GW

MI Project Number: 062NG
Date Received: 07/22/2016

Sample Information

Client Sample ID:	SWMW-4I-0720	SWMW-3I-0720
	16 (240-67443-3)	16 (240-67443-4)
Sample Date:	07/20/2016	07/20/2016
Units:	cells/mL	cells/mL
Analyst:	JS	JS

Dechlorinating Bacteria

<i>Dehalococcoides</i>	DHC	2.80E+05	1.14E+04
tceA Reductase	TCE	2.90E+02	3.66E+01
BAV1 Vinyl Chloride Reductase	BVC	1.78E+05	<4.00E-01
Vinyl Chloride Reductase	VCR	3.49E+04	2.23E+03
<i>Dehalobacter spp.</i>	DHBt	1.03E+04	1.37E+03

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected

Quality Assurance/Quality Control Data

Samples Received 7/22/2016

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHBt	07/22/2016	07/25/2016	0 °C	104%	non-detect	non-detect
DHC	07/22/2016	07/25/2016	0 °C	100%	non-detect	non-detect
BVC	07/22/2016	07/25/2016	0 °C	100%	non-detect	non-detect
TCE	07/22/2016	07/25/2016	0 °C	106%	non-detect	non-detect
VCR	07/22/2016	07/25/2016	0 °C	99%	non-detect	non-detect

Shipping and Receiving Documents

TestAmerica Baltimore
 7526 Connelley Drive
 Suite F
 Hanover, MD 21076
 Phone: 410.766.2516 Fax:

Chain of Custody Record

0.3 / 1.3

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Laboratories, Inc.
 TAL-8210 (07/13)

000007

Regulatory Program: DW NPDES RCRA Other:


Client Contact
 Company Name: TEA Tech Inc
 Address: 28251 Century Blvd
 City/State/Zip: Greenbelt, MD 20771
 Phone: 412-921-4100
 Fax: 412-921-4040
 Project Name: Middle River Station
 Site: Block G Month Sampling
 P O #: 121C04769

Project Manager: Chris Pike
 Tell/Fax: 412-921-4100
 Analysis Turnaround Time: WORKING DAYS
 TAT if different from Below: 2 weeks 1 week 2 days 1 day

Site Contact: Paul Pappin Date: 7-18-16
 Lab Contact: Paul Pappin Carrier: FEU ED

Filtered Sample (Y/N) Perform MS / MSD (Y/N)
 Sample Identification: TB-071816
 Sample Date: 7-18-16 Sample Time: 1020 Sample Type: G Matrix: AQ # of Cont.: 2
MW-14B-071816 1020 ↓ 10
MW-12B-071816 1149 ↓ 5
MW-12A-071816 4 1655 ↓ 5

Sample Specific Notes:
 VC, Functional gases
 BATH DHC = TCE
 Alkalinity
 ACHA = Alkyls, Esters
 MEE
 TOC
 VOCs

Barcode:  240-67328 Chain of Custody

Preservation Used: 1= Ice, 2= H2SO4; 4=HNO3; 5=NaOH; 6= Other
 Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown
 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.
 Special Instructions/QC Requirements & Comments:

Custody Seal No.: 7 Inc
 Relinquished by: Paul Pappin
 Relinquished by: TestAmerica
 Relinquished by: TestAmerica

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

TestAmerica Canton Sample Receipt Form/Narrative

Login # : 67328

Canton Facility

Client Tetra Tech Site Name Cooler Received on 7/19/16 Opened on 7/19/16 FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Cooler unpacked by: [Signature]

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# IR-8 (CF +1.3 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C IR GUN #36 (CF +1.0°C) Observed Cooler Temp. 0.3 °C Corrected Cooler Temp. 1.3 °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) 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. Are these work share samples? Yes No
If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HCS74756
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):

Company Name: Tekon Tech Inc		Client Contact	
Address: 20251 Century		Project Manager: Chas. P. Ke	
City/State/Zip: Greenbelt, MD		Tel/Fax: 412 921-7090	
Phone: 301 412 921-7090		Site Contact: John McFadden	
Fax: 412 921-7090		Lab Contact: John McFadden	
Project Name: Middle River Center		Date: 7-19-16	
Site: Block G Month Sampling		Carrier: FEDEX	
PO # HLPC 04769		COC No: 1 of 1 COCS	
Sampler:		For Lab Use Only:	
Walk-in Client:		Lab Sampling:	
Job / SDG No.:		Job / SDG No.:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Other
TB-071916	7-19-16	—	G	AQ	2	1	1	000
SWMW-1F-071916	↓	1020	↓	↓	10	1	1	1 →
SWMW-2F-071916	↓	1219	↓	↓	10	1	1	1 →
SWMW-5F-071916	↓	1505	↓	↓	10	1	1	1 →



240-67371 Chain of Custody

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

Special Instructions/QC Requirements & Comments:

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

Return to Client Disposal by Lab Archive for _____ Months

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 67371

Client: Tekvatech Site Name _____ Cooler/unpacked by: B. Martin
Cooler Received on: 7/20/14 Opened on: 7/20/14
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 See Multiple Cooler Form
IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN#36 (CF +1.0°C) Observed Cooler Temp. 1.2 °C Corrected Cooler Temp. 22 °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. Are these work share samples? Yes No
If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC574756
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): _____

000003

1.2/2.2

Regulatory Program: DW NPDES RCRA Other:

Client Contact Company Name: <u>Pharm Tech Inc</u> Address: <u>20251 Crabtree</u> City/State/Zip: <u>Crofton, MD</u> Phone: <u>410-921-7050</u> Fax: <u>410-921-7050</u> Project Name: <u>Middle River Center</u> Site: <u>Block G MSHA Sampling</u> P O #: <u>412 JC 04769</u>		Project Manager: <u>Chris Pike</u> Tell/Fax: <u>410 921-7050</u> Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: <u>Michelle</u> Lab Contact: <u>Michelle</u> Date: <u>7-19-16</u> Carrier: <u>Fed Ex</u>		COC No: _____ of _____ COCs Sampler: _____ For Lab Use Only: _____ Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____					
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=Grab) Matrix # of Cont.		Filtered Sample (Y/N) Perform MS / MSD (Y/N)		Sample Specific Notes:							
TB-071916 SWMW-1E-071916 SWMW-2E-071916 SWMW-SI-071916		7-19-16 1020 1219 1505		G AQ 2 10 10 10		200000 3231 3231 3231		ACA = ANION-ARL MEB TIC WLS DHC = Functional guides, ICE, VC		Sample Specific Notes:	
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.		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments:		Custody Seal No.: _____ Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Cooler Temp. (°C): Obs'd: _____ Cor'd: _____ Received by: <u>Michelle</u> Date/Time: <u>7-19-16/15:00</u> Company: <u>TestAmerica</u>		Received by: <u>Michelle</u> Date/Time: <u>7-19-16/15:00</u> Company: <u>TestAmerica</u>		Received in Laboratory by: <u>TANC</u> Date/Time: <u>7-20-16</u> Company: _____			

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
SWMW-1I-071916	240-67371-K-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
SWMW-2I-071916	240-67371-K-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
SWMW-5I-071916	240-67371-K-4	Plastic 250ml - with Nitric Acid	<2	_____	_____

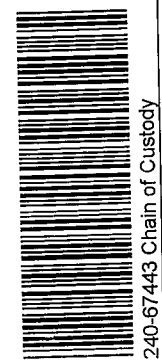
TestAmerica Baltimore
 2526 Connelley Drive
 Suite F
 Hanover, MD 21076
 Phone: 410.766.2516 Fax:

BALTIMORE
 RPA
 Project Manager: *Chris Pike*
 Tel/Fax: *410-921-7098*

Chain of Custody Record
 180325
 1.0102.0

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Laboratories, Inc.
 TAL-8210 (0713)

Company Name: <i>TEKMA Tech Inc</i>		Client Contact		Project Manager: <i>Chris Pike</i>		Site Contact: <i>John McFadden</i>		Date: <i>7-20-16</i>		COC No: <i>1</i> of <i>1</i> COCs	
Address: <i>70251 Century Blvd</i>		City/State/Zip: <i>Baltimore, MD 21274</i>		Tel/Fax: <i>410-921-7098</i>		Lab Contact: <i>John McFadden</i>		Carrier: <i>Fed Ex</i>		Sampler:	
Phone: <i>410-921-7090</i>		Fax: <i>410-921-7090</i>		Analysis Turnaround Time		Analysis Turnaround Time		Analysis Turnaround Time		For Lab Use Only:	
Project Name: <i>Middle River Center</i>		Site: <i>Block C Month Sampling</i>		PO # <i>102EC04769</i>		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Sample Identification		Sample Date		Sample Time		Matrix		# of Cont.		Sample Specific Notes:	
<i>TB-072016</i>		<i>7-20-16</i>		<i>1018</i>		<i>AR</i>		<i>2</i>		<i>ACA=Amics, AIC</i>	
<i>SWMW-45-072016</i>		<i>7-20-16</i>		<i>1128</i>		<i>AR</i>		<i>5</i>		<i>ACA=Amics, AIC</i>	
<i>SWMW-4I-072016</i>		<i>7-20-16</i>		<i>1143</i>		<i>AR</i>		<i>10</i>		<i>ACA=Amics, AIC</i>	
<i>SWMW-3I-072016</i>		<i>7-20-16</i>		<i>1505</i>		<i>AR</i>		<i>70</i>		<i>ACA=Amics, AIC</i>	
<i>Block G outfall-072016</i>		<i>7-20-16</i>		<i>1505</i>		<i>AR</i>		<i>6</i>		<i>ACA=Amics, AIC</i>	



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 Components Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client
 Disposal by Lab
 Archive for _____ Months

Custody Seal No.:
 Relinquished by: *John McFadden*
 Relinquished by: *John McFadden*
 Relinquished by: *John McFadden*

Company: *IT Inc*
 Date/Time: *7-20-16/1600*
 Company: *TestAmerica*
 Date/Time: *7-20-16/1710*
 Company: *TestAmerica*
 Date/Time: *7-20-16/1600*
 Company: *TestAmerica*
 Date/Time: *7-20-16/1600*
 Company: *John McFadden*
 Date/Time: *7-20-16/9:30*

TestAmerica Canton Sample Receipt Form/Narrative

Login #: 67443

Canton Facility

Client Tetra Tech Site Name _____
Cooler Received on 7-21-16 Opened on 7-21-16
FedEx: 1st Grd UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by: Ryan Henderson

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 See Multiple Cooler Form
 IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN#36 (CF +1.0°C) Observed Cooler Temp. 1.6 °C Corrected Cooler Temp. 2.0 °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. Are these work share samples? Yes No
 If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HCS74756
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # not labelled 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): _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
SWMW-4I-072016	240-67443-I-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
SWMW-3I-072016	240-67443-F-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
BLOCK G OUTFALL-072016	240-67443-F-5	Plastic 250ml - with Nitric Acid	<2	_____	_____

ANALYTICAL REPORT

Job Number: 240-61965-1

Job Description: MRC Block I GW Remedy

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
3/24/2016 3:55 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
03/24/2016

cc: Tony Apanavage
Samantha Brenner
Mike Martin
Tobrena Sedlmyer
Final Data Tracking

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.

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.
B	Compound was found in the blank and sample.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MRC Block I GW Remedy

Report Number: 240-61965-1

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.

The DHC analysis: Dehalococcoides, tceA Reductase, BAV1 Vinyl Chloride Reductase, Vinyl Chloride Reductase and Dehalobacter spp. analyses were performed at Microbial Insights, Inc Knoxville.

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 3/10/2016 11:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TB-030916 (240-61965-1), MW-81B-030916 (240-61965-2), NMW-11-030916 (240-61965-3), NMW-2I-030916 (240-61965-4), NMW-2S-030916 (240-61965-5) and NMW-3I-030916 (240-61965-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 03/14/2016 and 03/15/2016.

Methylene Chloride was detected in method blank MB 240-221416/32 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.

Methylene Chloride was detected in method blank MB 240-221626/6 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.

Samples MW-81B-030916 (240-61965-2)[2.5X], NMW-11-030916 (240-61965-3)[50X], NMW-2I-030916 (240-61965-4)[333.33X], NMW-2S-030916 (240-61965-5)[33.33X] and NMW-3I-030916 (240-61965-6)[25X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The continuing calibration verification (CCV) for analytical batch 221416 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-030916 (240-61965-1), NMW-11-030916 (240-61965-3), NMW-2I-030916 (240-61965-4), NMW-2S-030916 (240-61965-5), NMW-3I-030916 (240-61965-6) and (LCS 240-221416/5).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 221626.

The continuing calibration verification (CCV) for analytical batch 221626 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: MW-81B-030916 (240-61965-2).

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

DISSOLVED GASES

Samples NMW-1I-030916 (240-61965-3) and NMW-3I-030916 (240-61965-6) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 03/15/2016 and 03/16/2016.

Sample NMW-3I-030916 (240-61965-6)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 240-221825 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Methane only. Non client specific MS/MSD. Data qualified and reported.

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

TOTAL RECOVERABLE METALS (ICP)

Samples NMW-1I-030916 (240-61965-3) and NMW-3I-030916 (240-61965-6) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/14/2016 and analyzed on 03/15/2016.

Iron and Manganese were detected in method blank MB 240-221419/1-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.

ALKALINITY

Samples NMW-1I-030916 (240-61965-3) and NMW-3I-030916 (240-61965-6) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 03/15/2016.

Alkalinity was detected in method blank MB 240-221645/2 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 DISSOLVED SOLIDS

Samples NMW-1I-030916 (240-61965-3) and NMW-3I-030916 (240-61965-6) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 03/11/2016.

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

ANIONS

Samples NMW-1I-030916 (240-61965-3) and NMW-3I-030916 (240-61965-6) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 03/11/2016 and 03/15/2016.

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

TOTAL ORGANIC CARBON

Samples MW-81B-030916 (240-61965-2), NMW-1I-030916 (240-61965-3), NMW-2I-030916 (240-61965-4), NMW-2S-030916 (240-61965-5) and NMW-3I-030916 (240-61965-6) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 03/11/2016.

Sample MW-81B-030916 (240-61965-2)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: TB-030916

Lab Sample ID: 240-61965-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.47	J	1.0	0.44	ug/L	1		8260C	Total/NA

Client Sample ID: MW-81B-030916

Lab Sample ID: 240-61965-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.60	J	2.5	0.58	ug/L	2.5		8260C	Total/NA
2-Butanone (MEK)	4.8	J	25	1.3	ug/L	2.5		8260C	Total/NA
Acetone	13	J	25	2.4	ug/L	2.5		8260C	Total/NA
Benzene	2.4	J	2.5	0.88	ug/L	2.5		8260C	Total/NA
Chloroethane	21		2.5	0.80	ug/L	2.5		8260C	Total/NA
cis-1,2-Dichloroethene	46		2.5	0.65	ug/L	2.5		8260C	Total/NA
Methylene Chloride	1.0	J B	2.5	0.83	ug/L	2.5		8260C	Total/NA
trans-1,2-Dichloroethene	11		2.5	0.75	ug/L	2.5		8260C	Total/NA
Trichloroethene	4.4		2.5	0.55	ug/L	2.5		8260C	Total/NA
Vinyl chloride	48		2.5	0.73	ug/L	2.5		8260C	Total/NA
Xylenes, Total	2.0	J	5.0	1.3	ug/L	2.5		8260C	Total/NA
TOC Result 1	8.6		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 2	8.5		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 3	8.6		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 4	8.5		2.0	0.16	mg/L	2		9060A	Total/NA
Total Organic Carbon	8.5		2.0	0.16	mg/L	2		9060A	Total/NA

Client Sample ID: NMW-11-030916

Lab Sample ID: 240-61965-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	31	J	50	23	ug/L	50		8260C	Total/NA
cis-1,2-Dichloroethene	1100		50	13	ug/L	50		8260C	Total/NA
Methylene Chloride	32	J B	50	17	ug/L	50		8260C	Total/NA
Trichloroethene	71		50	11	ug/L	50		8260C	Total/NA
Vinyl chloride	42	J	50	15	ug/L	50		8260C	Total/NA
Ethene	2.5		0.50	0.13	ug/L	1		RSK-175	Total/NA
Ethane	0.28	J	0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	1100		0.50	0.080	ug/L	1		RSK-175	Total/NA
Iron	52000	B	200	13	ug/L	1		6010C	Total Recoverable
Manganese	12000	B	15	0.46	ug/L	1		6010C	Total Recoverable
Alkalinity	130	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	86		1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	2.7		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	2.0		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	2.6		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	2.1		1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	2.3		1.0	0.080	mg/L	1		9060A	Total/NA
Total Dissolved Solids	410		10	7.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: NMW-21-030916

Lab Sample ID: 240-61965-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6500		330	87	ug/L	333.33		8260C	Total/NA
Methylene Chloride	230	J B	330	110	ug/L	333.33		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: NMW-2I-030916 (Continued)

Lab Sample ID: 240-61965-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2300		330	73	ug/L	333.33		8260C	Total/NA
Vinyl chloride	530		330	97	ug/L	333.33		8260C	Total/NA
TOC Result 1	1.2		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	1.3		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	1.2		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	1.3		1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	1.2		1.0	0.080	mg/L	1		9060A	Total/NA

Client Sample ID: NMW-2S-030916

Lab Sample ID: 240-61965-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	930		33	8.7	ug/L	33.33		8260C	Total/NA
Methylene Chloride	23	J B	33	11	ug/L	33.33		8260C	Total/NA
Trichloroethene	140		33	7.3	ug/L	33.33		8260C	Total/NA
Vinyl chloride	210		33	9.7	ug/L	33.33		8260C	Total/NA
TOC Result 1	5.9		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	4.4		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	5.4		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	4.3		1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	5.0		1.0	0.080	mg/L	1		9060A	Total/NA

Client Sample ID: NMW-3I-030916

Lab Sample ID: 240-61965-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	620		25	6.5	ug/L	25		8260C	Total/NA
Methylene Chloride	16	J B	25	8.3	ug/L	25		8260C	Total/NA
trans-1,2-Dichloroethene	18	J	25	7.5	ug/L	25		8260C	Total/NA
Trichloroethene	18	J	25	5.5	ug/L	25		8260C	Total/NA
Vinyl chloride	220		25	7.3	ug/L	25		8260C	Total/NA
Ethene	83		0.50	0.13	ug/L	1		RSK-175	Total/NA
Ethane	79		0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	12000		5.0	0.80	ug/L	10		RSK-175	Total/NA
Iron	140000	B	200	13	ug/L	1		6010C	Total Recoverable
Manganese	5600	B	15	0.46	ug/L	1		6010C	Total Recoverable
Alkalinity	130	B	5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	1.9		1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	5.2		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	4.0		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	5.1		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	4.1		1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	4.6		1.0	0.080	mg/L	1		9060A	Total/NA
Total Dissolved Solids	610		10	7.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: TB-030916

Lab Sample ID: 240-61965-1

Date Collected: 03/09/16 00:00

Matrix: Water

Date Received: 03/10/16 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			03/14/16 15:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			03/14/16 15:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			03/14/16 15:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/14/16 15:04	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			03/14/16 15:04	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			03/14/16 15:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			03/14/16 15:04	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			03/14/16 15:04	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			03/14/16 15:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/14/16 15:04	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			03/14/16 15:04	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			03/14/16 15:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			03/14/16 15:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			03/14/16 15:04	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			03/14/16 15:04	1
2-Hexanone	10	U	10	0.48	ug/L			03/14/16 15:04	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			03/14/16 15:04	1
Acetone	10	U	10	0.94	ug/L			03/14/16 15:04	1
Benzene	1.0	U	1.0	0.35	ug/L			03/14/16 15:04	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			03/14/16 15:04	1
Bromoform	1.0	U	1.0	0.56	ug/L			03/14/16 15:04	1
Bromomethane	1.0	U	1.0	0.44	ug/L			03/14/16 15:04	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			03/14/16 15:04	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			03/14/16 15:04	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/14/16 15:04	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/14/16 15:04	1
Chloroform	1.0	U	1.0	0.25	ug/L			03/14/16 15:04	1
Chloromethane	0.47	J	1.0	0.44	ug/L			03/14/16 15:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			03/14/16 15:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			03/14/16 15:04	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			03/14/16 15:04	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			03/14/16 15:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			03/14/16 15:04	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			03/14/16 15:04	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			03/14/16 15:04	1
Methyl acetate	10	U	10	2.3	ug/L			03/14/16 15:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			03/14/16 15:04	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			03/14/16 15:04	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			03/14/16 15:04	1
Styrene	1.0	U	1.0	0.45	ug/L			03/14/16 15:04	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			03/14/16 15:04	1
Toluene	1.0	U	1.0	0.23	ug/L			03/14/16 15:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/14/16 15:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			03/14/16 15:04	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			03/14/16 15:04	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			03/14/16 15:04	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			03/14/16 15:04	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			03/14/16 15:04	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: TB-030916

Lab Sample ID: 240-61965-1

Date Collected: 03/09/16 00:00

Matrix: Water

Date Received: 03/10/16 11:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		03/14/16 15:04	1
Dibromofluoromethane (Surr)	103		79 - 120		03/14/16 15:04	1
4-Bromofluorobenzene (Surr)	101		61 - 120		03/14/16 15:04	1
1,2-Dichloroethane-d4 (Surr)	106		78 - 125		03/14/16 15:04	1

Client Sample ID: MW-81B-030916

Lab Sample ID: 240-61965-2

Date Collected: 03/09/16 09:20

Matrix: Water

Date Received: 03/10/16 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.5	U	2.5	1.1	ug/L			03/15/16 11:55	2.5
1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.55	ug/L			03/15/16 11:55	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U	2.5	1.1	ug/L			03/15/16 11:55	2.5
1,1,2-Trichloroethane	2.5	U	2.5	0.60	ug/L			03/15/16 11:55	2.5
1,1-Dichloroethane	2.5	U	2.5	0.75	ug/L			03/15/16 11:55	2.5
1,1-Dichloroethene	2.5	U	2.5	1.1	ug/L			03/15/16 11:55	2.5
1,2,4-Trichlorobenzene	2.5	U	2.5	0.80	ug/L			03/15/16 11:55	2.5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.1	ug/L			03/15/16 11:55	2.5
Ethylene Dibromide	2.5	U	2.5	0.80	ug/L			03/15/16 11:55	2.5
1,2-Dichlorobenzene	2.5	U	2.5	0.63	ug/L			03/15/16 11:55	2.5
1,2-Dichloroethane	0.60	J	2.5	0.58	ug/L			03/15/16 11:55	2.5
1,2-Dichloropropane	2.5	U	2.5	0.63	ug/L			03/15/16 11:55	2.5
1,3-Dichlorobenzene	2.5	U	2.5	0.48	ug/L			03/15/16 11:55	2.5
1,4-Dichlorobenzene	2.5	U	2.5	0.68	ug/L			03/15/16 11:55	2.5
2-Butanone (MEK)	4.8	J	25	1.3	ug/L			03/15/16 11:55	2.5
2-Hexanone	25	U	25	1.2	ug/L			03/15/16 11:55	2.5
4-Methyl-2-pentanone (MIBK)	25	U	25	2.5	ug/L			03/15/16 11:55	2.5
Acetone	13	J	25	2.4	ug/L			03/15/16 11:55	2.5
Benzene	2.4	J	2.5	0.88	ug/L			03/15/16 11:55	2.5
Dichlorobromomethane	2.5	U	2.5	0.73	ug/L			03/15/16 11:55	2.5
Bromoform	2.5	U	2.5	1.4	ug/L			03/15/16 11:55	2.5
Bromomethane	2.5	U	2.5	1.1	ug/L			03/15/16 11:55	2.5
Carbon disulfide	2.5	U	2.5	0.95	ug/L			03/15/16 11:55	2.5
Carbon tetrachloride	2.5	U	2.5	1.1	ug/L			03/15/16 11:55	2.5
Chlorobenzene	2.5	U	2.5	0.63	ug/L			03/15/16 11:55	2.5
Chloroethane	21		2.5	0.80	ug/L			03/15/16 11:55	2.5
Chloroform	2.5	U	2.5	0.63	ug/L			03/15/16 11:55	2.5
Chloromethane	2.5	U	2.5	1.1	ug/L			03/15/16 11:55	2.5
cis-1,2-Dichloroethene	46		2.5	0.65	ug/L			03/15/16 11:55	2.5
cis-1,3-Dichloropropene	2.5	U	2.5	1.2	ug/L			03/15/16 11:55	2.5
Cyclohexane	2.5	U	2.5	1.1	ug/L			03/15/16 11:55	2.5
Chlorodibromomethane	2.5	U	2.5	1.1	ug/L			03/15/16 11:55	2.5
Dichlorodifluoromethane	2.5	U	2.5	0.80	ug/L			03/15/16 11:55	2.5
Ethylbenzene	2.5	U	2.5	0.63	ug/L			03/15/16 11:55	2.5
Isopropylbenzene	2.5	U	2.5	0.88	ug/L			03/15/16 11:55	2.5
Methyl acetate	25	U	25	5.7	ug/L			03/15/16 11:55	2.5
Methyl tert-butyl ether	2.5	U	2.5	0.50	ug/L			03/15/16 11:55	2.5
Methylcyclohexane	2.5	U	2.5	1.1	ug/L			03/15/16 11:55	2.5
Methylene Chloride	1.0	J B	2.5	0.83	ug/L			03/15/16 11:55	2.5

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: MW-81B-030916

Lab Sample ID: 240-61965-2

Date Collected: 03/09/16 09:20

Matrix: Water

Date Received: 03/10/16 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	2.5	U	2.5	1.1	ug/L			03/15/16 11:55	2.5
Tetrachloroethene	2.5	U	2.5	0.78	ug/L			03/15/16 11:55	2.5
Toluene	2.5	U	2.5	0.58	ug/L			03/15/16 11:55	2.5
trans-1,2-Dichloroethene	11		2.5	0.75	ug/L			03/15/16 11:55	2.5
trans-1,3-Dichloropropene	2.5	U	2.5	1.4	ug/L			03/15/16 11:55	2.5
Trichloroethene	4.4		2.5	0.55	ug/L			03/15/16 11:55	2.5
Trichlorofluoromethane	2.5	U	2.5	1.2	ug/L			03/15/16 11:55	2.5
Vinyl chloride	48		2.5	0.73	ug/L			03/15/16 11:55	2.5
Xylenes, Total	2.0	J	5.0	1.3	ug/L			03/15/16 11:55	2.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		03/15/16 11:55	2.5
Dibromofluoromethane (Surr)	93		79 - 120		03/15/16 11:55	2.5
4-Bromofluorobenzene (Surr)	97		61 - 120		03/15/16 11:55	2.5
1,2-Dichloroethane-d4 (Surr)	90		78 - 125		03/15/16 11:55	2.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	8.6		2.0	0.16	mg/L			03/11/16 09:25	2
TOC Result 2	8.5		2.0	0.16	mg/L			03/11/16 09:25	2
TOC Result 3	8.6		2.0	0.16	mg/L			03/11/16 09:25	2
TOC Result 4	8.5		2.0	0.16	mg/L			03/11/16 09:25	2
Total Organic Carbon	8.5		2.0	0.16	mg/L			03/11/16 09:25	2

Client Sample ID: NMW-1I-030916

Lab Sample ID: 240-61965-3

Date Collected: 03/09/16 10:15

Matrix: Water

Date Received: 03/10/16 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	50	U	50	22	ug/L			03/14/16 15:50	50
1,1,2,2-Tetrachloroethane	50	U	50	11	ug/L			03/14/16 15:50	50
1,1,2-Trichloro-1,2,2-trifluoroethane	50	U	50	23	ug/L			03/14/16 15:50	50
1,1,2-Trichloroethane	50	U	50	12	ug/L			03/14/16 15:50	50
1,1-Dichloroethane	50	U	50	15	ug/L			03/14/16 15:50	50
1,1-Dichloroethene	31	J	50	23	ug/L			03/14/16 15:50	50
1,2,4-Trichlorobenzene	50	U	50	16	ug/L			03/14/16 15:50	50
1,2-Dibromo-3-Chloropropane	100	U	100	41	ug/L			03/14/16 15:50	50
Ethylene Dibromide	50	U	50	16	ug/L			03/14/16 15:50	50
1,2-Dichlorobenzene	50	U	50	13	ug/L			03/14/16 15:50	50
1,2-Dichloroethane	50	U	50	12	ug/L			03/14/16 15:50	50
1,2-Dichloropropane	50	U	50	13	ug/L			03/14/16 15:50	50
1,3-Dichlorobenzene	50	U	50	9.5	ug/L			03/14/16 15:50	50
1,4-Dichlorobenzene	50	U	50	14	ug/L			03/14/16 15:50	50
2-Butanone (MEK)	500	U	500	27	ug/L			03/14/16 15:50	50
2-Hexanone	500	U	500	24	ug/L			03/14/16 15:50	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			03/14/16 15:50	50
Acetone	500	U	500	47	ug/L			03/14/16 15:50	50
Benzene	50	U	50	18	ug/L			03/14/16 15:50	50
Dichlorobromomethane	50	U	50	15	ug/L			03/14/16 15:50	50

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: NMW-11-030916

Lab Sample ID: 240-61965-3

Date Collected: 03/09/16 10:15

Matrix: Water

Date Received: 03/10/16 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	50	U	50	28	ug/L			03/14/16 15:50	50
Bromomethane	50	U	50	22	ug/L			03/14/16 15:50	50
Carbon disulfide	50	U	50	19	ug/L			03/14/16 15:50	50
Carbon tetrachloride	50	U	50	22	ug/L			03/14/16 15:50	50
Chlorobenzene	50	U	50	13	ug/L			03/14/16 15:50	50
Chloroethane	50	U	50	16	ug/L			03/14/16 15:50	50
Chloroform	50	U	50	13	ug/L			03/14/16 15:50	50
Chloromethane	50	U	50	22	ug/L			03/14/16 15:50	50
cis-1,2-Dichloroethene	1100		50	13	ug/L			03/14/16 15:50	50
cis-1,3-Dichloropropene	50	U	50	23	ug/L			03/14/16 15:50	50
Cyclohexane	50	U	50	23	ug/L			03/14/16 15:50	50
Chlorodibromomethane	50	U	50	22	ug/L			03/14/16 15:50	50
Dichlorodifluoromethane	50	U	50	16	ug/L			03/14/16 15:50	50
Ethylbenzene	50	U	50	13	ug/L			03/14/16 15:50	50
Isopropylbenzene	50	U	50	18	ug/L			03/14/16 15:50	50
Methyl acetate	500	U	500	110	ug/L			03/14/16 15:50	50
Methyl tert-butyl ether	50	U	50	10	ug/L			03/14/16 15:50	50
Methylcyclohexane	50	U	50	22	ug/L			03/14/16 15:50	50
Methylene Chloride	32	J B	50	17	ug/L			03/14/16 15:50	50
Styrene	50	U	50	23	ug/L			03/14/16 15:50	50
Tetrachloroethene	50	U	50	16	ug/L			03/14/16 15:50	50
Toluene	50	U	50	12	ug/L			03/14/16 15:50	50
trans-1,2-Dichloroethene	50	U	50	15	ug/L			03/14/16 15:50	50
trans-1,3-Dichloropropene	50	U	50	28	ug/L			03/14/16 15:50	50
Trichloroethene	71		50	11	ug/L			03/14/16 15:50	50
Trichlorofluoromethane	50	U	50	25	ug/L			03/14/16 15:50	50
Vinyl chloride	42	J	50	15	ug/L			03/14/16 15:50	50
Xylenes, Total	100	U	100	26	ug/L			03/14/16 15:50	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	101		80 - 120		03/14/16 15:50	50
<i>Dibromofluoromethane (Surr)</i>	102		79 - 120		03/14/16 15:50	50
<i>4-Bromofluorobenzene (Surr)</i>	103		61 - 120		03/14/16 15:50	50
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		78 - 125		03/14/16 15:50	50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	2.5		0.50	0.13	ug/L			03/15/16 11:33	1
Ethane	0.28	J	0.50	0.14	ug/L			03/15/16 11:33	1
Methane	1100		0.50	0.080	ug/L			03/15/16 11:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,1,1-Trifluoroethane</i>	109		66 - 132		03/15/16 11:33	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	52000	B	200	13	ug/L		03/14/16 10:23	03/15/16 20:26	1
Manganese	12000	B	15	0.46	ug/L		03/14/16 10:23	03/15/16 20:26	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: NMW-11-030916

Lab Sample ID: 240-61965-3

Date Collected: 03/09/16 10:15

Matrix: Water

Date Received: 03/10/16 11:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	130	B	5.0	1.9	mg/L			03/15/16 12:54	1
Sulfate	86		1.0	0.13	mg/L			03/11/16 19:42	1
TOC Result 1	2.7		1.0	0.080	mg/L			03/11/16 08:43	1
TOC Result 2	2.0		1.0	0.080	mg/L			03/11/16 08:43	1
TOC Result 3	2.6		1.0	0.080	mg/L			03/11/16 08:43	1
TOC Result 4	2.1		1.0	0.080	mg/L			03/11/16 08:43	1
Total Organic Carbon	2.3		1.0	0.080	mg/L			03/11/16 08:43	1
Total Dissolved Solids	410		10	7.4	mg/L			03/11/16 09:56	1

Client Sample ID: NMW-21-030916

Lab Sample ID: 240-61965-4

Date Collected: 03/09/16 12:35

Matrix: Water

Date Received: 03/10/16 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	330	U	330	150	ug/L			03/14/16 16:12	333.33
1,1,2,2-Tetrachloroethane	330	U	330	73	ug/L			03/14/16 16:12	333.33
1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	150	ug/L			03/14/16 16:12	333.33
1,1,2-Trichloroethane	330	U	330	80	ug/L			03/14/16 16:12	333.33
1,1-Dichloroethane	330	U	330	100	ug/L			03/14/16 16:12	333.33
1,1-Dichloroethene	330	U	330	150	ug/L			03/14/16 16:12	333.33
1,2,4-Trichlorobenzene	330	U	330	110	ug/L			03/14/16 16:12	333.33
1,2-Dibromo-3-Chloropropane	670	U	670	270	ug/L			03/14/16 16:12	333.33
Ethylene Dibromide	330	U	330	110	ug/L			03/14/16 16:12	333.33
1,2-Dichlorobenzene	330	U	330	83	ug/L			03/14/16 16:12	333.33
1,2-Dichloroethane	330	U	330	77	ug/L			03/14/16 16:12	333.33
1,2-Dichloropropane	330	U	330	83	ug/L			03/14/16 16:12	333.33
1,3-Dichlorobenzene	330	U	330	63	ug/L			03/14/16 16:12	333.33
1,4-Dichlorobenzene	330	U	330	90	ug/L			03/14/16 16:12	333.33
2-Butanone (MEK)	3300	U	3300	180	ug/L			03/14/16 16:12	333.33
2-Hexanone	3300	U	3300	160	ug/L			03/14/16 16:12	333.33
4-Methyl-2-pentanone (MIBK)	3300	U	3300	330	ug/L			03/14/16 16:12	333.33
Acetone	3300	U	3300	310	ug/L			03/14/16 16:12	333.33
Benzene	330	U	330	120	ug/L			03/14/16 16:12	333.33
Dichlorobromomethane	330	U	330	97	ug/L			03/14/16 16:12	333.33
Bromoform	330	U	330	190	ug/L			03/14/16 16:12	333.33
Bromomethane	330	U	330	150	ug/L			03/14/16 16:12	333.33
Carbon disulfide	330	U	330	130	ug/L			03/14/16 16:12	333.33
Carbon tetrachloride	330	U	330	140	ug/L			03/14/16 16:12	333.33
Chlorobenzene	330	U	330	83	ug/L			03/14/16 16:12	333.33
Chloroethane	330	U	330	110	ug/L			03/14/16 16:12	333.33
Chloroform	330	U	330	83	ug/L			03/14/16 16:12	333.33
Chloromethane	330	U	330	150	ug/L			03/14/16 16:12	333.33
cis-1,2-Dichloroethene	6500		330	87	ug/L			03/14/16 16:12	333.33
cis-1,3-Dichloropropene	330	U	330	150	ug/L			03/14/16 16:12	333.33
Cyclohexane	330	U	330	150	ug/L			03/14/16 16:12	333.33
Chlorodibromomethane	330	U	330	140	ug/L			03/14/16 16:12	333.33
Dichlorodifluoromethane	330	U	330	110	ug/L			03/14/16 16:12	333.33
Ethylbenzene	330	U	330	83	ug/L			03/14/16 16:12	333.33
Isopropylbenzene	330	U	330	120	ug/L			03/14/16 16:12	333.33

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: NMW-2I-030916

Lab Sample ID: 240-61965-4

Date Collected: 03/09/16 12:35

Matrix: Water

Date Received: 03/10/16 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	3300	U	3300	760	ug/L			03/14/16 16:12	333.33
Methyl tert-butyl ether	330	U	330	67	ug/L			03/14/16 16:12	333.33
Methylcyclohexane	330	U	330	140	ug/L			03/14/16 16:12	333.33
Methylene Chloride	230	J B	330	110	ug/L			03/14/16 16:12	333.33
Styrene	330	U	330	150	ug/L			03/14/16 16:12	333.33
Tetrachloroethene	330	U	330	100	ug/L			03/14/16 16:12	333.33
Toluene	330	U	330	77	ug/L			03/14/16 16:12	333.33
trans-1,2-Dichloroethene	330	U	330	100	ug/L			03/14/16 16:12	333.33
trans-1,3-Dichloropropene	330	U	330	190	ug/L			03/14/16 16:12	333.33
Trichloroethene	2300		330	73	ug/L			03/14/16 16:12	333.33
Trichlorofluoromethane	330	U	330	160	ug/L			03/14/16 16:12	333.33
Vinyl chloride	530		330	97	ug/L			03/14/16 16:12	333.33
Xylenes, Total	670	U	670	170	ug/L			03/14/16 16:12	333.33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	99		80 - 120		03/14/16 16:12	333.33
<i>Dibromofluoromethane (Surr)</i>	101		79 - 120		03/14/16 16:12	333.33
<i>4-Bromofluorobenzene (Surr)</i>	104		61 - 120		03/14/16 16:12	333.33
<i>1,2-Dichloroethane-d4 (Surr)</i>	106		78 - 125		03/14/16 16:12	333.33

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.2		1.0	0.080	mg/L			03/11/16 09:51	1
TOC Result 2	1.3		1.0	0.080	mg/L			03/11/16 09:51	1
TOC Result 3	1.2		1.0	0.080	mg/L			03/11/16 09:51	1
TOC Result 4	1.3		1.0	0.080	mg/L			03/11/16 09:51	1
Total Organic Carbon	1.2		1.0	0.080	mg/L			03/11/16 09:51	1

Client Sample ID: NMW-2S-030916

Lab Sample ID: 240-61965-5

Date Collected: 03/09/16 12:45

Matrix: Water

Date Received: 03/10/16 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	33	U	33	15	ug/L			03/14/16 16:35	33.33
1,1,1,2-Tetrachloroethane	33	U	33	7.3	ug/L			03/14/16 16:35	33.33
1,1,2-Trichloro-1,2,2-trifluoroethane	33	U	33	15	ug/L			03/14/16 16:35	33.33
1,1,2-Trichloroethane	33	U	33	8.0	ug/L			03/14/16 16:35	33.33
1,1-Dichloroethane	33	U	33	10	ug/L			03/14/16 16:35	33.33
1,1-Dichloroethene	33	U	33	15	ug/L			03/14/16 16:35	33.33
1,2,4-Trichlorobenzene	33	U	33	11	ug/L			03/14/16 16:35	33.33
1,2-Dibromo-3-Chloropropane	67	U	67	27	ug/L			03/14/16 16:35	33.33
Ethylene Dibromide	33	U	33	11	ug/L			03/14/16 16:35	33.33
1,2-Dichlorobenzene	33	U	33	8.3	ug/L			03/14/16 16:35	33.33
1,2-Dichloroethane	33	U	33	7.7	ug/L			03/14/16 16:35	33.33
1,2-Dichloropropane	33	U	33	8.3	ug/L			03/14/16 16:35	33.33
1,3-Dichlorobenzene	33	U	33	6.3	ug/L			03/14/16 16:35	33.33
1,4-Dichlorobenzene	33	U	33	9.0	ug/L			03/14/16 16:35	33.33
2-Butanone (MEK)	330	U	330	18	ug/L			03/14/16 16:35	33.33
2-Hexanone	330	U	330	16	ug/L			03/14/16 16:35	33.33

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: NMW-2S-030916

Lab Sample ID: 240-61965-5

Date Collected: 03/09/16 12:45

Matrix: Water

Date Received: 03/10/16 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	330	U	330	33	ug/L			03/14/16 16:35	33.33
Acetone	330	U	330	31	ug/L			03/14/16 16:35	33.33
Benzene	33	U	33	12	ug/L			03/14/16 16:35	33.33
Dichlorobromomethane	33	U	33	9.7	ug/L			03/14/16 16:35	33.33
Bromoform	33	U	33	19	ug/L			03/14/16 16:35	33.33
Bromomethane	33	U	33	15	ug/L			03/14/16 16:35	33.33
Carbon disulfide	33	U	33	13	ug/L			03/14/16 16:35	33.33
Carbon tetrachloride	33	U	33	14	ug/L			03/14/16 16:35	33.33
Chlorobenzene	33	U	33	8.3	ug/L			03/14/16 16:35	33.33
Chloroethane	33	U	33	11	ug/L			03/14/16 16:35	33.33
Chloroform	33	U	33	8.3	ug/L			03/14/16 16:35	33.33
Chloromethane	33	U	33	15	ug/L			03/14/16 16:35	33.33
cis-1,2-Dichloroethene	930		33	8.7	ug/L			03/14/16 16:35	33.33
cis-1,3-Dichloropropene	33	U	33	15	ug/L			03/14/16 16:35	33.33
Cyclohexane	33	U	33	15	ug/L			03/14/16 16:35	33.33
Chlorodibromomethane	33	U	33	14	ug/L			03/14/16 16:35	33.33
Dichlorodifluoromethane	33	U	33	11	ug/L			03/14/16 16:35	33.33
Ethylbenzene	33	U	33	8.3	ug/L			03/14/16 16:35	33.33
Isopropylbenzene	33	U	33	12	ug/L			03/14/16 16:35	33.33
Methyl acetate	330	U	330	76	ug/L			03/14/16 16:35	33.33
Methyl tert-butyl ether	33	U	33	6.7	ug/L			03/14/16 16:35	33.33
Methylcyclohexane	33	U	33	14	ug/L			03/14/16 16:35	33.33
Methylene Chloride	23	J B	33	11	ug/L			03/14/16 16:35	33.33
Styrene	33	U	33	15	ug/L			03/14/16 16:35	33.33
Tetrachloroethene	33	U	33	10	ug/L			03/14/16 16:35	33.33
Toluene	33	U	33	7.7	ug/L			03/14/16 16:35	33.33
trans-1,2-Dichloroethene	33	U	33	10	ug/L			03/14/16 16:35	33.33
trans-1,3-Dichloropropene	33	U	33	19	ug/L			03/14/16 16:35	33.33
Trichloroethene	140		33	7.3	ug/L			03/14/16 16:35	33.33
Trichlorofluoromethane	33	U	33	16	ug/L			03/14/16 16:35	33.33
Vinyl chloride	210		33	9.7	ug/L			03/14/16 16:35	33.33
Xylenes, Total	67	U	67	17	ug/L			03/14/16 16:35	33.33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	102		80 - 120		03/14/16 16:35	33.33
<i>Dibromofluoromethane (Surr)</i>	100		79 - 120		03/14/16 16:35	33.33
<i>4-Bromofluorobenzene (Surr)</i>	103		61 - 120		03/14/16 16:35	33.33
<i>1,2-Dichloroethane-d4 (Surr)</i>	106		78 - 125		03/14/16 16:35	33.33

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	5.9		1.0	0.080	mg/L			03/11/16 10:17	1
TOC Result 2	4.4		1.0	0.080	mg/L			03/11/16 10:17	1
TOC Result 3	5.4		1.0	0.080	mg/L			03/11/16 10:17	1
TOC Result 4	4.3		1.0	0.080	mg/L			03/11/16 10:17	1
Total Organic Carbon	5.0		1.0	0.080	mg/L			03/11/16 10:17	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: NMW-3I-030916

Lab Sample ID: 240-61965-6

Date Collected: 03/09/16 13:40

Matrix: Water

Date Received: 03/10/16 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	25	U	25	11	ug/L			03/14/16 16:58	25
1,1,2,2-Tetrachloroethane	25	U	25	5.5	ug/L			03/14/16 16:58	25
1,1,2-Trichloro-1,2,2-trifluoroethane	25	U	25	11	ug/L			03/14/16 16:58	25
1,1,2-Trichloroethane	25	U	25	6.0	ug/L			03/14/16 16:58	25
1,1-Dichloroethane	25	U	25	7.5	ug/L			03/14/16 16:58	25
1,1-Dichloroethene	25	U	25	11	ug/L			03/14/16 16:58	25
1,2,4-Trichlorobenzene	25	U	25	8.0	ug/L			03/14/16 16:58	25
1,2-Dibromo-3-Chloropropane	50	U	50	21	ug/L			03/14/16 16:58	25
Ethylene Dibromide	25	U	25	8.0	ug/L			03/14/16 16:58	25
1,2-Dichlorobenzene	25	U	25	6.3	ug/L			03/14/16 16:58	25
1,2-Dichloroethane	25	U	25	5.8	ug/L			03/14/16 16:58	25
1,2-Dichloropropane	25	U	25	6.3	ug/L			03/14/16 16:58	25
1,3-Dichlorobenzene	25	U	25	4.8	ug/L			03/14/16 16:58	25
1,4-Dichlorobenzene	25	U	25	6.8	ug/L			03/14/16 16:58	25
2-Butanone (MEK)	250	U	250	13	ug/L			03/14/16 16:58	25
2-Hexanone	250	U	250	12	ug/L			03/14/16 16:58	25
4-Methyl-2-pentanone (MIBK)	250	U	250	25	ug/L			03/14/16 16:58	25
Acetone	250	U	250	24	ug/L			03/14/16 16:58	25
Benzene	25	U	25	8.8	ug/L			03/14/16 16:58	25
Dichlorobromomethane	25	U	25	7.3	ug/L			03/14/16 16:58	25
Bromoform	25	U	25	14	ug/L			03/14/16 16:58	25
Bromomethane	25	U	25	11	ug/L			03/14/16 16:58	25
Carbon disulfide	25	U	25	9.5	ug/L			03/14/16 16:58	25
Carbon tetrachloride	25	U	25	11	ug/L			03/14/16 16:58	25
Chlorobenzene	25	U	25	6.3	ug/L			03/14/16 16:58	25
Chloroethane	25	U	25	8.0	ug/L			03/14/16 16:58	25
Chloroform	25	U	25	6.3	ug/L			03/14/16 16:58	25
Chloromethane	25	U	25	11	ug/L			03/14/16 16:58	25
cis-1,2-Dichloroethene	620		25	6.5	ug/L			03/14/16 16:58	25
cis-1,3-Dichloropropene	25	U	25	12	ug/L			03/14/16 16:58	25
Cyclohexane	25	U	25	11	ug/L			03/14/16 16:58	25
Chlorodibromomethane	25	U	25	11	ug/L			03/14/16 16:58	25
Dichlorodifluoromethane	25	U	25	8.0	ug/L			03/14/16 16:58	25
Ethylbenzene	25	U	25	6.3	ug/L			03/14/16 16:58	25
Isopropylbenzene	25	U	25	8.8	ug/L			03/14/16 16:58	25
Methyl acetate	250	U	250	57	ug/L			03/14/16 16:58	25
Methyl tert-butyl ether	25	U	25	5.0	ug/L			03/14/16 16:58	25
Methylcyclohexane	25	U	25	11	ug/L			03/14/16 16:58	25
Methylene Chloride	16	J B	25	8.3	ug/L			03/14/16 16:58	25
Styrene	25	U	25	11	ug/L			03/14/16 16:58	25
Tetrachloroethene	25	U	25	7.8	ug/L			03/14/16 16:58	25
Toluene	25	U	25	5.8	ug/L			03/14/16 16:58	25
trans-1,2-Dichloroethene	18	J	25	7.5	ug/L			03/14/16 16:58	25
trans-1,3-Dichloropropene	25	U	25	14	ug/L			03/14/16 16:58	25
Trichloroethene	18	J	25	5.5	ug/L			03/14/16 16:58	25
Trichlorofluoromethane	25	U	25	12	ug/L			03/14/16 16:58	25
Vinyl chloride	220		25	7.3	ug/L			03/14/16 16:58	25
Xylenes, Total	50	U	50	13	ug/L			03/14/16 16:58	25

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: NMW-3I-030916

Lab Sample ID: 240-61965-6

Date Collected: 03/09/16 13:40

Matrix: Water

Date Received: 03/10/16 11:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		03/14/16 16:58	25
Dibromofluoromethane (Surr)	100		79 - 120		03/14/16 16:58	25
4-Bromofluorobenzene (Surr)	101		61 - 120		03/14/16 16:58	25
1,2-Dichloroethane-d4 (Surr)	106		78 - 125		03/14/16 16:58	25

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	83		0.50	0.13	ug/L			03/15/16 11:50	1
Ethane	79		0.50	0.14	ug/L			03/15/16 11:50	1
Methane	12000		5.0	0.80	ug/L			03/16/16 17:43	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	103		66 - 132		03/15/16 11:50	1
1,1,1-Trifluoroethane	96		66 - 132		03/16/16 17:43	10

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	140000	B	200	13	ug/L		03/14/16 10:23	03/15/16 20:31	1
Manganese	5600	B	15	0.46	ug/L		03/14/16 10:23	03/15/16 20:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	130	B	5.0	1.9	mg/L			03/15/16 12:56	1
Sulfate	1.9		1.0	0.13	mg/L			03/15/16 17:45	1
TOC Result 1	5.2		1.0	0.080	mg/L			03/11/16 10:42	1
TOC Result 2	4.0		1.0	0.080	mg/L			03/11/16 10:42	1
TOC Result 3	5.1		1.0	0.080	mg/L			03/11/16 10:42	1
TOC Result 4	4.1		1.0	0.080	mg/L			03/11/16 10:42	1
Total Organic Carbon	4.6		1.0	0.080	mg/L			03/11/16 10:42	1
Total Dissolved Solids	610		10	7.4	mg/L			03/11/16 09:56	1

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

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

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	1.0	0.44	ug/L	8260C
1,1,2,2-Tetrachloroethane	1.0	0.22	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.45	ug/L	8260C
1,1,2-Trichloroethane	1.0	0.24	ug/L	8260C
1,1-Dichloroethane	1.0	0.30	ug/L	8260C
1,1-Dichloroethene	1.0	0.45	ug/L	8260C
1,2,4-Trichlorobenzene	1.0	0.32	ug/L	8260C
1,2-Dibromo-3-Chloropropane	2.0	0.82	ug/L	8260C
1,2-Dichlorobenzene	1.0	0.25	ug/L	8260C
1,2-Dichloroethane	1.0	0.23	ug/L	8260C
1,2-Dichloropropane	1.0	0.25	ug/L	8260C
1,3-Dichlorobenzene	1.0	0.19	ug/L	8260C
1,4-Dichlorobenzene	1.0	0.27	ug/L	8260C
2-Butanone (MEK)	10	0.53	ug/L	8260C
2-Hexanone	10	0.48	ug/L	8260C
4-Methyl-2-pentanone (MIBK)	10	0.99	ug/L	8260C
Acetone	10	0.94	ug/L	8260C
Benzene	1.0	0.35	ug/L	8260C
Bromoform	1.0	0.56	ug/L	8260C
Bromomethane	1.0	0.44	ug/L	8260C
Carbon disulfide	1.0	0.38	ug/L	8260C
Carbon tetrachloride	1.0	0.43	ug/L	8260C
Chlorobenzene	1.0	0.25	ug/L	8260C
Chlorodibromomethane	1.0	0.43	ug/L	8260C
Chloroethane	1.0	0.32	ug/L	8260C
Chloroform	1.0	0.25	ug/L	8260C
Chloromethane	1.0	0.44	ug/L	8260C
cis-1,2-Dichloroethene	1.0	0.26	ug/L	8260C
cis-1,3-Dichloropropene	1.0	0.46	ug/L	8260C
Cyclohexane	1.0	0.45	ug/L	8260C
Dichlorobromomethane	1.0	0.29	ug/L	8260C
Dichlorodifluoromethane	1.0	0.32	ug/L	8260C
Ethylbenzene	1.0	0.25	ug/L	8260C
Ethylene Dibromide	1.0	0.32	ug/L	8260C
Isopropylbenzene	1.0	0.35	ug/L	8260C
Methyl acetate	10	2.3	ug/L	8260C
Methyl tert-butyl ether	1.0	0.20	ug/L	8260C
Methylcyclohexane	1.0	0.43	ug/L	8260C
Methylene Chloride	1.0	0.33	ug/L	8260C
Styrene	1.0	0.45	ug/L	8260C
Tetrachloroethene	1.0	0.31	ug/L	8260C
Toluene	1.0	0.23	ug/L	8260C
trans-1,2-Dichloroethene	1.0	0.30	ug/L	8260C
trans-1,3-Dichloropropene	1.0	0.56	ug/L	8260C
Trichloroethene	1.0	0.22	ug/L	8260C
Trichlorofluoromethane	1.0	0.49	ug/L	8260C
Vinyl chloride	1.0	0.29	ug/L	8260C
Xylenes, Total	2.0	0.52	ug/L	8260C

Method: RSK-175 - Dissolved Gases (GC)

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units	Method
Ethane	0.50	0.14	ug/L	RSK-175
Ethene	0.50	0.13	ug/L	RSK-175
Methane	0.50	0.080	ug/L	RSK-175

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	RL	MDL	Units	Method
Iron	200	13	ug/L	6010C
Manganese	15	0.46	ug/L	6010C

General Chemistry

Analyte	RL	MDL	Units	Method
Alkalinity	5.0	1.9	mg/L	2320B-1997
Sulfate	1.0	0.13	mg/L	300.0
TOC Result 1	1.0	0.080	mg/L	9060A
TOC Result 2	1.0	0.080	mg/L	9060A
TOC Result 3	1.0	0.080	mg/L	9060A
TOC Result 4	1.0	0.080	mg/L	9060A
Total Organic Carbon	1.0	0.080	mg/L	9060A
Total Dissolved Solids	10	7.4	mg/L	SM 2540C

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DBFM (79-120)	BFB (61-120)	12DCE (78-125)
240-61898-B-1 MS	Matrix Spike	103	99	108	102
240-61898-B-1 MSD	Matrix Spike Duplicate	103	98	107	102
240-61965-1	TB-030916	100	103	101	106
240-61965-2	MW-81B-030916	97	93	97	90
240-61965-3	NMW-11-030916	101	102	103	104
240-61965-4	NMW-2I-030916	99	101	104	106
240-61965-5	NMW-2S-030916	102	100	103	106
240-61965-6	NMW-3I-030916	102	100	101	106
LCS 240-221416/5	Lab Control Sample	97	98	111	96
LCS 240-221626/4	Lab Control Sample	99	97	97	88
MB 240-221416/32	Method Blank	99	100	103	103
MB 240-221626/6	Method Blank	95	93	94	88

Surrogate Legend

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

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		Trifluoroet (66-132)
240-61866-M-1 MS	Matrix Spike	95
240-61866-P-1 MSD	Matrix Spike Duplicate	91
240-61965-3	NMW-11-030916	109
240-61965-6	NMW-3I-030916	103
240-61965-6	NMW-3I-030916	96
240-61965-6 MS	NMW-3I-030916	102
240-61965-6 MSD	NMW-3I-030916	101
LCS 240-221537/5	Lab Control Sample	108
LCS 240-221825/5	Lab Control Sample	107
MB 240-221537/4	Method Blank	110
MB 240-221825/4	Method Blank	111

Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

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

Lab Sample ID: MB 240-221416/32

Matrix: Water

Analysis Batch: 221416

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			03/14/16 12:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			03/14/16 12:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			03/14/16 12:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/14/16 12:03	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			03/14/16 12:03	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			03/14/16 12:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			03/14/16 12:03	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			03/14/16 12:03	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			03/14/16 12:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/14/16 12:03	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			03/14/16 12:03	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			03/14/16 12:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			03/14/16 12:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			03/14/16 12:03	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			03/14/16 12:03	1
2-Hexanone	10	U	10	0.48	ug/L			03/14/16 12:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			03/14/16 12:03	1
Acetone	10	U	10	0.94	ug/L			03/14/16 12:03	1
Benzene	1.0	U	1.0	0.35	ug/L			03/14/16 12:03	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			03/14/16 12:03	1
Bromoform	1.0	U	1.0	0.56	ug/L			03/14/16 12:03	1
Bromomethane	1.0	U	1.0	0.44	ug/L			03/14/16 12:03	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			03/14/16 12:03	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			03/14/16 12:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/14/16 12:03	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/14/16 12:03	1
Chloroform	1.0	U	1.0	0.25	ug/L			03/14/16 12:03	1
Chloromethane	1.0	U	1.0	0.44	ug/L			03/14/16 12:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			03/14/16 12:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			03/14/16 12:03	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			03/14/16 12:03	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			03/14/16 12:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			03/14/16 12:03	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			03/14/16 12:03	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			03/14/16 12:03	1
Methyl acetate	10	U	10	2.3	ug/L			03/14/16 12:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			03/14/16 12:03	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			03/14/16 12:03	1
Methylene Chloride	0.669	J	1.0	0.33	ug/L			03/14/16 12:03	1
Styrene	1.0	U	1.0	0.45	ug/L			03/14/16 12:03	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			03/14/16 12:03	1
Toluene	1.0	U	1.0	0.23	ug/L			03/14/16 12:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/14/16 12:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			03/14/16 12:03	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			03/14/16 12:03	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			03/14/16 12:03	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			03/14/16 12:03	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			03/14/16 12:03	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		03/14/16 12:03	1
Dibromofluoromethane (Surr)	100		79 - 120		03/14/16 12:03	1
4-Bromofluorobenzene (Surr)	103		61 - 120		03/14/16 12:03	1
1,2-Dichloroethane-d4 (Surr)	103		78 - 125		03/14/16 12:03	1

Lab Sample ID: LCS 240-221416/5
Matrix: Water
Analysis Batch: 221416

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-Trichloroethane	10.0	9.86		ug/L		99	77 - 123
1,1,2,2-Tetrachloroethane	10.0	10.8		ug/L		108	71 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.2		ug/L		112	67 - 138
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	80 - 120
1,1-Dichloroethane	10.0	9.83		ug/L		98	79 - 125
1,1-Dichloroethene	10.0	10.6		ug/L		106	76 - 124
1,2,4-Trichlorobenzene	10.0	9.45		ug/L		95	61 - 120
1,2-Dibromo-3-Chloropropane	10.0	11.1		ug/L		111	50 - 132
Ethylene Dibromide	10.0	10.8		ug/L		108	80 - 120
1,2-Dichlorobenzene	10.0	9.90		ug/L		99	79 - 120
1,2-Dichloroethane	10.0	10.4		ug/L		104	80 - 120
1,2-Dichloropropane	10.0	10.1		ug/L		101	78 - 124
1,3-Dichlorobenzene	10.0	9.75		ug/L		98	79 - 120
1,4-Dichlorobenzene	10.0	9.84		ug/L		98	79 - 120
2-Butanone (MEK)	20.0	20.9		ug/L		104	56 - 138
2-Hexanone	20.0	21.9		ug/L		109	55 - 141
4-Methyl-2-pentanone (MIBK)	20.0	23.2		ug/L		116	64 - 135
Acetone	20.0	16.4		ug/L		82	34 - 148
Benzene	10.0	10.1		ug/L		101	80 - 120
Dichlorobromomethane	10.0	10.1		ug/L		101	80 - 120
Bromoform	10.0	12.2		ug/L		122	56 - 122
Bromomethane	10.0	6.98		ug/L		70	38 - 132
Carbon disulfide	10.0	10.3		ug/L		103	65 - 144
Carbon tetrachloride	10.0	10.5		ug/L		105	77 - 131
Chlorobenzene	10.0	10.1		ug/L		101	80 - 120
Chloroethane	10.0	6.09		ug/L		61	36 - 126
Chloroform	10.0	10.3		ug/L		103	80 - 120
Chloromethane	10.0	9.53		ug/L		95	48 - 133
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	79 - 120
cis-1,3-Dichloropropene	10.0	10.0		ug/L		100	74 - 126
Cyclohexane	10.0	10.7		ug/L		107	60 - 140
Chlorodibromomethane	10.0	10.6		ug/L		106	74 - 120
Dichlorodifluoromethane	10.0	6.16		ug/L		62	23 - 136
Ethylbenzene	10.0	10.2		ug/L		102	80 - 120
Isopropylbenzene	10.0	10.6		ug/L		106	77 - 120
Methyl acetate	50.0	57.6		ug/L		115	67 - 131
Methyl tert-butyl ether	10.0	10.0		ug/L		100	69 - 121
Methylcyclohexane	10.0	10.5		ug/L		105	61 - 134
Methylene Chloride	10.0	11.2		ug/L		112	77 - 129
Styrene	10.0	10.5		ug/L		105	76 - 122
Tetrachloroethane	10.0	10.0		ug/L		100	78 - 121
Toluene	10.0	10.1		ug/L		101	80 - 120
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	80 - 124

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

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

Lab Sample ID: LCS 240-221416/5
Matrix: Water
Analysis Batch: 221416

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	9.83		ug/L		98	75 - 131
Trichloroethene	10.0	10.5		ug/L		105	80 - 121
Trichlorofluoromethane	10.0	8.67		ug/L		87	61 - 133
Vinyl chloride	10.0	9.34		ug/L		93	52 - 121
Xylenes, Total	20.0	20.6		ug/L		103	80 - 120
m-Xylene & p-Xylene	10.0	10.3		ug/L		103	80 - 120
o-Xylene	10.0	10.3		ug/L		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	98		79 - 120
4-Bromofluorobenzene (Surr)	111		61 - 120
1,2-Dichloroethane-d4 (Surr)	96		78 - 125

Lab Sample ID: MB 240-221626/6
Matrix: Water
Analysis Batch: 221626

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-Trichloroethane	1.0	U	1.0	0.44	ug/L			03/15/16 11:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			03/15/16 11:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			03/15/16 11:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/15/16 11:33	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			03/15/16 11:33	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			03/15/16 11:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			03/15/16 11:33	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			03/15/16 11:33	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			03/15/16 11:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			03/15/16 11:33	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			03/15/16 11:33	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			03/15/16 11:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			03/15/16 11:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			03/15/16 11:33	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			03/15/16 11:33	1
2-Hexanone	10	U	10	0.48	ug/L			03/15/16 11:33	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			03/15/16 11:33	1
Acetone	10	U	10	0.94	ug/L			03/15/16 11:33	1
Benzene	1.0	U	1.0	0.35	ug/L			03/15/16 11:33	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			03/15/16 11:33	1
Bromoform	1.0	U	1.0	0.56	ug/L			03/15/16 11:33	1
Bromomethane	1.0	U	1.0	0.44	ug/L			03/15/16 11:33	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			03/15/16 11:33	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			03/15/16 11:33	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			03/15/16 11:33	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/15/16 11:33	1
Chloroform	1.0	U	1.0	0.25	ug/L			03/15/16 11:33	1
Chloromethane	1.0	U	1.0	0.44	ug/L			03/15/16 11:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			03/15/16 11:33	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

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

Lab Sample ID: MB 240-221626/6

Matrix: Water

Analysis Batch: 221626

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			03/15/16 11:33	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			03/15/16 11:33	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			03/15/16 11:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			03/15/16 11:33	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			03/15/16 11:33	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			03/15/16 11:33	1
Methyl acetate	10	U	10	2.3	ug/L			03/15/16 11:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			03/15/16 11:33	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			03/15/16 11:33	1
Methylene Chloride	0.577	J	1.0	0.33	ug/L			03/15/16 11:33	1
Styrene	1.0	U	1.0	0.45	ug/L			03/15/16 11:33	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			03/15/16 11:33	1
Toluene	1.0	U	1.0	0.23	ug/L			03/15/16 11:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/15/16 11:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			03/15/16 11:33	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			03/15/16 11:33	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			03/15/16 11:33	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			03/15/16 11:33	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			03/15/16 11:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	95		80 - 120		03/15/16 11:33	1
Dibromofluoromethane (Surr)	93		79 - 120		03/15/16 11:33	1
4-Bromofluorobenzene (Surr)	94		61 - 120		03/15/16 11:33	1
1,2-Dichloroethane-d4 (Surr)	88		78 - 125		03/15/16 11:33	1

Lab Sample ID: LCS 240-221626/4

Matrix: Water

Analysis Batch: 221626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	71 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.83		ug/L		88	67 - 138
1,1,2-Trichloroethane	10.0	9.74		ug/L		97	80 - 120
1,1-Dichloroethane	10.0	9.82		ug/L		98	79 - 125
1,1-Dichloroethene	10.0	10.5		ug/L		105	76 - 124
1,2,4-Trichlorobenzene	10.0	8.29		ug/L		83	61 - 120
1,2-Dibromo-3-Chloropropane	10.0	12.0		ug/L		120	50 - 132
Ethylene Dibromide	10.0	9.66		ug/L		97	80 - 120
1,2-Dichlorobenzene	10.0	9.22		ug/L		92	79 - 120
1,2-Dichloroethane	10.0	9.23		ug/L		92	80 - 120
1,2-Dichloropropane	10.0	10.2		ug/L		102	78 - 124
1,3-Dichlorobenzene	10.0	9.32		ug/L		93	79 - 120
1,4-Dichlorobenzene	10.0	9.20		ug/L		92	79 - 120
2-Butanone (MEK)	20.0	18.0		ug/L		90	56 - 138
2-Hexanone	20.0	18.9		ug/L		95	55 - 141

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

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

Lab Sample ID: LCS 240-221626/4
Matrix: Water
Analysis Batch: 221626

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	20.0	20.6		ug/L		103	64 - 135
Acetone	20.0	13.6		ug/L		68	34 - 148
Benzene	10.0	10.0		ug/L		100	80 - 120
Dichlorobromomethane	10.0	10.0		ug/L		100	80 - 120
Bromoform	10.0	11.6		ug/L		116	56 - 122
Bromomethane	10.0	7.50		ug/L		75	38 - 132
Carbon disulfide	10.0	11.3		ug/L		113	65 - 144
Carbon tetrachloride	10.0	10.6		ug/L		106	77 - 131
Chlorobenzene	10.0	9.35		ug/L		93	80 - 120
Chloroethane	10.0	7.56		ug/L		76	36 - 126
Chloroform	10.0	9.59		ug/L		96	80 - 120
Chloromethane	10.0	10.3		ug/L		103	48 - 133
cis-1,2-Dichloroethene	10.0	9.99		ug/L		100	79 - 120
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	74 - 126
Cyclohexane	10.0	9.80		ug/L		98	60 - 140
Chlorodibromomethane	10.0	10.6		ug/L		106	74 - 120
Dichlorodifluoromethane	10.0	6.52		ug/L		65	23 - 136
Ethylbenzene	10.0	9.23		ug/L		92	80 - 120
Isopropylbenzene	10.0	8.77		ug/L		88	77 - 120
Methyl acetate	50.0	50.6		ug/L		101	67 - 131
Methyl tert-butyl ether	10.0	10.3		ug/L		103	69 - 121
Methylcyclohexane	10.0	9.84		ug/L		98	61 - 134
Methylene Chloride	10.0	10.5		ug/L		105	77 - 129
Styrene	10.0	8.94		ug/L		89	76 - 122
Tetrachloroethene	10.0	9.32		ug/L		93	78 - 121
Toluene	10.0	9.54		ug/L		95	80 - 120
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	80 - 124
trans-1,3-Dichloropropene	10.0	10.4		ug/L		104	75 - 131
Trichloroethene	10.0	9.97		ug/L		100	80 - 121
Trichlorofluoromethane	10.0	7.19		ug/L		72	61 - 133
Vinyl chloride	10.0	9.45		ug/L		95	52 - 121
Xylenes, Total	20.0	18.5		ug/L		93	80 - 120
m-Xylene & p-Xylene	10.0	9.28		ug/L		93	80 - 120
o-Xylene	10.0	9.26		ug/L		93	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>Toluene-d8 (Surr)</i>	99		80 - 120
<i>Dibromofluoromethane (Surr)</i>	97		79 - 120
<i>4-Bromofluorobenzene (Surr)</i>	97		61 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	88		78 - 125

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-221537/4
Matrix: Water
Analysis Batch: 221537

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethene	0.50	U	0.50	0.13	ug/L			03/15/16 10:58	1
Ethane	0.50	U	0.50	0.14	ug/L			03/15/16 10:58	1
Methane	0.50	U	0.50	0.080	ug/L			03/15/16 10:58	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac	
%Recovery	Qualifier								
1,1,1-Trifluoroethane	110		66 - 132				03/15/16 10:58	1	

Lab Sample ID: LCS 240-221537/5
Matrix: Water
Analysis Batch: 221537

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	374	361		ug/L		97	80 - 120
Methane	199	186		ug/L		94	76 - 120
Surrogate	LCS LCS		Limits			%Recovery	Qualifier
%Recovery	Qualifier						
1,1,1-Trifluoroethane	108		66 - 132				

Lab Sample ID: MB 240-221825/4
Matrix: Water
Analysis Batch: 221825

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethene	0.50	U	0.50	0.13	ug/L			03/16/16 16:17	1
Ethane	0.50	U	0.50	0.14	ug/L			03/16/16 16:17	1
Methane	0.50	U	0.50	0.080	ug/L			03/16/16 16:17	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac	
%Recovery	Qualifier								
1,1,1-Trifluoroethane	111		66 - 132				03/16/16 16:17	1	

Lab Sample ID: LCS 240-221825/5
Matrix: Water
Analysis Batch: 221825

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	374	368		ug/L		98	80 - 120
Methane	199	189		ug/L		95	76 - 120
Surrogate	LCS LCS		Limits			%Recovery	Qualifier
%Recovery	Qualifier						
1,1,1-Trifluoroethane	107		66 - 132				

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 240-61965-6 MS
Matrix: Water
Analysis Batch: 221825

Client Sample ID: NMW-3I-030916
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Ethene	110		3490	3370		ug/L		93		60 - 120
Ethane	120		3740	3630		ug/L		94		61 - 120
Methane	12000		1990	10900	4	ug/L		-63		34 - 153
		<i>MS</i>	<i>MS</i>							
Surrogate	%Recovery	Qualifier	Limits							
1,1,1-Trifluoroethane	102		66 - 132							

Lab Sample ID: 240-61965-6 MSD
Matrix: Water
Analysis Batch: 221825

Client Sample ID: NMW-3I-030916
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
Ethene	110		3490	3380		ug/L		94		60 - 120	0		17
Ethane	120		3740	3690		ug/L		95		61 - 120	2		21
Methane	12000		1990	11400	4	ug/L		-36		34 - 153	5		22
		<i>MSD</i>	<i>MSD</i>										
Surrogate	%Recovery	Qualifier	Limits										
1,1,1-Trifluoroethane	101		66 - 132										

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 240-221419/1-A
Matrix: Water
Analysis Batch: 221722

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 221419

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	32.1	J	200	13	ug/L		03/14/16 10:23	03/15/16 19:28	1
Manganese	0.601	J	15	0.46	ug/L		03/14/16 10:23	03/15/16 19:28	1

Lab Sample ID: LCS 240-221419/2-A
Matrix: Water
Analysis Batch: 221722

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 221419

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
Iron	1000	987		ug/L		99		80 - 120
Manganese	500	503		ug/L		101		80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-221645/2
Matrix: Water
Analysis Batch: 221645

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity	2.00	J	5.0	1.9	mg/L			03/15/16 12:54	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 240-221645/3
Matrix: Water
Analysis Batch: 221645

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	284	285		mg/L		100	90 - 127

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-221386/3
Matrix: Water
Analysis Batch: 221386

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			03/11/16 17:15	1

Lab Sample ID: LCS 240-221386/4
Matrix: Water
Analysis Batch: 221386

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	53.4		mg/L		107	90 - 110

Lab Sample ID: MB 240-221581/3
Matrix: Water
Analysis Batch: 221581

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			03/15/16 11:31	1

Lab Sample ID: LCS 240-221581/4
Matrix: Water
Analysis Batch: 221581

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.6		mg/L		97	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-221343/4
Matrix: Water
Analysis Batch: 221343

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.0	U	1.0	0.080	mg/L			03/11/16 08:19	1
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			03/11/16 08:19	1

Lab Sample ID: LCS 240-221343/6
Matrix: Water
Analysis Batch: 221343

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	69.3	67.9		mg/L		98	88 - 115
Total Organic Carbon	69.3	67.9		mg/L		98	88 - 115

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Lab Sample ID: LLCS 240-221343/5
Matrix: Water
Analysis Batch: 221343

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	6.93	6.75		mg/L		97	88 - 115
Total Organic Carbon	6.93	6.75		mg/L		97	88 - 115

Lab Sample ID: 240-61965-3 MS
Matrix: Water
Analysis Batch: 221343

Client Sample ID: NMW-11-030916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	2.7		25.0	29.0		mg/L		105	72 - 136
Total Organic Carbon	2.3		25.0	29.0		mg/L		107	72 - 136

Lab Sample ID: 240-61965-3 MSD
Matrix: Water
Analysis Batch: 221343

Client Sample ID: NMW-11-030916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TOC Result 1	2.7		25.0	30.7		mg/L		112	72 - 136	6	20
Total Organic Carbon	2.3		25.0	30.7		mg/L		113	72 - 136	6	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-221134/1
Matrix: Water
Analysis Batch: 221134

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L			03/11/16 09:55	1

Lab Sample ID: LCS 240-221134/2
Matrix: Water
Analysis Batch: 221134

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	281	293		mg/L		104	88 - 110

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

GC/MS VOA

Analysis Batch: 221416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-61965-1	TB-030916	Total/NA	Water	8260C	
240-61965-3	NMW-1I-030916	Total/NA	Water	8260C	
240-61965-4	NMW-2I-030916	Total/NA	Water	8260C	
240-61965-5	NMW-2S-030916	Total/NA	Water	8260C	
240-61965-6	NMW-3I-030916	Total/NA	Water	8260C	
LCS 240-221416/5	Lab Control Sample	Total/NA	Water	8260C	
MB 240-221416/32	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 221626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-61965-2	MW-81B-030916	Total/NA	Water	8260C	
LCS 240-221626/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-221626/6	Method Blank	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 221537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-61965-3	NMW-1I-030916	Total/NA	Water	RSK-175	
240-61965-6	NMW-3I-030916	Total/NA	Water	RSK-175	
LCS 240-221537/5	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-221537/4	Method Blank	Total/NA	Water	RSK-175	

Analysis Batch: 221825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-61965-6	NMW-3I-030916	Total/NA	Water	RSK-175	
240-61965-6 MS	NMW-3I-030916	Total/NA	Water	RSK-175	
240-61965-6 MSD	NMW-3I-030916	Total/NA	Water	RSK-175	
LCS 240-221825/5	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-221825/4	Method Blank	Total/NA	Water	RSK-175	

Metals

Prep Batch: 221419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-61965-3	NMW-1I-030916	Total Recoverable	Water	3005A	
240-61965-6	NMW-3I-030916	Total Recoverable	Water	3005A	
LCS 240-221419/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-221419/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 221722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-61965-3	NMW-1I-030916	Total Recoverable	Water	6010C	221419
240-61965-6	NMW-3I-030916	Total Recoverable	Water	6010C	221419
CRI 240-221722/106	DL		Water	6010C	
CRI 240-221722/20	DL		Water	6010C	
ICSA 240-221722/8	ICS		Water	6010C	
ICSAB 240-221722/9	ICS		Water	6010C	
LCS 240-221419/2-A	Lab Control Sample	Total Recoverable	Water	6010C	221419
MB 240-221419/1-A	Method Blank	Total Recoverable	Water	6010C	221419

TestAmerica Canton

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

General Chemistry

Analysis Batch: 221134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-61965-3	NMW-1I-030916	Total/NA	Water	SM 2540C	
240-61965-6	NMW-3I-030916	Total/NA	Water	SM 2540C	
LCS 240-221134/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-221134/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 221343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-61965-2	MW-81B-030916	Total/NA	Water	9060A	
240-61965-3	NMW-1I-030916	Total/NA	Water	9060A	
240-61965-3 MS	NMW-1I-030916	Total/NA	Water	9060A	
240-61965-3 MSD	NMW-1I-030916	Total/NA	Water	9060A	
240-61965-4	NMW-2I-030916	Total/NA	Water	9060A	
240-61965-5	NMW-2S-030916	Total/NA	Water	9060A	
240-61965-6	NMW-3I-030916	Total/NA	Water	9060A	
LCS 240-221343/6	Lab Control Sample	Total/NA	Water	9060A	
LLCS 240-221343/5	Lab Control Sample	Total/NA	Water	9060A	
MB 240-221343/4	Method Blank	Total/NA	Water	9060A	

Analysis Batch: 221386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-61965-3	NMW-1I-030916	Total/NA	Water	300.0	
LCS 240-221386/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-221386/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 221581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-61965-6	NMW-3I-030916	Total/NA	Water	300.0	
LCS 240-221581/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-221581/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 221645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-61965-3	NMW-1I-030916	Total/NA	Water	2320B-1997	
240-61965-6	NMW-3I-030916	Total/NA	Water	2320B-1997	
LCS 240-221645/3	Lab Control Sample	Total/NA	Water	2320B-1997	
MB 240-221645/2	Method Blank	Total/NA	Water	2320B-1997	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: TB-030916

Date Collected: 03/09/16 00:00

Date Received: 03/10/16 11:30

Lab Sample ID: 240-61965-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	221416	03/14/16 15:04	LEE	TAL CAN

Client Sample ID: MW-81B-030916

Date Collected: 03/09/16 09:20

Date Received: 03/10/16 11:30

Lab Sample ID: 240-61965-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2.5	221626	03/15/16 11:55	LEE	TAL CAN
Total/NA	Analysis	9060A		2	221343	03/11/16 09:25	TPH	TAL CAN

Client Sample ID: NMW-1I-030916

Date Collected: 03/09/16 10:15

Date Received: 03/10/16 11:30

Lab Sample ID: 240-61965-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	221416	03/14/16 15:50	LEE	TAL CAN
Total/NA	Analysis	RSK-175		1	221537	03/15/16 11:33	BPM	TAL CAN
Total Recoverable	Prep	3005A			221419	03/14/16 10:23	WKD	TAL CAN
Total Recoverable	Analysis	6010C		1	221722	03/15/16 20:26	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	221645	03/15/16 12:54	LCN	TAL CAN
Total/NA	Analysis	300.0		1	221386	03/11/16 19:42	JMB	TAL CAN
Total/NA	Analysis	9060A		1	221343	03/11/16 08:43	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	221134	03/11/16 09:56	GNR	TAL CAN

Client Sample ID: NMW-2I-030916

Date Collected: 03/09/16 12:35

Date Received: 03/10/16 11:30

Lab Sample ID: 240-61965-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		333.33	221416	03/14/16 16:12	LEE	TAL CAN
Total/NA	Analysis	9060A		1	221343	03/11/16 09:51	TPH	TAL CAN

Client Sample ID: NMW-2S-030916

Date Collected: 03/09/16 12:45

Date Received: 03/10/16 11:30

Lab Sample ID: 240-61965-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		33.33	221416	03/14/16 16:35	LEE	TAL CAN
Total/NA	Analysis	9060A		1	221343	03/11/16 10:17	TPH	TAL CAN

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Client Sample ID: NMW-3I-030916

Lab Sample ID: 240-61965-6

Date Collected: 03/09/16 13:40

Matrix: Water

Date Received: 03/10/16 11:30

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	8260C		25	221416	03/14/16 16:58	LEE	TAL CAN
Total/NA	Analysis	RSK-175		1	221537	03/15/16 11:50	BPM	TAL CAN
Total/NA	Analysis	RSK-175		10	221825	03/16/16 17:43	BPM	TAL CAN
Total Recoverable	Prep	3005A			221419	03/14/16 10:23	WKD	TAL CAN
Total Recoverable	Analysis	6010C		1	221722	03/15/16 20:31	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	221645	03/15/16 12:56	LCN	TAL CAN
Total/NA	Analysis	300.0		1	221581	03/15/16 17:45	LKG	TAL CAN
Total/NA	Analysis	9060A		1	221343	03/11/16 10:42	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	221134	03/11/16 09:56	GNR	TAL CAN

Laboratory References:

Micro = Micro, 10515 Research Dr, Knoxville, TN 37932

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

Certification Summary

Client: Tetra Tech, Inc.
 Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

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	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-16
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-16
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	06-30-16 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010C	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9060A	Organic Carbon, Total (TOC)	SW846	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
DHC	General Sub Contract Method	NONE	Micro
DHC (Send unpreserved liter poly)	General Sub Contract Method	NONE	Micro

Protocol References:

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

NONE = NONE

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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.

Laboratory References:

Micro = Micro, 10515 Research Dr, Knoxville, TN 37932

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Remedy

TestAmerica Job ID: 240-61965-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-61965-1	TB-030916	Water	03/09/16 00:00	03/10/16 11:30
240-61965-2	MW-81B-030916	Water	03/09/16 09:20	03/10/16 11:30
240-61965-3	NMW-1I-030916	Water	03/09/16 10:15	03/10/16 11:30
240-61965-4	NMW-2I-030916	Water	03/09/16 12:35	03/10/16 11:30
240-61965-5	NMW-2S-030916	Water	03/09/16 12:45	03/10/16 11:30
240-61965-6	NMW-3I-030916	Water	03/09/16 13:40	03/10/16 11:30

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: SIMON Analysis Batch Number: 213195

Lab Sample ID: STD1 240-213195/2 IC Client Sample ID: _____

Date Analyzed: 01/06/16 10:41 Lab File ID: 3240-0050699-002.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.64	Baseline Smoothing	nolle1	01/06/16 14:19

Lab Sample ID: STD2 240-213195/3 IC Client Sample ID: _____

Date Analyzed: 01/06/16 10:58 Lab File ID: 4240-0050699-003.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.63	Baseline Smoothing	nolle1	01/06/16 14:23
Chloride	3.66	Baseline Smoothing	nolle1	01/06/16 14:23
Bromide	5.47	Baseline Smoothing	nolle1	01/06/16 14:23

Lab Sample ID: STD3 240-213195/4 IC Client Sample ID: _____

Date Analyzed: 01/06/16 11:14 Lab File ID: 5240-0050699-004.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.63	Baseline Smoothing	nolle1	01/06/16 14:25
Chloride	3.68	Baseline Smoothing	nolle1	01/06/16 14:25
Bromide	5.49	Baseline Smoothing	nolle1	01/06/16 14:25
Sulfate	8.36	Baseline Smoothing	nolle1	01/06/16 14:25

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MT6500ICV_00030	03/21/16	03/08/16	DIWATER, Lot DIWATER	1000 mL	MTTRICV1_00006	5 mL	Iron	12500 ug/L
.MTTRICV1_00006	10/01/16		CPI, Lot 1080445		MTTRICV3_00007	6 mL	Manganese	1500 ug/L
.MTTRICV3_00007	01/01/17		CPI, Lot 1084215				Iron	2500 ug/mL
							Manganese	250 mg/L
MTAGSPIKEW_00056	06/09/17	02/10/16	DIWATER, Lot DIWATER	1000 mL	MTAG 00006	2.5 mL	Ag	2500 ug/L
.MTAG 00006	06/09/17		HIGH PURITY STANDARDS, Lot 1507504		MTTMHNO3_00080	50 mL	Nitric acid	50000000 ug/L
.MTTMHNO3_00080	01/25/18		Macron/Avantor, Lot 0000127621				Ag	1000 ug/mL
							Nitric acid	100 %
MTICP1_00050	12/09/16	02/10/16	DIWATER, Lot DI WATER	1000 mL	MTICPSPIKE1A_00010	50 mL	Al	100000 ug/L
							As	100000 ug/L
							B	50000 ug/L
							Ba	100000 ug/L
							Be	2500 ug/L
							Cd	2500 ug/L
							Co	25000 ug/L
							Cr	10000 ug/L
							Cu	12500 ug/L
							Iron	50000 ug/L
							Manganese	25000 ug/L
							Ni	25000 ug/L
							Pb	25000 ug/L
							Se	100000 ug/L
							Tl	100000 ug/L
							V	25000 ug/L
							Zn	25000 ug/L
					MTICPSPIKEB_00009	50 mL	Mo	50000 ug/L
							Sb	25000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00006	50 mL	Li	50000 ug/L
							Si	50000 ug/L
							SiO2	107000 ug/L
							Sr	50000 ug/L
					MTTMHNO3_00080	50 mL	Nitric acid	50000000 ug/L
.MTICPSPIKE1A_00010	12/09/16		High Purity Standards, Lot 1534135				Al	2000 ug/mL
							As	2000 ug/mL
							B	1000 ug/mL
							Ba	2000 ug/mL
							Be	50 ug/mL
							Cd	50 ug/mL
							Co	500 ug/mL
							Cr	200 ug/mL
							Cu	250 ug/mL
							Iron	1000 ug/mL
							Manganese	500 ug/mL
							Ni	500 ug/mL
							Pb	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Se	2000 ug/mL
							Tl	2000 ug/mL
							V	500 ug/mL
							Zn	500 ug/mL
.MTICPSPIKEB_00009	12/09/16		High Purity Standards, Lot 1534137			(Purchased Reagent)	Mo	1000 ug/mL
							Sb	500 ug/mL
							Sn	2000 ug/mL
							Ti	1000 ug/mL
.MTICPSpikeOdd_00006	12/09/16		High Purity Standards, Lot 1534138			(Purchased Reagent)	Li	1000 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sr	1000 ug/mL
.MTTMHNO3_00080	01/25/18		Macron/Avantor, Lot 0000127621			(Purchased Reagent)	Nitric acid	100 %
MTICP2A_00058	10/19/16	02/10/16	DIWATER, Lot DIWATER	1000 mL	MTTMHNO3_00080	50 mL	Nitric acid	50000 mg/L
					MTTRCAL2_00013	250 mL	Ca	2500 mg/L
							K	2500 mg/L
							Mg	2500 mg/L
							Na	2500 mg/L
.MTTMHNO3_00080	01/25/18		Macron/Avantor, Lot 0000127621			(Purchased Reagent)	Nitric acid	100 %
.MTTRCAL2_00013	10/19/16		HIGH PURITY STANDARDS, Lot 1506106			(Purchased Reagent)	Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
MTICPCCV_00068	09/02/16	03/02/16	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00012	200 mL	Iron	25000 ug/L
							Manganese	2000 ug/L
.MTICPCCV1_00012	01/01/17		INORGANIC VENTURES, Lot J2-MEB612087			(Purchased Reagent)	Iron	250000 ug/L
							Manganese	20000 ug/L
MTICPICSABW_00010	06/02/16	12/02/15	DIWATER, Lot DIWATER	1000 mL	MTICPICSAB1_00004	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
							Cd	1000 ug/L
							Co	500 ug/L
							Cr	500 ug/L
							Cu	500 ug/L
							Iron	200000 ug/L
							K	10000 ug/L
							Li	500 ug/L
							Manganese	500 ug/L
							Mg	500000 ug/L
							Na	10000 ug/L
							Ni	1000 ug/L
							Pb	1000 ug/L
							Se	1000 ug/L
							Sr	1500 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tl	1000 ug/L
							V	500 ug/L
							Zn	1000 ug/L
					MTICPICSAB2_00004	100 mL	Ag	1000 ug/L
							Mo	1000 ug/L
							Sb	1000 ug/L
							Si	10000 ug/L
							Sn	500 ug/L
							Ti	500 ug/L
.MTICPICSAB1_00004	07/01/16		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
							Cd	10000 ug/L
							Co	5000 ug/L
							Cr	5000 ug/L
							Cu	5000 ug/L
							Iron	2000000 ug/L
							K	100000 ug/L
							Li	5000 ug/L
							Manganese	5000 ug/L
							Mg	5000000 ug/L
							Na	100000 ug/L
							Ni	10000 ug/L
							Pb	10000 ug/L
							Se	10000 ug/L
							Sr	15000 ug/L
							Tl	10000 ug/L
							V	5000 ug/L
							Zn	10000 ug/L
.MTICPICSAB2_00004	07/01/16		INORGANIC VENTURES, Lot H2-MEB546051			(Purchased Reagent)	Ag	10000 ug/L
							Mo	10000 ug/L
							Sb	10000 ug/L
							Si	100000 ug/L
							Sn	5000 ug/L
							Ti	5000 ug/L
MTTMHCL_00099	03/02/18		Fisher, Lot 4115100			(Purchased Reagent)	Hydrogen Chloride	100 %
MTTMHNO3_00082	03/02/18		Macron/Avantor, Lot 0000127621			(Purchased Reagent)	Nitric acid	100 %
MTTRCRIC_00033	08/09/16	02/09/16	DIWATER, Lot DIWATER	500 mL	MTTRCRI6010C_00012	25 mL	Iron	200 ug/L
							Manganese	15 ug/L
.MTTRCRI6010C_00012	10/01/16		Inorganic Ventures, Lot H2-MEB552050			(Purchased Reagent)	Iron	4000 ug/L
							Manganese	300 ug/L
MTTRICSAW_00030	09/04/16	03/04/16	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00014	100 mL	Al	500000 ug/L
							Ca	500000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MTTRICSA_00014	04/02/18		INORGANIC VENTURES, Lot J2-MEB572053			(Purchased Reagent)	Iron	200000 ug/L
							Mg	500000 ug/L
							Al	5000 ug/mL
							Ca	5000 ug/mL
							Iron	2000 ug/mL
							Mg	5000 ug/mL
SAICALSURR_00009	07/14/16		Matheson Trigas, Lot 109-46-10609			(Purchased Reagent)	1,1,1-Trifluoroethane	172158 ug/L
SARSK2NDSRCE_00010	10/13/18		Air Liquide-Scott Specialty gases, Lot 403-120156			(Purchased Reagent)	Ethane	12338 ug/L
							Ethene	11518 ug/L
							Methane	6558 ug/L
SARSKHIGHCALP_00007	09/18/17		Matheson Trigas, Lot 109-56-13135			(Purchased Reagent)	Acetylene	10657 ug/L
							Ethane	12338 ug/L
							Ethene	11518 ug/L
							Methane	6558 ug/L
							Propane	18077 ug/L
SARSKLOWCAL_00008	09/18/17		MATHESON TRI-GAS INC., Lot 109-56-13136			(Purchased Reagent)	Acetylene	1066 ug/L
							Ethane	1234 ug/L
							Ethene	1152 ug/L
							Methane	656 ug/L
							Propane	1808 ug/L
SARSKSURR_00009	11/19/16		Matheson Trigas, Lot 9302603973			(Purchased Reagent)	1,1,1-Trifluoroethane	11190 ug/L
VM50IS_00053	05/24/16	11/24/15	MEOH, Lot 118655	100 mL	vm30241_00002	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00002	11/30/19		restek, Lot A0107133			(Purchased Reagent)	1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 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
							Dibromofluoromethane (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
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00068	06/21/16	12/21/15	MEOH, Lot 0000118655	200 mL	VM567650_00023	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_00023	06/30/19		Restek, Lot A0104073			(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_00135	02/05/16	01/29/16	MEOH, Lot na	3 mL	VMACROLSTD_00033	3 mL	Acrolein	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMACROLSTD_00033	02/29/16	12/30/15	MEOH, Lot 0000118655	20 mL	VM568720_00010	250 uL	Acrolein	250 ug/mL
..VM568720_00010	03/31/16		restek, Lot A0115119		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00138	02/28/16	02/21/16	MEOH, Lot na	3 mL	VMACROLSTD_00033	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00033	02/29/16	12/30/15	MEOH, Lot 0000118655	20 mL	VM568720_00010	250 uL	Acrolein	250 ug/mL
..VM568720_00010	03/31/16		restek, Lot A0115119		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00136	01/31/16	01/29/16	MEOH, Lot NA	2 mL	VMFASG_00038	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_00038	01/31/16	12/30/15	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063		(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
VMFASGW_00140	02/28/16	02/21/16	MEOH, Lot NA	2 mL	VMFASG_00039	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_00039	02/29/16	01/30/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063		(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
VMFASGW_00143	03/14/16	03/07/16	MEOH, Lot NA	2 mL	VMFASG_00040	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMFASG_00040	03/26/16	02/26/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 mL	Vinyl chloride	50 ug/mL
							Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
..vm569722S_00001	08/31/18		Restek, Lot A0113063			(Purchased Reagent)	Vinyl chloride	50 ug/mL
							Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
VMFASGW_00144	03/22/16	03/15/16	MEOH, Lot NA	2 mL	VMFASG_00040	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_00040	03/26/16	02/26/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063			(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
VMFASPW_00137	01/30/16	01/29/16	MEOH, Lot n/a	2 mL	VMRFASP_00025	2 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 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
							1,2,4-Trichlorobenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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		
							Benzene	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		
							Dichlorobromomethane	50 ug/mL		
							Ethylbenzene	50 ug/mL		
							Ethylene Dibromide	50 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		
							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									
Xylenes, Total	100 ug/mL									
.VMRFASP_00025	01/30/16	12/30/15	MEOH, Lot +171940000118655JM	100 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		
							VM569720S_00001	2 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				
					1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL				
					1,4-Dichlorobenzene	50 ug/mL				

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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
							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
							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
							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
							Xylenes, Total	100 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
..VM569720S_00001	01/31/17		Restek, Lot A0108163			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00141	02/28/16	02/21/16	MEOH, Lot n/a	2 mL	VMRFASP_00026	2 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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
							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
							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
							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
.VMRFASP_00026	04/30/16	01/30/16	MEOH, Lot 0000118655	100 mL	VM569720S_00001	2 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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
							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
							Xylenes, Total	100 ug/mL
							VM569721S_00001	0.8 mL
		2-Hexanone	100 ug/mL					
		4-Methyl-2-pentanone (MIBK)	100 ug/mL					
		Acetone	100 ug/mL					
..VM569720S_00001	01/31/17	Restek, Lot A0108163	(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL			
				1,1,2,2-Tetrachloroethane	2500 ug/mL			
				1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL			
				1,1,2-Trichloroethane	2500 ug/mL			
				1,1-Dichloroethane	2500 ug/mL			
				1,1-Dichloroethene	2500 ug/mL			
				1,2,4-Trichlorobenzene	2500 ug/mL			
				1,2-Dibromo-3-Chloropropane	2500 ug/mL			
				1,2-Dichlorobenzene	2500 ug/mL			
				1,2-Dichloroethane	2500 ug/mL			
				1,2-Dichloropropane	2500 ug/mL			
				1,3-Dichlorobenzene	2500 ug/mL			
				1,4-Dichlorobenzene	2500 ug/mL			
				Benzene	2500 ug/mL			
				Bromoform	2500 ug/mL			
				Carbon disulfide	2500 ug/mL			
				Carbon tetrachloride	2500 ug/mL			
				Chlorobenzene	2500 ug/mL			
				Chlorodibromomethane	2500 ug/mL			
				Chloroform	2500 ug/mL			
				cis-1,2-Dichloroethene	2500 ug/mL			
				cis-1,3-Dichloropropene	2500 ug/mL			
				Cyclohexane	2500 ug/mL			
				Dichlorobromomethane	2500 ug/mL			
				Ethylbenzene	2500 ug/mL			
				Ethylene Dibromide	2500 ug/mL			
				Isopropylbenzene	2500 ug/mL			
				m-Xylene & p-Xylene	2500 ug/mL			
				Methyl acetate	12500 ug/mL			

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..VM569721S_00001	01/31/18		Restek, Lot A0108157		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMFASPW_00144	03/18/16	03/11/16	MEOH, Lot n/a	2 mL	VMRFASP_00026	2 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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
							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
							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
.VMRFASP_00026	04/30/16	01/30/16	MEOH, Lot 0000118655	100 mL	VM569720S_00001	2 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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
							Xylenes, Total	100 ug/mL
					VM569721S_00001	0.8 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM569720S_00001	01/31/17		Restek, Lot A0108163			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VM569721S_00001	01/31/18		Restek, Lot A0108157			(Purchased Reagent)	Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
							2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
Acetone	12500 ug/mL							
VMRGAS_00135	02/03/16	01/27/16	MEOH, Lot 0000118655	10 mL	vm569722_00004	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
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00004	04/30/18		Restek, Lot A0110070			(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_00139	02/26/16	02/19/16	MEOH, Lot 0000118655	10 mL	vm569722_00004	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
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00004	04/30/18		Restek, Lot A0110070			(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_00144	03/21/16	03/14/16	MEOH, Lot 0000118655	10 mL	vm569722_00004	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_00004	04/30/18		Restek, Lot A0110070			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00167	01/31/16	01/28/16	MEOH, Lot NA	1 mL	VMRPRIM_00014	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
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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-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-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	50 ug/mL
.VMRPRIM_00014	01/31/16	11/01/15	MEOH, Lot 0000118655	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.: 240-61965-1

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
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 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
							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-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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-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
									2-Chloroethyl vinyl ether	100 ug/mL
		VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL					
		VM569724_00003	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-Trichloropropene	2000 ug/mL		
							1,2,4-Trichlorobenzene	2000 ug/mL		
							1,2,4-Trimethylbenzene	2000 ug/mL		
							1,2-Dibromo-3-Chloropropene	2000 ug/mL		
							1,2-Dichlorobenzene	2000 ug/mL		
							1,2-Dichloroethane	2000 ug/mL		
							1,2-Dichloropropene	2000 ug/mL		
							1,3,5-Trimethylbenzene	2000 ug/mL		
							1,3-Dichlorobenzene	2000 ug/mL		
							1,3-Dichloropropene	2000 ug/mL		
							1,4-Dichlorobenzene	2000 ug/mL		
							1,4-Dioxane	4000 ug/mL		
							2,2-Dichloropropene	2000 ug/mL		
							2-Chlorotoluene	2000 ug/mL		
							2-Methyl-2-propanol	20000 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		
							Bromoform	2000 ug/mL		
							Carbon disulfide	2000 ug/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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	5000 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-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_00003	01/31/16		Restek, Lot A0112975			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
VMRPRIMW_00171	02/26/16	02/19/16	MEOH, Lot NA	1 mL	VMRPRIM_00015	1 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.: 240-61965-1

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-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
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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	50 ug/mL
.VMRPRIM_00015	06/30/16	01/30/16	MEOH, Lot 0000118655	50 mL	VM569720_00001	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 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
							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-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-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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
					VM569721_00001	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
					VM569723_00001	2 mL	Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00004	0.5 mL	Vinyl acetate	50 ug/mL
..VM569720_00001	01/31/17	Restek, Lot A0108166	(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL			
				1,1,1-Trichloroethane	2500 ug/mL			
				1,1,2,2-Tetrachloroethane	2500 ug/mL			
				1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL			
				1,1,2-Trichloroethane	2500 ug/mL			
				1,1-Dichloroethane	2500 ug/mL			
				1,1-Dichloropropene	2500 ug/mL			
				1,2,3-Trichlorobenzene	2500 ug/mL			
				1,2,3-Trichloropropane	2500 ug/mL			
				1,2,4-Trichlorobenzene	2500 ug/mL			
				1,2,4-Trimethylbenzene	2500 ug/mL			
				1,2-Dibromo-3-Chloropropane	2500 ug/mL			
				1,2-Dichlorobenzene	2500 ug/mL			
				1,2-Dichloroethane	2500 ug/mL			
				1,2-Dichloropropane	2500 ug/mL			
				1,3,5-Trimethylbenzene	2500 ug/mL			
				1,3-Dichlorobenzene	2500 ug/mL			
				1,3-Dichloropropane	2500 ug/mL			
				1,4-Dichlorobenzene	2500 ug/mL			
				1,4-Dioxane	50000 ug/mL			
				2,2-Dichloropropane	2500 ug/mL			
				2-Chlorotoluene	2500 ug/mL			
				2-Methyl-2-propanol	25000 ug/mL			
				3-Chloro-1-propene	2500 ug/mL			
				4-Chlorotoluene	2500 ug/mL			
				4-Isopropyltoluene	2500 ug/mL			
				Acrylonitrile	25000 ug/mL			
				Benzene	2500 ug/mL			
				Bromobenzene	2500 ug/mL			
				Bromoform	2500 ug/mL			
				Carbon disulfide	2500 ug/mL			
				Carbon tetrachloride	2500 ug/mL			
				Chlorobenzene	2500 ug/mL			
				Chlorobromomethane	2500 ug/mL			
				Chlorodibromomethane	2500 ug/mL			
				Chloroform	2500 ug/mL			

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

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	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..VM569721_00001	04/30/18		Restek, Lot A0110400			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00001	01/31/18		restek, Lot A0108172			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00004	06/30/16		Restek, Lot A0115764			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
VMRPRIMW_00175	03/15/16	03/08/16	MEOH, Lot NA	1 mL	VMRPRIM_00015	1 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
							1,2,4-Trichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

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-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
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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
							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
.VMRPRIM_00015	06/30/16	01/30/16	MEOH, Lot 0000118655	50 mL	VM569720_00001	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,4-Trichlorobenzene	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.: 240-61965-1

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
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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
							Xylenes, Total	100 ug/mL
VM569721_00001					0.4 mL	2-Butanone (MEK)	100 ug/mL	
						2-Hexanone	100 ug/mL	
						4-Methyl-2-pentanone (MIBK)	100 ug/mL	
						Acetone	100 ug/mL	
..VM569720_00001	01/31/17		Restek, Lot A0108166			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..VM569721_00001	04/30/18		Restek, Lot A0110400			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
WC LCS_00042	07/14/16	01/14/16	DIWATER, Lot 222	1 L	WCWIBBYDEMAND_00007	1000 mL	TOC Result 1	69.3 mg/L
							Total Organic Carbon	69.3 mg/L
.WCWIBBYDEMAND_00007	06/30/18		Phenova, Lot 8157-07			(Purchased Reagent)	TOC Result 1	69.3 mL
							Total Organic Carbon	69.3 mL
WC LCS_00043	07/14/16	01/14/16	DIWATER, Lot 222	1 L	WCWIBBYDEMAND_00007	1000 mL	TOC Result 1	69.3 mg/L
							Total Organic Carbon	69.3 mg/L
.WCWIBBYDEMAND_00007	06/30/18		Phenova, Lot 8157-07			(Purchased Reagent)	TOC Result 1	69.3 mL
							Total Organic Carbon	69.3 mL
WC TOC CCV_00290	03/18/16	03/11/16	DIWATER, Lot 2222	250 mL	WCCARBON1000_00027	6.25 mL	TOC Result 1	25 mg/L
							Total Organic Carbon	25 mg/L
.WCCARBON1000_00027	11/02/17		Absolute Standards, Lot 110215			(Purchased Reagent)	TOC Result 1	1000 mg/L
							Total Organic Carbon	1000 mg/L
WC TOC CCVL_00084	03/18/16	03/11/16	DIWATER, Lot xxx	250 mL	WCCARBON1000_00027	1.25 mL	TOC Result 1	5 mg/L
							Total Organic Carbon	5 mg/L
.WCCARBON1000_00027	11/02/17		Absolute Standards, Lot 110215			(Purchased Reagent)	TOC Result 1	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Total Organic Carbon	1000 mg/L
WCICCALSO LN_00248	02/06/16	01/06/16	ELUENT, Lot 1847588	20 mL	WCICSOLNA1_00013	1.6 mL	Bromide	40 mg/L
							Chloride	200 mg/L
							Fluoride	10 mg/L
							Sulfate	200 mg/L
.WCICSOLNA1_00013	11/01/15		Inorganic Ventures, Lot H2-MEB547056		(Purchased Reagent)		Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Sulfate	2500 ug/mL
WCICCALSO LN_00249	04/10/16	03/10/16	ELUENT, Lot 2372329	20 mL	WCICSOLNA1_00014	1.6 mL	Bromide	40 mg/L
							Chloride	200 mg/L
							Fluoride	10 mg/L
							Sulfate	200 mg/L
.WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142		(Purchased Reagent)		Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Sulfate	2500 ug/mL
WCICCCV_00653	03/17/16	03/10/16	ELUENT, Lot 2372329	100 mL	WCICSOLNA1_00014	2 mL	Sulfate	50 mg/L
.WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142		(Purchased Reagent)		Sulfate	2500 ug/mL
WCICCCV_00655	03/22/16	03/15/16	ELUENT, Lot 2372329	100 mL	WCICSOLNA1_00014	2 mL	Sulfate	50 mg/L
.WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142		(Purchased Reagent)		Sulfate	2500 ug/mL
WCICLCS_00477	01/13/16	01/06/16	ELUENT, Lot 2259493	100 mL	WCICSOLNA2_00015	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00015	08/27/16		High Purity Standards, Lot 1523752		(Purchased Reagent)		Sulfate	500 ug/mL
WCICLCS_00497	03/17/16	03/10/16	ELUENT, Lot 2372329	100 mL	WCICSOLNA2_00015	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00015	08/27/16		High Purity Standards, Lot 1523752		(Purchased Reagent)		Sulfate	500 ug/mL
WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142		(Purchased Reagent)		Sulfate	2500 ug/mL
WCPHENOMINER_00014	09/30/17		PHENOVA-WIBBY, Lot 8149-08		(Purchased Reagent)		Alkalinity	284 mg/L
WCPHENOV SOLID_00014	06/30/18		PHENOVA- WIBBY, Lot 8157-09		(Purchased Reagent)		Total Dissolved Solids	281 mg/L

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

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-030916	240-61965-1	103	106	100	101
MW-81B-030916	240-61965-2	93	90	97	97
NMW-1I-030916	240-61965-3	102	104	101	103
NMW-2I-030916	240-61965-4	101	106	99	104
NMW-2S-030916	240-61965-5	100	106	102	103
NMW-3I-030916	240-61965-6	100	106	102	101
	MB 240-221416/32	100	103	99	103
	MB 240-221626/6	93	88	95	94
	LCS 240-221416/5	98	96	97	111
	LCS 240-221626/4	97	88	99	97
	240-61898-B-1 MS	99	102	103	108
	240-61898-B-1 MSD	98	102	103	107

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

QC LIMITS
79-120
78-125
80-120
61-120

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.: 240-61965-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXC6429.D

Lab ID: LCS 240-221416/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	9.86	99	77-123	
1,1,2,2-Tetrachloroethane	10.0	10.8	108	71-123	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.2	112	67-138	
1,1,2-Trichloroethane	10.0	10.3	103	80-120	
1,1-Dichloroethane	10.0	9.83	98	79-125	
1,1-Dichloroethene	10.0	10.6	106	76-124	
1,2,4-Trichlorobenzene	10.0	9.45	95	61-120	
1,2-Dibromo-3-Chloropropane	10.0	11.1	111	50-132	
Ethylene Dibromide	10.0	10.8	108	80-120	
1,2-Dichlorobenzene	10.0	9.90	99	79-120	
1,2-Dichloroethane	10.0	10.4	104	80-120	
1,2-Dichloropropane	10.0	10.1	101	78-124	
1,3-Dichlorobenzene	10.0	9.75	98	79-120	
1,4-Dichlorobenzene	10.0	9.84	98	79-120	
2-Butanone (MEK)	20.0	20.9	104	56-138	
2-Hexanone	20.0	21.9	109	55-141	
4-Methyl-2-pentanone (MIBK)	20.0	23.2	116	64-135	
Acetone	20.0	16.4	82	34-148	
Benzene	10.0	10.1	101	80-120	
Dichlorobromomethane	10.0	10.1	101	80-120	
Bromoform	10.0	12.2	122	56-122	
Bromomethane	10.0	6.98	70	38-132	
Carbon disulfide	10.0	10.3	103	65-144	
Carbon tetrachloride	10.0	10.5	105	77-131	
Chlorobenzene	10.0	10.1	101	80-120	
Chloroethane	10.0	6.09	61	36-126	
Chloroform	10.0	10.3	103	80-120	
Chloromethane	10.0	9.53	95	48-133	
cis-1,2-Dichloroethene	10.0	10.4	104	79-120	
cis-1,3-Dichloropropene	10.0	10.0	100	74-126	
Cyclohexane	10.0	10.7	107	60-140	
Chlorodibromomethane	10.0	10.6	106	74-120	
Dichlorodifluoromethane	10.0	6.16	62	23-136	
Ethylbenzene	10.0	10.2	102	80-120	
Isopropylbenzene	10.0	10.6	106	77-120	
Methyl acetate	50.0	57.6	115	67-131	
Methyl tert-butyl ether	10.0	10.0	100	69-121	
Methylcyclohexane	10.0	10.5	105	61-134	
Methylene Chloride	10.0	11.2	112	77-129	
Styrene	10.0	10.5	105	76-122	
Tetrachloroethene	10.0	10.0	100	78-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXC6429.D

Lab ID: LCS 240-221416/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	10.0	10.1	101	80-120	
trans-1,2-Dichloroethene	10.0	10.5	105	80-124	
trans-1,3-Dichloropropene	10.0	9.83	98	75-131	
Trichloroethene	10.0	10.5	105	80-121	
Trichlorofluoromethane	10.0	8.67	87	61-133	
Vinyl chloride	10.0	9.34	93	52-121	
Xylenes, Total	20.0	20.6	103	80-120	
m-Xylene & p-Xylene	10.0	10.3	103	80-120	
o-Xylene	10.0	10.3	103	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXJ3197.D

Lab ID: LCS 240-221626/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	9.60	96	77-123	
1,1,2,2-Tetrachloroethane	10.0	10.3	103	71-123	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.83	88	67-138	
1,1,2-Trichloroethane	10.0	9.74	97	80-120	
1,1-Dichloroethane	10.0	9.82	98	79-125	
1,1-Dichloroethene	10.0	10.5	105	76-124	
1,2,4-Trichlorobenzene	10.0	8.29	83	61-120	
1,2-Dibromo-3-Chloropropane	10.0	12.0	120	50-132	
Ethylene Dibromide	10.0	9.66	97	80-120	
1,2-Dichlorobenzene	10.0	9.22	92	79-120	
1,2-Dichloroethane	10.0	9.23	92	80-120	
1,2-Dichloropropane	10.0	10.2	102	78-124	
1,3-Dichlorobenzene	10.0	9.32	93	79-120	
1,4-Dichlorobenzene	10.0	9.20	92	79-120	
2-Butanone (MEK)	20.0	18.0	90	56-138	
2-Hexanone	20.0	18.9	95	55-141	
4-Methyl-2-pentanone (MIBK)	20.0	20.6	103	64-135	
Acetone	20.0	13.6	68	34-148	
Benzene	10.0	10.0	100	80-120	
Dichlorobromomethane	10.0	10.0	100	80-120	
Bromoform	10.0	11.6	116	56-122	
Bromomethane	10.0	7.50	75	38-132	
Carbon disulfide	10.0	11.3	113	65-144	
Carbon tetrachloride	10.0	10.6	106	77-131	
Chlorobenzene	10.0	9.35	93	80-120	
Chloroethane	10.0	7.56	76	36-126	
Chloroform	10.0	9.59	96	80-120	
Chloromethane	10.0	10.3	103	48-133	
cis-1,2-Dichloroethene	10.0	9.99	100	79-120	
cis-1,3-Dichloropropene	10.0	10.6	106	74-126	
Cyclohexane	10.0	9.80	98	60-140	
Chlorodibromomethane	10.0	10.6	106	74-120	
Dichlorodifluoromethane	10.0	6.52	65	23-136	
Ethylbenzene	10.0	9.23	92	80-120	
Isopropylbenzene	10.0	8.77	88	77-120	
Methyl acetate	50.0	50.6	101	67-131	
Methyl tert-butyl ether	10.0	10.3	103	69-121	
Methylcyclohexane	10.0	9.84	98	61-134	
Methylene Chloride	10.0	10.5	105	77-129	
Styrene	10.0	8.94	89	76-122	
Tetrachloroethene	10.0	9.32	93	78-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXJ3197.D

Lab ID: LCS 240-221626/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	10.0	9.54	95	80-120	
trans-1,2-Dichloroethene	10.0	10.3	103	80-124	
trans-1,3-Dichloropropene	10.0	10.4	104	75-131	
Trichloroethene	10.0	9.97	100	80-121	
Trichlorofluoromethane	10.0	7.19	72	61-133	
Vinyl chloride	10.0	9.45	95	52-121	
Xylenes, Total	20.0	18.5	93	80-120	
m-Xylene & p-Xylene	10.0	9.28	93	80-120	
o-Xylene	10.0	9.26	93	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXC6452.D
 Lab ID: 240-61898-B-1 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	5.0 U	45.5	91	69-122	
1,1,2,2-Tetrachloroethane	50.0	110	160	107	61-130	
1,1,2-Trichloroethane	50.0	5.0 U	56.0	112	72-125	
1,1-Dichloroethane	50.0	5.0 U	47.5	95	73-124	
1,1-Dichloroethene	50.0	5.0 U	49.6	99	67-124	
1,2-Dichlorobenzene	50.0	5.0 U	49.5	99	67-118	
1,4-Dichlorobenzene	50.0	5.0 U	48.4	97	66-120	
Benzene	50.0	5.0 U	49.0	98	73-121	
Carbon tetrachloride	50.0	5.0 U	48.2	96	65-129	
Chlorobenzene	50.0	5.0 U	51.0	102	72-120	
Chloroform	50.0	9.5	59.2	100	73-121	
Chloromethane	50.0	5.0 U	53.9	108	39-134	
cis-1,2-Dichloroethene	50.0	62	111	99	66-124	
Methylene Chloride	50.0	2.6 J	53.0	101	70-124	
Tetrachloroethene	50.0	46	92.1	93	59-125	
Toluene	50.0	5.0 U	51.0	102	72-122	
trans-1,2-Dichloroethene	50.0	2.0 J	51.6	99	72-125	
Trichloroethene	50.0	86	128	85	61-129	
Vinyl chloride	50.0	5.0 U	38.6	77	44-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXC6453.D
 Lab ID: 240-61898-B-1 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	50.0	46.6	93	2	14	69-122	
1,1,2,2-Tetrachloroethane	50.0	165	116	3	18	61-130	
1,1,2-Trichloroethane	50.0	54.5	109	3	19	72-125	
1,1-Dichloroethane	50.0	48.4	97	2	14	73-124	
1,1-Dichloroethene	50.0	50.6	101	2	24	67-124	
1,2-Dichlorobenzene	50.0	48.5	97	2	15	67-118	
1,4-Dichlorobenzene	50.0	49.0	98	1	16	66-120	
Benzene	50.0	49.0	98	0	13	73-121	
Carbon tetrachloride	50.0	49.2	98	2	20	65-129	
Chlorobenzene	50.0	49.9	100	2	15	72-120	
Chloroform	50.0	59.5	100	0	17	73-121	
Chloromethane	50.0	47.8	96	12	20	39-134	
cis-1,2-Dichloroethene	50.0	110	96	1	22	66-124	
Methylene Chloride	50.0	53.5	102	1	14	70-124	
Tetrachloroethene	50.0	91.9	92	0	20	59-125	
Toluene	50.0	50.9	102	0	15	72-122	
trans-1,2-Dichloroethene	50.0	52.2	101	1	25	72-125	
Trichloroethene	50.0	127	82	1	14	61-129	
Vinyl chloride	50.0	37.9	76	2	35	44-122	

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.: 240-61965-1
 SDG No.: _____
 Lab File ID: UXC6434.D Lab Sample ID: MB 240-221416/32
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX15 Date Analyzed: 03/14/2016 12:03
 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 240-221416/5	UXC6429.D	03/14/2016 10:08
TB-030916	240-61965-1	UXC6442.D	03/14/2016 15:04
NMW-1I-030916	240-61965-3	UXC6444.D	03/14/2016 15:50
NMW-2I-030916	240-61965-4	UXC6445.D	03/14/2016 16:12
NMW-2S-030916	240-61965-5	UXC6446.D	03/14/2016 16:35
NMW-3I-030916	240-61965-6	UXC6447.D	03/14/2016 16:58
	240-61898-B-1 MS	UXC6452.D	03/14/2016 18:50
	240-61898-B-1 MSD	UXC6453.D	03/14/2016 19:12

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab File ID: UXJ3200.D Lab Sample ID: MB 240-221626/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX11 Date Analyzed: 03/15/2016 11:33
 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 240-221626/4	UXJ3197.D	03/15/2016 10:24
MW-81B-030916	240-61965-2	UXJ3201.D	03/15/2016 11:55

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab File ID: BFB6129.D BFB Injection Date: 01/29/2016
 Instrument ID: A3UX11 BFB Injection Time: 11:47
 Analysis Batch No.: 215848

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.9
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	6.5
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	89.6
175	5.0 - 9.0 % of mass 174	7.8 (8.8) 1
176	95.0 - 101.0 % of mass 174	89.2 (99.6) 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
	STD8260 240-215848/2	UXJ2365.D	01/29/2016	12:13
	STD8260 240-215848/3	UXJ2366.D	01/29/2016	12:35
	STD8260 240-215848/4	UXJ2367.D	01/29/2016	12:58
	STD8260 240-215848/5	UXJ2368.D	01/29/2016	13:20
	STD8260 240-215848/6	UXJ2369.D	01/29/2016	13:42
	STD8260 240-215848/7	UXJ2370.D	01/29/2016	14:05
	ICV 240-215848/14	UXJ2371.D	01/29/2016	14:27
	ICV 240-215848/15	UXJ2378.D	01/29/2016	17:04

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab File ID: BFB6315.D BFB Injection Date: 03/15/2016
 Instrument ID: A3UX11 BFB Injection Time: 09:20
 Analysis Batch No.: 221626

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.8	
75	30.0 - 60.0 % of mass 95	48.0	
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	87.5	
175	5.0 - 9.0 % of mass 174	6.4	(7.3) 1
176	95.0 - 101.0 % of mass 174	87.0	(99.4) 1
177	5.0 - 9.0 % of mass 176	5.5	(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 240-221626/2	UXJ3196.D	03/15/2016	10:02
	LCS 240-221626/4	UXJ3197.D	03/15/2016	10:24
	CCV 240-221626/3	UXJ3198.D	03/15/2016	10:47
	MB 240-221626/6	UXJ3200.D	03/15/2016	11:33
MW-81B-030916	240-61965-2	UXJ3201.D	03/15/2016	11:55

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab File ID: BFB526.D BFB Injection Date: 02/22/2016
 Instrument ID: A3UX15 BFB Injection Time: 10:38
 Analysis Batch No.: 218452

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	93.0	
175	5.0 - 9.0 % of mass 174	6.2	(6.7) 1
176	95.0 - 101.0 % of mass 174	90.9	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.9	(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
	STD8260 240-218452/2	UXC5995.D	02/22/2016	11:17
	STD8260 240-218452/3	UXC5996.D	02/22/2016	11:40
	STD8260 240-218452/4	UXC5997.D	02/22/2016	12:03
	STD8260 240-218452/5	UXC5998.D	02/22/2016	12:25
	STD8260 240-218452/6	UXC5999.D	02/22/2016	12:48
	STD8260 240-218452/7	UXC6000.D	02/22/2016	13:11
	ICV 240-218452/14	UXC6001.D	02/22/2016	13:33
	ICV 240-218452/15	UXC6008.D	02/22/2016	16:12

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab File ID: BFB541.D BFB Injection Date: 03/14/2016
 Instrument ID: A3UX15 BFB Injection Time: 09:10
 Analysis Batch No.: 221416

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	6.4
173	Less than 2.0 % of mass 174	0.3 (0.4) 1
174	50.0 - 120.00 % of mass 95	83.2
175	5.0 - 9.0 % of mass 174	5.6 (6.8) 1
176	95.0 - 101.0 % of mass 174	81.9 (98.4) 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
	LCS 240-221416/5	UXC6429.D	03/14/2016	10:08
	CCVIS 240-221416/2	UXC6430.D	03/14/2016	10:31
	CCV 240-221416/3	UXC6431.D	03/14/2016	10:53
	MB 240-221416/32	UXC6434.D	03/14/2016	12:03
TB-030916	240-61965-1	UXC6442.D	03/14/2016	15:04
NMW-1I-030916	240-61965-3	UXC6444.D	03/14/2016	15:50
NMW-2I-030916	240-61965-4	UXC6445.D	03/14/2016	16:12
NMW-2S-030916	240-61965-5	UXC6446.D	03/14/2016	16:35
NMW-3I-030916	240-61965-6	UXC6447.D	03/14/2016	16:58
	240-61898-B-1 MS	UXC6452.D	03/14/2016	18:50
	240-61898-B-1 MSD	UXC6453.D	03/14/2016	19:12

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Sample No.: STD8260 240-215848/4 Date Analyzed: 01/29/2016 12:58
 Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXJ2367.D Heated Purge: (Y/N) N
 Calibration ID: 32819

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1563623	5.12	981170	7.78	372510	10.01
UPPER LIMIT	3127246	5.62	1962340	8.28	745020	10.51
LOWER LIMIT	781812	4.62	490585	7.28	186255	9.51
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 240-215848/14	1568553	5.12	999814	7.78	385060	10.01
ICV 240-215848/15	1475169	5.12	920440	7.78	342017	10.01
CCVIS 240-221626/2	2527288	5.12	1480650	7.78	519517	10.01

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Sample No.: CCVIS 240-221626/2 Date Analyzed: 03/15/2016 10:02
 Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXJ3196.D Heated Purge: (Y/N) N
 Calibration ID: 32823

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	2527288	5.12	1480650	7.78	519517	10.01	
UPPER LIMIT	5054576	5.62	2961300	8.28	1039034	10.51	
LOWER LIMIT	1263644	4.62	740325	7.28	259759	9.51	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-221626/4	2186585	5.12	1369404	7.78	478879	10.03	
CCV 240-221626/3	1990082	5.12	1271691	7.78	423540	10.01	
MB 240-221626/6	2027359	5.12	1328877	7.78	456682	10.01	
240-61965-2	MW-81B-030916	2073252	5.12	1319545	7.78	448168	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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Sample No.: STD8260 240-218452/4 Date Analyzed: 02/22/2016 12:03
 Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXC5997.D Heated Purge: (Y/N) N
 Calibration ID: 33193

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1444383	5.15	1116841	7.81	621975	10.04
UPPER LIMIT	2888766	5.65	2233682	8.31	1243950	10.54
LOWER LIMIT	722192	4.65	558421	7.31	310988	9.54
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 240-218452/14	1422706	5.15	1077349	7.81	586913	10.04
ICV 240-218452/15	1198976	5.15	961510	7.81	462476	10.04
CCVIS 240-221416/2	1321117	5.15	1001441	7.81	528191	10.04

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Sample No.: CCVIS 240-221416/2 Date Analyzed: 03/14/2016 10:31
 Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXC6430.D Heated Purge: (Y/N) N
 Calibration ID: 33195

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1321117	5.15	1001441	7.81	528191	10.04	
UPPER LIMIT	2642234	5.65	2002882	8.31	1056382	10.54	
LOWER LIMIT	660559	4.65	500721	7.31	264096	9.54	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-221416/3		1346737	5.15	1072650	7.81	572076	10.04
MB 240-221416/32		1312335	5.15	956240	7.81	499236	10.04
240-61965-1	TB-030916	1199011	5.15	875056	7.81	443236	10.04
240-61965-3	NMW-1I-030916	1267745	5.15	904125	7.81	453236	10.04
240-61965-4	NMW-2I-030916	1243486	5.15	896227	7.81	449555	10.04
240-61965-5	NMW-2S-030916	1225478	5.15	862442	7.81	429692	10.04
240-61965-6	NMW-3I-030916	1222394	5.15	867970	7.81	422490	10.04
240-61898-B-1 MS		1304185	5.15	939619	7.81	531172	10.04
240-61898-B-1 MSD		1345839	5.15	964091	7.81	516834	10.04

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: TB-030916 Lab Sample ID: 240-61965-1
 Matrix: Water Lab File ID: UXC6442.D
 Analysis Method: 8260C Date Collected: 03/09/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 15:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	0.47	J	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: TB-030916 Lab Sample ID: 240-61965-1
 Matrix: Water Lab File ID: UXC6442.D
 Analysis Method: 8260C Date Collected: 03/09/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 15:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120
460-00-4	4-Bromofluorobenzene (Surr)	101		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: MW-81B-030916 Lab Sample ID: 240-61965-2
 Matrix: Water Lab File ID: UXJ3201.D
 Analysis Method: 8260C Date Collected: 03/09/2016 09:20
 Sample wt/vol: 5 (mL) Date Analyzed: 03/15/2016 11:55
 Soil Aliquot Vol: _____ Dilution Factor: 2.5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221626 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.5	U	2.5	1.1
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.55
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U	2.5	1.1
79-00-5	1,1,2-Trichloroethane	2.5	U	2.5	0.60
75-34-3	1,1-Dichloroethane	2.5	U	2.5	0.75
75-35-4	1,1-Dichloroethene	2.5	U	2.5	1.1
120-82-1	1,2,4-Trichlorobenzene	2.5	U	2.5	0.80
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.1
106-93-4	Ethylene Dibromide	2.5	U	2.5	0.80
95-50-1	1,2-Dichlorobenzene	2.5	U	2.5	0.63
107-06-2	1,2-Dichloroethane	0.60	J	2.5	0.58
78-87-5	1,2-Dichloropropane	2.5	U	2.5	0.63
541-73-1	1,3-Dichlorobenzene	2.5	U	2.5	0.48
106-46-7	1,4-Dichlorobenzene	2.5	U	2.5	0.68
78-93-3	2-Butanone (MEK)	4.8	J	25	1.3
591-78-6	2-Hexanone	25	U	25	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	2.5
67-64-1	Acetone	13	J	25	2.4
71-43-2	Benzene	2.4	J	2.5	0.88
75-27-4	Dichlorobromomethane	2.5	U	2.5	0.73
75-25-2	Bromoform	2.5	U	2.5	1.4
74-83-9	Bromomethane	2.5	U	2.5	1.1
75-15-0	Carbon disulfide	2.5	U	2.5	0.95
56-23-5	Carbon tetrachloride	2.5	U	2.5	1.1
108-90-7	Chlorobenzene	2.5	U	2.5	0.63
75-00-3	Chloroethane	21		2.5	0.80
67-66-3	Chloroform	2.5	U	2.5	0.63
74-87-3	Chloromethane	2.5	U	2.5	1.1
156-59-2	cis-1,2-Dichloroethene	46		2.5	0.65
10061-01-5	cis-1,3-Dichloropropene	2.5	U	2.5	1.2
110-82-7	Cyclohexane	2.5	U	2.5	1.1
124-48-1	Chlorodibromomethane	2.5	U	2.5	1.1
75-71-8	Dichlorodifluoromethane	2.5	U	2.5	0.80
100-41-4	Ethylbenzene	2.5	U	2.5	0.63
98-82-8	Isopropylbenzene	2.5	U	2.5	0.88

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: MW-81B-030916 Lab Sample ID: 240-61965-2
 Matrix: Water Lab File ID: UXJ3201.D
 Analysis Method: 8260C Date Collected: 03/09/2016 09:20
 Sample wt/vol: 5 (mL) Date Analyzed: 03/15/2016 11:55
 Soil Aliquot Vol: _____ Dilution Factor: 2.5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221626 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	25	U	25	5.7
1634-04-4	Methyl tert-butyl ether	2.5	U	2.5	0.50
108-87-2	Methylcyclohexane	2.5	U	2.5	1.1
75-09-2	Methylene Chloride	1.0	J B	2.5	0.83
100-42-5	Styrene	2.5	U	2.5	1.1
127-18-4	Tetrachloroethene	2.5	U	2.5	0.78
108-88-3	Toluene	2.5	U	2.5	0.58
156-60-5	trans-1,2-Dichloroethene	11		2.5	0.75
10061-02-6	trans-1,3-Dichloropropene	2.5	U	2.5	1.4
79-01-6	Trichloroethene	4.4		2.5	0.55
75-69-4	Trichlorofluoromethane	2.5	U	2.5	1.2
75-01-4	Vinyl chloride	48		2.5	0.73
1330-20-7	Xylenes, Total	2.0	J	5.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120
460-00-4	4-Bromofluorobenzene (Surr)	97		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-1I-030916 Lab Sample ID: 240-61965-3
 Matrix: Water Lab File ID: UXC6444.D
 Analysis Method: 8260C Date Collected: 03/09/2016 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 15:50
 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.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	50	U	50	22
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U	50	23
79-00-5	1,1,2-Trichloroethane	50	U	50	12
75-34-3	1,1-Dichloroethane	50	U	50	15
75-35-4	1,1-Dichloroethene	31	J	50	23
120-82-1	1,2,4-Trichlorobenzene	50	U	50	16
96-12-8	1,2-Dibromo-3-Chloropropane	100	U	100	41
106-93-4	Ethylene Dibromide	50	U	50	16
95-50-1	1,2-Dichlorobenzene	50	U	50	13
107-06-2	1,2-Dichloroethane	50	U	50	12
78-87-5	1,2-Dichloropropane	50	U	50	13
541-73-1	1,3-Dichlorobenzene	50	U	50	9.5
106-46-7	1,4-Dichlorobenzene	50	U	50	14
78-93-3	2-Butanone (MEK)	500	U	500	27
591-78-6	2-Hexanone	500	U	500	24
108-10-1	4-Methyl-2-pentanone (MIBK)	500	U	500	50
67-64-1	Acetone	500	U	500	47
71-43-2	Benzene	50	U	50	18
75-27-4	Dichlorobromomethane	50	U	50	15
75-25-2	Bromoform	50	U	50	28
74-83-9	Bromomethane	50	U	50	22
75-15-0	Carbon disulfide	50	U	50	19
56-23-5	Carbon tetrachloride	50	U	50	22
108-90-7	Chlorobenzene	50	U	50	13
75-00-3	Chloroethane	50	U	50	16
67-66-3	Chloroform	50	U	50	13
74-87-3	Chloromethane	50	U	50	22
156-59-2	cis-1,2-Dichloroethene	1100		50	13
10061-01-5	cis-1,3-Dichloropropene	50	U	50	23
110-82-7	Cyclohexane	50	U	50	23
124-48-1	Chlorodibromomethane	50	U	50	22
75-71-8	Dichlorodifluoromethane	50	U	50	16
100-41-4	Ethylbenzene	50	U	50	13
98-82-8	Isopropylbenzene	50	U	50	18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-1I-030916 Lab Sample ID: 240-61965-3
 Matrix: Water Lab File ID: UXC6444.D
 Analysis Method: 8260C Date Collected: 03/09/2016 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 15:50
 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.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	500	U	500	110
1634-04-4	Methyl tert-butyl ether	50	U	50	10
108-87-2	Methylcyclohexane	50	U	50	22
75-09-2	Methylene Chloride	32	J B	50	17
100-42-5	Styrene	50	U	50	23
127-18-4	Tetrachloroethene	50	U	50	16
108-88-3	Toluene	50	U	50	12
156-60-5	trans-1,2-Dichloroethene	50	U	50	15
10061-02-6	trans-1,3-Dichloropropene	50	U	50	28
79-01-6	Trichloroethene	71		50	11
75-69-4	Trichlorofluoromethane	50	U	50	25
75-01-4	Vinyl chloride	42	J	50	15
1330-20-7	Xylenes, Total	100	U	100	26

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		79-120
460-00-4	4-Bromofluorobenzene (Surr)	103		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-2I-030916 Lab Sample ID: 240-61965-4
 Matrix: Water Lab File ID: UXC6445.D
 Analysis Method: 8260C Date Collected: 03/09/2016 12:35
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:12
 Soil Aliquot Vol: _____ Dilution Factor: 333.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	330	U	330	150
79-34-5	1,1,2,2-Tetrachloroethane	330	U	330	73
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	330	U	330	150
79-00-5	1,1,2-Trichloroethane	330	U	330	80
75-34-3	1,1-Dichloroethane	330	U	330	100
75-35-4	1,1-Dichloroethene	330	U	330	150
120-82-1	1,2,4-Trichlorobenzene	330	U	330	110
96-12-8	1,2-Dibromo-3-Chloropropane	670	U	670	270
106-93-4	Ethylene Dibromide	330	U	330	110
95-50-1	1,2-Dichlorobenzene	330	U	330	83
107-06-2	1,2-Dichloroethane	330	U	330	77
78-87-5	1,2-Dichloropropane	330	U	330	83
541-73-1	1,3-Dichlorobenzene	330	U	330	63
106-46-7	1,4-Dichlorobenzene	330	U	330	90
78-93-3	2-Butanone (MEK)	3300	U	3300	180
591-78-6	2-Hexanone	3300	U	3300	160
108-10-1	4-Methyl-2-pentanone (MIBK)	3300	U	3300	330
67-64-1	Acetone	3300	U	3300	310
71-43-2	Benzene	330	U	330	120
75-27-4	Dichlorobromomethane	330	U	330	97
75-25-2	Bromoform	330	U	330	190
74-83-9	Bromomethane	330	U	330	150
75-15-0	Carbon disulfide	330	U	330	130
56-23-5	Carbon tetrachloride	330	U	330	140
108-90-7	Chlorobenzene	330	U	330	83
75-00-3	Chloroethane	330	U	330	110
67-66-3	Chloroform	330	U	330	83
74-87-3	Chloromethane	330	U	330	150
156-59-2	cis-1,2-Dichloroethene	6500		330	87
10061-01-5	cis-1,3-Dichloropropene	330	U	330	150
110-82-7	Cyclohexane	330	U	330	150
124-48-1	Chlorodibromomethane	330	U	330	140
75-71-8	Dichlorodifluoromethane	330	U	330	110
100-41-4	Ethylbenzene	330	U	330	83
98-82-8	Isopropylbenzene	330	U	330	120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-2I-030916 Lab Sample ID: 240-61965-4
 Matrix: Water Lab File ID: UXC6445.D
 Analysis Method: 8260C Date Collected: 03/09/2016 12:35
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:12
 Soil Aliquot Vol: _____ Dilution Factor: 333.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	3300	U	3300	760
1634-04-4	Methyl tert-butyl ether	330	U	330	67
108-87-2	Methylcyclohexane	330	U	330	140
75-09-2	Methylene Chloride	230	J B	330	110
100-42-5	Styrene	330	U	330	150
127-18-4	Tetrachloroethene	330	U	330	100
108-88-3	Toluene	330	U	330	77
156-60-5	trans-1,2-Dichloroethene	330	U	330	100
10061-02-6	trans-1,3-Dichloropropene	330	U	330	190
79-01-6	Trichloroethene	2300		330	73
75-69-4	Trichlorofluoromethane	330	U	330	160
75-01-4	Vinyl chloride	530		330	97
1330-20-7	Xylenes, Total	670	U	670	170

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		79-120
460-00-4	4-Bromofluorobenzene (Surr)	104		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-2S-030916 Lab Sample ID: 240-61965-5
 Matrix: Water Lab File ID: UXC6446.D
 Analysis Method: 8260C Date Collected: 03/09/2016 12:45
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:35
 Soil Aliquot Vol: _____ Dilution Factor: 33.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	33	U	33	15
79-34-5	1,1,2,2-Tetrachloroethane	33	U	33	7.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	33	U	33	15
79-00-5	1,1,2-Trichloroethane	33	U	33	8.0
75-34-3	1,1-Dichloroethane	33	U	33	10
75-35-4	1,1-Dichloroethene	33	U	33	15
120-82-1	1,2,4-Trichlorobenzene	33	U	33	11
96-12-8	1,2-Dibromo-3-Chloropropane	67	U	67	27
106-93-4	Ethylene Dibromide	33	U	33	11
95-50-1	1,2-Dichlorobenzene	33	U	33	8.3
107-06-2	1,2-Dichloroethane	33	U	33	7.7
78-87-5	1,2-Dichloropropane	33	U	33	8.3
541-73-1	1,3-Dichlorobenzene	33	U	33	6.3
106-46-7	1,4-Dichlorobenzene	33	U	33	9.0
78-93-3	2-Butanone (MEK)	330	U	330	18
591-78-6	2-Hexanone	330	U	330	16
108-10-1	4-Methyl-2-pentanone (MIBK)	330	U	330	33
67-64-1	Acetone	330	U	330	31
71-43-2	Benzene	33	U	33	12
75-27-4	Dichlorobromomethane	33	U	33	9.7
75-25-2	Bromoform	33	U	33	19
74-83-9	Bromomethane	33	U	33	15
75-15-0	Carbon disulfide	33	U	33	13
56-23-5	Carbon tetrachloride	33	U	33	14
108-90-7	Chlorobenzene	33	U	33	8.3
75-00-3	Chloroethane	33	U	33	11
67-66-3	Chloroform	33	U	33	8.3
74-87-3	Chloromethane	33	U	33	15
156-59-2	cis-1,2-Dichloroethene	930		33	8.7
10061-01-5	cis-1,3-Dichloropropene	33	U	33	15
110-82-7	Cyclohexane	33	U	33	15
124-48-1	Chlorodibromomethane	33	U	33	14
75-71-8	Dichlorodifluoromethane	33	U	33	11
100-41-4	Ethylbenzene	33	U	33	8.3
98-82-8	Isopropylbenzene	33	U	33	12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-2S-030916 Lab Sample ID: 240-61965-5
 Matrix: Water Lab File ID: UXC6446.D
 Analysis Method: 8260C Date Collected: 03/09/2016 12:45
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:35
 Soil Aliquot Vol: _____ Dilution Factor: 33.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	330	U	330	76
1634-04-4	Methyl tert-butyl ether	33	U	33	6.7
108-87-2	Methylcyclohexane	33	U	33	14
75-09-2	Methylene Chloride	23	J B	33	11
100-42-5	Styrene	33	U	33	15
127-18-4	Tetrachloroethene	33	U	33	10
108-88-3	Toluene	33	U	33	7.7
156-60-5	trans-1,2-Dichloroethene	33	U	33	10
10061-02-6	trans-1,3-Dichloropropene	33	U	33	19
79-01-6	Trichloroethene	140		33	7.3
75-69-4	Trichlorofluoromethane	33	U	33	16
75-01-4	Vinyl chloride	210		33	9.7
1330-20-7	Xylenes, Total	67	U	67	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		79-120
460-00-4	4-Bromofluorobenzene (Surr)	103		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-3I-030916 Lab Sample ID: 240-61965-6
 Matrix: Water Lab File ID: UXC6447.D
 Analysis Method: 8260C Date Collected: 03/09/2016 13:40
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:58
 Soil Aliquot Vol: _____ Dilution Factor: 25
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25	U	25	11
79-34-5	1,1,2,2-Tetrachloroethane	25	U	25	5.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U	25	11
79-00-5	1,1,2-Trichloroethane	25	U	25	6.0
75-34-3	1,1-Dichloroethane	25	U	25	7.5
75-35-4	1,1-Dichloroethene	25	U	25	11
120-82-1	1,2,4-Trichlorobenzene	25	U	25	8.0
96-12-8	1,2-Dibromo-3-Chloropropane	50	U	50	21
106-93-4	Ethylene Dibromide	25	U	25	8.0
95-50-1	1,2-Dichlorobenzene	25	U	25	6.3
107-06-2	1,2-Dichloroethane	25	U	25	5.8
78-87-5	1,2-Dichloropropane	25	U	25	6.3
541-73-1	1,3-Dichlorobenzene	25	U	25	4.8
106-46-7	1,4-Dichlorobenzene	25	U	25	6.8
78-93-3	2-Butanone (MEK)	250	U	250	13
591-78-6	2-Hexanone	250	U	250	12
108-10-1	4-Methyl-2-pentanone (MIBK)	250	U	250	25
67-64-1	Acetone	250	U	250	24
71-43-2	Benzene	25	U	25	8.8
75-27-4	Dichlorobromomethane	25	U	25	7.3
75-25-2	Bromoform	25	U	25	14
74-83-9	Bromomethane	25	U	25	11
75-15-0	Carbon disulfide	25	U	25	9.5
56-23-5	Carbon tetrachloride	25	U	25	11
108-90-7	Chlorobenzene	25	U	25	6.3
75-00-3	Chloroethane	25	U	25	8.0
67-66-3	Chloroform	25	U	25	6.3
74-87-3	Chloromethane	25	U	25	11
156-59-2	cis-1,2-Dichloroethene	620		25	6.5
10061-01-5	cis-1,3-Dichloropropene	25	U	25	12
110-82-7	Cyclohexane	25	U	25	11
124-48-1	Chlorodibromomethane	25	U	25	11
75-71-8	Dichlorodifluoromethane	25	U	25	8.0
100-41-4	Ethylbenzene	25	U	25	6.3
98-82-8	Isopropylbenzene	25	U	25	8.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-3I-030916 Lab Sample ID: 240-61965-6
 Matrix: Water Lab File ID: UXC6447.D
 Analysis Method: 8260C Date Collected: 03/09/2016 13:40
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:58
 Soil Aliquot Vol: _____ Dilution Factor: 25
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	250	U	250	57
1634-04-4	Methyl tert-butyl ether	25	U	25	5.0
108-87-2	Methylcyclohexane	25	U	25	11
75-09-2	Methylene Chloride	16	J B	25	8.3
100-42-5	Styrene	25	U	25	11
127-18-4	Tetrachloroethene	25	U	25	7.8
108-88-3	Toluene	25	U	25	5.8
156-60-5	trans-1,2-Dichloroethene	18	J	25	7.5
10061-02-6	trans-1,3-Dichloropropene	25	U	25	14
79-01-6	Trichloroethene	18	J	25	5.5
75-69-4	Trichlorofluoromethane	25	U	25	12
75-01-4	Vinyl chloride	220		25	7.3
1330-20-7	Xylenes, Total	50	U	50	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		79-120
460-00-4	4-Bromofluorobenzene (Surr)	101		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		78-125

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 215848

SDG No.: _____

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

Calibration Start Date: 01/29/2016 12:13 Calibration End Date: 01/29/2016 14:05 Calibration ID: 32819

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-215848/7	UXJ2370.D
Level 2	STD8260 240-215848/6	UXJ2369.D
Level 3	STD8260 240-215848/5	UXJ2368.D
Level 4	STD8260 240-215848/4	UXJ2367.D
Level 5	STD8260 240-215848/3	UXJ2366.D
Level 6	STD8260 240-215848/2	UXJ2365.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	0.2063 0.2122	0.2411	0.2400	0.2484	0.2378	Ave		0.2310			0.1000	7.5		20.0			
Chloromethane	0.2731 0.2572	0.2890	0.3270	0.3144	0.2969	Ave		0.2930			0.1000	8.8		20.0			
Vinyl chloride	0.2851 0.2357	0.2822	0.2935	0.2932	0.2760	Ave		0.2776			0.1000	7.8		20.0			
Butadiene	0.2615 0.2437	0.2751	0.2891	0.2805	0.2492	Ave		0.2665				6.8		20.0			
Bromomethane	0.1426 0.1387	0.1576	0.1411	0.1563	0.1428	Ave		0.1465			0.0500	5.6		20.0			
Chloroethane	0.1799 0.1510	0.1675	0.1694	0.1699	0.1619	Ave		0.1666				5.8		20.0			
Dichlorofluoromethane	0.3744 0.3450	0.3615	0.3835	0.3938	0.3643	Ave		0.3704				4.7		20.0			
Trichlorofluoromethane	0.3540 0.3384	0.3543	0.3624	0.3740	0.3517	Ave		0.3558			0.1000	3.3		20.0			
Ethyl ether	0.2865 0.2499	0.2976	0.3004	0.3038	0.2894	Ave		0.2880				6.9		20.0			
Acrolein	0.0417 0.0320	0.0323	0.0358	0.0366	0.0355	Ave		0.0357				9.9		20.0			
1,1-Dichloroethene	0.2942 0.2789	0.3071	0.2956	0.3160	0.2854	Ave		0.2962			0.1000	4.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1814 0.1631	0.1872	0.1633	0.1764	0.1645	Ave		0.1726			0.0500	6.0		20.0			
Acetone	0.1372 0.0499	0.0841	0.0745	0.0725	0.0680	Qua	0.0323	0.0815	-0.000399		0.0500				0.9980		0.9900
Iodomethane	0.4695 0.4456	0.4790	0.4598	0.5041	0.4487	Ave		0.4678				4.7		20.0			
Carbon disulfide	0.8544 0.8495	0.8477	0.8579	0.9041	0.8417	Ave		0.8592			0.1000	2.6		20.0			

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.: 240-61965-1 Analy Batch No.: 215848

SDG No.: _____

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

Calibration Start Date: 01/29/2016 12:13 Calibration End Date: 01/29/2016 14:05 Calibration ID: 32819

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	0.2297 0.2484	0.2236	0.2341	0.2660	0.2457	Ave		0.2412			6.4		20.0				
Methyl acetate	0.1897 0.1643	0.1862	0.1842	0.1892	0.1780	Ave		0.1819		0.1000	5.3		20.0				
Methylene Chloride	0.3928 0.3171	0.3773	0.3382	0.3512	0.3273	Ave		0.3506		0.1000	8.4		20.0				
2-Methyl-2-propanol	0.0137 0.0128	0.0149	0.0160	0.0157	0.0146	Ave		0.0146			8.2		20.0				
Acrylonitrile	0.0899 0.0851	0.0944	0.0935	0.0958	0.0895	Ave		0.0914			4.3		20.0				
Methyl tert-butyl ether	0.8718 0.8460	0.8676	0.8947	0.9338	0.8975	Ave		0.8852		0.1000	3.4		20.0				
trans-1,2-Dichloroethene	0.3719 0.3517	0.3718	0.3685	0.3756	0.3622	Ave		0.3669		0.1000	2.4		20.0				
Hexane	0.0723 0.0799	0.0780	0.0792	0.0803	0.0748	Ave		0.0774			4.1		20.0				
1,1-Dichloroethane	0.6458 0.6188	0.6303	0.6280	0.6390	0.6188	Ave		0.6301		0.1000	1.7		20.0				
Vinyl acetate	0.5093 0.5354	0.4873	0.5036	0.5434	0.5415	Ave		0.5201			4.5		20.0				
2-Butanone (MEK)	0.1238 0.0919	0.1113	0.1077	0.1116	0.0988	Ave		0.1075		0.0500	10.3		20.0				
cis-1,2-Dichloroethene	0.3761 0.3637	0.3930	0.3779	0.3876	0.3665	Ave		0.3775		0.1000	3.0		20.0				
2,2-Dichloropropane	0.3175 0.3312	0.3127	0.3420	0.3594	0.3439	Ave		0.3344			5.2		20.0				
Chlorobromomethane	0.1798 0.1749	0.1844	0.1734	0.1838	0.1697	Ave		0.1777			3.3		20.0				
Tetrahydrofuran	0.0818 0.0609	0.0677	0.0676	0.0688	0.0623	Ave		0.0682			10.9		20.0				
Chloroform	0.5789 0.5738	0.5819	0.5787	0.5957	0.5702	Ave		0.5799			1.5		20.0				
1,1,1-Trichloroethane	0.4274 0.4449	0.4216	0.4279	0.4587	0.4352	Ave		0.4359		0.1000	3.1		20.0				
Cyclohexane	0.4735 0.4556	0.4592	0.4534	0.4713	0.4424	Ave		0.4592		0.1000	2.5		20.0				
1,1-Dichloropropene	0.4638 0.4519	0.4310	0.4367	0.4619	0.4313	Ave		0.4461			3.4		20.0				
Carbon tetrachloride	0.3469 0.3925	0.3428	0.3494	0.3781	0.3643	Ave		0.3623		0.1000	5.5		20.0				

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.: 240-61965-1 Analy Batch No.: 215848

SDG No.: _____

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

Calibration Start Date: 01/29/2016 12:13 Calibration End Date: 01/29/2016 14:05 Calibration ID: 32819

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	0.0072 0.0079	0.0073	0.0082	0.0088	0.0080	Ave		0.0079			7.4		20.0				
1,2-Dichloroethane	0.4732 0.4316	0.4390	0.4475	0.4552	0.4271	Ave		0.4456		0.1000	3.8		20.0				
Benzene	1.4995 1.4175	1.4484	1.3978	1.4523	1.3775	Ave		1.4322		0.5000	3.1		20.0				
n-Heptane	0.0819 0.0739	0.0706	0.0707	0.0680	0.0661	Ave		0.0719			7.8		20.0				
Trichloroethene	0.3677 0.3714	0.3732	0.3728	0.3799	0.3491	Ave		0.3690		0.2000	2.9		20.0				
Methylcyclohexane	0.4047 0.4246	0.4072	0.3993	0.4162	0.3859	Ave		0.4063		0.1000	3.3		20.0				
1,2-Dichloropropane	0.3137 0.3330	0.3348	0.3394	0.3474	0.3220	Ave		0.3317		0.1000	3.7		20.0				
Dibromomethane	0.1865 0.1745	0.1726	0.1701	0.1822	0.1655	Ave		0.1752			4.5		20.0				
1,4-Dioxane	0.0017 0.0020	0.0017	0.0021	0.0023	0.0021	Ave		0.0020			11.7		20.0				
Dichlorobromomethane	0.3633 0.4152	0.3635	0.3733	0.3914	0.3773	Ave		0.3807		0.1000	5.2		20.0				
2-Chloroethyl vinyl ether	0.1953 0.1891	0.1824	0.1977	0.1983	0.1848	Ave		0.1913			3.6		20.0				
cis-1,3-Dichloropropene	0.4433 0.5262	0.4388	0.4658	0.5083	0.4856	Ave		0.4780		0.1500	7.4		20.0				
4-Methyl-2-pentanone (MIBK)	0.2106 0.2173	0.2182	0.2281	0.2297	0.2124	Ave		0.2194		0.0500	3.6		20.0				
Toluene	2.2907 2.4155	2.2618	2.3314	2.3307	2.3206	Ave		2.3251		0.4000	2.2		20.0				
trans-1,3-Dichloropropene	0.5160 0.7029	0.5786	0.6164	0.6542	0.6514	Ave		0.6199		0.1000	10.6		20.0				
Ethyl methacrylate	0.4701 0.6024	0.5242	0.5491	0.5696	0.5825	Ave		0.5497			8.6		20.0				
1,1,2-Trichloroethane	0.3686 0.4081	0.3806	0.3982	0.4047	0.3946	Ave		0.3925		0.1000	3.9		20.0				
Tetrachloroethene	0.4053 0.4290	0.3855	0.4205	0.4308	0.4064	Ave		0.4129		0.2000	4.2		20.0				
1,3-Dichloropropane	0.7306 0.7643	0.7018	0.7226	0.7663	0.7361	Ave		0.7370			3.4		20.0				
2-Hexanone	0.2093 0.2373	0.2325	0.2559	0.2488	0.2418	Ave		0.2376		0.0500	6.8		20.0				

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.: 240-61965-1 Analy Batch No.: 215848

SDG No.: _____

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

Calibration Start Date: 01/29/2016 12:13 Calibration End Date: 01/29/2016 14:05 Calibration ID: 32819

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	0.3026 0.4357	0.3257	0.3514	0.3939	0.3897	Ave		0.3665			13.4		20.0				
Ethylene Dibromide	0.3613 0.3809	0.3587	0.3724	0.3793	0.3712	Ave		0.3706			2.5		20.0				
Chlorobenzene	1.2743 1.2675	1.2639	1.2628	1.2969	1.2100	Ave		1.2626		0.3000	2.3		20.0				
1,1,1,2-Tetrachloroethane	0.3473 0.4185	0.3498	0.3864	0.3964	0.3947	Ave		0.3822			7.4		20.0				
Ethylbenzene	0.6673 0.6827	0.6562	0.6841	0.6869	0.6494	Ave		0.6711			2.4		20.0				
m-Xylene & p-Xylene	0.7430 0.8143	0.7731	0.8037	0.8063	0.7597	Ave		0.7834			3.7		20.0				
o-Xylene	0.6702 0.7103	0.6723	0.7117	0.7256	0.6670	Ave		0.6929			3.7		20.0				
Styrene	1.1456 1.3119	1.1957	1.2532	1.2862	1.2337	Ave		1.2377		0.3000	4.9		20.0				
Bromoform	0.1196 0.2074	0.1354	0.1504	0.1667	0.1676	Qua	0.0170	0.1354	0.0017801	0.1000				1.0000		0.9900	
Isopropylbenzene	1.5367 1.6490	1.5362	1.5796	1.6010	1.5214	Ave		1.5707		0.1000	3.1		20.0				
1,1,2,2-Tetrachloroethane	0.7513 0.7148	0.8215	0.8151	0.8400	0.7519	Ave		0.7824		0.3000	6.4		20.0				
Bromobenzene	1.0594 1.0261	1.1144	1.1517	1.1563	1.0276	Ave		1.0892			5.5		20.0				
1,2,3-Trichloropropane	0.2964 0.2536	0.2672	0.2876	0.2933	0.2636	Ave		0.2769			6.4		20.0				
trans-1,4-Dichloro-2-butene	0.2263 0.2224	0.1942	0.2254	0.2291	0.2135	Ave		0.2185			6.0		20.0				
N-Propylbenzene	1.0253 0.9856	1.0764	1.0866	1.1320	0.9768	Ave		1.0471			5.9		20.0				
2-Chlorotoluene	0.9612 0.8533	0.8852	0.9544	0.9696	0.8591	Ave		0.9138			5.9		20.0				
1,3,5-Trimethylbenzene	2.5493 2.6916	2.7100	2.7893	2.8334	2.6331	Ave		2.7011			3.8		20.0				
4-Chlorotoluene	0.9213 0.9146	0.9771	1.0120	1.0258	0.9257	Ave		0.9628			5.1		20.0				
tert-Butylbenzene	2.2563 2.2460	2.2691	2.3652	2.3859	2.1666	Ave		2.2815			3.6		20.0				
1,2,4-Trimethylbenzene	2.8103 2.8624	2.8114	2.9271	2.9431	2.7846	Ave		2.8565			2.3		20.0				

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.: 240-61965-1 Analy Batch No.: 215848

SDG No.: _____

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

Calibration Start Date: 01/29/2016 12:13 Calibration End Date: 01/29/2016 14:05 Calibration ID: 32819

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	2.9265 3.0204	3.0446	3.0608	3.1540	2.9250	Ave		3.0219			2.9		20.0				
1,3-Dichlorobenzene	1.8437 1.6872	1.7713	1.7892	1.7554	1.6956	Ave		1.7571		0.6000	3.4		20.0				
4-Isopropyltoluene	2.5851 2.8091	2.6478	2.7938	2.7992	2.6597	Ave		2.7158			3.6		20.0				
1,4-Dichlorobenzene	1.9534 1.7683	1.8886	1.8788	1.8811	1.7057	Ave		1.8460		0.5000	4.9		20.0				
n-Butylbenzene	2.2663 2.2992	2.2438	2.2710	2.3071	2.2065	Ave		2.2657			1.6		20.0				
1,2-Dichlorobenzene	1.7525 1.6592	1.7739	1.7988	1.7711	1.6530	Ave		1.7348		0.4000	3.6		20.0				
1,2-Dibromo-3-Chloropropane	0.1192 0.1289	0.1225	0.1417	0.1433	0.1335	Ave		0.1315		0.0500	7.5		20.0				
1,2,4-Trichlorobenzene	1.3169 0.9436	1.2642	1.2791	1.2034	1.0603	Ave		1.1779		0.2000	12.4		20.0				
Hexachlorobutadiene	0.6253 0.4336	0.6308	0.5841	0.5480	0.4752	Ave		0.5495			14.7		20.0				
Naphthalene	2.8150 2.0986	3.0784	2.8522	2.8034	2.4471	Ave		2.6824			13.1		20.0				
1,2,3-Trichlorobenzene	1.2104 0.7974	1.2796	1.1447	1.0909	0.9535	Qua	0.3169	1.1103	-0.008045					1.0000		0.9900	
Dibromofluoromethane (Surr)	0.3170 0.3025	0.2980	0.3134	0.3123	0.2977	Ave		0.3068			2.8		20.0				
1,2-Dichloroethane-d4 (Surr)	0.3586 0.3721	0.3733	0.3783	0.3882	0.3707	Ave		0.3736			2.6		20.0				
Toluene-d8 (Surr)	1.8953 2.0394	1.8164	1.9648	2.0140	1.9877	Ave		1.9529			4.3		20.0				
4-Bromofluorobenzene (Surr)	0.4543 0.4693	0.4194	0.4670	0.4733	0.4390	Ave		0.4537			4.6		20.0				

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.: 240-61965-1 Analy Batch No.: 215848

SDG No.: _____

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

Calibration Start Date: 01/29/2016 12:13 Calibration End Date: 01/29/2016 14:05 Calibration ID: 32819

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-215848/7	UXJ2370.D
Level 2	STD8260 240-215848/6	UXJ2369.D
Level 3	STD8260 240-215848/5	UXJ2368.D
Level 4	STD8260 240-215848/4	UXJ2367.D
Level 5	STD8260 240-215848/3	UXJ2366.D
Level 6	STD8260 240-215848/2	UXJ2365.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	31161 1795510	74526	188108	388415	830110	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	41258 2176267	89341	256323	491590	1036359	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	43071 1994056	87214	230012	458378	963375	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	39498 2061781	85029	226571	438600	869741	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	21544 1173283	48704	110612	244471	498556	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	27181 1277937	51780	132772	265664	564913	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	56564 2919395	111738	300543	615729	1271419	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	53470 2863450	109509	284057	584730	1227564	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	43272 2114494	91996	235483	475089	1010143	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	31506 1353947	49968	140394	286394	620172	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	44444 2359466	94937	231714	494055	996234	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	27404 1380294	57850	127990	275769	574155	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Qua	41458 844317	51993	116781	226655	474392	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	70928 3770687	148060	360375	788252	1566128	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	129067 7187490	262023	672421	1413623	2937744	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	34694 2101536	69125	183497	415865	857382	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 215848

SDG No.: _____

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

Calibration Start Date: 01/29/2016 12:13 Calibration End Date: 01/29/2016 14:05 Calibration ID: 32819

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	143295 6951342	287836	722020	1478961	3105964	5.00 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Ave	59333 2682786	116630	265073	549095	1142470	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	20666 1082200	46001	125127	244941	508261	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	135856 7198689	291764	732872	1497399	3123752	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	131701 7158609	268162	701238	1460088	3132330	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	56178 2975737	114927	288797	587250	1264180	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	10922 675819	24107	62041	125602	261140	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	97555 5236099	194809	492202	999078	2159685	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	76941 4530042	150609	394741	849604	1889954	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	37390 1554504	68806	168818	349116	689650	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	56810 3077448	121490	296180	606085	1279176	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	47956 2802123	96668	268011	561925	1200313	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobromomethane	FB	Ave	27162 1479967	56984	135932	287320	592244	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	24713 1030662	41871	105957	215121	434855	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	87446 4855230	179858	453608	931423	1990107	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	64568 3764391	130312	335355	717188	1518873	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	71522 3854745	141938	355368	736868	1544134	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	70065 3823920	133217	342290	722258	1505238	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	52407 3321369	105950	273839	591130	1271513	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBZ	Ave	17330 1007447	36436	98926	215108	412257	25.0 1000	50.0	125	250	500
1,2-Dichloroethane	FB	Ave	71483 3651654	135687	350735	711691	1490484	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 215848

SDG No.: _____

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

Calibration Start Date: 01/29/2016 12:13 Calibration End Date: 01/29/2016 14:05 Calibration ID: 32819

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
Benzene	FB	Ave	226522 11994079	447689	1095565	2270780	4807633	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	12375 625140	21835	55420	106273	230695	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	55539 3142364	115349	292227	594062	1218344	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	61127 3592253	125865	312955	650829	1346815	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	47384 2817367	103487	266033	543236	1123943	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	28177 1476265	53345	133293	284868	577702	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	5247 337026	10715	32693	73411	144201	20.0 800	40.0	100	200	400
Dichlorobromomethane	FB	Ave	54876 3512934	112355	292609	611943	1316687	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	59014 3199233	112766	309846	620226	1290003	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	66959 4452111	135621	365044	794740	1694674	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	63621 3677934	134867	357620	718313	1482255	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	221107 12382496	450009	1124974	2286841	4774526	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	49805 3603420	115122	297438	641860	1340216	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	45379 3087839	104305	264981	558918	1198558	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	35576 2092275	75723	192148	397057	811770	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	39118 2198945	76706	202916	422671	836164	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	70526 3918207	139639	348666	751826	1514414	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	40408 2433422	92512	246935	488256	994931	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Ave	29210 2233572	64808	169587	386491	801867	1.00 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBZ	Ave	34874 1952463	71360	179688	372134	763764	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	123000 6497477	251478	609350	1272434	2489460	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 215848

SDG No.: _____

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

Calibration Start Date: 01/29/2016 12:13 Calibration End Date: 01/29/2016 14:05 Calibration ID: 32819

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	33528 2145497	69604	186429	388925	812123	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	64414 3499879	130553	330128	673925	1336165	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	71723 4174451	153827	387817	791082	1563097	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	64690 3641280	133763	343428	711984	1372207	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	110583 6725208	237898	604696	1261950	2538345	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Qua	11545 1063331	26943	72573	163544	344841	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	148333 8453123	305652	762222	1570877	3130086	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	28021 1606678	60542	147951	312897	616644	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	39512 2306377	82123	209042	430719	842778	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	11055 570009	19688	52208	109251	216194	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	8442 499959	14308	40908	85357	175138	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	38242 2215316	79326	197234	421678	801096	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	35851 1917961	65233	173240	361200	704552	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	95081 6049880	199714	506290	1055474	2159493	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	34363 2055858	72007	183693	382106	759176	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	84155 5048361	167217	429314	888770	1776862	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	104815 6433854	207183	531304	1096326	2283705	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	109149 6789010	224371	555572	1174885	2398881	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	68764 3792376	130535	324768	653891	1390659	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	96418 6314165	195126	507120	1042728	2181317	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	72857 3974766	139177	341032	700712	1398890	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 215848

SDG No.: _____

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

Calibration Start Date: 01/29/2016 12:13 Calibration End Date: 01/29/2016 14:05 Calibration ID: 32819

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	84528 5168046	165358	412214	859409	1809603	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	65365 3729489	130723	326513	659749	1355653	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	4445 289759	9024	25713	53371	109486	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	49116 2120973	93163	232167	448289	869577	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	23321 974550	46483	106015	204131	389731	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	104991 4717019	226857	517716	1044294	2006989	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Qua	45145 1792322	94298	207780	406386	781975	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	47884 2559384	92104	245671	488287	1038831	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	54174 3148823	115383	296524	607031	1293831	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	182941 10454619	361406	948072	1976041	4089644	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	43851 2405896	83443	225333	464385	903292	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Qua = Quadratic ISTD

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 218452

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2016 11:17 Calibration End Date: 02/22/2016 13:11 Calibration ID: 33193

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-218452/7	UXC6000.D
Level 2	STD8260 240-218452/6	UXC5999.D
Level 3	STD8260 240-218452/5	UXC5998.D
Level 4	STD8260 240-218452/4	UXC5997.D
Level 5	STD8260 240-218452/3	UXC5996.D
Level 6	STD8260 240-218452/2	UXC5995.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	0.3264 0.3138	0.3066	0.3194	0.3274	0.3138	Ave		0.3179			0.1000	2.5		20.0			
Chloromethane	0.4176 0.3636	0.4143	0.3898	0.3876	0.3823	Ave		0.3925			0.1000	5.2		20.0			
Vinyl chloride	0.4146 0.3836	0.3906	0.3987	0.4038	0.3853	Ave		0.3961			0.1000	3.0		20.0			
Butadiene	0.4058 0.3667	0.3696	0.3798	0.3823	0.3695	Ave		0.3790				3.8		20.0			
Bromomethane	0.0809 0.1139	0.1120	0.0945	0.1134	0.1411	Qua	-0.180	0.1626	-0.001084		0.0500				0.9930		0.9900
Chloroethane	0.1887 0.1469	0.1904	0.1327	0.1453	0.1754	Qua	-0.104	0.1891	-0.000968						0.9940		0.9900
Dichlorofluoromethane	0.3306 0.4028	0.3950	0.3634	0.3881	0.4334	Ave		0.3856				9.1		20.0			
Trichlorofluoromethane	0.3063 0.3444	0.3091	0.3226	0.3374	0.3468	Ave		0.3278			0.1000	5.4		20.0			
Ethyl ether	0.2332 0.2264	0.2356	0.2197	0.2274	0.2260	Ave		0.2281				2.5		20.0			
Acrolein	0.0206 0.0250	0.0237	0.0230	0.0243	0.0244	Ave		0.0235				6.7		20.0			
1,1-Dichloroethene	0.2962 0.3000	0.2841	0.2923	0.3064	0.2967	Ave		0.2960			0.1000	2.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2251 0.2352	0.2163	0.2328	0.2432	0.2320	Ave		0.2308			0.0500	4.0		20.0			
Acetone	0.0810 0.0640	0.0793	0.0592	0.0583	0.0633	Ave		0.0675			0.0500	14.9		20.0			
Iodomethane	0.4396 0.4705	0.4643	0.4672	0.4879	0.4714	Ave		0.4668				3.4		20.0			
Carbon disulfide	1.0335 1.0116	1.0244	1.0024	1.0483	1.0126	Ave		1.0221			0.1000	1.6		20.0			

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.: 240-61965-1 Analy Batch No.: 218452

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2016 11:17 Calibration End Date: 02/22/2016 13:11 Calibration ID: 33193

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	0.1710 0.1901	0.1867	0.1859	0.1944	0.1918	Ave		0.1867			4.4		20.0				
Methyl acetate	0.1389 0.1338	0.1410	0.1298	0.1323	0.1324	Ave		0.1347		0.1000	3.2		20.0				
Methylene Chloride	0.4618 0.3072	0.3796	0.3322	0.3346	0.3163	Lin1	0.1561	0.3065		0.1000				1.0000		0.9900	
2-Methyl-2-propanol	0.0108 0.0090	0.0103	0.0088	0.0088	0.0094	Ave		0.0095			8.7		20.0				
Methyl tert-butyl ether	0.5744 0.6052	0.5856	0.5691	0.6060	0.5934	Ave		0.5889		0.1000	2.6		20.0				
Acrylonitrile	0.0768 0.0773	0.0786	0.0733	0.0767	0.0756	Ave		0.0764			2.4		20.0				
trans-1,2-Dichloroethene	0.3017 0.3149	0.3181	0.3103	0.3259	0.3149	Ave		0.3143		0.1000	2.6		20.0				
Hexane	0.0791 0.0786	0.0726	0.0757	0.0785	0.0795	Ave		0.0773			3.4		20.0				
1,1-Dichloroethane	0.5080 0.5213	0.5275	0.5200	0.5347	0.5226	Ave		0.5223		0.1000	1.7		20.0				
Vinyl acetate	0.3350 0.3723	0.3494	0.3439	0.3510	0.3581	Ave		0.3516			3.6		20.0				
2,2-Dichloropropane	0.2511 0.2575	0.2564	0.2657	0.2819	0.2743	Ave		0.2644			4.5		20.0				
cis-1,2-Dichloroethene	0.3262 0.3332	0.3328	0.3298	0.3436	0.3339	Ave		0.3332		0.1000	1.7		20.0				
2-Butanone (MEK)	0.0812 0.0856	0.0899	0.0863	0.0843	0.0842	Ave		0.0853		0.0500	3.4		20.0				
Chlorobromomethane	0.1517 0.1490	0.1515	0.1485	0.1534	0.1521	Ave		0.1510			1.2		20.0				
Tetrahydrofuran	0.0530 0.0530	0.0549	0.0473	0.0489	0.0495	Ave		0.0511			5.8		20.0				
Chloroform	0.4898 0.4851	0.4980	0.4782	0.4978	0.4829	Ave		0.4886			1.7		20.0				
1,1,1-Trichloroethane	0.3614 0.3729	0.3581	0.3688	0.3893	0.3822	Ave		0.3721		0.1000	3.2		20.0				
Cyclohexane	0.4694 0.5272	0.4787	0.5076	0.5376	0.5289	Ave		0.5082		0.1000	5.6		20.0				
1,1-Dichloropropene	0.3897 0.4198	0.3926	0.4035	0.4180	0.4136	Ave		0.4062			3.2		20.0				
Carbon tetrachloride	0.3400 0.3608	0.3443	0.3459	0.3663	0.3639	Ave		0.3535		0.1000	3.2		20.0				

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.: 240-61965-1 Analy Batch No.: 218452

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2016 11:17 Calibration End Date: 02/22/2016 13:11 Calibration ID: 33193

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	0.0033 0.0040	0.0042	0.0038	0.0038	0.0039	Ave		0.0038			8.5		20.0				
Benzene	1.2464 1.2904	1.2655	1.2453	1.2704	1.2681	Ave		1.2643		0.5000	1.3		20.0				
1,2-Dichloroethane	0.3223 0.3203	0.3341	0.3185	0.3213	0.3193	Ave		0.3226		0.1000	1.8		20.0				
n-Heptane	0.0694 0.0733	0.0654	0.0693	0.0727	0.0756	Ave		0.0709			5.1		20.0				
Trichloroethene	0.3090 0.3233	0.3223	0.3165	0.3222	0.3223	Ave		0.3193		0.2000	1.8		20.0				
Methylcyclohexane	0.4344 0.4986	0.4388	0.4667	0.4984	0.4947	Ave		0.4719		0.1000	6.3		20.0				
1,2-Dichloropropane	0.2860 0.2919	0.2895	0.2849	0.2904	0.2901	Ave		0.2888		0.1000	0.9		20.0				
Dibromomethane	0.1449 0.1481	0.1544	0.1475	0.1485	0.1476	Ave		0.1485			2.1		20.0				
1,4-Dioxane	0.0013 0.0018	0.0020	0.0019	0.0018	0.0019	Ave		0.0018			14.2		20.0				
Dichlorobromomethane	0.3632 0.3626	0.3626	0.3540	0.3596	0.3589	Ave		0.3602		0.1000	1.0		20.0				
2-Chloroethyl vinyl ether	0.1172 0.1388	0.1298	0.1308	0.1272	0.1377	Ave		0.1303			6.0		20.0				
cis-1,3-Dichloropropene	0.3927 0.4558	0.4226	0.4319	0.4314	0.4491	Ave		0.4306		0.1500	5.2		20.0				
4-Methyl-2-pentanone (MIBK)	0.1407 0.1594	0.1489	0.1455	0.1470	0.1553	Ave		0.1495		0.0500	4.5		20.0				
Toluene	1.6049 1.7985	1.7129	1.7773	1.7531	1.7950	Ave		1.7403		0.4000	4.2		20.0				
trans-1,3-Dichloropropene	0.3935 0.4754	0.4482	0.4532	0.4456	0.4734	Ave		0.4482		0.1000	6.6		20.0				
Ethyl methacrylate	0.2707 0.3717	0.3160	0.3309	0.3405	0.3687	Ave		0.3331			11.2		20.0				
1,1,2-Trichloroethane	0.2876 0.2953	0.3101	0.3043	0.2911	0.2972	Ave		0.2976		0.1000	2.8		20.0				
Tetrachloroethene	0.3253 0.3333	0.3140	0.3355	0.3331	0.3356	Ave		0.3295		0.2000	2.6		20.0				
1,3-Dichloropropane	0.5124 0.5349	0.5566	0.5364	0.5246	0.5396	Ave		0.5341			2.8		20.0				
2-Hexanone	0.1231 0.1542	0.1283	0.1440	0.1398	0.1532	Ave		0.1405		0.0500	9.1		20.0				

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.: 240-61965-1 Analy Batch No.: 218452

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2016 11:17 Calibration End Date: 02/22/2016 13:11 Calibration ID: 33193

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	0.3254 0.3531	0.3401	0.3402	0.3477	0.3522	Ave		0.3431			3.0		20.0				
Ethylene Dibromide	0.2793 0.2868	0.2911	0.2864	0.2822	0.2906	Ave		0.2861			1.6		20.0				
Chlorobenzene	1.0939 1.1304	1.1218	1.1279	1.1296	1.1315	Ave		1.1225		0.3000	1.3		20.0				
1,1,1,2-Tetrachloroethane	0.3370 0.3748	0.3572	0.3595	0.3708	0.3696	Ave		0.3615			3.8		20.0				
Ethylbenzene	0.5589 0.6289	0.5820	0.6084	0.6223	0.6250	Ave		0.6042			4.6		20.0				
m-Xylene & p-Xylene	1.3307 1.4867	1.3671	1.4266	1.4465	1.4819	Ave		1.4232			4.4		20.0				
o-Xylene	0.6515 0.7573	0.6913	0.7171	0.7552	0.7511	Ave		0.7206			5.9		20.0				
Styrene	1.0976 1.3118	1.1569	1.2324	1.2785	1.2860	Ave		1.2272		0.3000	6.8		20.0				
Bromoform	0.1878 0.2076	0.1904	0.1932	0.2011	0.2048	Ave		0.1975		0.1000	4.1		20.0				
Isopropylbenzene	1.5507 1.8633	1.5902	1.7107	1.8148	1.8237	Ave		1.7256		0.1000	7.6		20.0				
1,1,2,2-Tetrachloroethane	0.6627 0.6492	0.6920	0.6520	0.6465	0.6563	Ave		0.6598		0.3000	2.5		20.0				
Bromobenzene	0.8231 0.8704	0.8639	0.8452	0.8543	0.8768	Ave		0.8556			2.3		20.0				
1,2,3-Trichloropropane	0.1956 0.1905	0.1948	0.1867	0.1884	0.1904	Ave		0.1911			1.8		20.0				
trans-1,4-Dichloro-2-butene	0.1719 0.1951	0.1802	0.1762	0.1775	0.1950	Ave		0.1827			5.5		20.0				
N-Propylbenzene	0.8119 0.9506	0.8620	0.9226	0.9334	0.9526	Ave		0.9055			6.2		20.0				
2-Chlorotoluene	0.7241 0.7925	0.7847	0.7901	0.7917	0.7957	Ave		0.7798			3.5		20.0				
1,3,5-Trimethylbenzene	2.3106 2.7266	2.4771	2.6114	2.6539	2.7191	Ave		2.5831			6.3		20.0				
4-Chlorotoluene	2.5718 2.7306	2.6498	2.7314	2.7119	2.7389	Ave		2.6891			2.5		20.0				
tert-Butylbenzene	1.9402 2.2745	2.0601	2.1759	2.2300	2.2822	Ave		2.1605			6.3		20.0				
1,2,4-Trimethylbenzene	2.4283 2.8195	2.5917	2.6677	2.7605	2.8094	Ave		2.6795			5.6		20.0				

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.: 240-61965-1 Analy Batch No.: 218452

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2016 11:17 Calibration End Date: 02/22/2016 13:11 Calibration ID: 33193

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	2.8352 3.2549	2.8929	3.1181	3.1271	3.2494	Ave		3.0796			5.8		20.0				
1,3-Dichlorobenzene	1.6034 1.6257	1.6146	1.5972	1.5973	1.6207	Ave		1.6098		0.6000	0.8		20.0				
4-Isopropyltoluene	2.3954 2.8730	2.4546	2.7287	2.7379	2.8193	Ave		2.6681			7.4		20.0				
1,4-Dichlorobenzene	1.6614 1.6307	1.6714	1.6375	1.6248	1.6389	Ave		1.6441		0.5000	1.1		20.0				
n-Butylbenzene	2.1263 2.3867	2.0850	2.2423	2.2945	2.3699	Ave		2.2508			5.5		20.0				
1,2-Dichlorobenzene	1.4967 1.5068	1.4801	1.4940	1.5106	1.5240	Ave		1.5020		0.4000	1.0		20.0				
1,2-Dibromo-3-Chloropropane	0.1055 0.1186	0.1193	0.1080	0.1168	0.1168	Ave		0.1142		0.0500	5.1		20.0				
1,2,4-Trichlorobenzene	0.9242 0.8842	0.9248	0.9117	0.9268	0.9131	Ave		0.9141		0.2000	1.7		20.0				
Hexachlorobutadiene	0.4737 0.3681	0.4307	0.4446	0.4204	0.4038	Ave		0.4235			8.5		20.0				
Naphthalene	1.7580 2.0238	1.8762	1.8509	2.0278	2.0505	Ave		1.9312			6.2		20.0				
1,2,3-Trichlorobenzene	0.8294 0.7406	0.8599	0.8049	0.8357	0.8018	Ave		0.8121			5.0		20.0				
Dibromofluoromethane (Surr)	0.2660 0.2612	0.2529	0.2533	0.2577	0.2506	Ave		0.2570			2.3		20.0				
1,2-Dichloroethane-d4 (Surr)	0.2900 0.2742	0.2778	0.2710	0.2706	0.2657	Ave		0.2749			3.1		20.0				
Toluene-d8 (Surr)	1.4618 1.5493	1.4653	1.5012	1.4702	1.4900	Ave		1.4896			2.2		20.0				
4-Bromofluorobenzene (Surr)	0.5080 0.5193	0.4901	0.5015	0.5158	0.5057	Ave		0.5067			2.1		20.0				

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.: 240-61965-1 Analy Batch No.: 218452

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2016 11:17 Calibration End Date: 02/22/2016 13:11 Calibration ID: 33193

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-218452/7	UXC6000.D
Level 2	STD8260 240-218452/6	UXC5999.D
Level 3	STD8260 240-218452/5	UXC5998.D
Level 4	STD8260 240-218452/4	UXC5997.D
Level 5	STD8260 240-218452/3	UXC5996.D
Level 6	STD8260 240-218452/2	UXC5995.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	45930 1845250	90042	236700	472889	949211	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	58766 2138428	121655	288869	559790	1156370	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	58341 2255708	114687	295456	583233	1165431	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	57104 2156692	108519	281456	552165	1117864	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Qua	11380 669979	32883	70062	163814	426982	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Qua	26550 863894	55901	98324	209797	530456	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	46527 2368692	116003	269298	560607	1311087	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	43100 2025368	90772	239094	487300	1049122	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	32819 1331312	69186	162839	328447	683661	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	14503 736461	34756	85083	175552	368385	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	41677 1764298	83423	216600	442626	897659	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	31670 1383266	63522	172517	351324	701782	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Ave	22784 752488	46545	87729	168320	382763	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	61854 2766710	136334	346179	704731	1425969	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	145430 5949305	300804	742822	1514126	3063250	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	24069 1118222	54829	137746	280792	580154	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 218452

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2016 11:17 Calibration End Date: 02/22/2016 13:11 Calibration ID: 33193

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	97751 3934859	207023	480775	955246	2002017	5.00 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Lin1	64983 1806781	111459	246166	483299	956987	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	15178 527557	30123	65305	127379	284422	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	80823 3558979	171948	421702	875225	1795233	1.00 40.0	2.00	5.00	10.0	20.0
Acrylonitrile	FB	Ave	108080 4547194	230874	543134	1107496	2288437	10.0 400	20.0	50.0	100	200
trans-1,2-Dichloroethene	FB	Ave	42450 1851866	93404	229970	470751	952481	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	11131 462080	21331	56102	113407	240534	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	71489 3065411	154904	385337	772350	1580773	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	47147 2189300	102609	254861	506992	1083417	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	35332 1514138	75277	196865	407105	829637	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	45904 1959400	97733	244358	496237	1009988	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	22863 1007388	52827	127959	243444	509259	2.00 80.0	4.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	21345 876525	44486	110057	221610	460145	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	14917 623219	32271	70038	141260	299247	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	68927 2852815	146227	354343	719062	1460912	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	50862 2193142	105167	273306	562236	1156166	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	66051 3100444	140579	376125	776439	1599906	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	54836 2468542	115291	299046	603699	1251251	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	47841 2122040	101107	256333	529050	1100714	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	FB	Ave	11464 589031	31108	70415	137341	292052	25.0 1000	50.0	125	250	500
Benzene	FB	Ave	175397 7588429	371621	922824	1834883	3836041	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 218452

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2016 11:17 Calibration End Date: 02/22/2016 13:11 Calibration ID: 33193

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	45354 1883912	98109	236058	464120	965775	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	9768 430983	19209	51317	105046	228553	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	43479 1901561	94637	234555	465373	974860	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	61127 2932129	128852	345847	719875	1496482	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	40246 1716597	85005	211093	419470	877500	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	20387 871243	45347	109333	214444	446621	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	3608 208388	11462	28656	51638	114732	20.0 800	40.0	100	200	400
Dichlorobromomethane	FB	Ave	51114 2132378	106474	262364	519408	1085623	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	32994 1632952	76219	193922	367555	833135	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	55264 2680715	124082	320072	623044	1358532	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	39587 1874248	87474	215662	424739	939590	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	174419 8177378	386300	1000792	1957955	4167857	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	42770 2161608	101072	255179	497706	1099201	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	29420 1689871	71262	186350	380327	856126	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	31252 1342823	69929	171368	325077	690077	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	35352 1515346	70810	188950	371997	779179	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	55684 2431860	125532	302027	585900	1252921	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	26763 1402498	57870	162213	312351	711586	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Ave	35360 1605583	76708	191591	388309	817885	1.00 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBZ	Ave	30356 1303957	65638	161280	315180	674750	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	118890 5139499	252996	635110	1261583	2627218	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 218452

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2016 11:17 Calibration End Date: 02/22/2016 13:11 Calibration ID: 33193

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	36626 1704106	80561	202434	414141	858180	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	60743 2859591	131242	342580	695026	1451107	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	144622 6759487	308316	803308	1615474	3440809	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	70803 3443410	155895	403813	843401	1743963	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	119282 5964392	260908	693968	1427871	2985890	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	20406 943682	42943	108812	224563	475604	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	168529 8471859	358620	963290	2026827	4234450	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	38476 1595887	81991	195565	402094	815225	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	47792 2139700	102366	253537	531329	1089166	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	11356 468280	23086	56017	117210	236455	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	9980 479649	21347	52868	110378	242268	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	47144 2336834	102130	276740	580523	1183281	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	42043 1948068	92975	237002	492408	988411	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	134164 6702801	293507	783334	1650666	3377568	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	149329 6712577	313970	819332	1686745	3402183	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	112655 5591206	244099	652712	1387034	2834958	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	140995 6931043	307077	800239	1716938	3489772	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	164623 8001443	342770	935323	1945009	4036375	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	93102 3996389	191303	479108	993475	2013211	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	139083 7062582	290839	818520	1702902	3502098	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	96468 4008741	198042	491200	1010589	2035864	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 218452

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2016 11:17 Calibration End Date: 02/22/2016 13:11 Calibration ID: 33193

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	123459 5867061	247044	672608	1427130	2943880	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	86906 3704115	175370	448138	939572	1893117	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	6125 291482	14135	32410	72626	145047	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	53665 2173600	109578	273474	576431	1134187	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	27504 904972	51029	133361	261453	501541	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	102078 4975079	222310	555196	1261219	2547098	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	48159 1820673	101885	241446	519793	996019	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	37435 1536284	74271	187705	372223	757967	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	40807 1612669	81584	200808	390921	803635	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	158864 7044250	330449	845332	1642007	3459737	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	55206 2361352	110520	282414	576095	1174104	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 VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: ICV 240-215848/14 Calibration Date: 01/29/2016 14:27
 Instrument ID: A3UX11 Calib Start Date: 01/29/2016 12:13
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/29/2016 14:05
 Lab File ID: UXJ2371.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	0.2310	0.1775	0.1000	0.00768	0.0100	-23.2*	20.0
Chloromethane	Ave	0.2930	0.2562	0.1000	0.00874	0.0100	-12.6	20.0
Vinyl chloride	Ave	0.2776	0.2419	0.1000	0.00871	0.0100	-12.9	20.0
Butadiene	Ave	0.2665	0.2110		0.00792	0.0100	-20.8*	20.0
Bromomethane	Ave	0.1465	0.1402	0.0500	0.00957	0.0100	-4.3	20.0
Chloroethane	Ave	0.1666	0.1525	0.0500	0.00915	0.0100	-8.5	20.0
Dichlorofluoromethane	Ave	0.3704	0.3546		0.00957	0.0100	-4.3	20.0
Trichlorofluoromethane	Ave	0.3558	0.3353	0.1000	0.00942	0.0100	-5.8	20.0
Ethyl ether	Ave	0.2880	0.2982		0.0104	0.0100	3.6	20.0
Acrolein	Ave	0.0357	0.0319		0.0447	0.0500	-10.6	20.0
1,1-Dichloroethene	Ave	0.2962	0.3024	0.1000	0.0102	0.0100	2.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1726	0.1674	0.0500	0.00970	0.0100	-3.0	20.0
Acetone	Qua		0.0702	0.0500	0.0185	0.0200	-7.5	20.0
Iodomethane	Ave	0.4678	0.4882		0.0104	0.0100	4.4	20.0
Carbon disulfide	Ave	0.8592	0.8592	0.1000	0.0100	0.0100	0.0	20.0
3-Chloro-1-propene	Ave	0.2412	0.2410		0.00999	0.0100	-0.0	20.0
Methyl acetate	Ave	0.1819	0.1791	0.1000	0.0492	0.0500	-1.6	20.0
Methylene Chloride	Ave	0.3506	0.3361	0.1000	0.00959	0.0100	-4.1	20.0
2-Methyl-2-propanol	Ave	0.0146	0.0139		0.0956	0.100	-4.4	20.0
Acrylonitrile	Ave	0.0914	0.0917		0.100	0.100	0.4	20.0
Methyl tert-butyl ether	Ave	0.8852	0.8825	0.1000	0.00997	0.0100	-0.3	20.0
trans-1,2-Dichloroethene	Ave	0.3669	0.3706	0.1000	0.0101	0.0100	1.0	20.0
Hexane	Ave	0.0774	0.0785		0.0101	0.0100	1.4	20.0
1,1-Dichloroethane	Ave	0.6301	0.6092	0.1000	0.00967	0.0100	-3.3	20.0
Vinyl acetate	Ave	0.5201	0.5559		0.0107	0.0100	6.9	20.0
2-Butanone (MEK)	Ave	0.1075	0.1007	0.0500	0.0187	0.0200	-6.4	20.0
cis-1,2-Dichloroethene	Ave	0.3775	0.3700	0.1000	0.00980	0.0100	-2.0	20.0
2,2-Dichloropropane	Ave	0.3344	0.3283		0.00982	0.0100	-1.8	20.0
Chlorobromomethane	Ave	0.1777	0.1794		0.0101	0.0100	1.0	20.0
Tetrahydrofuran	Ave	0.0682	0.0682		0.0200	0.0200	-0.0	20.0
Chloroform	Ave	0.5799	0.5791	0.2000	0.00999	0.0100	-0.1	20.0
1,1,1-Trichloroethane	Ave	0.4359	0.4381	0.1000	0.0100	0.0100	0.5	20.0
Cyclohexane	Ave	0.4592	0.4432	0.1000	0.00965	0.0100	-3.5	20.0
1,1-Dichloropropene	Ave	0.4461	0.4744		0.0106	0.0100	6.3	20.0
Carbon tetrachloride	Ave	0.3623	0.3787	0.1000	0.0105	0.0100	4.5	20.0
Isobutyl alcohol	Ave	0.0079	0.0066		0.210	0.250	-15.9	20.0
1,2-Dichloroethane	Ave	0.4456	0.4388	0.1000	0.00985	0.0100	-1.5	20.0
Benzene	Ave	1.432	1.413	0.5000	0.00986	0.0100	-1.4	20.0
n-Heptane	Ave	0.0719	0.0640		0.00890	0.0100	-11.0	20.0
Trichloroethene	Ave	0.3690	0.3648	0.2000	0.00988	0.0100	-1.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: ICV 240-215848/14 Calibration Date: 01/29/2016 14:27
 Instrument ID: A3UX11 Calib Start Date: 01/29/2016 12:13
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/29/2016 14:05
 Lab File ID: UXJ2371.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	0.4063	0.3834	0.1000	0.00944	0.0100	-5.6	20.0
1,2-Dichloropropane	Ave	0.3317	0.3348	0.1000	0.0101	0.0100	0.9	20.0
Dibromomethane	Ave	0.1752	0.1733		0.00989	0.0100	-1.1	20.0
1,4-Dioxane	Ave	0.0020	0.0018		0.179	0.200	-10.4	20.0
Dichlorobromomethane	Ave	0.3807	0.3662	0.1000	0.00962	0.0100	-3.8	20.0
2-Chloroethyl vinyl ether	Ave	0.1913	0.1895		0.00991	0.0100	-0.9	20.0
cis-1,3-Dichloropropene	Ave	0.4780	0.4931	0.1500	0.0103	0.0100	3.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2194	0.2179	0.0500	0.0199	0.0200	-0.7	20.0
Toluene	Ave	2.325	2.201	0.4000	0.00947	0.0100	-5.3	20.0
trans-1,3-Dichloropropene	Ave	0.6199	0.6291	0.1000	0.0101	0.0100	1.5	20.0
Ethyl methacrylate	Ave	0.5497	0.5583		0.0102	0.0100	1.6	20.0
1,1,2-Trichloroethane	Ave	0.3925	0.3859	0.1000	0.00983	0.0100	-1.7	20.0
Tetrachloroethene	Ave	0.4129	0.3947	0.2000	0.00956	0.0100	-4.4	20.0
1,3-Dichloropropane	Ave	0.7370	0.7125		0.00967	0.0100	-3.3	20.0
2-Hexanone	Ave	0.2376	0.2265	0.0500	0.0191	0.0200	-4.7	20.0
Chlorodibromomethane	Ave	0.3665	0.3498		0.00954	0.0100	-4.6	20.0
Ethylene Dibromide	Ave	0.3706	0.3644		0.00983	0.0100	-1.7	20.0
Chlorobenzene	Ave	1.263	1.171	0.3000	0.00927	0.0100	-7.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3822	0.3754		0.00982	0.0100	-1.8	20.0
Ethylbenzene	Ave	0.6711	0.6252		0.00932	0.0100	-6.8	20.0
m-Xylene & p-Xylene	Ave	0.7834	0.7565		0.00966	0.0100	-3.4	20.0
o-Xylene	Ave	0.6929	0.6607		0.00954	0.0100	-4.6	20.0
Styrene	Ave	1.238	1.186	0.3000	0.00958	0.0100	-4.2	20.0
Bromoform	Qua		0.1494	0.1000	0.00967	0.0100	-3.3	20.0
Isopropylbenzene	Ave	1.571	1.489	0.1000	0.00948	0.0100	-5.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7824	0.7326	0.3000	0.00936	0.0100	-6.4	20.0
Bromobenzene	Ave	1.089	1.070		0.00982	0.0100	-1.8	20.0
1,2,3-Trichloropropane	Ave	0.2769	0.2767		0.00999	0.0100	-0.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2185	0.2079		0.00952	0.0100	-4.8	20.0
N-Propylbenzene	Ave	1.047	0.9604		0.00917	0.0100	-8.3	20.0
2-Chlorotoluene	Ave	0.9138	0.8790		0.00962	0.0100	-3.8	20.0
1,3,5-Trimethylbenzene	Ave	2.701	2.553		0.00945	0.0100	-5.5	20.0
4-Chlorotoluene	Ave	0.9628	0.9111		0.00946	0.0100	-5.4	20.0
tert-Butylbenzene	Ave	2.282	2.149		0.00942	0.0100	-5.8	20.0
1,2,4-Trimethylbenzene	Ave	2.856	2.680		0.00938	0.0100	-6.2	20.0
sec-Butylbenzene	Ave	3.022	2.843		0.00941	0.0100	-5.9	20.0
1,3-Dichlorobenzene	Ave	1.757	1.621	0.6000	0.00923	0.0100	-7.7	20.0
4-Isopropyltoluene	Ave	2.716	2.520		0.00928	0.0100	-7.2	20.0
1,4-Dichlorobenzene	Ave	1.846	1.716	0.5000	0.00930	0.0100	-7.0	20.0
n-Butylbenzene	Ave	2.266	2.034		0.00898	0.0100	-10.2	20.0
1,2-Dichlorobenzene	Ave	1.735	1.640	0.4000	0.00946	0.0100	-5.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: ICV 240-215848/14 Calibration Date: 01/29/2016 14:27
 Instrument ID: A3UX11 Calib Start Date: 01/29/2016 12:13
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/29/2016 14:05
 Lab File ID: UXJ2371.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	0.1315	0.1248	0.0500	0.00949	0.0100	-5.1	20.0
1,2,4-Trichlorobenzene	Ave	1.178	0.9929	0.2000	0.00843	0.0100	-15.7	20.0
Hexachlorobutadiene	Ave	0.5495	0.4044		0.00736	0.0100	-26.4*	20.0
Naphthalene	Ave	2.682	2.095		0.00781	0.0100	-21.9*	20.0
1,2,3-Trichlorobenzene	Qua		0.7768		0.00707	0.0100	-29.3*	20.0
Dibromofluoromethane (Surr)	Ave	0.3068	0.2900		0.00702	0.00743	-5.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3736	0.3654		0.00726	0.00743	-2.2	20.0
Toluene-d8 (Surr)	Ave	1.953	1.875		0.00713	0.00743	-4.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4537	0.4534		0.00742	0.00743	-0.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-221626/2 Calibration Date: 03/15/2016 10:02
 Instrument ID: A3UX11 Calib Start Date: 01/29/2016 12:13
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/29/2016 14:05
 Lab File ID: UXJ3196.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	0.2310	0.2586	0.1000	0.0112	0.0100	12.0	20.0
Chloromethane	Ave	0.2930	0.3458	0.1000	0.0118	0.0100	18.0	20.0
Vinyl chloride	Ave	0.2776	0.3168	0.1000	0.0114	0.0100	14.1	20.0
Butadiene	Ave	0.2665	0.2878		0.0108	0.0100	8.0	20.0
Bromomethane	Ave	0.1465	0.1208	0.0500	0.00824	0.0100	-17.6	20.0
Chloroethane	Ave	0.1666	0.1424	0.0500	0.00855	0.0100	-14.5	20.0
Dichlorofluoromethane	Ave	0.3704	0.3594		0.00970	0.0100	-3.0	20.0
Trichlorofluoromethane	Ave	0.3558	0.3293	0.1000	0.00926	0.0100	-7.4	20.0
Ethyl ether	Ave	0.2880	0.3146		0.0109	0.0100	9.3	20.0
Acrolein	Ave	0.0357	0.0232		0.0326	0.0500	-34.9*	20.0
1,1-Dichloroethene	Ave	0.2962	0.2960	0.1000	0.00999	0.0100	-0.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1726	0.1366	0.0500	0.00791	0.0100	-20.9*	20.0
Acetone	Qua		0.0761	0.0500	0.0203	0.0200	1.4	20.0
Iodomethane	Ave	0.4678	0.4936		0.0106	0.0100	5.5	20.0
Carbon disulfide	Ave	0.8592	0.9187	0.1000	0.0107	0.0100	6.9	20.0
3-Chloro-1-propene	Ave	0.2412	0.2598		0.0108	0.0100	7.7	20.0
Methyl acetate	Ave	0.1819	0.1781	0.1000	0.0490	0.0500	-2.1	20.0
Methylene Chloride	Ave	0.3506	0.3732	0.1000	0.0106	0.0100	6.4	20.0
2-Methyl-2-propanol	Ave	0.0146	0.0123		0.0842	0.100	-15.8	20.0
Acrylonitrile	Ave	0.0914	0.0901		0.0986	0.100	-1.4	20.0
Methyl tert-butyl ether	Ave	0.8852	0.9337	0.1000	0.0105	0.0100	5.5	20.0
trans-1,2-Dichloroethene	Ave	0.3669	0.3715	0.1000	0.0101	0.0100	1.2	20.0
Hexane	Ave	0.0774	0.0730		0.00943	0.0100	-5.7	20.0
1,1-Dichloroethane	Ave	0.6301	0.6406	0.1000	0.0102	0.0100	1.7	20.0
Vinyl acetate	Ave	0.5201	0.5438		0.0105	0.0100	4.6	20.0
cis-1,2-Dichloroethene	Ave	0.3775	0.3800	0.1000	0.0101	0.0100	0.7	20.0
2,2-Dichloropropane	Ave	0.3344	0.3240		0.00969	0.0100	-3.1	20.0
2-Butanone (MEK)	Ave	0.1075	0.0968	0.0500	0.0180	0.0200	-9.9	20.0
Chlorobromomethane	Ave	0.1777	0.1770		0.00996	0.0100	-0.4	20.0
Tetrahydrofuran	Ave	0.0682	0.0643		0.0189	0.0200	-5.7	20.0
Chloroform	Ave	0.5799	0.5588	0.2000	0.00964	0.0100	-3.6	20.0
1,1,1-Trichloroethane	Ave	0.4359	0.4022	0.1000	0.00922	0.0100	-7.8	20.0
Cyclohexane	Ave	0.4592	0.3868	0.1000	0.00842	0.0100	-15.8	20.0
1,1-Dichloropropene	Ave	0.4461	0.4447		0.00997	0.0100	-0.3	20.0
Carbon tetrachloride	Ave	0.3623	0.3594	0.1000	0.00992	0.0100	-0.8	20.0
Isobutyl alcohol	Ave	0.0079	0.0078		0.246	0.250	-1.8	20.0
1,2-Dichloroethane	Ave	0.4456	0.4019	0.1000	0.00902	0.0100	-9.8	20.0
Benzene	Ave	1.432	1.434	0.5000	0.0100	0.0100	0.2	20.0
n-Heptane	Ave	0.0719	0.0625		0.00869	0.0100	-13.1	20.0
Trichloroethene	Ave	0.3690	0.3583	0.2000	0.00971	0.0100	-2.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-221626/2 Calibration Date: 03/15/2016 10:02
 Instrument ID: A3UX11 Calib Start Date: 01/29/2016 12:13
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/29/2016 14:05
 Lab File ID: UXJ3196.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	0.4063	0.3424	0.1000	0.00843	0.0100	-15.7	20.0
1,2-Dichloropropane	Ave	0.3317	0.3227	0.1000	0.00973	0.0100	-2.7	20.0
Dibromomethane	Ave	0.1752	0.1650		0.00941	0.0100	-5.9	20.0
1,4-Dioxane	Ave	0.0020	0.0017		0.174	0.200	-13.0	20.0
Dichlorobromomethane	Ave	0.3807	0.3772	0.1000	0.00991	0.0100	-0.9	20.0
2-Chloroethyl vinyl ether	Ave	0.1913	0.1730		0.0181	0.0200	-9.5	20.0
cis-1,3-Dichloropropene	Ave	0.4780	0.4905	0.1500	0.0103	0.0100	2.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2194	0.2041	0.0500	0.0186	0.0200	-7.0	20.0
Toluene	Ave	2.325	2.287	0.4000	0.00984	0.0100	-1.6	20.0
trans-1,3-Dichloropropene	Ave	0.6199	0.6752	0.1000	0.0109	0.0100	8.9	20.0
Ethyl methacrylate	Ave	0.5497	0.5825		0.0106	0.0100	6.0	20.0
1,1,2-Trichloroethane	Ave	0.3925	0.3995	0.1000	0.0102	0.0100	1.8	20.0
Tetrachloroethene	Ave	0.4129	0.3911	0.2000	0.00947	0.0100	-5.3	20.0
1,3-Dichloropropane	Ave	0.7370	0.7305		0.00991	0.0100	-0.9	20.0
2-Hexanone	Ave	0.2376	0.2342	0.0500	0.0197	0.0200	-1.4	20.0
Chlorodibromomethane	Ave	0.3665	0.4018		0.0110	0.0100	9.6	20.0
Ethylene Dibromide	Ave	0.3706	0.3564		0.00962	0.0100	-3.8	20.0
Chlorobenzene	Ave	1.263	1.182	0.3000	0.00936	0.0100	-6.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3822	0.3842		0.0101	0.0100	0.5	20.0
Ethylbenzene	Ave	0.6711	0.6217		0.00926	0.0100	-7.4	20.0
m-Xylene & p-Xylene	Ave	0.7834	0.7275		0.00929	0.0100	-7.1	20.0
o-Xylene	Ave	0.6929	0.6324		0.00913	0.0100	-8.7	20.0
Styrene	Ave	1.238	1.113	0.3000	0.00899	0.0100	-10.1	20.0
Bromoform	Qua		0.1787	0.1000	0.0114	0.0100	13.7	20.0
Isopropylbenzene	Ave	1.571	1.359	0.1000	0.00865	0.0100	-13.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7824	0.7785	0.3000	0.00995	0.0100	-0.5	20.0
Bromobenzene	Ave	1.089	1.075		0.00987	0.0100	-1.3	20.0
1,2,3-Trichloropropane	Ave	0.2769	0.2591		0.00936	0.0100	-6.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2185	0.2333		0.0107	0.0100	6.8	20.0
N-Propylbenzene	Ave	1.047	0.9564		0.00913	0.0100	-8.7	20.0
2-Chlorotoluene	Ave	0.9138	0.8558		0.00937	0.0100	-6.3	20.0
1,3,5-Trimethylbenzene	Ave	2.701	2.537		0.00939	0.0100	-6.1	20.0
4-Chlorotoluene	Ave	0.9628	0.9038		0.00939	0.0100	-6.1	20.0
tert-Butylbenzene	Ave	2.282	2.079		0.00911	0.0100	-8.9	20.0
1,2,4-Trimethylbenzene	Ave	2.856	2.663		0.00932	0.0100	-6.8	20.0
sec-Butylbenzene	Ave	3.022	2.679		0.00887	0.0100	-11.3	20.0
1,3-Dichlorobenzene	Ave	1.757	1.637	0.6000	0.00932	0.0100	-6.8	20.0
4-Isopropyltoluene	Ave	2.716	2.442		0.00899	0.0100	-10.1	20.0
1,4-Dichlorobenzene	Ave	1.846	1.683	0.5000	0.00912	0.0100	-8.8	20.0
n-Butylbenzene	Ave	2.266	1.942		0.00857	0.0100	-14.3	20.0
1,2-Dichlorobenzene	Ave	1.735	1.619	0.4000	0.00933	0.0100	-6.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-221626/2 Calibration Date: 03/15/2016 10:02
 Instrument ID: A3UX11 Calib Start Date: 01/29/2016 12:13
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/29/2016 14:05
 Lab File ID: UXJ3196.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	0.1315	0.1466	0.0500	0.0111	0.0100	11.5	20.0
1,2,4-Trichlorobenzene	Ave	1.178	0.9185	0.2000	0.00780	0.0100	-22.0*	20.0
Hexachlorobutadiene	Ave	0.5495	0.3750		0.00682	0.0100	-31.8*	20.0
Naphthalene	Ave	2.682	1.989		0.00742	0.0100	-25.8*	20.0
1,2,3-Trichlorobenzene	Qua		0.7269		0.00657	0.0100	-34.3*	20.0
Dibromofluoromethane (Surr)	Ave	0.3068	0.3096		0.00749	0.00743	0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3736	0.3633		0.00722	0.00743	-2.7	20.0
Toluene-d8 (Surr)	Ave	1.953	2.039		0.00775	0.00743	4.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4537	0.4341		0.00710	0.00743	-4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: ICV 240-218452/14 Calibration Date: 02/22/2016 13:33
 Instrument ID: A3UX15 Calib Start Date: 02/22/2016 11:17
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 02/22/2016 13:11
 Lab File ID: UXC6001.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	0.3179	0.3016	0.1000	0.00949	0.0100	-5.1	20.0
Chloromethane	Ave	0.3925	0.3866	0.1000	0.00985	0.0100	-1.5	20.0
Vinyl chloride	Ave	0.3961	0.4051	0.1000	0.0102	0.0100	2.3	20.0
Butadiene	Ave	0.3790	0.3657		0.00965	0.0100	-3.5	20.0
Bromomethane	Qua		0.0804	0.0500	0.00632	0.0100	-36.8*	20.0
Chloroethane	Qua		0.1147	0.0500	0.00686	0.0100	-31.4*	20.0
Dichlorofluoromethane	Ave	0.3856	0.3388		0.00879	0.0100	-12.1	20.0
Trichlorofluoromethane	Ave	0.3278	0.3275	0.1000	0.00999	0.0100	-0.0	20.0
Ethyl ether	Ave	0.2281	0.2351		0.0103	0.0100	3.1	20.0
Acrolein	Ave	0.0235	0.0250		0.0532	0.0500	6.3	20.0
1,1-Dichloroethene	Ave	0.2960	0.3080	0.1000	0.0104	0.0100	4.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2308	0.2380	0.0500	0.0103	0.0100	3.2	20.0
Acetone	Ave	0.0675	0.0394*	0.0500	0.0117	0.0200	-41.6*	20.0
Iodomethane	Ave	0.4668	0.4806		0.0103	0.0100	3.0	20.0
Carbon disulfide	Ave	1.022	1.033	0.1000	0.0101	0.0100	1.1	20.0
3-Chloro-1-propene	Ave	0.1867	0.1954		0.0105	0.0100	4.7	20.0
Methyl acetate	Ave	0.1347	0.1329	0.1000	0.0493	0.0500	-1.3	20.0
Methylene Chloride	Lin1		0.3332	0.1000	0.0104	0.0100	3.6	20.0
2-Methyl-2-propanol	Ave	0.0095	0.0056		0.0592	0.100	-40.8*	20.0
Methyl tert-butyl ether	Ave	0.5889	0.6031	0.1000	0.0102	0.0100	2.4	20.0
Acrylonitrile	Ave	0.0764	0.0699		0.0915	0.100	-8.5	20.0
trans-1,2-Dichloroethene	Ave	0.3143	0.3353	0.1000	0.0107	0.0100	6.7	20.0
Hexane	Ave	0.0773	0.0792		0.0102	0.0100	2.4	20.0
1,1-Dichloroethane	Ave	0.5223	0.5313	0.1000	0.0102	0.0100	1.7	20.0
Vinyl acetate	Ave	0.3516	0.3037		0.00864	0.0100	-13.6	20.0
2,2-Dichloropropane	Ave	0.2644	0.2685		0.0102	0.0100	1.5	20.0
cis-1,2-Dichloroethene	Ave	0.3332	0.3425	0.1000	0.0103	0.0100	2.8	20.0
2-Butanone (MEK)	Ave	0.0853	0.0714	0.0500	0.0167	0.0200	-16.3	20.0
Chlorobromomethane	Ave	0.1510	0.1548		0.0102	0.0100	2.5	20.0
Tetrahydrofuran	Ave	0.0511	0.0464		0.0181	0.0200	-9.3	20.0
Chloroform	Ave	0.4886	0.5071	0.2000	0.0104	0.0100	3.8	20.0
1,1,1-Trichloroethane	Ave	0.3721	0.3844	0.1000	0.0103	0.0100	3.3	20.0
Cyclohexane	Ave	0.5082	0.5513	0.1000	0.0108	0.0100	8.5	20.0
1,1-Dichloropropene	Ave	0.4062	0.4246		0.0105	0.0100	4.5	20.0
Carbon tetrachloride	Ave	0.3535	0.3785	0.1000	0.0107	0.0100	7.1	20.0
Isobutyl alcohol	Ave	0.0038	0.0029		0.191	0.250	-23.8*	20.0
Benzene	Ave	1.264	1.299	0.5000	0.0103	0.0100	2.7	20.0
1,2-Dichloroethane	Ave	0.3226	0.3330	0.1000	0.0103	0.0100	3.2	20.0
n-Heptane	Ave	0.0709	0.0722		0.0102	0.0100	1.7	20.0
Trichloroethene	Ave	0.3193	0.3351	0.2000	0.0105	0.0100	4.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: ICV 240-218452/14 Calibration Date: 02/22/2016 13:33
 Instrument ID: A3UX15 Calib Start Date: 02/22/2016 11:17
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 02/22/2016 13:11
 Lab File ID: UXC6001.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	0.4719	0.5068	0.1000	0.0107	0.0100	7.4	20.0
1,2-Dichloropropane	Ave	0.2888	0.3062	0.1000	0.0106	0.0100	6.0	20.0
1,4-Dioxane	Ave	0.0018	0.0008		0.0865	0.200	-56.7*	20.0
Dibromomethane	Ave	0.1485	0.1510		0.0102	0.0100	1.7	20.0
Dichlorobromomethane	Ave	0.3602	0.3713	0.1000	0.0103	0.0100	3.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1303	0.1304		0.0100	0.0100	0.1	20.0
cis-1,3-Dichloropropene	Ave	0.4306	0.4488	0.1500	0.0104	0.0100	4.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1495	0.1566	0.0500	0.0209	0.0200	4.7	20.0
Toluene	Ave	1.740	1.836	0.4000	0.0105	0.0100	5.5	20.0
trans-1,3-Dichloropropene	Ave	0.4482	0.4561	0.1000	0.0102	0.0100	1.8	20.0
Ethyl methacrylate	Ave	0.3331	0.3669		0.0110	0.0100	10.2	20.0
1,1,2-Trichloroethane	Ave	0.2976	0.3091	0.1000	0.0104	0.0100	3.9	20.0
Tetrachloroethene	Ave	0.3295	0.3476	0.2000	0.0106	0.0100	5.5	20.0
1,3-Dichloropropane	Ave	0.5341	0.5543		0.0104	0.0100	3.8	20.0
2-Hexanone	Ave	0.1405	0.1348	0.0500	0.0192	0.0200	-4.1	20.0
Chlorodibromomethane	Ave	0.3431	0.3493		0.0102	0.0100	1.8	20.0
Ethylene Dibromide	Ave	0.2861	0.3012		0.0105	0.0100	5.3	20.0
Chlorobenzene	Ave	1.123	1.149	0.3000	0.0102	0.0100	2.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3615	0.3748		0.0104	0.0100	3.7	20.0
Ethylbenzene	Ave	0.6042	0.6306		0.0104	0.0100	4.4	20.0
m-Xylene & p-Xylene	Ave	1.423	1.478		0.0104	0.0100	3.9	20.0
o-Xylene	Ave	0.7206	0.7355		0.0102	0.0100	2.1	20.0
Styrene	Ave	1.227	1.314	0.3000	0.0107	0.0100	7.0	20.0
Bromoform	Ave	0.1975	0.2134	0.1000	0.0108	0.0100	8.0	20.0
Isopropylbenzene	Ave	1.726	1.859	0.1000	0.0108	0.0100	7.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6598	0.6618	0.3000	0.0100	0.0100	0.3	20.0
Bromobenzene	Ave	0.8556	0.8791		0.0103	0.0100	2.7	20.0
1,2,3-Trichloropropane	Ave	0.1911	0.1982		0.0104	0.0100	3.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1827	0.1779		0.00974	0.0100	-2.6	20.0
N-Propylbenzene	Ave	0.9055	0.9629		0.0106	0.0100	6.3	20.0
2-Chlorotoluene	Ave	0.7798	0.8182		0.0105	0.0100	4.9	20.0
1,3,5-Trimethylbenzene	Ave	2.583	2.702		0.0105	0.0100	4.6	20.0
4-Chlorotoluene	Ave	2.689	2.790		0.0104	0.0100	3.8	20.0
tert-Butylbenzene	Ave	2.161	2.283		0.0106	0.0100	5.7	20.0
1,2,4-Trimethylbenzene	Ave	2.680	2.779		0.0104	0.0100	3.7	20.0
sec-Butylbenzene	Ave	3.080	3.203		0.0104	0.0100	4.0	20.0
1,3-Dichlorobenzene	Ave	1.610	1.608	0.6000	0.00999	0.0100	-0.1	20.0
4-Isopropyltoluene	Ave	2.668	2.762		0.0104	0.0100	3.5	20.0
1,4-Dichlorobenzene	Ave	1.644	1.631	0.5000	0.00992	0.0100	-0.8	20.0
n-Butylbenzene	Ave	2.251	2.277		0.0101	0.0100	1.2	20.0
1,2-Dichlorobenzene	Ave	1.502	1.500	0.4000	0.00998	0.0100	-0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: ICV 240-218452/14 Calibration Date: 02/22/2016 13:33
 Instrument ID: A3UX15 Calib Start Date: 02/22/2016 11:17
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 02/22/2016 13:11
 Lab File ID: UXC6001.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	0.1142	0.1048	0.0500	0.00918	0.0100	-8.2	20.0
1,2,4-Trichlorobenzene	Ave	0.9141	0.8495	0.2000	0.00929	0.0100	-7.1	20.0
Hexachlorobutadiene	Ave	0.4235	0.3827		0.00904	0.0100	-9.6	20.0
Naphthalene	Ave	1.931	1.824		0.00945	0.0100	-5.5	20.0
1,2,3-Trichlorobenzene	Ave	0.8121	0.7428		0.00915	0.0100	-8.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2570	0.2388		0.00793	0.00853	-7.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2749	0.2432		0.00755	0.00853	-11.5	20.0
Toluene-d8 (Surr)	Ave	1.490	1.464		0.00838	0.00853	-1.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5067	0.5698		0.00959	0.00853	12.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-221416/2 Calibration Date: 03/14/2016 10:31
 Instrument ID: A3UX15 Calib Start Date: 02/22/2016 11:17
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 02/22/2016 13:11
 Lab File ID: UXC6430.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	0.3179	0.3862	0.1000	0.0121	0.0100	21.5*	20.0
Chloromethane	Ave	0.3925	0.4267	0.1000	0.0109	0.0100	8.7	20.0
Vinyl chloride	Ave	0.3961	0.4447	0.1000	0.0112	0.0100	12.3	20.0
Butadiene	Ave	0.3790	0.4368		0.0115	0.0100	15.3	20.0
Bromomethane	Qua		0.0866	0.0500	0.00674	0.0100	-32.6*	20.0
Chloroethane	Qua		0.0731	0.0500	0.00452	0.0100	-54.8*	20.0
Dichlorofluoromethane	Ave	0.3856	0.3709		0.00962	0.0100	-3.8	20.0
Trichlorofluoromethane	Ave	0.3278	0.2858	0.1000	0.00872	0.0100	-12.8	20.0
Ethyl ether	Ave	0.2281	0.2622		0.0115	0.0100	15.0	20.0
Acrolein	Ave	0.0235	0.0175		0.0372	0.0500	-25.5*	20.0
1,1-Dichloroethene	Ave	0.2960	0.3128	0.1000	0.0106	0.0100	5.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2308	0.2557	0.0500	0.0111	0.0100	10.8	20.0
Acetone	Ave	0.0675	0.0598	0.0500	0.0177	0.0200	-11.4	20.0
Iodomethane	Ave	0.4668	0.4706		0.0101	0.0100	0.8	20.0
Carbon disulfide	Ave	1.022	1.024	0.1000	0.0100	0.0100	0.2	20.0
3-Chloro-1-propene	Ave	0.1867	0.1914		0.0103	0.0100	2.5	20.0
Methyl acetate	Ave	0.1347	0.1444	0.1000	0.0536	0.0500	7.2	20.0
Methylene Chloride	Lin1		0.3612	0.1000	0.0113	0.0100	12.7	20.0
2-Methyl-2-propanol	Ave	0.0095	0.0072		0.0758	0.100	-24.2*	20.0
Methyl tert-butyl ether	Ave	0.5889	0.5855	0.1000	0.00994	0.0100	-0.6	20.0
Acrylonitrile	Ave	0.0764	0.0767		0.100	0.100	0.4	20.0
trans-1,2-Dichloroethene	Ave	0.3143	0.3276	0.1000	0.0104	0.0100	4.2	20.0
Hexane	Ave	0.0773	0.0808		0.0105	0.0100	4.5	20.0
1,1-Dichloroethane	Ave	0.5223	0.5428	0.1000	0.0104	0.0100	3.9	20.0
Vinyl acetate	Ave	0.3516	0.3921		0.0112	0.0100	11.5	20.0
2,2-Dichloropropane	Ave	0.2644	0.2572		0.00973	0.0100	-2.7	20.0
cis-1,2-Dichloroethene	Ave	0.3332	0.3516	0.1000	0.0106	0.0100	5.5	20.0
2-Butanone (MEK)	Ave	0.0853	0.0932	0.0500	0.0219	0.0200	9.3	20.0
Chlorobromomethane	Ave	0.1510	0.1617		0.0107	0.0100	7.1	20.0
Tetrahydrofuran	Ave	0.0511	0.0544		0.0213	0.0200	6.5	20.0
Chloroform	Ave	0.4886	0.5202	0.2000	0.0106	0.0100	6.5	20.0
1,1,1-Trichloroethane	Ave	0.3721	0.3769	0.1000	0.0101	0.0100	1.3	20.0
Cyclohexane	Ave	0.5082	0.5509	0.1000	0.0108	0.0100	8.4	20.0
1,1-Dichloropropene	Ave	0.4062	0.4369		0.0108	0.0100	7.6	20.0
Carbon tetrachloride	Ave	0.3535	0.3671	0.1000	0.0104	0.0100	3.8	20.0
Isobutyl alcohol	Ave	0.0038	0.0042		0.275	0.250	10.0	20.0
Benzene	Ave	1.264	1.288	0.5000	0.0102	0.0100	1.9	20.0
1,2-Dichloroethane	Ave	0.3226	0.3398	0.1000	0.0105	0.0100	5.3	20.0
n-Heptane	Ave	0.0709	0.0667		0.00940	0.0100	-6.0	20.0
Trichloroethene	Ave	0.3193	0.3345	0.2000	0.0105	0.0100	4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-221416/2 Calibration Date: 03/14/2016 10:31
 Instrument ID: A3UX15 Calib Start Date: 02/22/2016 11:17
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 02/22/2016 13:11
 Lab File ID: UXC6430.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	0.4719	0.4988	0.1000	0.0106	0.0100	5.7	20.0
1,2-Dichloropropane	Ave	0.2888	0.2858	0.1000	0.00990	0.0100	-1.0	20.0
1,4-Dioxane	Ave	0.0018	0.0014		0.157	0.200	-21.4*	20.0
Dibromomethane	Ave	0.1485	0.1547		0.0104	0.0100	4.1	20.0
Dichlorobromomethane	Ave	0.3602	0.3701	0.1000	0.0103	0.0100	2.7	20.0
2-Chloroethyl vinyl ether	Ave	0.1303	0.1283		0.0197	0.0200	-1.5	20.0
cis-1,3-Dichloropropene	Ave	0.4306	0.4209	0.1500	0.00977	0.0100	-2.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1495	0.1602	0.0500	0.0214	0.0200	7.2	20.0
Toluene	Ave	1.740	1.743	0.4000	0.0100	0.0100	0.2	20.0
trans-1,3-Dichloropropene	Ave	0.4482	0.4376	0.1000	0.00976	0.0100	-2.4	20.0
Ethyl methacrylate	Ave	0.3331	0.3603		0.0108	0.0100	8.2	20.0
1,1,2-Trichloroethane	Ave	0.2976	0.3055	0.1000	0.0103	0.0100	2.6	20.0
Tetrachloroethene	Ave	0.3295	0.3319	0.2000	0.0101	0.0100	0.7	20.0
1,3-Dichloropropane	Ave	0.5341	0.5365		0.0100	0.0100	0.4	20.0
2-Hexanone	Ave	0.1405	0.1576	0.0500	0.0224	0.0200	12.2	20.0
Chlorodibromomethane	Ave	0.3431	0.3652		0.0106	0.0100	6.4	20.0
Ethylene Dibromide	Ave	0.2861	0.2983		0.0104	0.0100	4.3	20.0
Chlorobenzene	Ave	1.123	1.134	0.3000	0.0101	0.0100	1.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3615	0.3753		0.0104	0.0100	3.8	20.0
Ethylbenzene	Ave	0.6042	0.6252		0.0103	0.0100	3.5	20.0
m-Xylene & p-Xylene	Ave	1.423	1.476		0.0104	0.0100	3.7	20.0
o-Xylene	Ave	0.7206	0.7542		0.0105	0.0100	4.7	20.0
Styrene	Ave	1.227	1.292	0.3000	0.0105	0.0100	5.3	20.0
Bromoform	Ave	0.1975	0.2219	0.1000	0.0112	0.0100	12.4	20.0
Isopropylbenzene	Ave	1.726	1.814	0.1000	0.0105	0.0100	5.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6598	0.7504	0.3000	0.0114	0.0100	13.7	20.0
Bromobenzene	Ave	0.8556	0.9044		0.0106	0.0100	5.7	20.0
1,2,3-Trichloropropane	Ave	0.1911	0.2189		0.0115	0.0100	14.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1827	0.2238		0.0123	0.0100	22.5*	20.0
N-Propylbenzene	Ave	0.9055	0.9664		0.0107	0.0100	6.7	20.0
2-Chlorotoluene	Ave	0.7798	0.8406		0.0108	0.0100	7.8	20.0
1,3,5-Trimethylbenzene	Ave	2.583	2.659		0.0103	0.0100	2.9	20.0
4-Chlorotoluene	Ave	2.689	2.825		0.0105	0.0100	5.1	20.0
tert-Butylbenzene	Ave	2.161	2.211		0.0102	0.0100	2.3	20.0
1,2,4-Trimethylbenzene	Ave	2.680	2.699		0.0101	0.0100	0.7	20.0
sec-Butylbenzene	Ave	3.080	3.073		0.00998	0.0100	-0.2	20.0
1,3-Dichlorobenzene	Ave	1.610	1.600	0.6000	0.00994	0.0100	-0.6	20.0
4-Isopropyltoluene	Ave	2.668	2.599		0.00974	0.0100	-2.6	20.0
1,4-Dichlorobenzene	Ave	1.644	1.631	0.5000	0.00992	0.0100	-0.8	20.0
n-Butylbenzene	Ave	2.251	2.078		0.00923	0.0100	-7.7	20.0
1,2-Dichlorobenzene	Ave	1.502	1.434	0.4000	0.00955	0.0100	-4.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-221416/2 Calibration Date: 03/14/2016 10:31
 Instrument ID: A3UX15 Calib Start Date: 02/22/2016 11:17
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 02/22/2016 13:11
 Lab File ID: UXC6430.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	0.1142	0.1039	0.0500	0.00910	0.0100	-9.0	20.0
1,2,4-Trichlorobenzene	Ave	0.9141	0.7058	0.2000	0.00772	0.0100	-22.8*	20.0
Hexachlorobutadiene	Ave	0.4235	0.3090		0.00730	0.0100	-27.0*	20.0
Naphthalene	Ave	1.931	1.636		0.00847	0.0100	-15.3	20.0
1,2,3-Trichlorobenzene	Ave	0.8121	0.6428		0.00792	0.0100	-20.8*	20.0
Dibromofluoromethane (Surr)	Ave	0.2570	0.2578		0.00856	0.00853	0.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2749	0.2663		0.00826	0.00853	-3.1	20.0
Toluene-d8 (Surr)	Ave	1.490	1.452		0.00831	0.00853	-2.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5067	0.5594		0.00942	0.00853	10.4	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-221416/32
 Matrix: Water Lab File ID: UXC6434.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 12:03
 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.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-221416/32
 Matrix: Water Lab File ID: UXC6434.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 12:03
 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.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	0.669	J	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		79-120
460-00-4	4-Bromofluorobenzene (Surr)	103		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-221626/6
 Matrix: Water Lab File ID: UXJ3200.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/15/2016 11:33
 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.: 221626 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-221626/6
 Matrix: Water Lab File ID: UXJ3200.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/15/2016 11:33
 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.: 221626 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	0.577	J	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120
460-00-4	4-Bromofluorobenzene (Surr)	94		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-221416/5
 Matrix: Water Lab File ID: UXC6429.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 10:08
 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.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	9.86		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	10.8		1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11.2		1.0	0.45
79-00-5	1,1,2-Trichloroethane	10.3		1.0	0.24
75-34-3	1,1-Dichloroethane	9.83		1.0	0.30
75-35-4	1,1-Dichloroethene	10.6		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	9.45		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	11.1		2.0	0.82
106-93-4	Ethylene Dibromide	10.8		1.0	0.32
95-50-1	1,2-Dichlorobenzene	9.90		1.0	0.25
107-06-2	1,2-Dichloroethane	10.4		1.0	0.23
78-87-5	1,2-Dichloropropane	10.1		1.0	0.25
541-73-1	1,3-Dichlorobenzene	9.75		1.0	0.19
106-46-7	1,4-Dichlorobenzene	9.84		1.0	0.27
78-93-3	2-Butanone (MEK)	20.9		10	0.53
591-78-6	2-Hexanone	21.9		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	23.2		10	0.99
67-64-1	Acetone	16.4		10	0.94
71-43-2	Benzene	10.1		1.0	0.35
75-27-4	Dichlorobromomethane	10.1		1.0	0.29
75-25-2	Bromoform	12.2		1.0	0.56
74-83-9	Bromomethane	6.98		1.0	0.44
75-15-0	Carbon disulfide	10.3		1.0	0.38
56-23-5	Carbon tetrachloride	10.5		1.0	0.43
108-90-7	Chlorobenzene	10.1		1.0	0.25
75-00-3	Chloroethane	6.09		1.0	0.32
67-66-3	Chloroform	10.3		1.0	0.25
74-87-3	Chloromethane	9.53		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	10.4		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	10.0		1.0	0.46
110-82-7	Cyclohexane	10.7		1.0	0.45
124-48-1	Chlorodibromomethane	10.6		1.0	0.43
75-71-8	Dichlorodifluoromethane	6.16		1.0	0.32
100-41-4	Ethylbenzene	10.2		1.0	0.25
98-82-8	Isopropylbenzene	10.6		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-221416/5
 Matrix: Water Lab File ID: UXC6429.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 10:08
 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.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	57.6		10	2.3
1634-04-4	Methyl tert-butyl ether	10.0		1.0	0.20
108-87-2	Methylcyclohexane	10.5		1.0	0.43
75-09-2	Methylene Chloride	11.2		1.0	0.33
100-42-5	Styrene	10.5		1.0	0.45
127-18-4	Tetrachloroethene	10.0		1.0	0.31
108-88-3	Toluene	10.1		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	10.5		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	9.83		1.0	0.56
79-01-6	Trichloroethene	10.5		1.0	0.22
75-69-4	Trichlorofluoromethane	8.67		1.0	0.49
75-01-4	Vinyl chloride	9.34		1.0	0.29
1330-20-7	Xylenes, Total	20.6		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		79-120
460-00-4	4-Bromofluorobenzene (Surr)	111		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-221626/4
 Matrix: Water Lab File ID: UXJ3197.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/15/2016 10:24
 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.: 221626 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	9.60		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	10.3		1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.83		1.0	0.45
79-00-5	1,1,2-Trichloroethane	9.74		1.0	0.24
75-34-3	1,1-Dichloroethane	9.82		1.0	0.30
75-35-4	1,1-Dichloroethene	10.5		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	8.29		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	12.0		2.0	0.82
106-93-4	Ethylene Dibromide	9.66		1.0	0.32
95-50-1	1,2-Dichlorobenzene	9.22		1.0	0.25
107-06-2	1,2-Dichloroethane	9.23		1.0	0.23
78-87-5	1,2-Dichloropropane	10.2		1.0	0.25
541-73-1	1,3-Dichlorobenzene	9.32		1.0	0.19
106-46-7	1,4-Dichlorobenzene	9.20		1.0	0.27
78-93-3	2-Butanone (MEK)	18.0		10	0.53
591-78-6	2-Hexanone	18.9		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	20.6		10	0.99
67-64-1	Acetone	13.6		10	0.94
71-43-2	Benzene	10.0		1.0	0.35
75-27-4	Dichlorobromomethane	10.0		1.0	0.29
75-25-2	Bromoform	11.6		1.0	0.56
74-83-9	Bromomethane	7.50		1.0	0.44
75-15-0	Carbon disulfide	11.3		1.0	0.38
56-23-5	Carbon tetrachloride	10.6		1.0	0.43
108-90-7	Chlorobenzene	9.35		1.0	0.25
75-00-3	Chloroethane	7.56		1.0	0.32
67-66-3	Chloroform	9.59		1.0	0.25
74-87-3	Chloromethane	10.3		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.99		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	10.6		1.0	0.46
110-82-7	Cyclohexane	9.80		1.0	0.45
124-48-1	Chlorodibromomethane	10.6		1.0	0.43
75-71-8	Dichlorodifluoromethane	6.52		1.0	0.32
100-41-4	Ethylbenzene	9.23		1.0	0.25
98-82-8	Isopropylbenzene	8.77		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-221626/4
 Matrix: Water Lab File ID: UXJ3197.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/15/2016 10:24
 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.: 221626 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	50.6		10	2.3
1634-04-4	Methyl tert-butyl ether	10.3		1.0	0.20
108-87-2	Methylcyclohexane	9.84		1.0	0.43
75-09-2	Methylene Chloride	10.5		1.0	0.33
100-42-5	Styrene	8.94		1.0	0.45
127-18-4	Tetrachloroethene	9.32		1.0	0.31
108-88-3	Toluene	9.54		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	10.3		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	10.4		1.0	0.56
79-01-6	Trichloroethene	9.97		1.0	0.22
75-69-4	Trichlorofluoromethane	7.19		1.0	0.49
75-01-4	Vinyl chloride	9.45		1.0	0.29
1330-20-7	Xylenes, Total	18.5		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		79-120
460-00-4	4-Bromofluorobenzene (Surr)	97		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-61898-B-1 MS
 Matrix: Water Lab File ID: UXC6452.D
 Analysis Method: 8260C Date Collected: 03/08/2016 09:50
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 18:50
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	45.5		5.0	2.2
79-34-5	1,1,2,2-Tetrachloroethane	160		5.0	1.1
79-00-5	1,1,2-Trichloroethane	56.0		5.0	1.2
75-34-3	1,1-Dichloroethane	47.5		5.0	1.5
75-35-4	1,1-Dichloroethene	49.6		5.0	2.3
95-50-1	1,2-Dichlorobenzene	49.5		5.0	1.3
106-46-7	1,4-Dichlorobenzene	48.4		5.0	1.4
71-43-2	Benzene	49.0		5.0	1.8
56-23-5	Carbon tetrachloride	48.2		5.0	2.2
108-90-7	Chlorobenzene	51.0		5.0	1.3
67-66-3	Chloroform	59.2		5.0	1.3
74-87-3	Chloromethane	53.9		5.0	2.2
156-59-2	cis-1,2-Dichloroethene	111		5.0	1.3
75-09-2	Methylene Chloride	53.0		5.0	1.7
127-18-4	Tetrachloroethene	92.1		5.0	1.6
108-88-3	Toluene	51.0		5.0	1.2
156-60-5	trans-1,2-Dichloroethene	51.6		5.0	1.5
79-01-6	Trichloroethene	128		5.0	1.1
75-01-4	Vinyl chloride	38.6		5.0	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		79-120
460-00-4	4-Bromofluorobenzene (Surr)	108		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-61898-B-1 MSD
 Matrix: Water Lab File ID: UXC6453.D
 Analysis Method: 8260C Date Collected: 03/08/2016 09:50
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221416 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	46.6		5.0	2.2
79-34-5	1,1,2,2-Tetrachloroethane	165		5.0	1.1
79-00-5	1,1,2-Trichloroethane	54.5		5.0	1.2
75-34-3	1,1-Dichloroethane	48.4		5.0	1.5
75-35-4	1,1-Dichloroethene	50.6		5.0	2.3
95-50-1	1,2-Dichlorobenzene	48.5		5.0	1.3
106-46-7	1,4-Dichlorobenzene	49.0		5.0	1.4
71-43-2	Benzene	49.0		5.0	1.8
56-23-5	Carbon tetrachloride	49.2		5.0	2.2
108-90-7	Chlorobenzene	49.9		5.0	1.3
67-66-3	Chloroform	59.5		5.0	1.3
74-87-3	Chloromethane	47.8		5.0	2.2
156-59-2	cis-1,2-Dichloroethene	110		5.0	1.3
75-09-2	Methylene Chloride	53.5		5.0	1.7
127-18-4	Tetrachloroethene	91.9		5.0	1.6
108-88-3	Toluene	50.9		5.0	1.2
156-60-5	trans-1,2-Dichloroethene	52.2		5.0	1.5
79-01-6	Trichloroethene	127		5.0	1.1
75-01-4	Vinyl chloride	37.9		5.0	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		79-120
460-00-4	4-Bromofluorobenzene (Surr)	107		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		78-125

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica CantonJob No.: 240-61965-1

SDG No.: _____

Instrument ID: A3UX11Start Date: 01/29/2016 11:47Analysis Batch Number: 215848End Date: 01/29/2016 19:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-215848/1		01/29/2016 11:47	1	BFB6129.D	DB-624 0.18 (mm)
STD8260 240-215848/2 IC		01/29/2016 12:13	1	UXJ2365.D	DB-624 0.18 (mm)
STD8260 240-215848/3 IC		01/29/2016 12:35	1	UXJ2366.D	DB-624 0.18 (mm)
STD8260 240-215848/4 ICIS		01/29/2016 12:58	1	UXJ2367.D	DB-624 0.18 (mm)
STD8260 240-215848/5 IC		01/29/2016 13:20	1	UXJ2368.D	DB-624 0.18 (mm)
STD8260 240-215848/6 IC		01/29/2016 13:42	1	UXJ2369.D	DB-624 0.18 (mm)
STD8260 240-215848/7 IC		01/29/2016 14:05	1	UXJ2370.D	DB-624 0.18 (mm)
ICV 240-215848/14		01/29/2016 14:27	1	UXJ2371.D	DB-624 0.18 (mm)
STD6 240-215848/8 IC		01/29/2016 14:50	1		DB-624 0.18 (mm)
STD5 240-215848/9 IC		01/29/2016 15:12	1		DB-624 0.18 (mm)
STD4 240-215848/10 IC		01/29/2016 15:35	1		DB-624 0.18 (mm)
STD3 240-215848/11 IC		01/29/2016 15:57	1		DB-624 0.18 (mm)
STD2 240-215848/12 IC		01/29/2016 16:19	1		DB-624 0.18 (mm)
STD1 240-215848/13 IC		01/29/2016 16:41	1		DB-624 0.18 (mm)
ICV 240-215848/15		01/29/2016 17:04	1	UXJ2378.D	DB-624 0.18 (mm)
STDTHT 240-215848/17 IC		01/29/2016 17:49	1		DB-624 0.18 (mm)
STDTHT 240-215848/18 IC		01/29/2016 18:11	1		DB-624 0.18 (mm)
STDTHT 240-215848/19 IC		01/29/2016 18:34	1		DB-624 0.18 (mm)
STDTHT 240-215848/20 IC		01/29/2016 18:56	1		DB-624 0.18 (mm)
STDTHT 240-215848/21 IC		01/29/2016 19:19	1		DB-624 0.18 (mm)
STDTHT 240-215848/22 IC		01/29/2016 19:41	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: A3UX11 Start Date: 03/15/2016 09:20Analysis Batch Number: 221626 End Date: 03/15/2016 11:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-221626/1		03/15/2016 09:20	1	BFB6315.D	DB-624 0.18 (mm)
CCVIS 240-221626/2		03/15/2016 10:02	1	UXJ3196.D	DB-624 0.18 (mm)
LCS 240-221626/4		03/15/2016 10:24	1	UXJ3197.D	DB-624 0.18 (mm)
CCV 240-221626/3		03/15/2016 10:47	1	UXJ3198.D	DB-624 0.18 (mm)
ZZZZZ		03/15/2016 11:10	1		DB-624 0.18 (mm)
MB 240-221626/6		03/15/2016 11:33	1	UXJ3200.D	DB-624 0.18 (mm)
240-61965-2		03/15/2016 11:55	2.5	UXJ3201.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: A3UX15 Start Date: 02/22/2016 10:38Analysis Batch Number: 218452 End Date: 02/22/2016 16:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-218452/1		02/22/2016 10:38	1	BFB526.D	DB-624 0.18 (mm)
STD8260 240-218452/2 IC		02/22/2016 11:17	1	UXC5995.D	DB-624 0.18 (mm)
STD8260 240-218452/3 IC		02/22/2016 11:40	1	UXC5996.D	DB-624 0.18 (mm)
STD8260 240-218452/4 ICIS		02/22/2016 12:03	1	UXC5997.D	DB-624 0.18 (mm)
STD8260 240-218452/5 IC		02/22/2016 12:25	1	UXC5998.D	DB-624 0.18 (mm)
STD8260 240-218452/6 IC		02/22/2016 12:48	1	UXC5999.D	DB-624 0.18 (mm)
STD8260 240-218452/7 IC		02/22/2016 13:11	1	UXC6000.D	DB-624 0.18 (mm)
ICV 240-218452/14		02/22/2016 13:33	1	UXC6001.D	DB-624 0.18 (mm)
STD 240-218452/8 IC		02/22/2016 13:56	1		DB-624 0.18 (mm)
STD 240-218452/9 IC		02/22/2016 14:19	1		DB-624 0.18 (mm)
STD 240-218452/10 IC		02/22/2016 14:41	1		DB-624 0.18 (mm)
STD 240-218452/11 IC		02/22/2016 15:04	1		DB-624 0.18 (mm)
STD 240-218452/12 IC		02/22/2016 15:26	1		DB-624 0.18 (mm)
STD 240-218452/13 IC		02/22/2016 15:49	1		DB-624 0.18 (mm)
ICV 240-218452/15		02/22/2016 16:12	1	UXC6008.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica CantonJob No.: 240-61965-1

SDG No.: _____

Instrument ID: A3UX15Start Date: 03/14/2016 09:10Analysis Batch Number: 221416End Date: 03/14/2016 20:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-221416/1		03/14/2016 09:10	1	BFB541.D	DB-624 0.18 (mm)
LCS 240-221416/5		03/14/2016 10:08	1	UXC6429.D	DB-624 0.18 (mm)
CCVIS 240-221416/2		03/14/2016 10:31	1	UXC6430.D	DB-624 0.18 (mm)
CCV 240-221416/3		03/14/2016 10:53	1	UXC6431.D	DB-624 0.18 (mm)
ZZZZZ		03/14/2016 11:41	1		DB-624 0.18 (mm)
MB 240-221416/32		03/14/2016 12:03	1	UXC6434.D	DB-624 0.18 (mm)
ZZZZZ		03/14/2016 12:28	5		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 12:50	5		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 13:12	10		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 13:35	1		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 13:57	1000		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 14:19	11.11		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 14:42	1		DB-624 0.18 (mm)
240-61965-1		03/14/2016 15:04	1	UXC6442.D	DB-624 0.18 (mm)
ZZZZZ		03/14/2016 15:27	2.5		DB-624 0.18 (mm)
240-61965-3		03/14/2016 15:50	50	UXC6444.D	DB-624 0.18 (mm)
240-61965-4		03/14/2016 16:12	333.33	UXC6445.D	DB-624 0.18 (mm)
240-61965-5		03/14/2016 16:35	33.33	UXC6446.D	DB-624 0.18 (mm)
240-61965-6		03/14/2016 16:58	25	UXC6447.D	DB-624 0.18 (mm)
ZZZZZ		03/14/2016 17:20	142.86		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 17:43	1		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 18:05	1		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 18:28	14.29		DB-624 0.18 (mm)
240-61898-B-1 MS		03/14/2016 18:50	5	UXC6452.D	DB-624 0.18 (mm)
240-61898-B-1 MSD		03/14/2016 19:12	5	UXC6453.D	DB-624 0.18 (mm)
ZZZZZ		03/14/2016 19:34	142.86		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 19:56	142.86		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 20:19	142.86		DB-624 0.18 (mm)
ZZZZZ		03/14/2016 20:41	142.86		DB-624 0.18 (mm)

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): _____ ID: _____

Client Sample ID	Lab Sample ID	TFE1 #
NMW-1I-030916	240-61965-3	109
NMW-3I-030916	240-61965-6	103
NMW-3I-030916	240-61965-6	96
	MB 240-221537/4	110
	MB 240-221825/4	111
	LCS 240-221537/5	108
	LCS 240-221825/5	107
NMW-3I-030916 MS	240-61965-6 MS	102
	240-61866-M-1 MS	95
NMW-3I-030916 MSD	240-61965-6 MSD	101
	240-61866-P-1 MSD	91

TFE = 1,1,1-Trifluoroethane

QC LIMITS
66-132

Column to be used to flag recovery values

FORM II RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 005F0501.D

Lab ID: LCS 240-221537/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	339	97	81-120	
Ethane	374	361	97	80-120	
Methane	199	186	94	76-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 005F0501.D
 Lab ID: LCS 240-221825/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	345	99	81-120	
Ethane	374	368	98	80-120	
Methane	199	189	95	76-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 010F1001.D
 Lab ID: 240-61965-6 MS Client ID: NMW-3I-030916 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethene	3490	110	3370	93	60-120	
Ethane	3740	120	3630	94	61-120	
Methane	1990	12000	10900	-63	34-153	4

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 020F2001.D

Lab ID: 240-61866-M-1 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethene	349	0.50 U	311	89	60-120	
Ethane	374	0.31 J	339	91	61-120	
Methane	199	3.6	182	90	34-153	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 011F1101.D

Lab ID: 240-61965-6 MSD Client ID: NMW-3I-030916 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethene	3490	3380	94	0	17	60-120	
Ethane	3740	3690	95	2	21	61-120	
Methane	1990	11400	-36	5	22	34-153	4

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 021F2101.D

Lab ID: 240-61866-P-1 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethene	349	318	91	2	17	60-120	
Ethane	374	354	95	4	21	61-120	
Methane	199	187	92	3	22	34-153	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: MB 240-221537/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 004F0401.D Lab File ID: (2) _____
 Date Analyzed: (1) 03/15/2016 10:58 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) _____ ID: _____ GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 240-221537/5	03/15/2016 11:16	
NMW-1I-030916	240-61965-3	03/15/2016 11:33	
NMW-3I-030916	240-61965-6	03/15/2016 11:50	
	240-61866-M-1 MS	03/15/2016 15:35	
	240-61866-P-1 MSD	03/15/2016 15:52	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: MB 240-221825/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 004F0401.D Lab File ID: (2) _____
 Date Analyzed: (1) 03/16/2016 16:17 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) _____ ID: _____ GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 240-221825/5	03/16/2016 16:34	
NMW-3I-030916	240-61965-6	03/16/2016 17:43	
NMW-3I-030916 MS	240-61965-6 MS	03/16/2016 18:01	
NMW-3I-030916 MSD	240-61965-6 MSD	03/16/2016 18:18	

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Sample No.: STD3 240-214437/5 Date Analyzed: 01/18/2016 16:06
 Instrument ID: ZPID GC Column: _____ ID: ()
 Lab File ID (Standard): Z0011805.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
INITIAL CALIBRATION SURROGATE				3.33		
UPPER LIMIT				3.38		
LOWER LIMIT				3.28		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD3 240-214437/5 ICRT		01/18/2016 16:06	Z0011805.D	3.33		
ICV 240-214437/9		01/18/2016 17:08	Z0011809.D	3.33		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Sample No.: CCVRT 240-221537/3 Date Analyzed: 03/15/2016 10:41
 Instrument ID: ZPID GC Column: _____ ID: ()
 Lab File ID (Standard): 003F0301.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.33		
UPPER LIMIT				3.38		
LOWER LIMIT				3.28		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-221537/3		03/15/2016 10:41	003F0301.D	3.33		
MB 240-221537/4		03/15/2016 10:58	004F0401.D	3.33		
LCS 240-221537/5		03/15/2016 11:16	005F0501.D	3.33		
240-61965-3	NMW-1I-030916	03/15/2016 11:33	006F0601.D	3.33		
240-61965-6	NMW-3I-030916	03/15/2016 11:50	007F0701.D	3.33		
CCV 240-221537/14		03/15/2016 13:51	014F1401.D	3.33		
240-61866-M-1 MS		03/15/2016 15:35	020F2001.D	3.33		
240-61866-P-1 MSD		03/15/2016 15:52	021F2101.D	3.33		
CCV 240-221537/25		03/15/2016 17:01	025F2501.D	3.33		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Instrument ID: ZPID Calibration Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calibration End Date: 01/18/2016 16:53
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
INITIAL CALIBRATION SURROGATE MEAN RT						
UPPER LIMIT				3.43		
LOWER LIMIT				3.23		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-221825/3 ICRTAV		03/16/2016 15:59	003F0301.D	3.33		
MB 240-221825/4		03/16/2016 16:17	004F0401.D	3.33		
LCS 240-221825/5		03/16/2016 16:34	005F0501.D	3.33		
240-61965-6	NMW-3I-030916	03/16/2016 17:43	009F0901.D	3.33		
240-61965-6 MS	NMW-3I-030916 MS	03/16/2016 18:01	010F1001.D	3.33		
240-61965-6 MSD	NMW-3I-030916 MSD	03/16/2016 18:18	011F1101.D	3.33		
CCV 240-221825/14		03/16/2016 19:09	014F1401.D	3.33		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-1I-030916 Lab Sample ID: 240-61965-3
 Matrix: Water Lab File ID: 006F0601.D
 Analysis Method: RSK-175 Date Collected: 03/09/2016 10:15
 Sample wt/vol: 33 (mL) Date Analyzed: 03/15/2016 11:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: _____ ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	2.5		0.50	0.13
74-84-0	Ethane	0.28	J	0.50	0.14
74-82-8	Methane	1100		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	109		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-3I-030916 Lab Sample ID: 240-61965-6
 Matrix: Water Lab File ID: 007F0701.D
 Analysis Method: RSK-175 Date Collected: 03/09/2016 13:40
 Sample wt/vol: 33 (mL) Date Analyzed: 03/15/2016 11:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: _____ ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	83		0.50	0.13
74-84-0	Ethane	79		0.50	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	103		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-3I-030916 Lab Sample ID: 240-61965-6
 Matrix: Water Lab File ID: 009F0901.D
 Analysis Method: RSK-175 Date Collected: 03/09/2016 13:40
 Sample wt/vol: 33 (mL) Date Analyzed: 03/16/2016 17:43
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: _____ ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221825 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	12000		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	96		66-132

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Methane	1.178	1.179	1.178	1.177	1.176	1.175					1.125 - 1.225	1.177
Ethene	1.871	1.872	1.872	1.870	1.869	1.865					1.815 - 1.915	1.870
Acetylene	1.985	1.982	1.982	1.984	1.983	1.979					1.929 - 2.029	1.983
Ethane	2.191	2.192	2.188	2.190	2.189	2.179					1.979 - 2.379	2.188
Propane	4.535	4.535	4.532	4.530	4.526	4.505					4.455 - 4.555	4.527
1,1,1-Trifluoroethane	3.331	3.332	3.328	3.324	3.319						3.228 - 3.428	3.327

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.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								
Methane	16635 16339	16394 17321	16338	16069	Ave		16516.1974			2.6			30.0			
Ethene	12459 15191	15005 16050	15614	14955	Ave		14878.7453			8.4			30.0			
Acetylene	5207.9 6736.9	5918.0 6848.7	6621.7	6347.3	Ave		6280.08282			9.9			30.0			
Ethane	12801 15860	15600 17080	16229	15623	Ave		15532.1681			9.3			30.0			
Propane	12702 15394	15026 17064	15933	14986	Ave		15184.1425			9.5			30.0			
1,1,1-Trifluoroethane	6027.5 6174.1	6495.1	6443.1	6377.0	Ave		6303.36685			3.1			30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-61965-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.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
Methane	Ave	4299 34421990	32590	162394	1597146	6493970	0.258 1987	1.99	9.94	99.4	397
Ethene	Ave	5654 56017687	52380	272536	2610268	10604119	0.454 3490	3.49	17.5	175	698
Acetylene	Ave	2187 22117246	19117	106950	1025188	4351198	0.420 3229	3.23	16.2	162	646
Ethane	Ave	6223 63858213	58336	303430	2921002	11859185	0.486 3739	3.74	18.7	187	748
Propane	Ave	9047 93473662	82323	436476	4105331	16864776	0.712 5478	5.48	27.4	274	1096
1,1,1-Trifluoroethane	Ave	1572249	6776913	16806617	33268209	64418942	261	1043	2608	5217	10434

Curve Type Legend:

Ave = Average

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: ICV 240-214437/9 Calibration Date: 01/18/2016 17:08
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: Z0011809.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15087		182	199	-8.7	30.0
Ethene	Ave	14879	16432		385	349	10.4	30.0
Acetylene	Ave	6280	6935		357	323	10.4	30.0
Ethane	Ave	15532	17873		430	374	15.1	30.0
Propane	Ave	15184	18496		665	546	21.8	30.0
1,1,1-Trifluoroethane	Ave	6303	7158		3470	3050	13.6	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: ICV 240-214437/9 Calibration Date: 01/18/2016 17:08
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: Z0011809.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.98	1.93	2.03
Ethane	2.19	1.98	2.38
Propane	4.53	4.46	4.56
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-221537/3 Calibration Date: 03/15/2016 10:41
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: 003F0301.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15193		183	199	-8.0	30.0
Ethene	Ave	14879	14375		337	349	-3.4	30.0
Acetylene	Ave	6280	7224		371	323	15.0	30.0
Ethane	Ave	15532	14874		358	374	-4.2	30.0
Propane	Ave	15184	15155		547	548	-0.2	30.0
1,1,1-Trifluoroethane	Ave	6303	6773		3280	3050	7.5	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-221537/3 Calibration Date: 03/15/2016 10:41
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: 003F0301.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.99	1.94	2.04
Ethane	2.19	1.99	2.39
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCV 240-221537/14 Calibration Date: 03/15/2016 13:51
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: 014F1401.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15198		183	199	-8.0	30.0
Ethene	Ave	14879	13665		321	349	-8.2	30.0
Acetylene	Ave	6280	6088		313	323	-3.1	30.0
Ethane	Ave	15532	14548		350	374	-6.3	30.0
Propane	Ave	15184	14502		523	548	-4.5	30.0
1,1,1-Trifluoroethane	Ave	6303	6346		3070	3050	0.7	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCV 240-221537/14 Calibration Date: 03/15/2016 13:51
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: 014F1401.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.99	1.94	2.04
Ethane	2.19	1.99	2.39
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCV 240-221537/25 Calibration Date: 03/15/2016 17:01
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: 025F2501.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	14643		176	199	-11.3	30.0
Ethene	Ave	14879	12354		290	349	-17.0	30.0
Acetylene	Ave	6280	5282		272	323	-15.9	30.0
Ethane	Ave	15532	13409		323	374	-13.7	30.0
Propane	Ave	15184	12725		459	548	-16.2	30.0
1,1,1-Trifluoroethane	Ave	6303	5729		2770	3050	-9.1	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCV 240-221537/25 Calibration Date: 03/15/2016 17:01
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: 025F2501.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.17	1.12	1.22
Ethene	1.87	1.82	1.92
Acetylene	1.98	1.93	2.03
Ethane	2.19	1.99	2.39
Propane	4.53	4.48	4.58
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCV 240-221825/14 Calibration Date: 03/16/2016 19:09
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: 014F1401.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15342		185	199	-7.1	30.0
Ethene	Ave	14879	13479		316	349	-9.4	30.0
Acetylene	Ave	6280	5797		298	323	-7.7	30.0
Ethane	Ave	15532	14536		350	374	-6.4	30.0
Propane	Ave	15184	14303		516	548	-5.8	30.0
1,1,1-Trifluoroethane	Ave	6303	6098		2950	3050	-3.3	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Lab Sample ID: CCV 240-221825/14 Calibration Date: 03/16/2016 19:09
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: 014F1401.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.17	1.12	1.22
Ethene	1.87	1.82	1.92
Acetylene	1.98	1.93	2.03
Ethane	2.19	1.99	2.39
Propane	4.53	4.48	4.58
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-221537/4
 Matrix: Water Lab File ID: 004F0401.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 03/15/2016 10:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: _____ ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	110		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-221825/4
 Matrix: Water Lab File ID: 004F0401.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 03/16/2016 16:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: _____ ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221825 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	111		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-221537/5
 Matrix: Water Lab File ID: 005F0501.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 03/15/2016 11:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: _____ ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	339		0.50	0.13
74-84-0	Ethane	361		0.50	0.14
74-82-8	Methane	186		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	108		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-221825/5
 Matrix: Water Lab File ID: 005F0501.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 03/16/2016 16:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: _____ ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221825 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	345		0.50	0.13
74-84-0	Ethane	368		0.50	0.14
74-82-8	Methane	189		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	107		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-3I-030916 MS Lab Sample ID: 240-61965-6 MS
 Matrix: Water Lab File ID: 010F1001.D
 Analysis Method: RSK-175 Date Collected: 03/09/2016 13:40
 Sample wt/vol: 33 (mL) Date Analyzed: 03/16/2016 18:01
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: _____ ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221825 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	3370		5.0	1.3
74-84-0	Ethane	3630		5.0	1.4
74-82-8	Methane	10900		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	102		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-61866-M-1 MS
 Matrix: Water Lab File ID: 020F2001.D
 Analysis Method: RSK-175 Date Collected: 03/07/2016 12:20
 Sample wt/vol: 33 (mL) Date Analyzed: 03/15/2016 15:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: _____ ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	311		0.50	0.13
74-84-0	Ethane	339		0.50	0.14
74-82-8	Methane	182		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	95		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: NMW-3I-030916 MSD Lab Sample ID: 240-61965-6 MSD
 Matrix: Water Lab File ID: 011F1101.D
 Analysis Method: RSK-175 Date Collected: 03/09/2016 13:40
 Sample wt/vol: 33 (mL) Date Analyzed: 03/16/2016 18:18
 Soil Aliquot Vol.: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: _____ ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221825 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	3380		5.0	1.3
74-84-0	Ethane	3690		5.0	1.4
74-82-8	Methane	11400		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	101		66-132

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-61866-P-1 MSD
 Matrix: Water Lab File ID: 021F2101.D
 Analysis Method: RSK-175 Date Collected: 03/07/2016 12:20
 Sample wt/vol: 33 (mL) Date Analyzed: 03/15/2016 15:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: _____ ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	318		0.50	0.13
74-84-0	Ethane	354		0.50	0.14
74-82-8	Methane	187		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	91		66-132

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: ZPID Start Date: 01/18/2016 15:34

Analysis Batch Number: 214437 End Date: 01/18/2016 17:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-214437/3 IC		01/18/2016 15:34	1	Z0011803.D	
STD2 240-214437/4 IC		01/18/2016 15:50	1	Z0011804.D	
STD3 240-214437/5 ICRT		01/18/2016 16:06	1	Z0011805.D	
STD4 240-214437/6 IC		01/18/2016 16:21	1	Z0011806.D	
STD5 240-214437/7 IC		01/18/2016 16:37	1	Z0011807.D	
STD6 240-214437/8 IC		01/18/2016 16:53	1	Z0011808.D	
ICV 240-214437/9		01/18/2016 17:08	1	Z0011809.D	

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: ZPID Start Date: 03/15/2016 10:41

Analysis Batch Number: 221537 End Date: 03/15/2016 17:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-221537/3		03/15/2016 10:41	1	003F0301.D	
MB 240-221537/4		03/15/2016 10:58	1	004F0401.D	
LCS 240-221537/5		03/15/2016 11:16	1	005F0501.D	
240-61965-3		03/15/2016 11:33	1	006F0601.D	
240-61965-6		03/15/2016 11:50	1	007F0701.D	
ZZZZZ		03/15/2016 12:07	1		
ZZZZZ		03/15/2016 12:25	1		
ZZZZZ		03/15/2016 12:42	1		
ZZZZZ		03/15/2016 12:59	1		
ZZZZZ		03/15/2016 13:16	1		
ZZZZZ		03/15/2016 13:33	1		
CCV 240-221537/14		03/15/2016 13:51	1	014F1401.D	
ZZZZZ		03/15/2016 14:08	1		
ZZZZZ		03/15/2016 14:25	1		
ZZZZZ		03/15/2016 14:43	1		
ZZZZZ		03/15/2016 15:00	1		
ZZZZZ		03/15/2016 15:17	1		
240-61866-M-1 MS		03/15/2016 15:35	1	020F2001.D	
240-61866-P-1 MSD		03/15/2016 15:52	1	021F2101.D	
ZZZZZ		03/15/2016 16:09	1		
ZZZZZ		03/15/2016 16:26	1		
ZZZZZ		03/15/2016 16:44	1		
CCV 240-221537/25		03/15/2016 17:01	1	025F2501.D	
ZZZZZ		03/15/2016 17:18	1		
ZZZZZ		03/15/2016 17:35	1		
CCV 240-221537/28		03/15/2016 17:53	1		

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: ZPID Start Date: 03/16/2016 15:59Analysis Batch Number: 221825 End Date: 03/16/2016 22:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-221825/3 ICRTAV		03/16/2016 15:59	1	003F0301.D	
MB 240-221825/4		03/16/2016 16:17	1	004F0401.D	
LCS 240-221825/5		03/16/2016 16:34	1	005F0501.D	
ZZZZZ		03/16/2016 16:51	1		
ZZZZZ		03/16/2016 17:09	10		
ZZZZZ		03/16/2016 17:26	10		
240-61965-6		03/16/2016 17:43	10	009F0901.D	
240-61965-6 MS		03/16/2016 18:01	10	010F1001.D	
240-61965-6 MSD		03/16/2016 18:18	10	011F1101.D	
ZZZZZ		03/16/2016 18:35	1		
ZZZZZ		03/16/2016 18:52	1		
CCV 240-221825/14		03/16/2016 19:09	1	014F1401.D	
ZZZZZ		03/16/2016 19:27	1		
ZZZZZ		03/16/2016 19:44	1		
ZZZZZ		03/16/2016 20:01	1		
ZZZZZ		03/16/2016 20:18	1		
ZZZZZ		03/16/2016 20:36	1		
ZZZZZ		03/16/2016 20:53	1		
ZZZZZ		03/16/2016 21:10	1		
ZZZZZ		03/16/2016 21:27	1		
ZZZZZ		03/16/2016 21:44	1		
CCV 240-221825/24		03/16/2016 22:02	1		

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-61965-1

SDG No.: _____

Project: MRC Block I GW Remedy

Client Sample ID	Lab Sample ID
<u>NMW-1I-030916</u>	<u>240-61965-3</u>
<u>NMW-3I-030916</u>	<u>240-61965-6</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: NMW-1I-030916

Lab Sample ID: 240-61965-3

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG ID.: _____

Matrix: Water

Date Sampled: 03/09/2016 10:15

Reporting Basis: WET

Date Received: 03/10/2016 11:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	52000	200	13	ug/L		B	1	6010C
7439-96-5	Manganese	12000	15	0.46	ug/L		B	1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: NMW-3I-030916

Lab Sample ID: 240-61965-6

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG ID.: _____

Matrix: Water

Date Sampled: 03/09/2016 13:40

Reporting Basis: WET

Date Received: 03/10/2016 11:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	140000	200	13	ug/L		B	1	6010C
7439-96-5	Manganese	5600	15	0.46	ug/L		B	1	6010C

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

ICV Source: MT6500ICV_00030 Concentration Units: ug/L

CCV Source: MTICPCCV_00068

Analyte	ICV 240-221722/4 03/15/2016 13:36				CCV 240-221722/78 03/15/2016 18:44				CCV 240-221722/90 03/15/2016 19:32			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	12600		12500	101	24800		25000	99	24800		25000	99
Manganese	1530		1500	102	1990		2000	99	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.: 240-61965-1

SDG No.: _____

ICV Source: MT6500ICV_00030 Concentration Units: ug/L

CCV Source: MTICPCCV_00068

Analyte	CCV 240-221722/102 03/15/2016 20:19				CCV 240-221722/114 03/15/2016 21:07							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	24800		25000	99	24800		25000	99				
Manganese	2000		2000	100	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.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Method: 6010C Instrument ID: I9

Lab Sample ID: CRI 240-221722/20 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00033

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	203		102	70-130
Manganese	15.0	16.3		108	70-130

Lab Sample ID: CRI 240-221722/106 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00033

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	230		115	70-130
Manganese	15.0	16.8		112	70-130

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.: 240-61965-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-221722/5 03/15/2016 13:40		CCB 240-221722/79 03/15/2016 18:48		CCB 240-221722/91 03/15/2016 19:35		CCB 240-221722/103 03/15/2016 20:22	
		Found	C	Found	C	Found	C	Found	C
Iron	200	200	U	200	U	200	U	200	U
Manganese	15	15	U	15	U	15	U	15	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-221722/115 03/15/2016 21:11							
		Found	C	Found	C	Found	C	Found	C
Iron	200	200	U						
Manganese	15	15	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-61965-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-221419/1-A
Instrument Code: I9 Batch No.: 221722

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	32.1	J		6010C
7439-96-5	Manganese	0.601	J		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Lab Sample ID: ICSA 240-221722/8

Instrument ID: I9

Lab File ID: I9031516A.asc

ICS Source: MTRICSAW_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	188120	94
Manganese		1.85	
<i>Aluminum</i>	<i>500000</i>	<i>503530</i>	<i>101</i>
<i>Antimony</i>		<i>3.62</i>	
<i>Arsenic</i>		<i>-1.96</i>	
<i>Barium</i>		<i>-0.0261</i>	
<i>Beryllium</i>		<i>0.0989</i>	
<i>Boron</i>		<i>-13.7</i>	
<i>Cadmium</i>		<i>0.408</i>	
<i>Calcium</i>	<i>500000</i>	<i>470250</i>	<i>94</i>
<i>Chromium</i>		<i>3.31</i>	
<i>Cobalt</i>		<i>-0.632</i>	
<i>Copper</i>		<i>2.57</i>	
<i>Lead</i>		<i>0.937</i>	
<i>Lithium</i>		<i>24.5</i>	
<i>Magnesium</i>	<i>500000</i>	<i>493230</i>	<i>99</i>
<i>Molybdenum</i>		<i>-3.03</i>	
<i>Nickel</i>		<i>4.08</i>	
<i>Potassium</i>		<i>-78.7</i>	
<i>Selenium</i>		<i>-4.08</i>	
<i>Silicon</i>		<i>4.20</i>	
<i>Silver</i>		<i>-0.167</i>	
<i>Sodium</i>		<i>38.7</i>	
<i>Strontium</i>		<i>5.24</i>	
<i>Thallium</i>		<i>1.27</i>	
<i>Tin</i>		<i>0.485</i>	
<i>Titanium</i>		<i>-2.03</i>	
<i>Vanadium</i>		<i>-0.0473</i>	
<i>Zinc</i>		<i>2.37</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Lab Sample ID: ICSAB 240-221722/9

Instrument ID: I9

Lab File ID: I9031516A.asc

ICS Source: MTICPCSABW_00010

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	192130	96
Manganese	500	504	101
<i>Aluminum</i>	<i>500000</i>	<i>514150</i>	<i>103</i>
<i>Antimony</i>	<i>1000</i>	<i>1032</i>	<i>103</i>
<i>Arsenic</i>	<i>1000</i>	<i>1033</i>	<i>103</i>
<i>Barium</i>	<i>500</i>	<i>505</i>	<i>101</i>
<i>Beryllium</i>	<i>500</i>	<i>489</i>	<i>98</i>
<i>Boron</i>	<i>500</i>	<i>503</i>	<i>101</i>
<i>Cadmium</i>	<i>1000</i>	<i>1058</i>	<i>106</i>
<i>Calcium</i>	<i>500000</i>	<i>482950</i>	<i>97</i>
<i>Chromium</i>	<i>500</i>	<i>498</i>	<i>100</i>
<i>Cobalt</i>	<i>500</i>	<i>515</i>	<i>103</i>
<i>Copper</i>	<i>500</i>	<i>545</i>	<i>109</i>
<i>Lead</i>	<i>1000</i>	<i>918</i>	<i>92</i>
<i>Lithium</i>	<i>500</i>	<i>569</i>	<i>114</i>
<i>Magnesium</i>	<i>500000</i>	<i>504830</i>	<i>101</i>
<i>Molybdenum</i>	<i>1000</i>	<i>979</i>	<i>98</i>
<i>Nickel</i>	<i>1000</i>	<i>1025</i>	<i>102</i>
<i>Potassium</i>	<i>10000</i>	<i>10413</i>	<i>104</i>
<i>Selenium</i>	<i>1000</i>	<i>1023</i>	<i>102</i>
<i>Silicon</i>	<i>10000</i>	<i>10018</i>	<i>100</i>
<i>Silver</i>	<i>1000</i>	<i>1139</i>	<i>114</i>
<i>Sodium</i>	<i>10000</i>	<i>10481</i>	<i>105</i>
<i>Strontium</i>	<i>1500</i>	<i>1457</i>	<i>97</i>
<i>Thallium</i>	<i>1000</i>	<i>989</i>	<i>99</i>
<i>Tin</i>	<i>500</i>	<i>531</i>	<i>106</i>
<i>Titanium</i>	<i>500</i>	<i>512</i>	<i>102</i>
<i>Vanadium</i>	<i>500</i>	<i>494</i>	<i>99</i>
<i>Zinc</i>	<i>1000</i>	<i>1047</i>	<i>105</i>

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-62048-E-1-B MS
 Lab Name: TestAmerica Canton Job No.: 240-61965-1
 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
Iron	1160	130	J	1000	103	75-125		6010C
Manganese	613	80		500	107	75-125		6010C

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-62048-E-1-C MSD
 Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Iron	1160	1000	103	75-125	0	20		6010C
Manganese	609	500	106	75-125	1	20		6010C

SDR = Sample Duplicate Result

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

7A-IN
 LAB CONTROL SAMPLE
 METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-221419/2-A

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

Sample Matrix: Water

LCS Source: MTICP1_00050

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	1000	987		99	80	120		6010C
Manganese	500	503		101	80	120		6010C

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: 240-62048-E-1-A SD ^5

SDG No: _____

Lab Name: TestAmerica Canton

Job No: 240-61965-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample		Serial		% Difference	Q	Method
	Result (I)	C	Result (S)	C			
Iron	130	J	139	J	NC		6010C
Manganese	80		87.1		8.9		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: 240-61965-1
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)
Iron	271.441	200	13
Manganese	257.610	15	0.46

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-61965-1
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)
Iron	271.441	200	13
Manganese	257.610	15	0.46

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-61965-1

SDG No.: _____

ICP-AES Instrument ID: I9 Date: 02/23/2016

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	Tl	V
Aluminum										0.016774					0.022189
Antimony		-0.000066			0.000057			-0.000015							0.002792
Arsenic		0.00002			-0.000415	0.000782			-0.000355	0.002551					
Barium															
Beryllium															0.000029
Boron															
Cadmium			0.010288					-0.000004							
Calcium															
Chromium															
Cobalt													0.002140		
Copper				0.000018	0.000199			0.000009							
Iron															
Lead		-0.000108					0.000101	0.000044			0.000131	0.000064			
Lithium															
Magnesium															
Manganese															
Molybdenum															
Nickel					0.000518			0.000057							
Potassium															
Selenium		-0.000013							0.000338						
Silver															
Sodium															
Strontium															
Thallium		0.000012			0.003074			-0.000019	-0.002934						0.001707
Tin															
Titanium															
Vanadium								0.000038							
Zinc								-0.001092							

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-61965-1

SDG No.: _____

Instrument ID: I9

Date: 02/25/2016 13:19

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Iron		500000	6010C
Manganese		15000	6010C

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-221419/1-A	03/14/2016 10:23	221419		50	50
LCS 240-221419/2-A	03/14/2016 10:23	221419		50	50
240-62048-E-1-B MS	03/14/2016 10:23	221419		50	50
240-62048-E-1-C MSD	03/14/2016 10:23	221419		50	50
240-61965-3	03/14/2016 10:23	221419		50	50
240-61965-6	03/14/2016 10:23	221419		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 03/15/2016 13:24 End Date: 03/16/2016 00:59

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ICIS 240-221722/1	1		13:24	X	X																										
CALSTD 240-221722/2 IC			13:28	X	X																										
CALSTD 240-221722/3 IC			13:32	X	X																										
ICV 240-221722/4	1		13:36	X	X																										
ICB 240-221722/5	1		13:40	X	X																										
CRI 240-221722/6			13:44																												
ZZZZZZ			13:48																												
ICSA 240-221722/8	1		13:52	X	X																										
ICSAB 240-221722/9	1		13:56	X	X																										
CCV 240-221722/10			14:00																												
CCB 240-221722/11			14:04																												
ZZZZZZ			14:08																												
ZZZZZZ			14:12																												
ZZZZZZ			14:17																												
ZZZZZZ			14:21																												
ZZZZZZ			14:25																												
ZZZZZZ			14:29																												
CCV 240-221722/18			14:33																												
CCB 240-221722/19			14:37																												
CRI 240-221722/20	1		14:46	X	X																										
ZZZZZZ			14:50																												
ZZZZZZ			14:54																												
ZZZZZZ			14:58																												
ZZZZZZ			15:02																												
ZZZZZZ			15:06																												
ZZZZZZ			15:11																												
ZZZZZZ			15:15																												
ZZZZZZ			15:19																												
ZZZZZZ			15:23																												
CCV 240-221722/30			15:28																												
CCB 240-221722/31			15:32																												
ZZZZZZ			15:36																												
ZZZZZZ			15:40																												
ZZZZZZ			15:45																												
ZZZZZZ			15:49																												
ZZZZZZ			15:53																												
ZZZZZZ			15:57																												
ZZZZZZ			16:02																												
ZZZZZZ			16:06																												
ZZZZZZ			16:13																												
ZZZZZZ			16:17																												
CCV 240-221722/42			16:21																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 03/15/2016 13:24 End Date: 03/16/2016 00:59

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
CCB 240-221722/43			16:25																												
ZZZZZZ			16:29																												
ZZZZZZ			16:33																												
ZZZZZZ			16:37																												
ZZZZZZ			16:40																												
ZZZZZZ			16:44																												
ZZZZZZ			16:48																												
ZZZZZZ			16:52																												
ZZZZZZ			16:56																												
ZZZZZZ			17:00																												
ZZZZZZ			17:05																												
CCV 240-221722/54			17:08																												
CCB 240-221722/55			17:12																												
ZZZZZZ			17:16																												
ZZZZZZ			17:20																												
ZZZZZZ			17:24																												
ZZZZZZ			17:28																												
ZZZZZZ			17:32																												
ZZZZZZ			17:36																												
ZZZZZZ			17:40																												
ZZZZZZ			17:44																												
ZZZZZZ			17:48																												
ZZZZZZ			17:52																												
CCV 240-221722/66			17:56																												
CCB 240-221722/67			18:00																												
ZZZZZZ			18:04																												
ZZZZZZ			18:08																												
ZZZZZZ			18:12																												
ZZZZZZ			18:16																												
ZZZZZZ			18:20																												
ZZZZZZ			18:24																												
ZZZZZZ			18:28																												
ZZZZZZ			18:32																												
ZZZZZZ			18:36																												
ZZZZZZ			18:40																												
CCV 240-221722/78		1	18:44			X	X																								
CCB 240-221722/79		1	18:48			X	X																								
ZZZZZZ			18:52																												
ZZZZZZ			18:56																												
ZZZZZZ			19:00																												
ZZZZZZ			19:04																												
ZZZZZZ			19:08																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 03/15/2016 13:24 End Date: 03/16/2016 00:59

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				F	M																										
ZZZZZZ			19:12																												
ZZZZZZ			19:16																												
ZZZZZZ			19:20																												
ZZZZZZ			19:24																												
MB 240-221419/1-A	1	R	19:28	X	X																										
CCV 240-221722/90	1		19:32	X	X																										
CCB 240-221722/91	1		19:35	X	X																										
LCS 240-221419/2-A	1	R	19:40	X	X																										
ZZZZZZ			19:43																												
240-62048-E-1-A SD ^5	5	R	19:47	X	X																										
240-62048-E-1-B MS	1	R	19:51	X	X																										
240-62048-E-1-C MSD	1	R	19:55	X	X																										
ZZZZZZ			19:59																												
ZZZZZZ			20:03																												
ZZZZZZ			20:07																												
ZZZZZZ			20:11																												
ZZZZZZ			20:15																												
CCV 240-221722/102	1		20:19	X	X																										
CCB 240-221722/103	1		20:22	X	X																										
240-61965-3	1	R	20:26	X	X																										
240-61965-6	1	R	20:31	X	X																										
CRI 240-221722/106	1		20:35	X	X																										
ZZZZZZ			20:39																												
ZZZZZZ			20:43																												
ZZZZZZ			20:47																												
ZZZZZZ			20:50																												
ZZZZZZ			20:54																												
ZZZZZZ			20:58																												
ZZZZZZ			21:03																												
CCV 240-221722/114	1		21:07	X	X																										
CCB 240-221722/115	1		21:11	X	X																										
ZZZZZZ			21:15																												
ZZZZZZ			21:19																												
ZZZZZZ			21:23																												
ZZZZZZ			21:27																												
ZZZZZZ			21:31																												
ZZZZZZ			21:35																												
ZZZZZZ			21:39																												
ZZZZZZ			21:43																												
ZZZZZZ			21:47																												
ZZZZZZ			21:51																												
CCV 240-221722/126			21:55																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 03/15/2016 13:24 End Date: 03/16/2016 00:59

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
CCB 240-221722/127			21:59																												
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			22:36																												
ZZZZZZ			22:39																												
CCV 240-221722/138			22:44																												
CCB 240-221722/139			22:47																												
ZZZZZZ			22:51																												
ZZZZZZ			22:55																												
ZZZZZZ			23:00																												
ZZZZZZ			23:04																												
ZZZZZZ			23:08																												
ZZZZZZ			23:11																												
ZZZZZZ			23:15																												
ZZZZZZ			23:19																												
ZZZZZZ			23:23																												
ZZZZZZ			23:27																												
CCV 240-221722/150			23:31																												
CCB 240-221722/151			23:35																												
ZZZZZZ			23:39																												
ZZZZZZ			23:43																												
ZZZZZZ			23:46																												
ZZZZZZ			23:50																												
ZZZZZZ			23:54																												
ZZZZZZ			23:58																												
ZZZZZZ			00:02																												
ZZZZZZ			00:06																												
ZZZZZZ			00:10																												
ZZZZZZ			00:14																												
CCV 240-221722/162			00:19																												
CCB 240-221722/163			00:22																												
ZZZZZZ			00:26																												
ZZZZZZ			00:30																												
ZZZZZZ			00:35																												
ZZZZZZ			00:39																												
ZZZZZZ			00:43																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 03/15/2016 13:24 End Date: 03/16/2016 00:59

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				F	M																										
ZZZZZZ			00:47																												
ZZZZZZ			00:51																												
CCV 240-221722/171			00:55																												
CCB 240-221722/172			00:59																												

Prep Types: _____
R = Total Recoverable

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Batch Number: 221419 Batch Start Date: 03/14/16 10:23 Batch Analyst: Dillon, William K

Batch Method: 3005A Batch End Date: 03/14/16 18:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00056	MTICP1 00050	MTICP2A 00058	MTTMHCL 00099
MB 240-221419/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-221419/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-62048-E-1 MS		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-62048-E-1 MSD		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-61965-I-3	NMW-1I-030916	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-61965-I-6	NMW-3I-030916	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00082	AnalysisComment				
MB 240-221419/1		3005A, 6010C		1 mL					
LCS 240-221419/2		3005A, 6010C		1 mL					
240-62048-E-1 MS		3005A, 6010C	R	1 mL					
240-62048-E-1 MSD		3005A, 6010C	R	1 mL					
240-61965-I-3	NMW-1I-030916	3005A, 6010C	R	1 mL	Sample was split and preserved on 3/11 at 10:17 with MTTMHNO3 00082				
240-61965-I-6	NMW-3I-030916	3005A, 6010C	R	1 mL	Sample was split and preserved on 3/11 at 10:17 with MTTMHNO3 00082				

Batch Notes	
Filter Paper ID	9656618
Hot Block ID	HB4
Pipette ID	MP1
Digestion Tube/Cup ID	1509104

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.: 240-61965-1

SDG No.: _____

Batch Number: 221419 Batch Start Date: 03/14/16 10:23 Batch Analyst: Dillon, William K

Batch Method: 3005A Batch End Date: 03/14/16 18:23

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-61965-1

SDG No.: _____

Project: MRC Block I GW Remedy

Client Sample ID

MW-81B-030916

NMW-1I-030916

NMW-2I-030916

NMW-2S-030916

NMW-3I-030916

Lab Sample ID

240-61965-2

240-61965-3

240-61965-4

240-61965-5

240-61965-6

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW-81B-030916

Lab Sample ID: 240-61965-2

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG ID.: _____

Matrix: Water

Date Sampled: 03/09/2016 09:20

Reporting Basis: WET

Date Received: 03/10/2016 11:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	TOC Result 1	8.6	2.0	0.16	mg/L			2	9060A
	TOC Result 2	8.5	2.0	0.16	mg/L			2	9060A
	TOC Result 3	8.6	2.0	0.16	mg/L			2	9060A
	TOC Result 4	8.5	2.0	0.16	mg/L			2	9060A
7440-44-0	Total Organic Carbon	8.5	2.0	0.16	mg/L			2	9060A

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: NMW-1I-030916

Lab Sample ID: 240-61965-3

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG ID.: _____

Matrix: Water

Date Sampled: 03/09/2016 10:15

Reporting Basis: WET

Date Received: 03/10/2016 11:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	130	5.0	1.9	mg/L		B	1	2320B-19 97
14808-79-8	Sulfate	86	1.0	0.13	mg/L			1	300.0
	TOC Result 1	2.7	1.0	0.080	mg/L			1	9060A
	TOC Result 2	2.0	1.0	0.080	mg/L			1	9060A
	TOC Result 3	2.6	1.0	0.080	mg/L			1	9060A
	TOC Result 4	2.1	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	2.3	1.0	0.080	mg/L			1	9060A
	Total Dissolved Solids	410	10	7.4	mg/L			1	SM 2540C

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: NMW-2I-030916

Lab Sample ID: 240-61965-4

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG ID.: _____

Matrix: Water

Date Sampled: 03/09/2016 12:35

Reporting Basis: WET

Date Received: 03/10/2016 11:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	TOC Result 1	1.2	1.0	0.080	mg/L			1	9060A
	TOC Result 2	1.3	1.0	0.080	mg/L			1	9060A
	TOC Result 3	1.2	1.0	0.080	mg/L			1	9060A
	TOC Result 4	1.3	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	1.2	1.0	0.080	mg/L			1	9060A

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: NMW-2S-030916

Lab Sample ID: 240-61965-5

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG ID.: _____

Matrix: Water

Date Sampled: 03/09/2016 12:45

Reporting Basis: WET

Date Received: 03/10/2016 11:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	TOC Result 1	5.9	1.0	0.080	mg/L			1	9060A
	TOC Result 2	4.4	1.0	0.080	mg/L			1	9060A
	TOC Result 3	5.4	1.0	0.080	mg/L			1	9060A
	TOC Result 4	4.3	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	5.0	1.0	0.080	mg/L			1	9060A

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: NMW-3I-030916

Lab Sample ID: 240-61965-6

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG ID.: _____

Matrix: Water

Date Sampled: 03/09/2016 13:40

Reporting Basis: WET

Date Received: 03/10/2016 11:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	130	5.0	1.9	mg/L		B	1	2320B-19 97
14808-79-8	Sulfate	1.9	1.0	0.13	mg/L			1	300.0
	TOC Result 1	5.2	1.0	0.080	mg/L			1	9060A
	TOC Result 2	4.0	1.0	0.080	mg/L			1	9060A
	TOC Result 3	5.1	1.0	0.080	mg/L			1	9060A
	TOC Result 4	4.1	1.0	0.080	mg/L			1	9060A
7440-44-0	Total Organic Carbon	4.6	1.0	0.080	mg/L			1	9060A
	Total Dissolved Solids	610	10	7.4	mg/L			1	SM 2540C

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
SDG No.: _____
Analyst: LCN Batch Start Date: 01/06/2016
Reporting Units: mg/L Analytical Batch No.: 213195

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
12	ICV	13:25	Sulfate	50.4	50.0	101	90-110		WCICLCS_00477

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Analyst: JMB Batch Start Date: 03/11/2016
 Reporting Units: mg/L Analytical Batch No.: 221386

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	16:42	Sulfate	53.8	50.0	108	90-110		WCICCCV_00653
2	CCB	16:58	Sulfate	1.0				U	
13	CCV	19:59	Sulfate	53.7	50.0	107	90-110		WCICCCV_00653
14	CCB	20:15	Sulfate	1.0				U	
19	CCV	21:37	Sulfate	53.5	50.0	107	90-110		WCICCCV_00653
20	CCB	21:54	Sulfate	1.0				U	

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
SDG No.: _____
Analyst: LKG Batch Start Date: 03/14/2016
Reporting Units: mg/L Analytical Batch No.: 221498

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
12	ICV	23:12	Sulfate	49.3	50.0	99	90-110		WCICLCS_00497

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Analyst: LKG Batch Start Date: 03/15/2016
 Reporting Units: mg/L Analytical Batch No.: 221581

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:58	Sulfate	47.8	50.0	96	90-110		WCICCCV_00655
2	CCB	11:14	Sulfate	1.0				U	
13	CCV	14:15	Sulfate	47.9	50.0	96	90-110		WCICCCV_00655
14	CCB	14:31	Sulfate	1.0				U	
25	CCV	18:17	Sulfate	48.0	50.0	96	90-110		WCICCCV_00655
26	CCB	18:34	Sulfate	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Analyst: TPH Batch Start Date: 03/11/2016
 Reporting Units: mg/L Analytical Batch No.: 221343

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	08:03	TOC Result 1	26.0	25.0	104	90-110		WC TOC CCV_00290
			Total Organic Carbon	26.0	25.0	104	90-110		WC TOC CCV_00290
3	CCB	08:10	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
14	CCVL	11:07	TOC Result 1	4.82	5.00	96	90-110		WC TOC CCVL_00084
			Total Organic Carbon	4.82	5.00	96	90-110		WC TOC CCVL_00084
15	CCB	11:15	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
25	CCV	14:20	TOC Result 1	26.4	25.0	106	90-110		WC TOC CCV_00290
			Total Organic Carbon	26.4	25.0	106	90-110		WC TOC CCV_00290

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-61965-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 221645 Date: 03/15/2016 12:54							
2320B-1997	MB 240-221645/2	Alkalinity	2.00	J	mg/L	5.0	1
Batch ID: 221386 Date: 03/11/2016 17:15							
300.0	MB 240-221386/3	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 221581 Date: 03/15/2016 11:31							
300.0	MB 240-221581/3	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 221343 Date: 03/11/2016 08:19							
9060A	MB 240-221343/4	TOC Result 1	1.0	U	mg/L	1.0	1
9060A	MB 240-221343/4	Total Organic Carbon	1.0	U	mg/L	1.0	1
Batch ID: 221134 Date: 03/11/2016 09:55							
SM 2540C	MB 240-221134/1	Total Dissolved Solids	10	U	mg/L	10	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 221386 Date: 03/11/2016 18:04											
300.0	190-10005-B-1	Sulfate	59		mg/L						F1
300.0	190-10005-B-1	Sulfate	134		mg/L	50.0	150	80-120			F1
MS											
Batch ID: 221343 Date: 03/11/2016 09:08											
9060A	240-61965-3	TOC Result 1	2.7		mg/L						
9060A	240-61965-3	TOC Result 1	29.0		mg/L	25.0	105	72-136			
MS											
9060A	240-61965-3	Total Organic Carbon	2.3		mg/L						
9060A	240-61965-3	Total Organic Carbon	29.0		mg/L	25.0	107	72-136			
MS											

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

5-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 221386 Date: 03/11/2016 18:20											
300.0	190-10005-B-1	Sulfate	134		mg/L	50.0	151	80-120	0	15	F1
MSD											
Batch ID: 221343 Date: 03/11/2016 09:15											
9060A	240-61965-3	TOC Result 1	30.7		mg/L	25.0	112	72-136	6	20	
MSD											
9060A	240-61965-3	Total Organic Carbon	30.7		mg/L	25.0	113	72-136	6	20	
MSD											

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

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 221645 Date: 03/15/2016 12:54								
2320B-1997		240-61977-A-1	Alkalinity	170	mg/L			
2320B-1997		240-61977-A-1 DU	Alkalinity	170	mg/L	1	20	
Batch ID: 221645 Date: 03/15/2016 12:54								
2320B-1997		240-62033-B-1	Alkalinity	190	mg/L			
2320B-1997		240-62033-B-1 DU	Alkalinity	189	mg/L	0.5	20	
Batch ID: 221134 Date: 03/11/2016 09:56								
SM 2540C		240-61924-G-1	Total Dissolved Solids	1400	mg/L			
SM 2540C		240-61924-G-1 DU	Total Dissolved Solids	1380	mg/L	1	20	

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

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 221645 Date: 03/15/2016 12:54											
						LCS Source: WCPHENOMINER_00014					
2320B-1 997	LCS 240-221645/3	Alkalinity	285		mg/L	284	100	90-127			
Batch ID: 221386 Date: 03/11/2016 17:31											
						LCS Source: WCICLCS_00497					
300.0	LCS 240-221386/4	Sulfate	53.4		mg/L	50.0	107	90-110			
Batch ID: 221581 Date: 03/15/2016 11:47											
						LCS Source: WCICLCS_00497					
300.0	LCS 240-221581/4	Sulfate	48.6		mg/L	50.0	97	90-110			
Batch ID: 221343 Date: 03/11/2016 08:35											
						LCS Source: WC LCS_00043					
9060A	LCS 240-221343/6	TOC Result 1	67.9		mg/L	69.3	98	88-115			
9060A	LCS 240-221343/6	Total Organic Carbon	67.9		mg/L	69.3	98	88-115			
Batch ID: 221134 Date: 03/11/2016 09:55											
						LCS Source: WCPHENOVOLID_00014					
SM 2540C	LCS 240-221134/2	Total Dissolved Solids	293		mg/L	281	104	88-110			

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

FORM VIIA-IN

7A-IN
 LOW LEVEL CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
 SDG No.: _____
 Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 221343 Date: 03/11/2016 08:27			LCS Source: WC LCS_00042								
9060A	LLCS 240-221343/5	TOC Result 1	6.75		mg/L	6.93	97	88-115			
9060A	LLCS 240-221343/5	Total Organic Carbon	6.75		mg/L	6.93	97	88-115			

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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-61965-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: 2320B-1997

MDL Date: 07/12/2013 09:18

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity		5	1.9

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-61965-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: 2320B-1997 XMDL Date: 07/12/2013 09:19

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	1.9

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-61965-1

SDG Number: _____

Matrix: Water

Instrument ID: SIMON

Method: 300.0

MDL Date: 08/12/2014 17:01

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		1	0.13

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-61965-1
SDG Number: _____
Matrix: Water Instrument ID: SIMON
Method: 300.0 XMDL Date: 08/12/2014 17:02

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		1	0.13

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-61965-1

SDG Number: _____

Matrix: Water

Instrument ID: Clark

Method: 9060A

MDL Date: 04/28/2015 15:58

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Result 1		1	0.08
TOC Result 2		1	0.08
TOC Result 3		1	0.08
TOC Result 4		1	0.08
Total Organic Carbon		1	0.08

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-61965-1

SDG Number: _____

Matrix: Water

Instrument ID: Clark

Method: 9060A

XMDL Date: 04/28/2015 15:59

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Result 1		1	0.08
TOC Result 2		1	0.08
TOC Result 3		1	0.08
TOC Result 4		1	0.08
Total Organic Carbon		1	0.08

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-61965-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: SM 2540C

MDL Date: 01/28/2010 09:50

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Dissolved Solids		10	7.4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-61965-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 2540C XMDL Date: 01/28/2010 09:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	7.4

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 03/14/2016 20:28 End Date: 03/14/2016 23:29

Lab Sample Id	D/F	Type	Time	Analytes																											
				S	O	4																									
STD1 240-221498/2 IC	1		20:28	X																											
STD2 240-221498/3 IC	1		20:45	X																											
STD3 240-221498/4 IC	1		21:01	X																											
STD4 240-221498/5 IC	1		21:17	X																											
STD5 240-221498/6 ICRT	1		21:34	X																											
STD6 240-221498/7 IC	1		21:50	X																											
STD7 240-221498/8 IC	1		22:07	X																											
STD8 240-221498/9 IC	1		22:23	X																											
STD9 240-221498/10 IC	1		22:39	X																											
ZZZZZZ			22:56																												
ICV 240-221498/12	1		23:12	X																											
ICB 240-221498/13			23:29																												

Prep Types: _____
=

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 03/15/2016 10:58 End Date: 03/16/2016 04:08

Lab Sample Id	D/F	Type	Time	Analytes																			
				S	O	4																	
CCV 240-221581/1	1		10:58	X																			
CCB 240-221581/2	1		11:14	X																			
MB 240-221581/3	1	T	11:31	X																			
LCS 240-221581/4	1	T	11:47	X																			
ZZZZZZ			12:04																				
ZZZZZZ			12:20																				
ZZZZZZ			12:36																				
ZZZZZZ			12:53																				
ZZZZZZ			13:09																				
ZZZZZZ			13:26																				
ZZZZZZ			13:42																				
ZZZZZZ			13:59																				
CCV 240-221581/13	1		14:15	X																			
CCB 240-221581/14	1		14:31	X																			
ZZZZZZ			14:48																				
ZZZZZZ			15:04																				
ZZZZZZ			15:21																				
ZZZZZZ			15:37																				
ZZZZZZ			15:53																				
ZZZZZZ			16:55																				
ZZZZZZ			17:12																				
ZZZZZZ			17:28																				
240-61965-6	1	T	17:45	X																			
ZZZZZZ			18:01																				
CCV 240-221581/25	1		18:17	X																			
CCB 240-221581/26	1		18:34	X																			
ZZZZZZ			18:50																				
ZZZZZZ			19:07																				
ZZZZZZ			19:23																				
ZZZZZZ			19:39																				
ZZZZZZ			19:56																				
ZZZZZZ			20:12																				
ZZZZZZ			20:29																				
ZZZZZZ			20:45																				
ZZZZZZ			21:02																				
ZZZZZZ			21:18																				
CCV 240-221581/37			21:34																				
CCB 240-221581/38			21:51																				
ZZZZZZ			22:07																				
ZZZZZZ			22:24																				
ZZZZZZ			22:40																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 03/15/2016 10:58 End Date: 03/16/2016 04:08

Lab Sample Id	D/F	Type	Time	Analytes																											
				S	O	4																									
CCV 240-221581/42			22:56																												
CCB 240-221581/43			23:13																												
ZZZZZZ			23:29																												
ZZZZZZ			23:46																												
ZZZZZZ			00:02																												
ZZZZZZ			00:18																												
ZZZZZZ			00:35																												
ZZZZZZ			01:08																												
ZZZZZZ			01:24																												
ZZZZZZ			01:41																												
ZZZZZZ			01:57																												
CCV 240-221581/54			02:13																												
CCB 240-221581/55			02:30																												
ZZZZZZ			02:46																												
ZZZZZZ			03:03																												
ZZZZZZ			03:19																												
CCV 240-221581/60			03:52																												
CCB 240-221581/61			04:08																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Instrument ID: Clark Analysis Method: 9060A

Start Date: 03/11/2016 07:45 End Date: 03/11/2016 14:28

Lab Sample Id	D/F	Type	Time	Analytes																			
				TOC	TOC1	TOC2	TOC3	TOC4															
ZZZZZZ			07:45																				
CCV 240-221343/2	1		08:03	X	X																		
CCB 240-221343/3	1		08:10	X	X																		
MB 240-221343/4	1	T	08:19	X	X																		
LLCS 240-221343/5	1	T	08:27	X	X																		
LCS 240-221343/6	1	T	08:35	X	X																		
240-61965-3	1	T	08:43	X	X	X	X	X															
240-61965-3 MS	2	T	09:08	X	X																		
240-61965-3 MSD	2	T	09:15	X	X																		
240-61965-2	2	T	09:25	X	X	X	X	X															
240-61965-4	1	T	09:51	X	X	X	X	X															
240-61965-5	1	T	10:17	X	X	X	X	X															
240-61965-6	1	T	10:42	X	X	X	X	X															
CCVL 240-221343/14	1		11:07	X	X																		
CCB 240-221343/15	1		11:15	X	X																		
ZZZZZZ			11:23																				
ZZZZZZ			11:49																				
ZZZZZZ			12:14																				
ZZZZZZ			12:40																				
ZZZZZZ			13:06																				
ZZZZZZ			13:30																				
ZZZZZZ			13:38																				
ZZZZZZ			13:47																				
CCVL 240-221343/24			14:13																				
CCV 240-221343/25	1		14:20	X	X																		
CCB 240-221343/26			14:28																				

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-61965-1
SDG No.: _____
Instrument ID: NOEQUIP Analysis Method: SM 2540C
Start Date: 03/11/2016 09:55 End Date: 03/11/2016 14:31

Lab Sample Id	D/F	T y p e	Time	Analytes																							
				T D S																							
MB 240-221134/1	1	T	09:55	X																							
LCS 240-221134/2	1	T	09:55	X																							
ZZZZZZ			09:55																								
ZZZZZZ			09:55																								
ZZZZZZ			09:55																								
ZZZZZZ			09:55																								
ZZZZZZ			09:55																								
ZZZZZZ			09:55																								
ZZZZZZ			09:55																								
ZZZZZZ			09:55																								
ZZZZZZ			09:55																								
240-61924-G-1 DU	1	T	09:56	X																							
240-61965-3	1	T	09:56	X																							
240-61965-6	1	T	09:56	X																							
ZZZZZZ			10:15																								
ZZZZZZ			14:25																								
ZZZZZZ			14:25																								
ZZZZZZ			14:25																								
ZZZZZZ			14:31																								

Prep Types:
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Batch Number: 221645 Batch Start Date: 03/15/16 12:54 Batch Analyst: Nolle, Laura C

Batch Method: 2320B-1997 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	Initial pH	BuretStart1	BuretStop1	TitrantVolume1	BuretStart2
MB 240-221645/2		2320B-1997		50 mL	5.64 SU	0 mL	0 mL	0 mL	0 mL
LCS 240-221645/3		2320B-1997		50 mL	8.78 SU	0 mL	0 mL	0 mL	0 mL
240-61977-A-1 DU		2320B-1997	T	50 mL	7.60 SU	0 mL	0 mL	0 mL	0 mL
240-61965-I-3	NMW-1I-030916	2320B-1997	T	50 mL	6.06 SU	0 mL	0 mL	0 mL	0 mL
240-62033-B-1 DU		2320B-1997	T	50 mL	7.45 SU	0 mL	0 mL	0 mL	0 mL
240-61965-I-6	NMW-3I-030916	2320B-1997	T	50 mL	6.27 SU	0 mL	0 mL	0 mL	0 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStop2	TitrantVolume2	CalcMsg	carb	hydr	bCarb
MB 240-221645/2		2320B-1997		.1 mL	0.1 mL	Case 1	0 mg/L	0 mg/L	2 mg/L
LCS 240-221645/3		2320B-1997		14.25 mL	14.25 mL	Case 1	0 mg/L	0 mg/L	285 mg/L
240-61977-A-1 DU		2320B-1997	T	8.5 mL	8.5 mL	Case 1	0 mg/L	0 mg/L	170 mg/L
240-61965-I-3	NMW-1I-030916	2320B-1997	T	6.55 mL	6.55 mL	Case 1	0 mg/L	0 mg/L	131 mg/L
240-62033-B-1 DU		2320B-1997	T	9.45 mL	9.45 mL	Case 1	0 mg/L	0 mg/L	189 mg/L
240-61965-I-6	NMW-3I-030916	2320B-1997	T	6.25 mL	6.25 mL	Case 1	0 mg/L	0 mg/L	125 mg/L

Lab Sample ID	Client Sample ID	Method Chain	Basis	pAlk	tAlk	FinalAmount	WCPHENOMINER 00014		
MB 240-221645/2		2320B-1997		0 mg/L	2 mg/L	50 mL			
LCS 240-221645/3		2320B-1997		0 mg/L	285 mg/L	50 mL	50 mL		
240-61977-A-1 DU		2320B-1997	T	0 mg/L	170 mg/L	50 mL			
240-61965-I-3	NMW-1I-030916	2320B-1997	T	0 mg/L	131 mg/L	50 mL			
240-62033-B-1 DU		2320B-1997	T	0 mg/L	189 mg/L	50 mL			
240-61965-I-6	NMW-3I-030916	2320B-1997	T	0 mg/L	125 mg/L	50 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.: 240-61965-1

SDG No.: _____

Batch Number: 221645 Batch Start Date: 03/15/16 12:54 Batch Analyst: Nolle, Laura C

Batch Method: 2320B-1997 Batch End Date: _____

Batch Notes	
Batch Comment	Slope: 96.5% 13:59 3/14/2016
pH Buffer 1 ID	4-2352873
pH Buffer 2 ID	7-2379863
pH Buffer 3 ID	10-2352879
pH Buffer 4 ID	12-2352876
Sulfuric Acid Lot Number	2301144
Nominal Amount Used	50 mL
pH Meter ID	Randolph
Probe ID	WCP118
Normality of First Titrant	0.02 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.: 240-61965-1

SDG No.: _____

Batch Number: 213195 Batch Start Date: 01/06/16 10:25 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCAL SOLN 00248	WCICLCS 00477			
STD1 240-213195/2 IC		300.0		5 mL	0.025 mL				
STD2 240-213195/3 IC		300.0		5 mL	0.125 mL				
STD3 240-213195/4 IC		300.0		5 mL	0.25 mL				
STD4 240-213195/5 IC		300.0		5 mL	0.5 mL				
STD5 240-213195/6 ICRT		300.0		5 mL	1.25 mL				
STD6 240-213195/7 IC		300.0		5 mL	2 mL				
STD7 240-213195/8 IC		300.0		5 mL	2.5 mL				
STD8 240-213195/9 IC		300.0		5 mL	3.75 mL				
STD9 240-213195/10 IC		300.0		5 mL	5 mL				
ICV 240-213195/12		300.0		5 mL		5 mL			

Batch Notes	

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Batch Number: 221386 Batch Start Date: 03/11/16 16:42 Batch Analyst: Burns, Jill

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCICCCV 00653	WCICELUENT 00170	WCICLCS 00497	WCICSOLNA1 00014
CCV 240-221386/1		300.0		5 mL	5 mL	5 mL			
CCB 240-221386/2		300.0		5 mL	5 mL		5 mL		
MB 240-221386/3		300.0		5 mL	5 mL		5 mL		
LCS 240-221386/4		300.0		5 mL	5 mL			5 mL	
190-10005-B-1 MS		300.0	T	5 mL	5 mL				0.1 mL
190-10005-B-1 MSD		300.0	T	5 mL	5 mL				0.1 mL
240-61965-I-3	NMW-1I-030916	300.0	T	5 mL	5 mL				
CCV 240-221386/13		300.0		5 mL	5 mL	5 mL			
CCB 240-221386/14		300.0		5 mL	5 mL		5 mL		
240-61965-I-6	NMW-3I-030916	300.0	T	5 mL	5 mL				
CCV 240-221386/19		300.0		5 mL	5 mL	5 mL			
CCB 240-221386/20		300.0		5 mL	5 mL		5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCICSOLNB1 00012					
CCV 240-221386/1		300.0							
CCB 240-221386/2		300.0							
MB 240-221386/3		300.0							
LCS 240-221386/4		300.0							
190-10005-B-1 MS		300.0	T	0.1 mL					
190-10005-B-1 MSD		300.0	T	0.1 mL					
240-61965-I-3	NMW-1I-030916	300.0	T						
CCV 240-221386/13		300.0							
CCB 240-221386/14		300.0							

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Batch Number: 221386 Batch Start Date: 03/11/16 16:42 Batch Analyst: Burns, Jill

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCICSOLNB1 00012					
240-61965-I-6	NMW-3I-030916	300.0	T						
CCV 240-221386/19		300.0							
CCB 240-221386/20		300.0							

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Batch Number: 221498 Batch Start Date: 03/14/16 20:28 Batch Analyst: Grossman, Lucas

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCAL SOLN 00249	WCICLCS 00497			
STD1 240-221498/2 IC		300.0		5 mL	0.025 mL				
STD2 240-221498/3 IC		300.0		5 mL	0.125 mL				
STD3 240-221498/4 IC		300.0		5 mL	0.25 mL				
STD4 240-221498/5 IC		300.0		5 mL	0.5 mL				
STD5 240-221498/6 ICRT		300.0		5 mL	1.25 mL				
STD6 240-221498/7 IC		300.0		5 mL	2 mL				
STD7 240-221498/8 IC		300.0		5 mL	2.5 mL				
STD8 240-221498/9 IC		300.0		5 mL	3.75 mL				
STD9 240-221498/10 IC		300.0		5 mL	5 mL				
ICV 240-221498/12		300.0		5 mL		5 mL			

Batch Notes	

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Batch Number: 221581 Batch Start Date: 03/15/16 10:58 Batch Analyst: Grossman, Lucas

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00655	WCICELUENT 00170	WCICLCS 00497	WCICSOLNA1 00014	WCICSOLNB1 00012
CCV 240-221581/1		300.0		5 mL	5 mL				
CCB 240-221581/2		300.0		5 mL		5 mL			
MB 240-221581/3		300.0		5 mL		5 mL			
LCS 240-221581/4		300.0		5 mL			5 mL		
CCV 240-221581/13		300.0		5 mL	5 mL				
CCB 240-221581/14		300.0		5 mL		5 mL			
240-62118-A-9 MS		300.0	T	5 mL				0.1 mL	0.1 mL
240-62118-A-9 MSD		300.0	T	5 mL				0.1 mL	0.1 mL
240-61965-I-6	NMW-3I-030916	300.0	T	5 mL					
CCV 240-221581/25		300.0		5 mL	5 mL				
CCB 240-221581/26		300.0		5 mL		5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-61965-1

SDG No.: _____

Batch Number: 221343 Batch Start Date: 03/11/16 07:45 Batch Analyst: Harshman, Tom

Batch Method: 9060A Batch End Date: 03/11/16 14:28

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC LCS 00042	WC LCS 00043	WC TOC CCV 00290	WC TOC CCVL 00084
CCV 240-221343/2		9060A		40 mL	40 mL			40 mL	
CCB 240-221343/3		9060A		40 mL	40 mL				
MB 240-221343/4		9060A		40 mL	40 mL				
LLCS 240-221343/5		9060A		40 mL	40 mL	4 mL			
LCS 240-221343/6		9060A		40 mL	40 mL		40 mL		
240-61965-H-3	NMW-1I-030916	9060A	T	40 mL	40 mL				
240-61965-H-3 MS	NMW-1I-030916	9060A	T	40 mL	40 mL			20 mL	
240-61965-H-3 MSD	NMW-1I-030916	9060A	T	40 mL	40 mL			20 mL	
240-61965-E-2 ^2	MW-81B-030916	9060A	T	40 mL	40 mL				
240-61965-E-4	NMW-2I-030916	9060A	T	40 mL	40 mL				
240-61965-E-5	NMW-2S-030916	9060A	T	40 mL	40 mL				
240-61965-H-6	NMW-3I-030916	9060A	T	40 mL	40 mL				
CCVL 240-221343/14		9060A		40 mL	40 mL				40 mL
CCB 240-221343/15		9060A		40 mL	40 mL				
CCV 240-221343/25		9060A		40 mL	40 mL			40 mL	

Batch Notes	
Phosphoric Acid ID	2396703
Sodium Persulfate ID	2396702

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.: 240-61965-1

SDG No.: _____

Batch Number: 221134 Batch Start Date: 03/11/16 09:55 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	WeightOne%Diff
MB 240-221134/1		SM 2540C			100 mL	91.4637 g	91.4632 g	91.4631 g	Pass
LCS 240-221134/2		SM 2540C			100 mL	90.4682 g	90.4973 g	90.4975 g	Pass
240-61924-G-1 DU		SM 2540C	T	2000 umhos/cm	50 mL	86.7453 g	86.8139 g	86.8144 g	Pass
240-61965-I-3	NMW-1I-030916	SM 2540C	T	650 umhos/cm	100 mL	87.5905 g	87.6323 g	87.6318 g	Pass
240-61965-I-6	NMW-3I-030916	SM 2540C	T	1000 umhos/cm	100 mL	87.2349 g	87.2964 g	87.2963 g	Pass

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3	FinalAmount
MB 240-221134/1		SM 2540C		N/A	N/A	-0.0005 g	-0.0006 g	N/A g	100 mL
LCS 240-221134/2		SM 2540C		N/A	N/A	0.0291 g	0.0293 g	N/A g	100 mL
240-61924-G-1 DU		SM 2540C	T	N/A	N/A	0.0686 g	0.0691 g	N/A g	100 mL
240-61965-I-3	NMW-1I-030916	SM 2540C	T	N/A	N/A	0.0418 g	0.0413 g	N/A g	100 mL
240-61965-I-6	NMW-3I-030916	SM 2540C	T	N/A	N/A	0.0615 g	0.0614 g	N/A g	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue4	CalcMsg	WCPHENOVSOLID 00014			
MB 240-221134/1		SM 2540C		N/A g	OK				
LCS 240-221134/2		SM 2540C		N/A g	OK	100 mL			
240-61924-G-1 DU		SM 2540C	T	N/A g	OK				
240-61965-I-3	NMW-1I-030916	SM 2540C	T	N/A g	OK				
240-61965-I-6	NMW-3I-030916	SM 2540C	T	N/A g	OK				

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.: 240-61965-1

SDG No.: _____

Batch Number: 221134 Batch Start Date: 03/11/16 09:55 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Batch Notes	
Balance ID	B044
Conductivity Meter ID	Myron
Constant Weight (WT2) Date/Time In	03/15/16 15:00
Constant Weight (WT2) Date/Time Out	03/15/16 9:10
Uncorrected CW (Wt2) Temp In	180 Celsius
Uncorrected CW (Wt2) Temp Out	180 Celsius
Constant Weight (WT3) Date/time In	03/16/16 15:14
Constant Weight (WT3) Date/Time Out	03/17/16 9:30
Uncorrected CW (Wt3) Temp In	180 Celsius
Uncorrected CW (Wt3) Temp Out	180 Celsius
Corrected Temperature in Oven	103 Celsius
Date/Time Samples placed in Oven	03/11/16 11:30
Date/Time Samples Removed from Oven	03/15/16 9:30
Filter Paper ID	2374164
Nominal Amount Used	100 mL
Oven ID	006
Thermometer ID	24250
Uncorrected Out Temperature	103 Celsius
Weight (WT1) Start Date/Time	03/15/16 9:30
Weight (WT1) Date/Time Out	03/15/16 10:30
Uncorrected Weight (WT1) Start Temp	180 Celsius
Uncorrected Weight (WT1) Temp Out	180 Celsius

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.

Subcontract Data



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Phone: (865) 573-8188
Fax: (865) 573-8133

Client: John McFadden
Test America
4101 Shuffel Street NW
North Canton, OH 44720

Phone:

Fax:

Identifier: 041NC

Date Rec: 03/11/2016

Report Date: 03/15/2016

Client Project #: 24015639

Client Project Name: MRC 2016 GW

Purchase Order #: TA Job#240-61965-1

Analysis Requested: CENSUS

Reviewed By:

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

Client: Test America
Project: MRC 2016 GW

MI Project Number: 041NC
Date Received: 03/11/2016

Sample Information

Client Sample ID:	NMW-11-030916	NMW-3I-030916
	(240-61965-3)	(240-61965-6)
Sample Date:	03/09/2016	03/09/2016
Units:	cells/mL	cells/mL
Analyst:	JS	JS

Dechlorinating Bacteria

<i>Dehalococcoides</i>	<i>DHC</i>	1.72E+03	2.87E+05
tceA Reductase	TCE	<5.00E-01	<5.00E-01
BAV1 Vinyl Chloride Reductase	BVC	8.90E+00	1.08E+03
Vinyl Chloride Reductase	VCR	2.88E+02	8.90E+04
<i>Dehalobacter spp.</i>	<i>DHBt</i>	4.53E+05	2.59E+04

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected

Quality Assurance/Quality Control Data

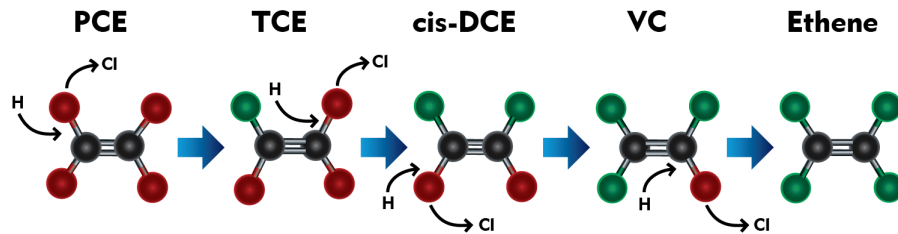
Samples Received 3/11/2016

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
BVC	03/11/2016	03/15/2016	0 °C	110%	non-detect	non-detect
DHBt	03/11/2016	03/15/2016	0 °C	106%	non-detect	non-detect
DHC	03/11/2016	03/15/2016	0 °C	103%	non-detect	non-detect
TCE	03/11/2016	03/15/2016	0 °C	115%	non-detect	non-detect
VCR	03/11/2016	03/15/2016	0 °C	112%	non-detect	non-detect

DHC Interpretation

Dehalococcoides 16S rRNA gene (qDHC)

Under anaerobic conditions, tetrachloroethene (PCE) and trichloroethene (TCE) can undergo sequential reductive dechlorination through the daughter products *cis*-dichloroethene (*cis*-DCE) and vinyl chloride to nontoxic ethene (1,2).



While a number of bacterial cultures capable of utilizing PCE and TCE as growth supporting electron acceptors have been isolated (3-7), *Dehalococcoides* spp. may be the most important because they are the only bacterial group that has been isolated to date which is capable of complete reductive dechlorination of PCE to ethene (8). In fact, the presence of *Dehalococcoides* spp. has been associated with complete dechlorination to ethene at sites across North America and Europe (9).

Status	<i>Dehalococcoides</i> spp.	Observation
	$\geq 10^4$ (cells/mL)	Lu et al. proposed that a concentration of 1×10^4 DHC cells/mL could be used as a screening criterion to identify sites where reductive dechlorination will yield a generally useful biodegradation rate (10). Similarly, in an internal study conducted with nearly 1000 groundwater samples obtained from sites across the US, ethene production was observed in approximately 80% of samples in which CENSUS® qDHC results were greater than or equal to 10^4 DHC cells/mL.
	10^1 to $< 10^4$ (cells/mL)	When vinyl chloride reductase genes (See DHC functional genes discussion below) are also detected, complete reductive dechlorination of PCE and TCE to ethene may still occur even with moderate DHC concentrations. When the DHC population is below the 10^4 cells/mL criterion proposed by Lu et al. (10), project managers should carefully consider other site-specific data to determine whether subsurface conditions may be limiting reductive dechlorination. For example, the addition of an electron donor may be able to stimulate DHC growth and enhance anaerobic bioremediation.
	$< 10^1$ (cells/mL)	DHC concentrations are low suggesting that complete reductive dechlorination of PCE and TCE to ethene is unlikely to occur under existing conditions. Enhanced anaerobic bioremediation options (biostimulation or bioaugmentation) may need to be considered.

DHC Functional Genes (*tceA*, *bvcA*, *vcrA*)

A “stall” where daughter products *cis*-DCE and vinyl chloride accumulate can occur at PCE- and TCE-impacted sites especially under MNA conditions. The accumulation of vinyl chloride, generally considered more carcinogenic than the parent compounds, is particularly problematic. Although elevated *Dehalococcoides* concentrations correspond to ethene production in numerous studies, the range of chlorinated ethenes metabolized and cometabolized varies among species and strains within the *Dehalococcoides* genus. For example, *Dehalococcoides ethenogenes* str. 195 metabolizes PCE, TCE, and *cis*-DCE and cometabolizes vinyl chloride (8) to produce ethene. Conversely, *Dehalococcoides* sp. CBDB1 utilizes PCE and TCE but does not cometabolize additional chloroethenes (11). Other *Dehalococcoides* strains, such as BAV1, GT and VS, are known to fully dechlorinate *cis*-DCE and VC to ethene (14,16,19). Quantification of reductive dehalogenase genes is used to more definitively confirm the potential for reductive dechlorination of TCE, *cis*-DCE, and vinyl chloride (12-15).

Functional Gene	Observation
-----------------	-------------

TCE Reductase

<i>tceA</i> gene	<p>The <i>tceA</i> gene encodes the enzyme responsible for reductive dechlorination of TCE to <i>cis</i>-DCE in some strains of <i>Dehalococcoides</i>.</p> <p>Absence of <i>tceA</i> does not preclude the potential for reductive dechlorination of TCE in the field since the <i>tceA</i> gene is not universally distributed among all DHC and is not present in other microorganisms capable of reductive dechlorination of TCE (e.g. <i>Dehalobacter</i>).</p> <p>Detection of the <i>tceA</i> gene provides an additional line of evidence indicating the potential for dechlorination of TCE.</p>
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Vinyl Chloride Reductase

<i>bvcA</i> gene	<p>The <i>bvcA</i> gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of vinyl chloride to ethene by <i>Dehalococcoides</i> sp. str. BAV1 (16).</p> <p>Presence of <i>bvcA</i> gene indicates the potential for reductive dechlorination of VC to ethene.</p> <p>Absence of both <i>bvcA</i> and <i>vcrA</i> genes suggests VC may accumulate.</p> <p>An internal study with ~1,000 samples showed ethene production was observed in 80% of the samples that the DHC population was greater than or equal to 10⁴ cells/mL. The <i>bvcA</i> gene was detected in over 50% of these samples.</p> <p>Van Der Zaan et al (17) noted that the <i>bvcA</i> gene was the only VC reductase gene detected at three of their sites.</p> <p>Alfred Spormann’s laboratory at Stanford University (18) reported that the <i>bvcA</i> gene was the most abundant and active at the outflow of a PCE fed column study. This section of the column was in the DCE to VC stages of reductive dechlorination thus confirming the importance of the <i>bvcA</i> gene for complete reductive dechlorination.</p>
<i>vcrA</i> gene	<p>The <i>vcrA</i> gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of <i>cis</i>-DCE and vinyl chloride by <i>Dehalococcoides</i> sp. strain VS (14).</p> <p>Presence of <i>vcrA</i> gene indicates the potential for reductive dechlorination of DCE and/or VC to ethene.</p> <p>Absence of both <i>bvcA</i> and <i>vcrA</i> genes suggest VC may accumulate.</p> <p>As with the <i>bvcA</i> gene, detection of the <i>vcrA</i> gene is associated with ethene production in internal studies (67%) and vinyl chloride reduction in independent studies (14, 17).</p>

Reporting

Microbial Insights can provide a variety of data packages and reporting levels to suit the needs of any project. Data packages range from simple analytical reports with results only to more complex data packages that include a report narrative, analytical results, QC data, and supporting materials including all raw data and chain-of-custody documentation. The figure below shows our standard report and explains the way values are reported.

Microbial Insights, Inc.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
 Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: Company Name	MI Project Number: Unique Laboratory Identifier
Project: Your Project Name	Date Received: Date Samples Arrived

Sample Information

Client Sample ID:	Sample A	Sample B	Sample C
Sample Date:	00/00/0000	00/00/0000	00/00/0000
Units:	cells/mL	cells/mL	cells/mL
Analyst:	Intials	Intials	Intials

Dechlorinating Bacteria

Target	DHC	Sample A	Sample B	Sample C
<i>Dehalococcoides spp.</i>		1.84E+05	2.76E+02	2.28E+01 (J)

Functional Genes

Gene	DHC	Sample A	Sample B	Sample C
tceA Reductase	TCE	6.00E+01	3.23E+01	<4.00E-01
bvcA Reductase	BVC	1.17E+04	1.81E+01	<4.00E-01
vcrA Reductase	VCR	8.42E+04	1.74E+02	<4.00E-01

"J" value
 Result is an estimated value. This data qualifier (flag) is used when the target gene is detected but at a concentration or abundance below the practical quantification limit (PQL).

< value
 The target gene was not detected at the limit of quantitation (LOQ) reported for that sample.

"I" value
 QA Procedure indicated that the sample may have exhibited PCR inhibition. Although relatively rare, PCR inhibition can occur due to the presence of metals or humic acids at high concentrations in the sample.

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL
 < = Result not detected

Quality Assurance

Microbial Insights' comprehensive Quality Assurance (QA) Program is the foundation of all laboratory analyses, ensuring that our clients receive high-quality analytical services that are timely, reliable, and meet their intended purpose in a cost effective manner. MI is committed to providing quality data that surpasses regulatory and industry standards, thus enabling the client to make well-informed decisions. MI maintains strict standard operating procedures and QA/QC measures throughout all of the analyses offered. The following Table details specific QA/QC procedures that are used for CENSUS.

QA/QC	Description
Date of Extraction	DNA and RNA extractions are performed the day the samples are received by MI to minimize the possibility of any changes to the microbial community prior to analysis.
Laboratory Method Blanks	An extraction blank (no sample added) is processed alongside each set of field samples from DNA extraction through CENSUS® analysis to ensure that cross contamination has not occurred. Although MI has never experienced this issue, the detection of the CENSUS® target (e.g. <i>Dehalococcoides</i>) in an extraction blank is direct evidence of cross contamination with a sample or contamination of a reagent and would invalidate the results. If this were to occur, MI would re-extract the sample. If not possible to re-extract, MI would contact the client immediately and notate it on the laboratory report.
Laboratory Control Samples (LCS)	A laboratory control sample (LCS) or positive control (target DNA) is included with each CENSUS® plate to confirm amplification and as a continuing calibration check.
Negative Controls	A negative control (no DNA) is included with each CENSUS plate to ensure that cross contamination has not occurred during amplification. As with the extraction blank, detection of CENSUS target (e.g. DHC) in a negative control is direct evidence of contamination and would invalidate the results. If this were to occur, MI would rerun the analysis.

References

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How to Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database and Client Portal

The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 32,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide. Driven by field samples, the database reflects the impacts of common contaminants, geochemical conditions, and site management practices on critical microbial populations.

With your report, you received a passcode enabling you to retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge. When accessing the database, you will be asked to provide background information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations. As with all client information provided to MI, site specific data will be treated as confidential.

Is that low, medium or high?

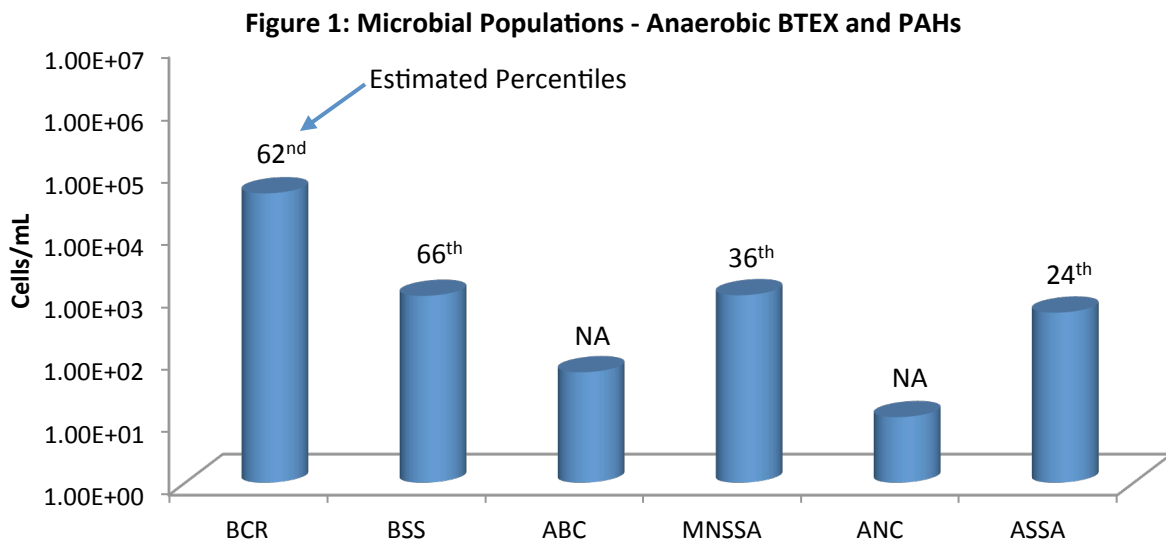
In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. Simply put, qPCR and QuantArray results demonstrating high concentrations of target microorganisms or functional genes suggest in situ selection, enrichment and growth of those specific contaminant degraders and therefore a greater probability that monitored natural attenuation (MNA) or bioremediation will be successful.

Is that a low, medium, or high concentration? The estimated percentile ranks retrieved from the MI Database answer that question by comparing your qPCR and QuantArray results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Using the Estimated Percentile - Interpretation Examples

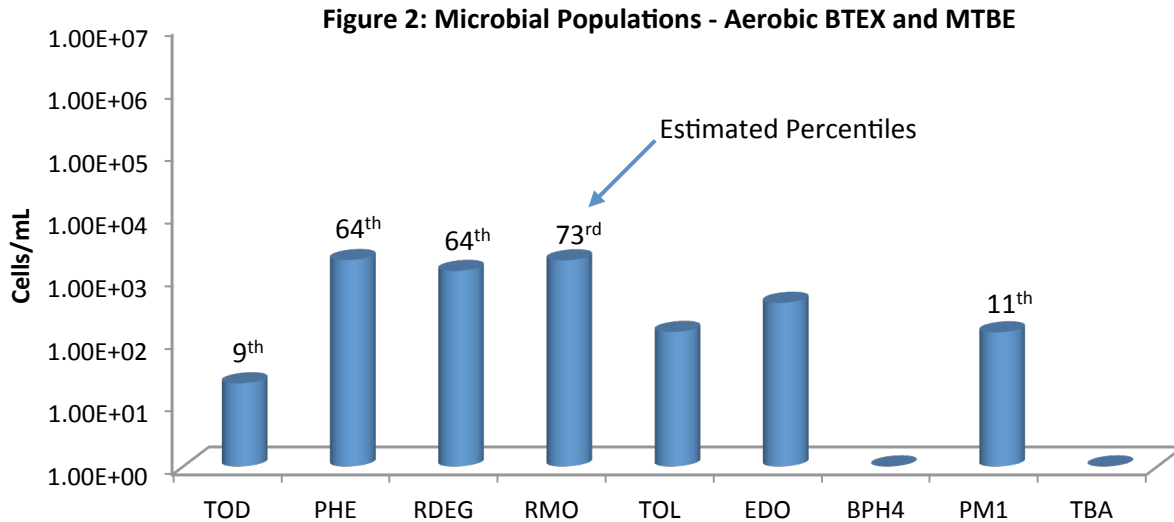
MNA Assessment – Petroleum Hydrocarbon Site:

Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between samples obtained from background and impacted wells. The estimated percentile ranks however provide an additional avenue for comparison and evaluation of treatment options as shown below.



Anaerobic BTEX and PAH Biodegradation (Figure 1):

- With moderate concentrations of functional genes involved in anaerobic BTEX metabolism detected, the QuantArray-Petro[®] results were encouraging in terms of evaluating biodegradation potential under existing site conditions.
- More specifically, benzylsuccinate synthase (BSS) was detected on the order of nearly 10³ cells/mL indicating the presence of a substantial population (66th percentile) capable of anaerobic biodegradation of toluene and other alkyl substituted benzenes.
- Naphthyl-2-methylsuccinate synthase (MNSSA) and alkylsuccinate synthase (ASSA) genes were also detected indicating the potential for anaerobic biodegradation of 2-methylnaphthalene and normal alkanes.
- The concentration of MNSSA genes would be considered modest with an estimated percentile of 36th.
- While the percentile rank for MNSSA would be “below average”, a number of additional factors should be considered.
 - First, anaerobic hydrocarbon degraders are less prevalent than aerobic BTEX degraders and overall detection frequencies for many genes involved in anaerobic hydrocarbon biodegradation are less than 50%.
 - Therefore, the detection of genes like BSS, MNSSA, ASSA, anaerobic benzene carboxylase (ABC), and anaerobic naphthalene carboxylase (ANC) even at low concentrations is certainly noteworthy and inherently “better than average”.
 - The estimated percentiles for all assays are based only on samples where the concentration of the target gene was greater than the practical quantitation limit (PQL).
 - For less commonly detected targets like many of the genes involved in anaerobic hydrocarbon biodegradation this is an especially important consideration.
 - Excluding samples where a gene target is below the PQL ensured that the median concentrations of less commonly detected targets would not be unduly biased low by the fact that the gene is not detected in most samples.
- Anaerobic benzene carboxylase (ABC) and naphthalene carboxylase (ANC) genes were also detected indicating the presence of bacterial populations capable of anaerobic biodegradation of benzene and naphthalene.
- For newly identified genes like ABC and ANC, estimated percentile ranks are not yet available due to the limited number of field samples that have been analyzed to date.
- However, like MNSSA and other genes involved in anaerobic hydrocarbon biodegradation, ABC and ANC detection frequencies are relatively low so the detection of these genes even at low concentrations should be considered when evaluating biodegradation potential under existing site conditions.

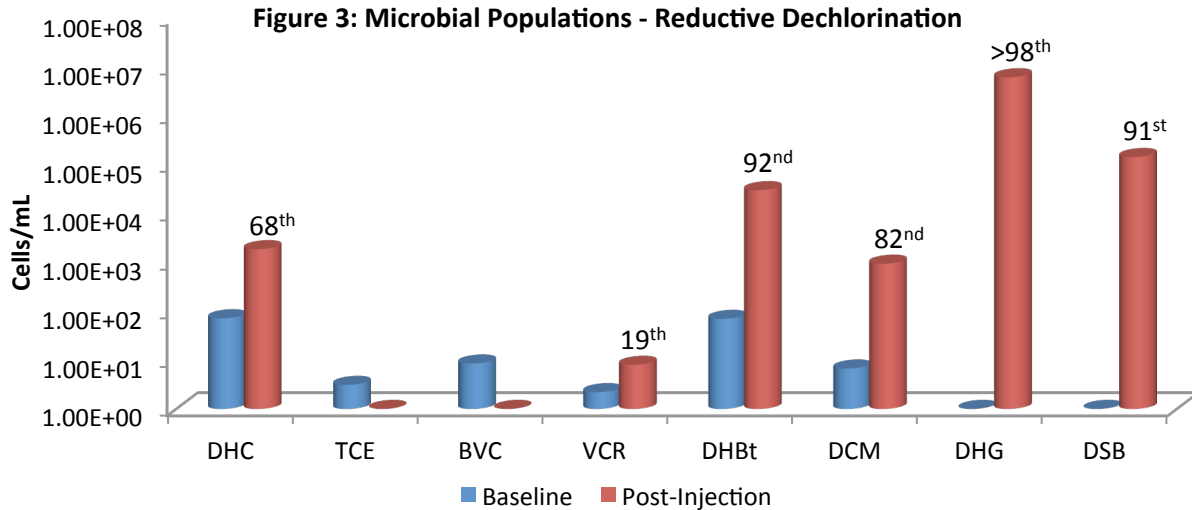


Aerobic BTEX and MTBE Biodegradation (Figure 2):

- With growing evidence that aromatic oxygenases function at low dissolved oxygen concentrations, aerobic BTEX biodegradation pathways should also be evaluated when considering MNA.
- Again, the QuantArray-Petro results were encouraging – genes encoding the first step in multiple pathways for aerobic BTEX biodegradation were detected indicating the presence of a diverse population of aerobic BTEX degraders.
- However, aerobic BTEX degraders are often considered ubiquitous. Therefore answering the question “Is that low, medium or high?” becomes especially important when evaluating aerobic BTEX biodegradation at petroleum hydrocarbon sites.
- In this case, the estimated percentile ranks of the concentrations of toluene/benzene monooxygenase (RMO and RDEG) and phenol hydroxylase (PHE) genes ranged from the 64th to 73rd percentile.
- In other words, the concentrations of RMO, RDEG, and PHE detected in this groundwater sample were greater than the concentrations detected in 64% to 73% of all other groundwater samples where these genes were analyzed and detected above the PQL.
- Aerobic BTEX degraders are common in the environment, but in this sample concentrations of toluene/benzene monooxygenase genes could be viewed as “better than average” when compared to the MI Database.

Biostimulation – Chlorinated Solvent Site:

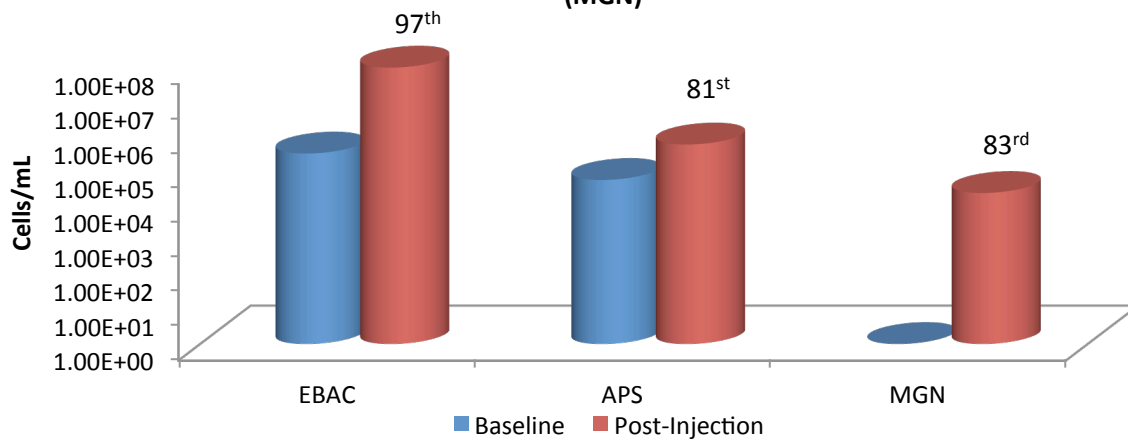
Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between baseline and post-injection monitoring events as shown below (Figure 3). The estimated percentile ranks however provide an additional avenue for comparison and evaluation of remedy performance.



- During the baseline groundwater sampling event, *Dehalococcoides* and vinyl chloride reductase genes were detected indicating the potential for complete reductive dechlorination of PCE and TCE to ethene.
- However, the *Dehalococcoides* concentration was well below the 10^4 cells/mL recommended by Lu et al. (2006) for generally effective rates of reductive dechlorination.
- Based on qPCR results as well as traditional groundwater monitoring, biostimulation with electron donor addition was selected as the site management plan.
- By the first monitoring event after injection, populations of halorespiring bacteria had increased substantially in response to electron donor addition.
 - *Dehalobacter* populations increased by more than two orders of magnitude to post-injection concentrations greater than 10^4 cells/mL (92nd percentile).
 - *Dehalogenimonas* (10^6 cells/mL) and *Desulfitobacterium* (10^5 cells/mL) which had not been detected prior electron donor addition were present at concentrations greater than observed in over 90% of other groundwater samples where these halorespiring bacteria were detected.
- After injection, *Dehalococcoides* populations increased by more than an order of magnitude to a concentration of over 10^3 cells/mL (68th percentile) demonstrating growth of this key group of halorespiring bacteria.
- Despite a substantial increase and a “better than average” concentration, the *Dehalococcoides* population was still below the 10^4 cells/mL threshold and vinyl chloride reductase gene copies were low (19th percentile).
 - In terms of electron donors and acceptors, the metabolic capabilities of *Dehalococcoides* are rather specialized (hydrogen utilizing obligate halorespiring bacteria) so the median concentration is low. With a low median concentration across the database, a “better than average” *Dehalococcoides* concentration in a given sample may not exceed the 10^4 cells/mL threshold established for effective reductive dechlorination (Lu et al. 2006) and ethene production (Microbial Insights, unpublished data).

- In this case, the initial growth of *Dehalococcoides* was substantial but may have been somewhat hindered by competition with sulfate reducing bacteria (Figure 4 below).
 - The baseline population of sulfate reducing bacteria was moderate (10^4 cells/mL; 63rd percentile). Consistent with an observed decreased in dissolved sulfate concentrations, populations of sulfate reducing bacteria increased and were detected at a relatively high concentration (81st percentile) after electron donor addition.
 - After injection, methanogen populations also increased to a relatively high concentration (83rd percentile) suggesting generation of methanogenic conditions.
- With sulfate depletion and generation of highly anaerobic conditions more conducive to reductive dechlorination, *Dehalococcoides* populations may continue to increase and exceed the 10^4 *Dehalococcoides* cells/mL threshold in subsequent monitoring events.
- Overall, QuantArray analysis conclusively demonstrated that electron donor addition stimulated growth of halorespiring bacteria with the estimated percentiles retrieved from the MI Database providing the “low, medium or high” perspective to the observed changes in microbial populations.

Figure 4: Total Bacteria (EBAC), Sulfate Reducing Bacteria (APS) and Methanogens (MGN)



References

Lu, X., J.T. Wilson, and D.H. Kampbell. 2006. Relationship between *Dehalococcoides* DNA in ground water and rates of reductive dechlorination at field scale. *Water Research* 40 no. 16: 3131-3140.

How to Retrieve and Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database

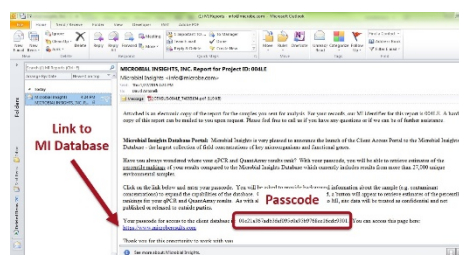
The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 40,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide.

Is that low, medium or high?

In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. The estimated percentile ranks retrieved from the MI Database answer the question “Is that low, medium or high?” by comparing your results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Retrieving Estimated Percentile Ranks

With your report, you were emailed a passcode and link enabling you to login to the Client Portal. Just enter basic information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations and you can retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge.



Well ID	Sample ID	Sample Date	Analysis Method	Run ID	CAS #	Analyte	Concentration	Units	Notes
MW1	MW1Q4	10/28/2014	SW8260B	1	107-06-2	1,2-Dichloroethane	21	5	UG/L
MW1	MW1Q4	10/28/2014	SW8260B	1	156-59-2	cis-1,2-Dichloroethene	25	5	UG/L
MW1	MW1Q4	10/28/2014	SW8260B	1		trans-1,2-Dichloroethene	5.8	5	UG/L
MW1	MW1Q4	10/28/2014	SW8260B	1	127-1				
MW1	MW1Q4	10/28/2014	SW8260B	1	67-66				
MW1	MW1Q4	10/28/2014	SW8260B	1	79-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	107-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	156-5				
MW2	MW2Q4	11/6/2014	SW8260B	1	123-9				
MW2	MW2Q4	11/6/2014	SW8260B	1	127-1				
MW2	MW2Q4	11/6/2014	SW8260B	2	79-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	67-66				
MW2	MW2Q4	11/6/2014	SW8260B	1	75-01				

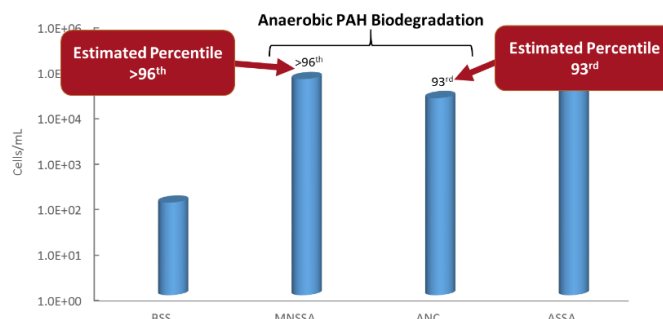
All site specific data will be treated as confidential and uploading is easy.

You can even upload chemical and geochemical data from EDDs. Just save as a Tab Delimited text file.

Example - Using Estimated Percentile for MNA Assessment at an MGP Site

CENSUS® qPCR was performed to quantify anaerobic naphthalene carboxylase (ANC) and naphthyl-2-methylsuccinate synthase (MNSSA) to assess anaerobic biodegradation of naphthalene and methyl-naphthalene under existing site conditions.

- Not only were ANC and MNSSA genes detected, but these functional genes responsible for anaerobic biodegradation of PAHs were present at concentrations “far better than average” based on the estimated percentile ranks.
- Demonstrating high concentrations of ANC and MNSSA gave an additional line of evidence indicating growth substantial populations of anaerobic PAH degraders and suggested a greater probability that monitored natural attenuation (MNA) will be successful.



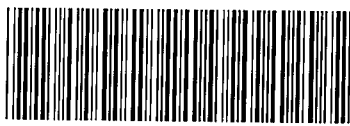
Shipping and Receiving Documents

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-61065 Chain of Custody

Regulatory Program: DW NPDES RCRA Other: _____

Project Manager: **Chris Pike** Date: **3/9/16**

Tel/Fax: **(410) 302-1624** Carrier: _____

Site Contact: **Stu Cemen** Lab Contact: **John McFadden**

Company Name: **Tetra Tech** Address: **20251 Century Blvd Ste 200** City/State/Zip: **Germentown MD 20874** Phone: **301 528 5552** Fax: _____

Project Name: **Block I GW Remedy** Site: **Block I, mbc Maryland** PO #: **11J1604776**

Analysis Turnaround Time: _____ WORKING DAYS

TAT if different from Below: **5** days

2 weeks 1 week 2 days 1 day

Sample Date	Sample Time	Sample Type (G-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
-	-	-	AQ	2			
3-9-16	0920	G	AQ	5	NM	32	VOCS TDC Methane, Ethane, Ethene Anions, Sulfates, Alkalinity DHC*
	1015	G	AQ	10	NM	32	
	1235	G	AQ	5	NM	32	
	1245	G	AQ	5	NM	32	
	1340	G	AQ	10	NM	32	

Preservation Used: 1= Ice, 2= HCI, 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

Special Instructions/QC Requirements & Comments: **DHC; dehalo coccoites, TCE reductase, VC methane analysis goes to another lab**

Custody Seal No.: _____ Cooler Temp. (°C): Obs'd: _____ Corrd: _____

Relinquished by: **[Signature]** Date/Time: **3-9-16 / 1500**

Relinquished by: **[Signature]** Date/Time: **3/10/16 1130**

Relinquished by: **[Signature]** Date/Time: _____

Company: **Tetra Tech** Received by: **[Signature]** Company: **TestAmerica**

Company: **TestAmerica** Received by: **[Signature]** Company: **Tetra Tech**

TestAmerica Canton Sample Receipt Form/Narrative

Login # : 01965

Canton Facility

Client Tetra Tech Site Name _____ Cooler unpacked by: Derry Burns
 Cooler Received on 8/10/16 Opened on 8/10/16
 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 _____ See Multiple Cooler Form _____
 IR GUN# 48 (CF -1.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN# 36 (CF -1.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN# 18 (CF -0.5 °C) Observed Cooler Temp. 0.18 °C Corrected Cooler Temp. 0.13 °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. Are these work share samples? Yes No
 If yes, Questions 12-16 have been checked at the originating laboratory.
 12. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC559158
 13. Were VOAs on the COC? Yes No
 14. Were air bubbles >6 mm in any VOA vials? Yes No NA
 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
 16. Was a LL Hg or Me Hg trip blank present? _____ Yes No
- Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: _____

18. 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)

19. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

ANALYTICAL REPORT

Job Number: 240-65988-1

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
6/28/2016 3:55 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
06/28/2016

cc: Tony Apanavage
Samantha Brenner
Mike Martin
Tobrena Sedlmyer
Final Data Tracking

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.

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720

Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD 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.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
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

Qualifier	Qualifier Description
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MRC

Report Number: 240-65988-1

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 DHC analyses were performed by Microbial Insights.

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 6/14/2016 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TB-061316 (240-65988-1), MW-81B-061316 (240-65988-2) and NMW-11-061316 (240-65988-3) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 06/20/2016.

The continuing calibration verification (CCV) for analytical batch 235154 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-061316 (240-65988-1), MW-81B-061316 (240-65988-2) and NMW-11-061316 (240-65988-3)

Method(s) 8260C: The laboratory control sample (LCS) for 235154 recovered outside control limits for the following analyte: Methylene Chloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. TB-061316 (240-65988-1), MW-81B-061316 (240-65988-2), NMW-11-061316 (240-65988-3) and (LCS 240-235154/4)

Samples MW-81B-061316 (240-65988-2)[20X] and NMW-11-061316 (240-65988-3)[33.33X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

DISSOLVED GASES

Samples MW-81B-061316 (240-65988-2) and NMW-11-061316 (240-65988-3) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 06/21/2016 and 06/23/2016.

Samples MW-81B-061316 (240-65988-2)[5X] and NMW-11-061316 (240-65988-3)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

TOTAL RECOVERABLE METALS (ICP)

Samples MW-81B-061316 (240-65988-2) and NMW-11-061316 (240-65988-3) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 06/16/2016 and analyzed on 06/17/2016.

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

ALKALINITY

Samples MW-81B-061316 (240-65988-2) and NMW-1I-061316 (240-65988-3) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 06/17/2016.

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

TOTAL DISSOLVED SOLIDS

Samples MW-81B-061316 (240-65988-2) and NMW-1I-061316 (240-65988-3) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 06/17/2016.

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

ANIONS

Samples MW-81B-061316 (240-65988-2) and NMW-1I-061316 (240-65988-3) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 06/21/2016.

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

TOTAL ORGANIC CARBON

Samples MW-81B-061316 (240-65988-2) and NMW-1I-061316 (240-65988-3) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 06/21/2016.

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

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Client Sample ID: TB-061316

Lab Sample ID: 240-65988-1

No Detections.

Client Sample ID: MW-81B-061316

Lab Sample ID: 240-65988-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	7.8	J	20	6.0	ug/L	20		8260C	Total/NA
Chloroethane	7.1	J	20	6.4	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	590		20	5.2	ug/L	20		8260C	Total/NA
trans-1,2-Dichloroethene	32		20	6.0	ug/L	20		8260C	Total/NA
Trichloroethene	390		20	4.4	ug/L	20		8260C	Total/NA
Vinyl chloride	290		20	5.8	ug/L	20		8260C	Total/NA
Ethene	320		0.50	0.13	ug/L	1		RSK-175	Total/NA
Ethane	16		0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	4800		2.5	0.40	ug/L	5		RSK-175	Total/NA
Iron	54000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	2500		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	360		5.0	1.9	mg/L	1		2320B-1997	Total/NA
TOC Result 1	0.43	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	0.18	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	0.39	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	0.24	J	1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	0.31	J	1.0	0.080	mg/L	1		9060A	Total/NA
Total Dissolved Solids	510		10	7.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: NMW-1I-061316

Lab Sample ID: 240-65988-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	12	J	33	10	ug/L	33.33		8260C	Total/NA
1,1-Dichloroethene	38		33	15	ug/L	33.33		8260C	Total/NA
cis-1,2-Dichloroethene	920		33	8.7	ug/L	33.33		8260C	Total/NA
Trichloroethene	300		33	7.3	ug/L	33.33		8260C	Total/NA
Vinyl chloride	37		33	9.7	ug/L	33.33		8260C	Total/NA
Ethene	3.6		0.50	0.13	ug/L	1		RSK-175	Total/NA
Ethane	0.63		0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	3500		2.5	0.40	ug/L	5		RSK-175	Total/NA
Iron	36000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	10000		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	120		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	120		1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	1.2		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	0.45	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	0.79	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	0.41	J	1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	0.70	J	1.0	0.080	mg/L	1		9060A	Total/NA
Total Dissolved Solids	430		10	7.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Client Sample ID: TB-061316

Lab Sample ID: 240-65988-1

Date Collected: 06/13/16 00:00

Matrix: Water

Date Received: 06/14/16 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			06/20/16 12:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			06/20/16 12:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			06/20/16 12:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/20/16 12:05	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			06/20/16 12:05	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			06/20/16 12:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			06/20/16 12:05	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			06/20/16 12:05	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			06/20/16 12:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			06/20/16 12:05	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			06/20/16 12:05	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			06/20/16 12:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			06/20/16 12:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			06/20/16 12:05	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			06/20/16 12:05	1
2-Hexanone	10	U	10	0.48	ug/L			06/20/16 12:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			06/20/16 12:05	1
Acetone	10	U	10	0.94	ug/L			06/20/16 12:05	1
Benzene	1.0	U	1.0	0.35	ug/L			06/20/16 12:05	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			06/20/16 12:05	1
Bromoform	1.0	U	1.0	0.56	ug/L			06/20/16 12:05	1
Bromomethane	1.0	U	1.0	0.44	ug/L			06/20/16 12:05	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			06/20/16 12:05	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			06/20/16 12:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			06/20/16 12:05	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/20/16 12:05	1
Chloroform	1.0	U	1.0	0.25	ug/L			06/20/16 12:05	1
Chloromethane	1.0	U	1.0	0.44	ug/L			06/20/16 12:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			06/20/16 12:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			06/20/16 12:05	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			06/20/16 12:05	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			06/20/16 12:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			06/20/16 12:05	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			06/20/16 12:05	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			06/20/16 12:05	1
Methyl acetate	10	U	10	2.3	ug/L			06/20/16 12:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			06/20/16 12:05	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			06/20/16 12:05	1
Methylene Chloride	1.0	U *	1.0	0.33	ug/L			06/20/16 12:05	1
Styrene	1.0	U	1.0	0.45	ug/L			06/20/16 12:05	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			06/20/16 12:05	1
Toluene	1.0	U	1.0	0.23	ug/L			06/20/16 12:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			06/20/16 12:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			06/20/16 12:05	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			06/20/16 12:05	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			06/20/16 12:05	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			06/20/16 12:05	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			06/20/16 12:05	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Client Sample ID: TB-061316

Lab Sample ID: 240-65988-1

Date Collected: 06/13/16 00:00

Matrix: Water

Date Received: 06/14/16 09:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		80 - 120		06/20/16 12:05	1
Dibromofluoromethane (Surr)	94		79 - 120		06/20/16 12:05	1
4-Bromofluorobenzene (Surr)	84		61 - 120		06/20/16 12:05	1
1,2-Dichloroethane-d4 (Surr)	96		78 - 125		06/20/16 12:05	1

Client Sample ID: MW-81B-061316

Lab Sample ID: 240-65988-2

Date Collected: 06/13/16 13:46

Matrix: Water

Date Received: 06/14/16 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	20	U	20	8.8	ug/L			06/20/16 12:28	20
1,1,2,2-Tetrachloroethane	20	U	20	4.4	ug/L			06/20/16 12:28	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	9.0	ug/L			06/20/16 12:28	20
1,1,2-Trichloroethane	20	U	20	4.8	ug/L			06/20/16 12:28	20
1,1-Dichloroethane	7.8	J	20	6.0	ug/L			06/20/16 12:28	20
1,1-Dichloroethene	20	U	20	9.0	ug/L			06/20/16 12:28	20
1,2,4-Trichlorobenzene	20	U	20	6.4	ug/L			06/20/16 12:28	20
1,2-Dibromo-3-Chloropropane	40	U	40	16	ug/L			06/20/16 12:28	20
Ethylene Dibromide	20	U	20	6.4	ug/L			06/20/16 12:28	20
1,2-Dichlorobenzene	20	U	20	5.0	ug/L			06/20/16 12:28	20
1,2-Dichloroethane	20	U	20	4.6	ug/L			06/20/16 12:28	20
1,2-Dichloropropane	20	U	20	5.0	ug/L			06/20/16 12:28	20
1,3-Dichlorobenzene	20	U	20	3.8	ug/L			06/20/16 12:28	20
1,4-Dichlorobenzene	20	U	20	5.4	ug/L			06/20/16 12:28	20
2-Butanone (MEK)	200	U	200	11	ug/L			06/20/16 12:28	20
2-Hexanone	200	U	200	9.6	ug/L			06/20/16 12:28	20
4-Methyl-2-pentanone (MIBK)	200	U	200	20	ug/L			06/20/16 12:28	20
Acetone	200	U	200	19	ug/L			06/20/16 12:28	20
Benzene	20	U	20	7.0	ug/L			06/20/16 12:28	20
Dichlorobromomethane	20	U	20	5.8	ug/L			06/20/16 12:28	20
Bromoform	20	U	20	11	ug/L			06/20/16 12:28	20
Bromomethane	20	U	20	8.8	ug/L			06/20/16 12:28	20
Carbon disulfide	20	U	20	7.6	ug/L			06/20/16 12:28	20
Carbon tetrachloride	20	U	20	8.6	ug/L			06/20/16 12:28	20
Chlorobenzene	20	U	20	5.0	ug/L			06/20/16 12:28	20
Chloroethane	7.1	J	20	6.4	ug/L			06/20/16 12:28	20
Chloroform	20	U	20	5.0	ug/L			06/20/16 12:28	20
Chloromethane	20	U	20	8.8	ug/L			06/20/16 12:28	20
cis-1,2-Dichloroethene	590		20	5.2	ug/L			06/20/16 12:28	20
cis-1,3-Dichloropropene	20	U	20	9.2	ug/L			06/20/16 12:28	20
Cyclohexane	20	U	20	9.0	ug/L			06/20/16 12:28	20
Chlorodibromomethane	20	U	20	8.6	ug/L			06/20/16 12:28	20
Dichlorodifluoromethane	20	U	20	6.4	ug/L			06/20/16 12:28	20
Ethylbenzene	20	U	20	5.0	ug/L			06/20/16 12:28	20
Isopropylbenzene	20	U	20	7.0	ug/L			06/20/16 12:28	20
Methyl acetate	200	U	200	45	ug/L			06/20/16 12:28	20
Methyl tert-butyl ether	20	U	20	4.0	ug/L			06/20/16 12:28	20
Methylcyclohexane	20	U	20	8.6	ug/L			06/20/16 12:28	20
Methylene Chloride	20	U *	20	6.6	ug/L			06/20/16 12:28	20

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Client Sample ID: MW-81B-061316

Lab Sample ID: 240-65988-2

Date Collected: 06/13/16 13:46

Matrix: Water

Date Received: 06/14/16 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	20	U	20	9.0	ug/L			06/20/16 12:28	20
Tetrachloroethene	20	U	20	6.2	ug/L			06/20/16 12:28	20
Toluene	20	U	20	4.6	ug/L			06/20/16 12:28	20
trans-1,2-Dichloroethene	32		20	6.0	ug/L			06/20/16 12:28	20
trans-1,3-Dichloropropene	20	U	20	11	ug/L			06/20/16 12:28	20
Trichloroethene	390		20	4.4	ug/L			06/20/16 12:28	20
Trichlorofluoromethane	20	U	20	9.8	ug/L			06/20/16 12:28	20
Vinyl chloride	290		20	5.8	ug/L			06/20/16 12:28	20
Xylenes, Total	40	U	40	10	ug/L			06/20/16 12:28	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	100		80 - 120		06/20/16 12:28	20
<i>Dibromofluoromethane (Surr)</i>	103		79 - 120		06/20/16 12:28	20
<i>4-Bromofluorobenzene (Surr)</i>	94		61 - 120		06/20/16 12:28	20
<i>1,2-Dichloroethane-d4 (Surr)</i>	105		78 - 125		06/20/16 12:28	20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	320		0.50	0.13	ug/L			06/21/16 19:16	1
Ethane	16		0.50	0.14	ug/L			06/21/16 19:16	1
Methane	4800		2.5	0.40	ug/L			06/23/16 14:53	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,1,1-Trifluoroethane</i>	95		76 - 121		06/21/16 19:16	1
<i>1,1,1-Trifluoroethane</i>	107		76 - 121		06/23/16 14:53	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	54000		100	25	ug/L		06/16/16 10:46	06/17/16 12:58	1
Manganese	2500		15	5.1	ug/L		06/16/16 10:46	06/17/16 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	360		5.0	1.9	mg/L			06/17/16 12:06	1
Sulfate	1.0	U	1.0	0.13	mg/L			06/21/16 22:28	1
TOC Result 1	0.43	J	1.0	0.080	mg/L			06/21/16 13:46	1
TOC Result 2	0.18	J	1.0	0.080	mg/L			06/21/16 13:46	1
TOC Result 3	0.39	J	1.0	0.080	mg/L			06/21/16 13:46	1
TOC Result 4	0.24	J	1.0	0.080	mg/L			06/21/16 13:46	1
Total Organic Carbon	0.31	J	1.0	0.080	mg/L			06/21/16 13:46	1
Total Dissolved Solids	510		10	7.4	mg/L			06/17/16 10:19	1

Client Sample ID: NMW-11-061316

Lab Sample ID: 240-65988-3

Date Collected: 06/13/16 15:08

Matrix: Water

Date Received: 06/14/16 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	33	U	33	15	ug/L			06/20/16 12:50	33.33
1,1,2,2-Tetrachloroethane	33	U	33	7.3	ug/L			06/20/16 12:50	33.33
1,1,2-Trichloro-1,2,2-trifluoroethane	33	U	33	15	ug/L			06/20/16 12:50	33.33

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Client Sample ID: NMW-11-061316

Lab Sample ID: 240-65988-3

Date Collected: 06/13/16 15:08

Matrix: Water

Date Received: 06/14/16 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	33	U	33	8.0	ug/L			06/20/16 12:50	33.33
1,1-Dichloroethane	12	J	33	10	ug/L			06/20/16 12:50	33.33
1,1-Dichloroethene	38		33	15	ug/L			06/20/16 12:50	33.33
1,2,4-Trichlorobenzene	33	U	33	11	ug/L			06/20/16 12:50	33.33
1,2-Dibromo-3-Chloropropane	67	U	67	27	ug/L			06/20/16 12:50	33.33
Ethylene Dibromide	33	U	33	11	ug/L			06/20/16 12:50	33.33
1,2-Dichlorobenzene	33	U	33	8.3	ug/L			06/20/16 12:50	33.33
1,2-Dichloroethane	33	U	33	7.7	ug/L			06/20/16 12:50	33.33
1,2-Dichloropropane	33	U	33	8.3	ug/L			06/20/16 12:50	33.33
1,3-Dichlorobenzene	33	U	33	6.3	ug/L			06/20/16 12:50	33.33
1,4-Dichlorobenzene	33	U	33	9.0	ug/L			06/20/16 12:50	33.33
2-Butanone (MEK)	330	U	330	18	ug/L			06/20/16 12:50	33.33
2-Hexanone	330	U	330	16	ug/L			06/20/16 12:50	33.33
4-Methyl-2-pentanone (MIBK)	330	U	330	33	ug/L			06/20/16 12:50	33.33
Acetone	330	U	330	31	ug/L			06/20/16 12:50	33.33
Benzene	33	U	33	12	ug/L			06/20/16 12:50	33.33
Dichlorobromomethane	33	U	33	9.7	ug/L			06/20/16 12:50	33.33
Bromoform	33	U	33	19	ug/L			06/20/16 12:50	33.33
Bromomethane	33	U	33	15	ug/L			06/20/16 12:50	33.33
Carbon disulfide	33	U	33	13	ug/L			06/20/16 12:50	33.33
Carbon tetrachloride	33	U	33	14	ug/L			06/20/16 12:50	33.33
Chlorobenzene	33	U	33	8.3	ug/L			06/20/16 12:50	33.33
Chloroethane	33	U	33	11	ug/L			06/20/16 12:50	33.33
Chloroform	33	U	33	8.3	ug/L			06/20/16 12:50	33.33
Chloromethane	33	U	33	15	ug/L			06/20/16 12:50	33.33
cis-1,2-Dichloroethene	920		33	8.7	ug/L			06/20/16 12:50	33.33
cis-1,3-Dichloropropene	33	U	33	15	ug/L			06/20/16 12:50	33.33
Cyclohexane	33	U	33	15	ug/L			06/20/16 12:50	33.33
Chlorodibromomethane	33	U	33	14	ug/L			06/20/16 12:50	33.33
Dichlorodifluoromethane	33	U	33	11	ug/L			06/20/16 12:50	33.33
Ethylbenzene	33	U	33	8.3	ug/L			06/20/16 12:50	33.33
Isopropylbenzene	33	U	33	12	ug/L			06/20/16 12:50	33.33
Methyl acetate	330	U	330	76	ug/L			06/20/16 12:50	33.33
Methyl tert-butyl ether	33	U	33	6.7	ug/L			06/20/16 12:50	33.33
Methylcyclohexane	33	U	33	14	ug/L			06/20/16 12:50	33.33
Methylene Chloride	33	U *	33	11	ug/L			06/20/16 12:50	33.33
Styrene	33	U	33	15	ug/L			06/20/16 12:50	33.33
Tetrachloroethene	33	U	33	10	ug/L			06/20/16 12:50	33.33
Toluene	33	U	33	7.7	ug/L			06/20/16 12:50	33.33
trans-1,2-Dichloroethene	33	U	33	10	ug/L			06/20/16 12:50	33.33
trans-1,3-Dichloropropene	33	U	33	19	ug/L			06/20/16 12:50	33.33
Trichloroethene	300		33	7.3	ug/L			06/20/16 12:50	33.33
Trichlorofluoromethane	33	U	33	16	ug/L			06/20/16 12:50	33.33
Vinyl chloride	37		33	9.7	ug/L			06/20/16 12:50	33.33
Xylenes, Total	67	U	67	17	ug/L			06/20/16 12:50	33.33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	101		80 - 120		06/20/16 12:50	33.33
<i>Dibromofluoromethane (Surr)</i>	105		79 - 120		06/20/16 12:50	33.33
<i>4-Bromofluorobenzene (Surr)</i>	95		61 - 120		06/20/16 12:50	33.33

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Client Sample ID: NMW-11-061316

Lab Sample ID: 240-65988-3

Date Collected: 06/13/16 15:08

Matrix: Water

Date Received: 06/14/16 09:20

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		78 - 125		06/20/16 12:50	33.33

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	3.6		0.50	0.13	ug/L			06/21/16 19:33	1
Ethane	0.63		0.50	0.14	ug/L			06/21/16 19:33	1
Methane	3500		2.5	0.40	ug/L			06/23/16 15:10	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,1,1-Trifluoroethane	96		76 - 121		06/21/16 19:33	1			
1,1,1-Trifluoroethane	107		76 - 121		06/23/16 15:10	5			

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	36000		100	25	ug/L		06/16/16 10:46	06/17/16 13:10	1
Manganese	10000		15	5.1	ug/L		06/16/16 10:46	06/17/16 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	120		5.0	1.9	mg/L			06/17/16 12:15	1
Sulfate	120		1.0	0.13	mg/L			06/21/16 23:29	1
TOC Result 1	1.2		1.0	0.080	mg/L			06/21/16 14:27	1
TOC Result 2	0.45	J	1.0	0.080	mg/L			06/21/16 14:27	1
TOC Result 3	0.79	J	1.0	0.080	mg/L			06/21/16 14:27	1
TOC Result 4	0.41	J	1.0	0.080	mg/L			06/21/16 14:27	1
Total Organic Carbon	0.70	J	1.0	0.080	mg/L			06/21/16 14:27	1
Total Dissolved Solids	430		10	7.4	mg/L			06/17/16 10:19	1

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

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

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	1.0	0.44	ug/L	8260C
1,1,2,2-Tetrachloroethane	1.0	0.22	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.45	ug/L	8260C
1,1,2-Trichloroethane	1.0	0.24	ug/L	8260C
1,1-Dichloroethane	1.0	0.30	ug/L	8260C
1,1-Dichloroethene	1.0	0.45	ug/L	8260C
1,2,4-Trichlorobenzene	1.0	0.32	ug/L	8260C
1,2-Dibromo-3-Chloropropane	2.0	0.82	ug/L	8260C
1,2-Dichlorobenzene	1.0	0.25	ug/L	8260C
1,2-Dichloroethane	1.0	0.23	ug/L	8260C
1,2-Dichloropropane	1.0	0.25	ug/L	8260C
1,3-Dichlorobenzene	1.0	0.19	ug/L	8260C
1,4-Dichlorobenzene	1.0	0.27	ug/L	8260C
2-Butanone (MEK)	10	0.53	ug/L	8260C
2-Hexanone	10	0.48	ug/L	8260C
4-Methyl-2-pentanone (MIBK)	10	0.99	ug/L	8260C
Acetone	10	0.94	ug/L	8260C
Benzene	1.0	0.35	ug/L	8260C
Bromoform	1.0	0.56	ug/L	8260C
Bromomethane	1.0	0.44	ug/L	8260C
Carbon disulfide	1.0	0.38	ug/L	8260C
Carbon tetrachloride	1.0	0.43	ug/L	8260C
Chlorobenzene	1.0	0.25	ug/L	8260C
Chlorodibromomethane	1.0	0.43	ug/L	8260C
Chloroethane	1.0	0.32	ug/L	8260C
Chloroform	1.0	0.25	ug/L	8260C
Chloromethane	1.0	0.44	ug/L	8260C
cis-1,2-Dichloroethene	1.0	0.26	ug/L	8260C
cis-1,3-Dichloropropene	1.0	0.46	ug/L	8260C
Cyclohexane	1.0	0.45	ug/L	8260C
Dichlorobromomethane	1.0	0.29	ug/L	8260C
Dichlorodifluoromethane	1.0	0.32	ug/L	8260C
Ethylbenzene	1.0	0.25	ug/L	8260C
Ethylene Dibromide	1.0	0.32	ug/L	8260C
Isopropylbenzene	1.0	0.35	ug/L	8260C
Methyl acetate	10	2.3	ug/L	8260C
Methyl tert-butyl ether	1.0	0.20	ug/L	8260C
Methylcyclohexane	1.0	0.43	ug/L	8260C
Methylene Chloride	1.0	0.33	ug/L	8260C
Styrene	1.0	0.45	ug/L	8260C
Tetrachloroethene	1.0	0.31	ug/L	8260C
Toluene	1.0	0.23	ug/L	8260C
trans-1,2-Dichloroethene	1.0	0.30	ug/L	8260C
trans-1,3-Dichloropropene	1.0	0.56	ug/L	8260C
Trichloroethene	1.0	0.22	ug/L	8260C
Trichlorofluoromethane	1.0	0.49	ug/L	8260C
Vinyl chloride	1.0	0.29	ug/L	8260C
Xylenes, Total	2.0	0.52	ug/L	8260C

Method: RSK-175 - Dissolved Gases (GC)

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units	Method
Ethane	0.50	0.14	ug/L	RSK-175
Ethene	0.50	0.13	ug/L	RSK-175
Methane	0.50	0.080	ug/L	RSK-175

Method: 6010C - Metals (ICP) - Total Recoverable

Prep: 3005A

Analyte	RL	MDL	Units	Method
Iron	100	25	ug/L	6010C
Manganese	15	5.1	ug/L	6010C

General Chemistry

Analyte	RL	MDL	Units	Method
Alkalinity	5.0	1.9	mg/L	2320B-1997
Sulfate	1.0	0.13	mg/L	300.0
TOC Result 1	1.0	0.080	mg/L	9060A
TOC Result 2	1.0	0.080	mg/L	9060A
TOC Result 3	1.0	0.080	mg/L	9060A
TOC Result 4	1.0	0.080	mg/L	9060A
Total Organic Carbon	1.0	0.080	mg/L	9060A
Total Dissolved Solids	10	7.4	mg/L	SM 2540C

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DBFM (79-120)	BFB (61-120)	12DCE (78-125)
240-65988-1	TB-061316	90	94	84	96
240-65988-2	MW-81B-061316	100	103	94	105
240-65988-3	NMW-11-061316	101	105	95	106
240-65995-B-5 MS	Matrix Spike	96	98	92	104
240-65995-B-5 MSD	Matrix Spike Duplicate	96	97	92	102
LCS 240-235154/4	Lab Control Sample	96	97	90	101
MB 240-235154/6	Method Blank	92	91	88	94

Surrogate Legend

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

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		Trifluoroet (76-121)
240-65892-E-3 MS	Matrix Spike	101
240-65892-E-3 MSD	Matrix Spike Duplicate	102
240-65988-2	MW-81B-061316	95
240-65988-2	MW-81B-061316	107
240-65988-3	NMW-11-061316	96
240-65988-3	NMW-11-061316	107
240-65988-3 MS	NMW-11-061316	104
240-65988-3 MSD	NMW-11-061316	103
LCS 240-235129/5	Lab Control Sample	106
LCS 240-235546/5	Lab Control Sample	109
MB 240-235129/4	Method Blank	109
MB 240-235546/4	Method Blank	108

Surrogate Legend

- 1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

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

Lab Sample ID: MB 240-235154/6

Matrix: Water

Analysis Batch: 235154

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			06/20/16 11:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			06/20/16 11:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			06/20/16 11:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/20/16 11:05	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			06/20/16 11:05	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			06/20/16 11:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			06/20/16 11:05	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			06/20/16 11:05	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			06/20/16 11:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			06/20/16 11:05	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			06/20/16 11:05	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			06/20/16 11:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			06/20/16 11:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			06/20/16 11:05	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			06/20/16 11:05	1
2-Hexanone	10	U	10	0.48	ug/L			06/20/16 11:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			06/20/16 11:05	1
Acetone	10	U	10	0.94	ug/L			06/20/16 11:05	1
Benzene	1.0	U	1.0	0.35	ug/L			06/20/16 11:05	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			06/20/16 11:05	1
Bromoform	1.0	U	1.0	0.56	ug/L			06/20/16 11:05	1
Bromomethane	1.0	U	1.0	0.44	ug/L			06/20/16 11:05	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			06/20/16 11:05	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			06/20/16 11:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			06/20/16 11:05	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/20/16 11:05	1
Chloroform	1.0	U	1.0	0.25	ug/L			06/20/16 11:05	1
Chloromethane	1.0	U	1.0	0.44	ug/L			06/20/16 11:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			06/20/16 11:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			06/20/16 11:05	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			06/20/16 11:05	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			06/20/16 11:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			06/20/16 11:05	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			06/20/16 11:05	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			06/20/16 11:05	1
Methyl acetate	10	U	10	2.3	ug/L			06/20/16 11:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			06/20/16 11:05	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			06/20/16 11:05	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			06/20/16 11:05	1
Styrene	1.0	U	1.0	0.45	ug/L			06/20/16 11:05	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			06/20/16 11:05	1
Toluene	1.0	U	1.0	0.23	ug/L			06/20/16 11:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			06/20/16 11:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			06/20/16 11:05	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			06/20/16 11:05	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			06/20/16 11:05	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			06/20/16 11:05	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			06/20/16 11:05	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		06/20/16 11:05	1
Dibromofluoromethane (Surr)	91		79 - 120		06/20/16 11:05	1
4-Bromofluorobenzene (Surr)	88		61 - 120		06/20/16 11:05	1
1,2-Dichloroethane-d4 (Surr)	94		78 - 125		06/20/16 11:05	1

Lab Sample ID: LCS 240-235154/4
Matrix: Water
Analysis Batch: 235154

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-Trichloroethane	10.0	11.0		ug/L		110	77 - 123
1,1,2,2-Tetrachloroethane	10.0	11.9		ug/L		119	71 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	7.70		ug/L		77	67 - 138
1,1,2-Trichloroethane	10.0	11.0		ug/L		110	80 - 120
1,1-Dichloroethane	10.0	11.2		ug/L		112	79 - 125
1,1-Dichloroethene	10.0	11.8		ug/L		118	76 - 124
1,2,4-Trichlorobenzene	10.0	10.5		ug/L		105	61 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.15		ug/L		91	50 - 132
Ethylene Dibromide	10.0	11.2		ug/L		112	80 - 120
1,2-Dichlorobenzene	10.0	10.0		ug/L		100	79 - 120
1,2-Dichloroethane	10.0	11.9		ug/L		119	80 - 120
1,2-Dichloropropane	10.0	10.7		ug/L		107	78 - 124
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	79 - 120
1,4-Dichlorobenzene	10.0	10.6		ug/L		106	79 - 120
2-Butanone (MEK)	20.0	19.3		ug/L		97	56 - 138
2-Hexanone	20.0	20.1		ug/L		101	55 - 141
4-Methyl-2-pentanone (MIBK)	20.0	20.4		ug/L		102	64 - 135
Acetone	20.0	18.0		ug/L		90	34 - 148
Benzene	10.0	11.0		ug/L		110	80 - 120
Dichlorobromomethane	10.0	10.5		ug/L		105	80 - 120
Bromoform	10.0	10.1		ug/L		101	56 - 122
Bromomethane	10.0	7.40		ug/L		74	38 - 132
Carbon disulfide	10.0	13.2		ug/L		132	65 - 144
Carbon tetrachloride	10.0	10.7		ug/L		107	77 - 131
Chlorobenzene	10.0	10.5		ug/L		105	80 - 120
Chloroethane	10.0	8.56		ug/L		86	36 - 126
Chloroform	10.0	11.1		ug/L		111	80 - 120
Chloromethane	10.0	11.6		ug/L		116	48 - 133
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	79 - 120
cis-1,3-Dichloropropene	10.0	9.91		ug/L		99	74 - 126
Cyclohexane	10.0	8.41		ug/L		84	60 - 140
Chlorodibromomethane	10.0	10.5		ug/L		105	74 - 120
Dichlorodifluoromethane	10.0	6.14		ug/L		61	23 - 136
Ethylbenzene	10.0	10.7		ug/L		107	80 - 120
Isopropylbenzene	10.0	10.4		ug/L		104	77 - 120
Methyl acetate	50.0	54.0		ug/L		108	67 - 131
Methyl tert-butyl ether	10.0	11.1		ug/L		111	69 - 121
Methylcyclohexane	10.0	7.51		ug/L		75	61 - 134
Methylene Chloride	10.0	13.1	*	ug/L		131	77 - 129
Styrene	10.0	10.6		ug/L		106	76 - 122
Tetrachloroethene	10.0	9.93		ug/L		99	78 - 121
Toluene	10.0	11.2		ug/L		112	80 - 120
trans-1,2-Dichloroethene	10.0	11.6		ug/L		116	80 - 124

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

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

Lab Sample ID: LCS 240-235154/4
Matrix: Water
Analysis Batch: 235154

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	10.3		ug/L		103	75 - 131
Trichloroethene	10.0	10.7		ug/L		107	80 - 121
Trichlorofluoromethane	10.0	9.13		ug/L		91	61 - 133
Vinyl chloride	10.0	9.48		ug/L		95	52 - 121
Xylenes, Total	20.0	21.1		ug/L		106	80 - 120
m-Xylene & p-Xylene	10.0	10.7		ug/L		107	80 - 120
o-Xylene	10.0	10.4		ug/L		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	97		79 - 120
4-Bromofluorobenzene (Surr)	90		61 - 120
1,2-Dichloroethane-d4 (Surr)	101		78 - 125

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-235129/4
Matrix: Water
Analysis Batch: 235129

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	0.50	U	0.50	0.13	ug/L			06/21/16 15:33	1
Ethane	0.50	U	0.50	0.14	ug/L			06/21/16 15:33	1
Methane	0.50	U	0.50	0.080	ug/L			06/21/16 15:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	109		76 - 121		06/21/16 15:33	1

Lab Sample ID: LCS 240-235129/5
Matrix: Water
Analysis Batch: 235129

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethene	349	386		ug/L		111	79 - 132
Ethane	374	421		ug/L		112	76 - 131
Methane	199	194		ug/L		98	80 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,1-Trifluoroethane	106		76 - 121

Lab Sample ID: MB 240-235546/4
Matrix: Water
Analysis Batch: 235546

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	0.50	U	0.50	0.13	ug/L			06/23/16 14:01	1
Ethane	0.50	U	0.50	0.14	ug/L			06/23/16 14:01	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 240-235546/4

Matrix: Water

Analysis Batch: 235546

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.50	U	0.50	0.080	ug/L			06/23/16 14:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	108		76 - 121					06/23/16 14:01	1

Lab Sample ID: LCS 240-235546/5

Matrix: Water

Analysis Batch: 235546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethene	349	385		ug/L		110	79 - 132
Ethane	374	422		ug/L		113	76 - 131
Methane	199	196		ug/L		98	80 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,1,1-Trifluoroethane	109		76 - 121				

Lab Sample ID: 240-65988-3 MS

Matrix: Water

Analysis Batch: 235546

Client Sample ID: NMW-11-061316

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethene	3.1		1750	1840		ug/L		105	60 - 135
Ethane	2.5	U	1870	2020		ug/L		108	65 - 126
Methane	3500		994	4910		ug/L		141	48 - 159
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,1,1-Trifluoroethane	104		76 - 121						

Lab Sample ID: 240-65988-3 MSD

Matrix: Water

Analysis Batch: 235546

Client Sample ID: NMW-11-061316

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethene	3.1		1750	1840		ug/L		105	60 - 135	0	10
Ethane	2.5	U	1870	2020		ug/L		108	65 - 126	0	11
Methane	3500		994	4860		ug/L		136	48 - 159	1	23
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,1,1-Trifluoroethane	103		76 - 121								

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 240-234783/1-A
Matrix: Water
Analysis Batch: 234992

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 234783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	100	U	100	25	ug/L		06/16/16 10:46	06/17/16 10:57	1
Manganese	15	U	15	5.1	ug/L		06/16/16 10:46	06/17/16 10:57	1

Lab Sample ID: LCS 240-234783/2-A
Matrix: Water
Analysis Batch: 234992

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 234783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	1040		ug/L		104	80 - 120
Manganese	500	507		ug/L		101	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-235191/5
Matrix: Water
Analysis Batch: 235191

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	1.9	mg/L			06/17/16 11:02	1

Lab Sample ID: LCS 240-235191/4
Matrix: Water
Analysis Batch: 235191

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	368	374		mg/L		102	90 - 127

Lab Sample ID: 240-65988-3 DU
Matrix: Water
Analysis Batch: 235191

Client Sample ID: NMW-1I-061316
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	120		118		mg/L		0.7	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-235387/3
Matrix: Water
Analysis Batch: 235387

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			06/21/16 21:48	1

Lab Sample ID: LCS 240-235387/4
Matrix: Water
Analysis Batch: 235387

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	54.1		mg/L		108	90 - 110

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Lab Sample ID: 240-65988-2 MS
Matrix: Water
Analysis Batch: 235387

Client Sample ID: MW-81B-061316
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.0	U	50.0	56.1		mg/L		112	80 - 120

Lab Sample ID: 240-65988-2 MSD
Matrix: Water
Analysis Batch: 235387

Client Sample ID: MW-81B-061316
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1.0	U	50.0	54.9		mg/L		110	80 - 120	2	15

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-235446/4
Matrix: Water
Analysis Batch: 235446

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.0	U	1.0	0.080	mg/L			06/21/16 13:29	1
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			06/21/16 13:29	1

Lab Sample ID: LLCS 240-235446/5
Matrix: Water
Analysis Batch: 235446

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	7.20	6.95		mg/L		96	88 - 115
Total Organic Carbon	7.20	6.95		mg/L		96	88 - 115

Lab Sample ID: 240-65988-2 MS
Matrix: Water
Analysis Batch: 235446

Client Sample ID: MW-81B-061316
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	0.43	J	5.00	5.74		mg/L		106	72 - 136
Total Organic Carbon	0.31	J	5.00	5.74		mg/L		109	72 - 136

Lab Sample ID: 240-65988-2 MSD
Matrix: Water
Analysis Batch: 235446

Client Sample ID: MW-81B-061316
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TOC Result 1	0.43	J	5.00	5.71		mg/L		106	72 - 136	1	20
Total Organic Carbon	0.31	J	5.00	5.71		mg/L		108	72 - 136	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-234961/1
Matrix: Water
Analysis Batch: 234961

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L			06/17/16 10:19	1

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 240-234961/2
Matrix: Water
Analysis Batch: 234961

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	577	530		mg/L		92	88 - 110

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

GC/MS VOA

Analysis Batch: 235154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-65988-1	TB-061316	Total/NA	Water	8260C	
240-65988-2	MW-81B-061316	Total/NA	Water	8260C	
240-65988-3	NMW-11-061316	Total/NA	Water	8260C	
LCS 240-235154/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-235154/6	Method Blank	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 235129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-65988-2	MW-81B-061316	Total/NA	Water	RSK-175	
240-65988-3	NMW-11-061316	Total/NA	Water	RSK-175	
LCS 240-235129/5	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-235129/4	Method Blank	Total/NA	Water	RSK-175	

Analysis Batch: 235546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-65988-2	MW-81B-061316	Total/NA	Water	RSK-175	
240-65988-3	NMW-11-061316	Total/NA	Water	RSK-175	
240-65988-3 MS	NMW-11-061316	Total/NA	Water	RSK-175	
240-65988-3 MSD	NMW-11-061316	Total/NA	Water	RSK-175	
LCS 240-235546/5	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-235546/4	Method Blank	Total/NA	Water	RSK-175	

Metals

Prep Batch: 234783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-65988-2	MW-81B-061316	Total Recoverable	Water	3005A	
240-65988-3	NMW-11-061316	Total Recoverable	Water	3005A	
LCS 240-234783/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-234783/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 234992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-65988-2	MW-81B-061316	Total Recoverable	Water	6010C	234783
240-65988-3	NMW-11-061316	Total Recoverable	Water	6010C	234783
CRI 240-234992/111	DL		Water	6010C	
CRI 240-234992/20	DL		Water	6010C	
ICSA 240-234992/8	ICS		Water	6010C	
ICSAB 240-234992/9	ICS		Water	6010C	
LCS 240-234783/2-A	Lab Control Sample	Total Recoverable	Water	6010C	234783
MB 240-234783/1-A	Method Blank	Total Recoverable	Water	6010C	234783

General Chemistry

Analysis Batch: 234961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-65988-2	MW-81B-061316	Total/NA	Water	SM 2540C	
240-65988-3	NMW-11-061316	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

General Chemistry (Continued)

Analysis Batch: 234961 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-234961/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-234961/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 235191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-65988-2	MW-81B-061316	Total/NA	Water	2320B-1997	
240-65988-3	NMW-1I-061316	Total/NA	Water	2320B-1997	
240-65988-3 DU	NMW-1I-061316	Total/NA	Water	2320B-1997	
LCS 240-235191/4	Lab Control Sample	Total/NA	Water	2320B-1997	
MB 240-235191/5	Method Blank	Total/NA	Water	2320B-1997	

Analysis Batch: 235387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-65988-2	MW-81B-061316	Total/NA	Water	300.0	
240-65988-2 MS	MW-81B-061316	Total/NA	Water	300.0	
240-65988-2 MSD	MW-81B-061316	Total/NA	Water	300.0	
240-65988-3	NMW-1I-061316	Total/NA	Water	300.0	
LCS 240-235387/4	Lab Control Sample	Total/NA	Water	300.0	
MB 240-235387/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 235446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-65988-2	MW-81B-061316	Total/NA	Water	9060A	
240-65988-2 MS	MW-81B-061316	Total/NA	Water	9060A	
240-65988-2 MSD	MW-81B-061316	Total/NA	Water	9060A	
240-65988-3	NMW-1I-061316	Total/NA	Water	9060A	
LLCS 240-235446/5	Lab Control Sample	Total/NA	Water	9060A	
MB 240-235446/4	Method Blank	Total/NA	Water	9060A	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Client Sample ID: TB-061316

Lab Sample ID: 240-65988-1

Date Collected: 06/13/16 00:00

Matrix: Water

Date Received: 06/14/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235154	06/20/16 12:05	LEE	TAL CAN

Client Sample ID: MW-81B-061316

Lab Sample ID: 240-65988-2

Date Collected: 06/13/16 13:46

Matrix: Water

Date Received: 06/14/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	235154	06/20/16 12:28	LEE	TAL CAN
Total/NA	Analysis	RSK-175		1	235129	06/21/16 19:16	BPM	TAL CAN
Total/NA	Analysis	RSK-175		5	235546	06/23/16 14:53	BPM	TAL CAN
Total Recoverable	Prep	3005A			234783	06/16/16 10:46	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	234992	06/17/16 12:58	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	235191	06/17/16 12:06	JMB	TAL CAN
Total/NA	Analysis	300.0		1	235387	06/21/16 22:28	LCN	TAL CAN
Total/NA	Analysis	9060A		1	235446	06/21/16 13:46	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	234961	06/17/16 10:19	GNR	TAL CAN

Client Sample ID: NMW-11-061316

Lab Sample ID: 240-65988-3

Date Collected: 06/13/16 15:08

Matrix: Water

Date Received: 06/14/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		33.33	235154	06/20/16 12:50	LEE	TAL CAN
Total/NA	Analysis	RSK-175		1	235129	06/21/16 19:33	BPM	TAL CAN
Total/NA	Analysis	RSK-175		5	235546	06/23/16 15:10	BPM	TAL CAN
Total Recoverable	Prep	3005A			234783	06/16/16 10:46	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	234992	06/17/16 13:10	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	235191	06/17/16 12:15	JMB	TAL CAN
Total/NA	Analysis	300.0		1	235387	06/21/16 23:29	LCN	TAL CAN
Total/NA	Analysis	9060A		1	235446	06/21/16 14:27	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	234961	06/17/16 10:19	GNR	TAL CAN

Laboratory References:

Micro = Micro, 10515 Research Dr, Knoxville, TN 37932

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

Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

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	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-16 *
Illinois	NELAP	5	200004	07-31-16 *
Kansas	NELAP	7	E-10336	07-31-16 *
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-16
Nevada	State Program	9	OH-000482008A	07-31-16 *
New Jersey	NELAP	2	OH001	06-30-16 *
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-16 *
Texas	NELAP	6	T104704517-15-5	08-31-16 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16
Wisconsin	State Program	5	999518190	08-31-16 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010C	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9060A	Organic Carbon, Total (TOC)	SW846	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
DHC	General Sub Contract Method	NONE	Micro
DHC (Send unpreserved liter poly)	General Sub Contract Method	NONE	Micro

Protocol References:

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

NONE = NONE

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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.

Laboratory References:

Micro = Micro, 10515 Research Dr, Knoxville, TN 37932

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-65988-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-65988-1	TB-061316	Water	06/13/16 00:00	06/14/16 09:20
240-65988-2	MW-81B-061316	Water	06/13/16 13:46	06/14/16 09:20
240-65988-3	NMW-11-061316	Water	06/13/16 15:08	06/14/16 09:20

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: ZPID Analysis Batch Number: 235129

Lab Sample ID: 240-65988-2 Client Sample ID: MW-81B-061316

Date Analyzed: 06/21/16 19:16 Lab File ID: RSK0062117.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.88	Incomplete Integration	matthewsb	06/22/16 06:29
Ethane	2.20	Incomplete Integration	matthewsb	06/22/16 06:29

Lab Sample ID: 240-65988-3 Client Sample ID: NMW-1I-061316

Date Analyzed: 06/21/16 19:33 Lab File ID: RSK0062118.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethane	2.20	Split Peak	matthewsb	06/22/16 06:30

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: VERONICA Analysis Batch Number: 235384

Lab Sample ID: STD1 240-235384/1 IC Client Sample ID: _____

Date Analyzed: 06/21/16 13:44 Lab File ID: 2240-0055622-001.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.73	Peak not integrated	nolle1	06/21/16 15:48

Lab Sample ID: STD2 240-235384/2 IC Client Sample ID: _____

Date Analyzed: 06/21/16 14:05 Lab File ID: 3240-0055622-002.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.74	Peak not integrated	nolle1	06/22/16 07:36

Lab Sample ID: STD3 240-235384/3 IC Client Sample ID: _____

Date Analyzed: 06/21/16 14:25 Lab File ID: 4240-0055622-003.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.74	Peak not integrated	nolle1	06/21/16 15:48

Lab Sample ID: STD4 240-235384/4 IC Client Sample ID: _____

Date Analyzed: 06/21/16 14:45 Lab File ID: 5240-0055622-004.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.73	Peak not integrated	nolle1	06/21/16 15:49

Lab Sample ID: STD5 240-235384/5 ICRT Client Sample ID: _____

Date Analyzed: 06/21/16 15:05 Lab File ID: 6240-0055622-005.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.74	Peak not integrated	nolle1	06/21/16 15:49

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: VERONICA Analysis Batch Number: 235384

Lab Sample ID: STD6 240-235384/6 IC Client Sample ID: _____

Date Analyzed: 06/21/16 15:25 Lab File ID: 7240-0055622-006.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.74	Peak not integrated	nolle1	06/21/16 15:50

Lab Sample ID: STD7 240-235384/7 IC Client Sample ID: _____

Date Analyzed: 06/21/16 15:45 Lab File ID: 8240-0055622-007.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.74	Peak not integrated	nolle1	06/22/16 07:37

Lab Sample ID: STD8 240-235384/8 IC Client Sample ID: _____

Date Analyzed: 06/21/16 16:05 Lab File ID: 9240-0055622-008.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.75	Peak not integrated	nolle1	06/22/16 07:37

Lab Sample ID: STD9 240-235384/9 IC Client Sample ID: _____

Date Analyzed: 06/21/16 16:26 Lab File ID: 10240-0055622-009.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.75	Peak not integrated	nolle1	06/22/16 07:37

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: VERONICA Analysis Batch Number: 235387

Lab Sample ID: CCV 240-235387/1 Client Sample ID: _____

Date Analyzed: 06/21/16 21:08 Lab File ID: 24240-0055623-001.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.74	Peak not integrated	nolle1	06/22/16 12:58

Lab Sample ID: CCV 240-235387/13 Client Sample ID: _____

Date Analyzed: 06/22/16 01:10 Lab File ID: 36240-0055623-013.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.74	Peak not integrated	nolle1	06/22/16 12:59

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MT6500ICV_00031	09/08/16	03/08/16	DIWATER, Lot DIWATER	1000 mL	MTTRICV1_00006	5 mL	Iron	12500 ug/L
.MTTRICV1_00006	10/01/16		CPI, Lot 1080445		MTTRICV3_00007	6 mL	Manganese	1500 ug/L
.MTTRICV3_00007	01/01/17		CPI, Lot 1084215				Iron	2500 ug/mL
							Manganese	250 mg/L
MTAGSPIKEW_00058	06/09/17	05/17/16	DIWATER, Lot DIWATER	1000 mL	MTAG_00006	2.5 mL	Ag	2500 ug/L
.MTAG_00006	06/09/17		HIGH PURITY STANDARDS, Lot 1507504		MTTMHNO3_00083	50 mL	Nitric acid	50000000 ug/L
.MTTMHNO3_00083	03/16/18		Macron/Avantor, Lot 0000129810				Ag	1000 ug/mL
							Nitric acid	100 %
MTICP1_00052	12/09/16	05/17/16	DIWATER, Lot DI WATER	1000 mL	MTICPSPIKE1A_00010	50 mL	Al	100000 ug/L
							As	100000 ug/L
							B	50000 ug/L
							Ba	100000 ug/L
							Be	2500 ug/L
							Cd	2500 ug/L
							Co	25000 ug/L
							Cr	10000 ug/L
							Cu	12500 ug/L
							Iron	50000 ug/L
							Manganese	25000 ug/L
							Ni	25000 ug/L
							Pb	25000 ug/L
							Se	100000 ug/L
							Tl	100000 ug/L
							V	25000 ug/L
							Zn	25000 ug/L
					MTICPSPIKEB_00009	50 mL	Mo	50000 ug/L
							Sb	25000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00006	50 mL	Li	50000 ug/L
							Si	50000 ug/L
							SiO2	107000 ug/L
							Sr	50000 ug/L
					MTTMHNO3_00086	50 mL	Nitric acid	50000000 ug/L
.MTICPSPIKE1A_00010	12/09/16		High Purity Standards, Lot 1534135				Al	2000 ug/mL
							As	2000 ug/mL
							B	1000 ug/mL
							Ba	2000 ug/mL
							Be	50 ug/mL
							Cd	50 ug/mL
							Co	500 ug/mL
							Cr	200 ug/mL
							Cu	250 ug/mL
							Iron	1000 ug/mL
							Manganese	500 ug/mL
							Ni	500 ug/mL
							Pb	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Se	2000 ug/mL
							Tl	2000 ug/mL
							V	500 ug/mL
							Zn	500 ug/mL
.MTICPSPIKEB_00009	12/09/16		High Purity Standards, Lot 1534137			(Purchased Reagent)	Mo	1000 ug/mL
							Sb	500 ug/mL
							Sn	2000 ug/mL
							Ti	1000 ug/mL
.MTICPSpikeOdd_00006	12/09/16		High Purity Standards, Lot 1534138			(Purchased Reagent)	Li	1000 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sr	1000 ug/mL
.MTTMHNO3_00086	05/03/18		Macron/Avantor, Lot 0000129810			(Purchased Reagent)	Nitric acid	100 %
MTICP2A_00060	04/08/17	05/13/16	DIWATER, Lot DIWATER	1000 mL	MTTMHNO3_00086	50 mL	Nitric acid	50000 mg/L
					MTTRCAL2_00014	250 mL	Ca	2500 mg/L
							K	2500 mg/L
							Mg	2500 mg/L
							Na	2500 mg/L
.MTTMHNO3_00086	05/03/18		Macron/Avantor, Lot 0000129810			(Purchased Reagent)	Nitric acid	100 %
.MTTRCAL2_00014	04/08/17		HIGH PURITY STANDARDS, Lot 1603418			(Purchased Reagent)	Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
MTICPCCV_00073	11/30/16	05/31/16	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00013	200 mL	Iron	25000 ug/L
							Manganese	2000 ug/L
.MTICPCCV1_00013	04/21/19		INORGANIC VENTURES, Lot K2-MEB632080			(Purchased Reagent)	Iron	250000 ug/L
							Manganese	20000 ug/L
MTICPICSABW_00011	12/03/16	06/03/16	DIWATER, Lot DIWATER	1000 mL	MTICPICSAB1_00005	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
							Cd	1000 ug/L
							Co	500 ug/L
							Cr	500 ug/L
							Cu	500 ug/L
							Iron	200000 ug/L
							K	10000 ug/L
							Li	500 ug/L
							Manganese	500 ug/L
							Mg	500000 ug/L
							Na	10000 ug/L
							Ni	1000 ug/L
							Pb	1000 ug/L
							Se	1000 ug/L
							Sr	1500 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tl	1000 ug/L
							V	500 ug/L
							Zn	1000 ug/L
					MTICPICSAB2_00005	100 mL	Ag	1000 ug/L
							Mo	1000 ug/L
							Sb	1000 ug/L
							Si	10000 ug/L
							Sn	500 ug/L
							Ti	500 ug/L
.MTICPICSAB1_00005	01/01/17		INORGANIC VENTURES, Lot J2-MEB612071			(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
							Cd	10000 ug/L
							Co	5000 ug/L
							Cr	5000 ug/L
							Cu	5000 ug/L
							Iron	2000000 ug/L
							K	100000 ug/L
							Li	5000 ug/L
							Manganese	5000 ug/L
							Mg	5000000 ug/L
							Na	100000 ug/L
							Ni	10000 ug/L
							Pb	10000 ug/L
							Se	10000 ug/L
							Sr	15000 ug/L
							Tl	10000 ug/L
							V	5000 ug/L
							Zn	10000 ug/L
.MTICPICSAB2_00005	01/01/17		INORGANIC VENTURES, Lot J2-MEB612072			(Purchased Reagent)	Ag	10000 ug/L
							Mo	10000 ug/L
							Sb	10000 ug/L
							Si	100000 ug/L
							Sn	5000 ug/L
							Ti	5000 ug/L
MTTMHCL_00113	06/07/18		Fisher, Lot 4115120			(Purchased Reagent)	Hydrogen Chloride	100 %
MTTMHNO3_00089	06/07/18		Macron/Avantor, Lot 0000138698			(Purchased Reagent)	Nitric acid	100 %
MTTRCRIC_00036	12/01/16	06/01/16	DIWATER, Lot DIWATER	500 mL	MTTRCRI6010C_00013	25 mL	Iron	200 ug/L
							Manganese	15 ug/L
.MTTRCRI6010C_00013	01/01/17		Inorganic Ventures, Lot J2-MEB612074			(Purchased Reagent)	Iron	4000 ug/L
							Manganese	300 ug/L
MTTRICSAW_00030	09/04/16	03/04/16	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00014	100 mL	Al	500000 ug/L
							Ca	500000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MTTRICSA_00014	04/02/18		INORGANIC VENTURES, Lot J2-MEB572053			(Purchased Reagent)	Iron	200000 ug/L
							Mg	500000 ug/L
							Al	5000 ug/mL
							Ca	5000 ug/mL
							Iron	2000 ug/mL
							Mg	5000 ug/mL
SAICALSURR_00009	07/14/16		Matheson Trigas, Lot 109-46-10609			(Purchased Reagent)	1,1,1-Trifluoroethane	172158 ug/L
SARSK2NDSRCE_00010	10/13/18		Air Liquide-Scott Specialty gases, Lot 403-120156			(Purchased Reagent)	Ethane	12338 ug/L
							Ethene	11518 ug/L
							Methane	6558 ug/L
SARSKHIGHCALP_00007	09/18/17		Matheson Trigas, Lot 109-56-13135			(Purchased Reagent)	Acetylene	10657 ug/L
							Ethane	12338 ug/L
							Ethene	11518 ug/L
							Methane	6558 ug/L
							Propane	18077 ug/L
SARSKLOWCAL_00008	09/18/17		MATHESON TRI-GAS INC., Lot 109-56-13136			(Purchased Reagent)	Acetylene	1066 ug/L
							Ethane	1234 ug/L
							Ethene	1152 ug/L
							Methane	656 ug/L
							Propane	1808 ug/L
SARSKSURR_00009	11/19/16		Matheson Trigas, Lot 9302603973			(Purchased Reagent)	1,1,1-Trifluoroethane	11190 ug/L
VM50IS_00055	10/03/16	04/05/16	MEOH, Lot 118655	100 mL	vm30241_00004	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00004	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_stk_00068	06/21/16	12/21/15	MEOH, Lot 0000118655	200 mL	VM567650_00023	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_00023	06/30/19		Restek, Lot A0104073			(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_00069	10/18/16	04/19/16	MEOH, Lot 0000118655	200 mL	VM567650_00023	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_00023	06/30/19		Restek, Lot A0104073			(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_00150	06/02/16	05/26/16	MEOH, Lot na	3 mL	VMACROLSTD_00036	3 mL	Acrolein	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMACROLSTD_00036	06/06/16	05/02/16	MEOH, Lot 0000118655	20 mL	VM568720_00012	250 uL	Acrolein	250 ug/mL
..VM568720_00012	06/30/16		restek, Lot A0117486		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00157	05/28/16	05/25/16	MEOH, Lot NA	2 mL	VMFASG_00044	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_00044	05/28/16	04/28/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063		(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
VMFASGW_00160	06/22/16	06/15/16	MEOH, Lot NA	2 mL	VMFASG_00045	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_00045	06/30/16	05/31/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063		(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
VMFASPW_00155	06/02/16	05/26/16	MEOH, Lot n/a	2 mL	VMRFASP_00029	2 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
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

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
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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
							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
.VMRFASP_00029	06/02/16	05/02/16	MEOH, Lot 0000118655	50 mL	VM569720S_00001	1 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
							1,2,4-Trichlorobenzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

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
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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							
Xylenes, Total	100 ug/mL							
VM569721S_00001					0.4 mL	2-Butanone (MEK)	100 ug/mL	
						2-Hexanone	100 ug/mL	
						4-Methyl-2-pentanone (MIBK)	100 ug/mL	
						Acetone	100 ug/mL	
..VM569720S_00001	01/31/17		Restek, Lot A0108163			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
trans-1,3-Dichloropropene	2500 ug/mL							
Trichloroethene	2500 ug/mL							
Xylenes, Total	5000 ug/mL							
..VM569721S_00001	01/31/18		Restek, Lot A0108157		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMFASPW_00159	06/22/16	06/15/16	MEOH, Lot n/a	2 mL	VMRFASP_00030	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

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
							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
							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
							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							
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							
.VMRFASP_00030	06/30/16	05/31/16	MEOH, Lot +173000000127999JM	100 mL	VM569720S_00001	2 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
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

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
							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
							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
Xylenes, Total	100 ug/mL							
VM569721S_00001					0.8 mL	2-Butanone (MEK)	100 ug/mL	
						2-Hexanone	100 ug/mL	
						4-Methyl-2-pentanone (MIBK)	100 ug/mL	
						Acetone	100 ug/mL	
..VM569720S_00001	01/31/17		Restek, Lot A0108163			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
Trichloroethene	2500 ug/mL							
Xylenes, Total	5000 ug/mL							
..VM569721S_00001	01/31/18		Restek, Lot A0108157		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMRGAS_00154	06/01/16	05/25/16	MEOH, Lot 0000127999	10 mL	vm569722_00004	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
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00004	04/30/18		Restek, Lot A0110070		(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_00158	06/27/16	06/20/16	MEOH, Lot 0000127999	10 mL	vm569722_00006	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_00006	10/31/18		Restek, Lot A0115012		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00186	05/30/16	05/23/16	MEOH, Lot NA	1 mL	VMRPRIM_00015	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
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

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-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-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	50 ug/mL
.VMRPRIM_00015	06/30/16	01/30/16	MEOH, Lot 0000118655	50 mL	VM569720_00001	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

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
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 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
							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-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

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-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		
							VM569721_00001	0.4 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
		VM569724_00004	0.5 mL	Vinyl acetate	50 ug/mL					
..VM569720_00001	01/31/17		Restek, Lot A0108166		(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL			
						1,1,1-Trichloroethane	2500 ug/mL			
						1,1,2,2-Tetrachloroethane	2500 ug/mL			
						1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL			
						1,1,2-Trichloroethane	2500 ug/mL			
						1,1-Dichloroethane	2500 ug/mL			
						1,1-Dichloroethene	2500 ug/mL			
						1,1-Dichloropropene	2500 ug/mL			
						1,2,3-Trichlorobenzene	2500 ug/mL			
						1,2,3-Trichloropropene	2500 ug/mL			
						1,2,4-Trichlorobenzene	2500 ug/mL			
						1,2,4-Trimethylbenzene	2500 ug/mL			
						1,2-Dibromo-3-Chloropropene	2500 ug/mL			
						1,2-Dichlorobenzene	2500 ug/mL			
						1,2-Dichloroethane	2500 ug/mL			
						1,2-Dichloropropene	2500 ug/mL			
						1,3,5-Trimethylbenzene	2500 ug/mL			
						1,3-Dichlorobenzene	2500 ug/mL			
						1,3-Dichloropropene	2500 ug/mL			
						1,4-Dichlorobenzene	2500 ug/mL			
						1,4-Dioxane	50000 ug/mL			
						2,2-Dichloropropene	2500 ug/mL			
						2-Chlorotoluene	2500 ug/mL			
						2-Methyl-2-propanol	25000 ug/mL			
						3-Chloro-1-propene	2500 ug/mL			
						4-Chlorotoluene	2500 ug/mL			
						4-Isopropyltoluene	2500 ug/mL			
						Acrylonitrile	25000 ug/mL			
						Benzene	2500 ug/mL			
						Bromobenzene	2500 ug/mL			
						Bromoform	2500 ug/mL			
						Carbon disulfide	2500 ug/mL			

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..VM569721_00001	04/30/18		Restek, Lot A0110400			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00001	01/31/18		restek, Lot A0108172			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00004	06/30/16		Restek, Lot A0115764			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
VMRPRIMW_00190	06/20/16	06/13/16	MEOH, Lot NA	1 mL	VMRPRIM_00017	1 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.: 240-65988-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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
							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
.VMRPRIM_00017	06/30/16	05/31/16	MEOH, Lot +173000000127999JM	50 mL	VM569720_00001	1 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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							
Xylenes, Total	100 ug/mL							
VM569721_00001					0.4 mL	2-Butanone (MEK)	100 ug/mL	
						2-Hexanone	100 ug/mL	
						4-Methyl-2-pentanone (MIBK)	100 ug/mL	
						Acetone	100 ug/mL	
..VM569720_00001	01/31/17		Restek, Lot A0108166			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

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	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..VM569721_00001	04/30/18		Restek, Lot A0110400			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
WC LCS_00047	11/23/16	05/23/16	DIWATER, Lot 222	1 L	WCWIBBYDEMAND_00008	500 mL	TOC Result 1	7.2 mg/L
							Total Organic Carbon	7.2 mg/L
.WCWIBBYDEMAND_00008	11/30/18		Phenova, Lot 8162-07			(Purchased Reagent)	TOC Result 1	14.4 mL
							Total Organic Carbon	14.4 mL
WC TOC CCVL_00101	06/28/16	06/21/16	DIWATER, Lot xxx	250 mL	WCCARBON1000_00028	1.25 mL	TOC Result 1	5 mg/L
							Total Organic Carbon	5 mg/L
.WCCARBON1000_00028	05/03/18		Absolute Standards, Lot 041916			(Purchased Reagent)	TOC Result 1	1000 mg/L
							Total Organic Carbon	1000 mg/L
WCICCALSOVN_00260	06/22/16	06/15/16	ELUENT, Lot 1847588	20 mL	WCICSOVN1_00015	1.6 mL	Bromide	40 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloride	200 mg/L
							Fluoride	10 mg/L
							Sulfate	200 mg/L
.WCICSOLNA1_00015	06/06/19		Inorganic Ventures, Lot K2-MEB636034		(Purchased Reagent)		Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Sulfate	2500 ug/mL
WCICCV 00693	06/29/16	06/22/16	ELUENT, Lot 2522229	100 mL	WCICSOLNA1_00015	2 mL	Sulfate	50 mg/L
.WCICSOLNA1_00015	06/06/19		Inorganic Ventures, Lot K2-MEB636034		(Purchased Reagent)		Sulfate	2500 ug/mL
WCICLCS 00538	06/29/16	06/22/16	ELUENT, Lot 2522229	100 mL	WCICSOLNA2_00016	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831		(Purchased Reagent)		Sulfate	500 ug/mL
WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142		(Purchased Reagent)		Sulfate	2500 ug/mL
WCPHENOMINER 00015	05/31/18		PHENOVA-WIBBY, Lot 8156-08		(Purchased Reagent)		Alkalinity	368 mg/L
WCPHENOVOLID 00015	09/30/18		PHENOVA- WIBBY, Lot 8160-09		(Purchased Reagent)		Total Dissolved Solids	577 mg/L

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 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-061316	240-65988-1	94	96	90	84
MW-81B-061316	240-65988-2	103	105	100	94
NMW-1I-061316	240-65988-3	105	106	101	95
	MB 240-235154/6	91	94	92	88
	LCS 240-235154/4	97	101	96	90
	240-65995-B-5 MS	98	104	96	92
	240-65995-B-5 MSD	97	102	96	92

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

QC LIMITS
 79-120
 78-125
 80-120
 61-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXJ5602.D

Lab ID: LCS 240-235154/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	11.0	110	77-123	
1,1,2,2-Tetrachloroethane	10.0	11.9	119	71-123	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	7.70	77	67-138	
1,1,2-Trichloroethane	10.0	11.0	110	80-120	
1,1-Dichloroethane	10.0	11.2	112	79-125	
1,1-Dichloroethene	10.0	11.8	118	76-124	
1,2,4-Trichlorobenzene	10.0	10.5	105	61-120	
1,2-Dibromo-3-Chloropropane	10.0	9.15	91	50-132	
Ethylene Dibromide	10.0	11.2	112	80-120	
1,2-Dichlorobenzene	10.0	10.0	100	79-120	
1,2-Dichloroethane	10.0	11.9	119	80-120	
1,2-Dichloropropane	10.0	10.7	107	78-124	
1,3-Dichlorobenzene	10.0	10.3	103	79-120	
1,4-Dichlorobenzene	10.0	10.6	106	79-120	
2-Butanone (MEK)	20.0	19.3	97	56-138	
2-Hexanone	20.0	20.1	101	55-141	
4-Methyl-2-pentanone (MIBK)	20.0	20.4	102	64-135	
Acetone	20.0	18.0	90	34-148	
Benzene	10.0	11.0	110	80-120	
Dichlorobromomethane	10.0	10.5	105	80-120	
Bromoform	10.0	10.1	101	56-122	
Bromomethane	10.0	7.40	74	38-132	
Carbon disulfide	10.0	13.2	132	65-144	
Carbon tetrachloride	10.0	10.7	107	77-131	
Chlorobenzene	10.0	10.5	105	80-120	
Chloroethane	10.0	8.56	86	36-126	
Chloroform	10.0	11.1	111	80-120	
Chloromethane	10.0	11.6	116	48-133	
cis-1,2-Dichloroethene	10.0	10.9	109	79-120	
cis-1,3-Dichloropropene	10.0	9.91	99	74-126	
Cyclohexane	10.0	8.41	84	60-140	
Chlorodibromomethane	10.0	10.5	105	74-120	
Dichlorodifluoromethane	10.0	6.14	61	23-136	
Ethylbenzene	10.0	10.7	107	80-120	
Isopropylbenzene	10.0	10.4	104	77-120	
Methyl acetate	50.0	54.0	108	67-131	
Methyl tert-butyl ether	10.0	11.1	111	69-121	
Methylcyclohexane	10.0	7.51	75	61-134	
Methylene Chloride	10.0	13.1	131	77-129	*
Styrene	10.0	10.6	106	76-122	
Tetrachloroethene	10.0	9.93	99	78-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXJ5602.D

Lab ID: LCS 240-235154/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	10.0	11.2	112	80-120	
trans-1,2-Dichloroethene	10.0	11.6	116	80-124	
trans-1,3-Dichloropropene	10.0	10.3	103	75-131	
Trichloroethene	10.0	10.7	107	80-121	
Trichlorofluoromethane	10.0	9.13	91	61-133	
Vinyl chloride	10.0	9.48	95	52-121	
Xylenes, Total	20.0	21.1	106	80-120	
m-Xylene & p-Xylene	10.0	10.7	107	80-120	
o-Xylene	10.0	10.4	104	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXJ5626.D

Lab ID: 240-65995-B-5 MS

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	1670	170 U	1810	109	69-122	
1,1,2,2-Tetrachloroethane	1670	170 U	1860	112	61-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	1670	170 U	1030	62	44-140	
1,1,2-Trichloroethane	1670	170 U	1820	109	72-125	
1,1-Dichloroethane	1670	170 U	1830	110	73-124	
1,1-Dichloroethene	1670	170 U	2000	120	67-124	
1,2,4-Trichlorobenzene	1670	170 U	1640	98	48-120	
1,2-Dibromo-3-Chloropropane	1670	330 U	1380	83	42-130	
Ethylene Dibromide	1670	170 U	1830	110	69-125	
1,2-Dichlorobenzene	1670	170 U	1620	97	67-118	
1,2-Dichloroethane	1670	170 U	1980	119	74-125	
1,2-Dichloropropane	1670	170 U	1760	106	73-122	
1,3-Dichlorobenzene	1670	170 U	1650	99	65-120	
1,4-Dichlorobenzene	1670	170 U	1650	99	66-120	
2-Butanone (MEK)	3330	6200	9790	106	49-132	
2-Hexanone	3330	1700 U	3190	96	49-142	
4-Methyl-2-pentanone (MIBK)	3330	1700 U	3460	104	58-136	
Acetone	3330	8000	12900	149	32-126	F1
Benzene	1670	170 U	1830	110	73-121	
Dichlorobromomethane	1670	170 U	1730	104	72-120	
Bromoform	1670	170 U	1480	89	45-121	
Bromomethane	1670	170 U	1050	63	26-136	
Carbon disulfide	1670	170 U	2080	125	54-144	
Carbon tetrachloride	1670	170 U	1680	101	65-129	
Chlorobenzene	1670	170 U	1690	101	72-120	
Chloroethane	1670	170 U	1370	82	27-131	
Chloroform	1670	170 U	1890	113	73-121	
Chloromethane	1670	170 U	2080	125	39-134	
cis-1,2-Dichloroethene	1670	170 U	1830	110	66-124	
cis-1,3-Dichloropropene	1670	170 U	1590	96	60-120	
Cyclohexane	1670	170 U	1180	71	41-137	
Chlorodibromomethane	1670	170 U	1620	97	62-122	
Dichlorodifluoromethane	1670	170 U	1250	75	14-137	
Ethylbenzene	1670	170 U	1680	101	68-121	
Isopropylbenzene	1670	170 U	1610	96	61-122	
Methyl acetate	8330	1700 U	9080	109	64-124	
Methyl tert-butyl ether	1670	170 U	1850	111	61-121	
Methylcyclohexane	1670	170 U	985	59	39-135	
Methylene Chloride	1670	170 U	2080	125	70-124	F1
Styrene	1670	170 U	1690	101	64-126	
Tetrachloroethene	1670	170 U	1520	91	59-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXJ5626.D
 Lab ID: 240-65995-B-5 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	1670	170 U	1750	105	72-122	
trans-1,2-Dichloroethene	1670	170 U	1880	113	72-125	
trans-1,3-Dichloropropene	1670	170 U	1580	95	58-132	
Trichloroethene	1670	170 U	1760	105	61-129	
Trichlorofluoromethane	1670	170 U	1850	111	49-133	
Vinyl chloride	1670	170 U	1730	104	44-122	
Xylenes, Total	3330	330 U	3310	99	67-122	
m-Xylene & p-Xylene	1670	330 U	1650	99	66-123	
o-Xylene	1670	170 U	1660	99	68-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXJ5627.D

Lab ID: 240-65995-B-5 MSD

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	1670	1790	107	1	14	69-122	
1,1,2,2-Tetrachloroethane	1670	1930	116	4	18	61-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	1670	1790	107	53	35	44-140	F2
1,1,2-Trichloroethane	1670	1800	108	1	19	72-125	
1,1-Dichloroethane	1670	1790	107	3	14	73-124	
1,1-Dichloroethene	1670	2070	124	4	24	67-124	
1,2,4-Trichlorobenzene	1670	1730	104	5	28	48-120	
1,2-Dibromo-3-Chloropropane	1670	1520	91	10	24	42-130	
Ethylene Dibromide	1670	1800	108	1	24	69-125	
1,2-Dichlorobenzene	1670	1600	96	1	15	67-118	
1,2-Dichloroethane	1670	1930	116	3	24	74-125	
1,2-Dichloropropane	1670	1720	103	2	15	73-122	
1,3-Dichlorobenzene	1670	1650	99	0	15	65-120	
1,4-Dichlorobenzene	1670	1660	100	1	16	66-120	
2-Butanone (MEK)	3330	9330	93	5	19	49-132	
2-Hexanone	3330	3160	95	1	27	49-142	
4-Methyl-2-pentanone (MIBK)	3330	3530	106	2	32	58-136	
Acetone	3330	12600	139	3	28	32-126	F1
Benzene	1670	1760	106	4	13	73-121	
Dichlorobromomethane	1670	1690	102	2	19	72-120	
Bromoform	1670	1510	90	2	19	45-121	
Bromomethane	1670	1200	72	13	35	26-136	
Carbon disulfide	1670	2090	125	1	34	54-144	
Carbon tetrachloride	1670	1850	111	10	20	65-129	
Chlorobenzene	1670	1660	99	2	15	72-120	
Chloroethane	1670	1430	86	5	35	27-131	
Chloroform	1670	1830	110	3	17	73-121	
Chloromethane	1670	1980	119	5	20	39-134	
cis-1,2-Dichloroethene	1670	1770	106	3	22	66-124	
cis-1,3-Dichloropropene	1670	1560	93	2	21	60-120	
Cyclohexane	1670	1830	110	43	35	41-137	F2
Chlorodibromomethane	1670	1640	99	1	19	62-122	
Dichlorodifluoromethane	1670	1710	102	31	34	14-137	
Ethylbenzene	1670	1630	98	3	16	68-121	
Isopropylbenzene	1670	1630	98	1	20	61-122	
Methyl acetate	8330	9210	111	1	12	64-124	
Methyl tert-butyl ether	1670	1840	110	0	12	61-121	
Methylcyclohexane	1670	1670	100	51	35	39-135	F2
Methylene Chloride	1670	2030	122	2	14	70-124	
Styrene	1670	1650	99	2	15	64-126	
Tetrachloroethene	1670	1590	95	4	20	59-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXJ5627.D
 Lab ID: 240-65995-B-5 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	1670	1740	104	0	15	72-122	
trans-1,2-Dichloroethene	1670	1860	112	1	25	72-125	
trans-1,3-Dichloropropene	1670	1560	94	1	22	58-132	
Trichloroethene	1670	1690	102	4	14	61-129	
Trichlorofluoromethane	1670	2230	134	19	25	49-133	F1
Vinyl chloride	1670	1770	106	2	35	44-122	
Xylenes, Total	3330	3290	99	1	14	67-122	
m-Xylene & p-Xylene	1670	1650	99	0	15	66-123	
o-Xylene	1670	1640	98	1	14	68-121	

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.: 240-65988-1
 SDG No.: _____
 Lab File ID: UXJ5605.D Lab Sample ID: MB 240-235154/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX11 Date Analyzed: 06/20/2016 11:05
 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 240-235154/4	UXJ5602.D	06/20/2016 09:57
TB-061316	240-65988-1	UXJ5607.D	06/20/2016 12:05
MW-81B-061316	240-65988-2	UXJ5608.D	06/20/2016 12:28
NMW-1I-061316	240-65988-3	UXJ5609.D	06/20/2016 12:50
	240-65995-B-5 MS	UXJ5626.D	06/20/2016 19:12
	240-65995-B-5 MSD	UXJ5627.D	06/20/2016 19:35

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

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab File ID: BFB6528.D BFB Injection Date: 05/28/2016
 Instrument ID: A3UX11 BFB Injection Time: 08:28
 Analysis Batch No.: 232366

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	43.7	
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	89.7	
175	5.0 - 9.0 % of mass 174	6.8	(7.6) 1
176	95.0 - 101.0 % of mass 174	86.3	(96.2) 1
177	5.0 - 9.0 % of mass 176	5.8	(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 240-232366/2	UXJ4939.D	05/28/2016	09:12
	STD8260 240-232366/3	UXJ4940.D	05/28/2016	09:34
	STD8260 240-232366/4	UXJ4941.D	05/28/2016	09:56
	STD8260 240-232366/5	UXJ4942.D	05/28/2016	10:19
	STD8260 240-232366/6	UXJ4943.D	05/28/2016	10:40
	STD8260 240-232366/7	UXJ4944.D	05/28/2016	11:03
	ICV 240-232366/14	UXJ4945.D	05/28/2016	11:25
	ICV 240-232366/15	UXJ4952.D	05/28/2016	14:03

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

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab File ID: BFB6620.D BFB Injection Date: 06/20/2016
 Instrument ID: A3UX11 BFB Injection Time: 09:01
 Analysis Batch No.: 235154

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	46.4	
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	84.1	
175	5.0 - 9.0 % of mass 174	6.4	(7.6) 1
176	95.0 - 101.0 % of mass 174	81.9	(97.4) 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 240-235154/2	UXJ5601.D	06/20/2016	09:34
	LCS 240-235154/4	UXJ5602.D	06/20/2016	09:57
	CCV 240-235154/3	UXJ5603.D	06/20/2016	10:20
	MB 240-235154/6	UXJ5605.D	06/20/2016	11:05
TB-061316	240-65988-1	UXJ5607.D	06/20/2016	12:05
MW-81B-061316	240-65988-2	UXJ5608.D	06/20/2016	12:28
NMW-1I-061316	240-65988-3	UXJ5609.D	06/20/2016	12:50
	240-65995-B-5 MS	UXJ5626.D	06/20/2016	19:12
	240-65995-B-5 MSD	UXJ5627.D	06/20/2016	19:35

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

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Sample No.: STD8260 240-232366/4 Date Analyzed: 05/28/2016 09:56
 Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXJ4941.D Heated Purge: (Y/N) N
 Calibration ID: 34632

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1420065	5.12	934240	7.78	380946	10.01	
UPPER LIMIT	2840130	5.62	1868480	8.28	761892	10.51	
LOWER LIMIT	710033	4.62	467120	7.28	190473	9.51	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-232366/14		1349328	5.12	892490	7.78	381895	10.03
ICV 240-232366/15		1213041	5.12	839047	7.78	340685	10.01
CCVIS 240-235154/2		1716764	5.12	1087867	7.78	406999	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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Sample No.: CCVIS 240-235154/2 Date Analyzed: 06/20/2016 09:34
 Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXJ5601.D Heated Purge: (Y/N) N
 Calibration ID: 34635

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1716764	5.12	1087867	7.78	406999	10.03	
UPPER LIMIT	3433528	5.62	2175734	8.28	813998	10.53	
LOWER LIMIT	858382	4.62	543934	7.28	203500	9.53	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-235154/4		1371391	5.12	891005	7.78	335807	10.03
CCV 240-235154/3		1258361	5.12	837101	7.78	306679	10.03
MB 240-235154/6		1216667	5.12	818773	7.78	305253	10.03
240-65988-1	TB-061316	1226343	5.12	833720	7.78	304435	10.03
240-65988-2	MW-81B-061316	1096760	5.12	742661	7.78	265891	10.03
240-65988-3	NMW-1I-061316	1074652	5.12	736149	7.78	263563	10.03
240-65995-B-5 MS		1177106	5.12	791875	7.78	297138	10.03
240-65995-B-5 MSD		1207951	5.12	798086	7.78	290014	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: TB-061316 Lab Sample ID: 240-65988-1
 Matrix: Water Lab File ID: UXJ5607.D
 Analysis Method: 8260C Date Collected: 06/13/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 12:05
 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.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: TB-061316 Lab Sample ID: 240-65988-1
 Matrix: Water Lab File ID: UXJ5607.D
 Analysis Method: 8260C Date Collected: 06/13/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 12:05
 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.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U *	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120
460-00-4	4-Bromofluorobenzene (Surr)	84		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: MW-81B-061316 Lab Sample ID: 240-65988-2
 Matrix: Water Lab File ID: UXJ5608.D
 Analysis Method: 8260C Date Collected: 06/13/2016 13:46
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 12:28
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20	U	20	8.8
79-34-5	1,1,2,2-Tetrachloroethane	20	U	20	4.4
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	9.0
79-00-5	1,1,2-Trichloroethane	20	U	20	4.8
75-34-3	1,1-Dichloroethane	7.8	J	20	6.0
75-35-4	1,1-Dichloroethene	20	U	20	9.0
120-82-1	1,2,4-Trichlorobenzene	20	U	20	6.4
96-12-8	1,2-Dibromo-3-Chloropropane	40	U	40	16
106-93-4	Ethylene Dibromide	20	U	20	6.4
95-50-1	1,2-Dichlorobenzene	20	U	20	5.0
107-06-2	1,2-Dichloroethane	20	U	20	4.6
78-87-5	1,2-Dichloropropane	20	U	20	5.0
541-73-1	1,3-Dichlorobenzene	20	U	20	3.8
106-46-7	1,4-Dichlorobenzene	20	U	20	5.4
78-93-3	2-Butanone (MEK)	200	U	200	11
591-78-6	2-Hexanone	200	U	200	9.6
108-10-1	4-Methyl-2-pentanone (MIBK)	200	U	200	20
67-64-1	Acetone	200	U	200	19
71-43-2	Benzene	20	U	20	7.0
75-27-4	Dichlorobromomethane	20	U	20	5.8
75-25-2	Bromoform	20	U	20	11
74-83-9	Bromomethane	20	U	20	8.8
75-15-0	Carbon disulfide	20	U	20	7.6
56-23-5	Carbon tetrachloride	20	U	20	8.6
108-90-7	Chlorobenzene	20	U	20	5.0
75-00-3	Chloroethane	7.1	J	20	6.4
67-66-3	Chloroform	20	U	20	5.0
74-87-3	Chloromethane	20	U	20	8.8
156-59-2	cis-1,2-Dichloroethene	590		20	5.2
10061-01-5	cis-1,3-Dichloropropene	20	U	20	9.2
110-82-7	Cyclohexane	20	U	20	9.0
124-48-1	Chlorodibromomethane	20	U	20	8.6
75-71-8	Dichlorodifluoromethane	20	U	20	6.4
100-41-4	Ethylbenzene	20	U	20	5.0
98-82-8	Isopropylbenzene	20	U	20	7.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: MW-81B-061316 Lab Sample ID: 240-65988-2
 Matrix: Water Lab File ID: UXJ5608.D
 Analysis Method: 8260C Date Collected: 06/13/2016 13:46
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 12:28
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	200	U	200	45
1634-04-4	Methyl tert-butyl ether	20	U	20	4.0
108-87-2	Methylcyclohexane	20	U	20	8.6
75-09-2	Methylene Chloride	20	U *	20	6.6
100-42-5	Styrene	20	U	20	9.0
127-18-4	Tetrachloroethene	20	U	20	6.2
108-88-3	Toluene	20	U	20	4.6
156-60-5	trans-1,2-Dichloroethene	32		20	6.0
10061-02-6	trans-1,3-Dichloropropene	20	U	20	11
79-01-6	Trichloroethene	390		20	4.4
75-69-4	Trichlorofluoromethane	20	U	20	9.8
75-01-4	Vinyl chloride	290		20	5.8
1330-20-7	Xylenes, Total	40	U	40	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		79-120
460-00-4	4-Bromofluorobenzene (Surr)	94		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: NMW-1I-061316 Lab Sample ID: 240-65988-3
 Matrix: Water Lab File ID: UXJ5609.D
 Analysis Method: 8260C Date Collected: 06/13/2016 15:08
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 12:50
 Soil Aliquot Vol: _____ Dilution Factor: 33.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	33	U	33	15
79-34-5	1,1,2,2-Tetrachloroethane	33	U	33	7.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	33	U	33	15
79-00-5	1,1,2-Trichloroethane	33	U	33	8.0
75-34-3	1,1-Dichloroethane	12	J	33	10
75-35-4	1,1-Dichloroethene	38		33	15
120-82-1	1,2,4-Trichlorobenzene	33	U	33	11
96-12-8	1,2-Dibromo-3-Chloropropane	67	U	67	27
106-93-4	Ethylene Dibromide	33	U	33	11
95-50-1	1,2-Dichlorobenzene	33	U	33	8.3
107-06-2	1,2-Dichloroethane	33	U	33	7.7
78-87-5	1,2-Dichloropropane	33	U	33	8.3
541-73-1	1,3-Dichlorobenzene	33	U	33	6.3
106-46-7	1,4-Dichlorobenzene	33	U	33	9.0
78-93-3	2-Butanone (MEK)	330	U	330	18
591-78-6	2-Hexanone	330	U	330	16
108-10-1	4-Methyl-2-pentanone (MIBK)	330	U	330	33
67-64-1	Acetone	330	U	330	31
71-43-2	Benzene	33	U	33	12
75-27-4	Dichlorobromomethane	33	U	33	9.7
75-25-2	Bromoform	33	U	33	19
74-83-9	Bromomethane	33	U	33	15
75-15-0	Carbon disulfide	33	U	33	13
56-23-5	Carbon tetrachloride	33	U	33	14
108-90-7	Chlorobenzene	33	U	33	8.3
75-00-3	Chloroethane	33	U	33	11
67-66-3	Chloroform	33	U	33	8.3
74-87-3	Chloromethane	33	U	33	15
156-59-2	cis-1,2-Dichloroethene	920		33	8.7
10061-01-5	cis-1,3-Dichloropropene	33	U	33	15
110-82-7	Cyclohexane	33	U	33	15
124-48-1	Chlorodibromomethane	33	U	33	14
75-71-8	Dichlorodifluoromethane	33	U	33	11
100-41-4	Ethylbenzene	33	U	33	8.3
98-82-8	Isopropylbenzene	33	U	33	12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: NMW-1I-061316 Lab Sample ID: 240-65988-3
 Matrix: Water Lab File ID: UXJ5609.D
 Analysis Method: 8260C Date Collected: 06/13/2016 15:08
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 12:50
 Soil Aliquot Vol: _____ Dilution Factor: 33.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	330	U	330	76
1634-04-4	Methyl tert-butyl ether	33	U	33	6.7
108-87-2	Methylcyclohexane	33	U	33	14
75-09-2	Methylene Chloride	33	U *	33	11
100-42-5	Styrene	33	U	33	15
127-18-4	Tetrachloroethene	33	U	33	10
108-88-3	Toluene	33	U	33	7.7
156-60-5	trans-1,2-Dichloroethene	33	U	33	10
10061-02-6	trans-1,3-Dichloropropene	33	U	33	19
79-01-6	Trichloroethene	300		33	7.3
75-69-4	Trichlorofluoromethane	33	U	33	16
75-01-4	Vinyl chloride	37		33	9.7
1330-20-7	Xylenes, Total	67	U	67	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		79-120
460-00-4	4-Bromofluorobenzene (Surr)	95		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		78-125

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

Lab Name: TestAmerica Canton Job No.: 240-65988-1 Analy Batch No.: 232366

SDG No.: _____

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

Calibration Start Date: 05/28/2016 09:12 Calibration End Date: 05/28/2016 11:03 Calibration ID: 34632

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-232366/7	UXJ4944.D
Level 2	STD8260 240-232366/6	UXJ4943.D
Level 3	STD8260 240-232366/5	UXJ4942.D
Level 4	STD8260 240-232366/4	UXJ4941.D
Level 5	STD8260 240-232366/3	UXJ4940.D
Level 6	STD8260 240-232366/2	UXJ4939.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	0.1874 0.1365	0.1804	0.1569	0.1477	0.1345	Ave		0.1572			0.1000	14.2		20.0			
Chloromethane	0.2347 0.2087	0.2368	0.2391	0.2296	0.2034	Ave		0.2254			0.1000	6.8		20.0			
Vinyl chloride	0.2661 0.1948	0.2726	0.2549	0.2398	0.2079	Ave		0.2393			0.1000	13.3		20.0			
Butadiene	0.2902 0.1915	0.2430	0.2236	0.2072	0.1931	Ave		0.2248				16.7		20.0			
Bromomethane	0.1050 0.1039	0.1171	0.1178	0.1085	0.1034	Ave		0.1093			0.0500	6.0		20.0			
Chloroethane	0.1242 0.1044	0.1183	0.1173	0.1128	0.1037	Ave		0.1134			0.0500	7.2		20.0			
Dichlorofluoromethane	0.2652 0.2353	0.2510	0.2494	0.2472	0.2313	Ave		0.2466				4.9		20.0			
Trichlorofluoromethane	0.1586 0.1718	0.1896	0.1718	0.1763	0.1658	Ave		0.1723			0.1000	6.1		20.0			
Ethyl ether	0.2791 0.1930	0.2355	0.2143	0.2247	0.1967	Ave		0.2239				14.1		20.0			
Acrolein	0.0309 0.0285	0.0362	0.0322	0.0324	0.0295	Ave		0.0316				8.6		20.0			
1,1-Dichloroethene	0.1891 0.1632	0.1879	0.1767	0.1764	0.1670	Ave		0.1767			0.1000	6.0		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1179 0.1005	0.1146	0.1068	0.1044	0.0984	Ave		0.1071			0.0500	7.2		20.0			
Acetone	0.1159 0.0473	0.0784	0.0616	0.0562	0.0505	Lin1	0.1399	0.0464			0.0100				0.9990		0.9900
Iodomethane	0.2712 0.2217	0.2508	0.2518	0.2412	0.2336	Ave		0.2451				7.0		20.0			
Carbon disulfide	0.5031 0.4104	0.4698	0.4742	0.4421	0.4373	Ave		0.4562			0.1000	7.2		20.0			

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.: 240-65988-1 Analy Batch No.: 232366

SDG No.: _____

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

Calibration Start Date: 05/28/2016 09:12 Calibration End Date: 05/28/2016 11:03 Calibration ID: 34632

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	0.1477 0.1632	0.1624	0.1618	0.1717	0.1628	Ave		0.1616			4.8		20.0				
Methyl acetate	0.1492 0.1172	0.1415	0.1379	0.1354	0.1267	Ave		0.1347		0.1000	8.4		20.0				
Methylene Chloride	0.4395 0.1915	0.3287	0.2437	0.2251	0.2061	Lin1	0.2668	0.1891		0.1000				0.9990		0.9900	
2-Methyl-2-propanol	0.0152 ++++	0.0127	0.0136	0.0126	0.0116	Ave		0.0132			10.4		20.0				
Acrylonitrile	0.0740 0.0627	0.0715	0.0721	0.0723	0.0674	Ave		0.0700			6.0		20.0				
Methyl tert-butyl ether	0.6968 0.6087	0.6644	0.6642	0.6935	0.6425	Ave		0.6617		0.1000	5.0		20.0				
trans-1,2-Dichloroethene	0.2888 0.2454	0.2625	0.2591	0.2657	0.2505	Ave		0.2620		0.1000	5.8		20.0				
Hexane	0.0673 0.0553	0.0534	0.0515	0.0545	0.0543	Ave		0.0561			10.1		20.0				
1,1-Dichloroethane	0.4677 0.4326	0.4478	0.4396	0.4565	0.4422	Ave		0.4477		0.2000	2.8		20.0				
Vinyl acetate	0.4182 0.3938	0.4338	0.4161	0.4307	0.4152	Ave		0.4179			3.4		20.0				
cis-1,2-Dichloroethene	0.2801 0.2752	0.2762	0.2735	0.2834	0.2738	Ave		0.2770		0.1000	1.4		20.0				
2-Butanone (MEK)	0.0983 0.0737	0.0786	0.0817	0.0829	0.0790	Ave		0.0824		0.0100	10.2		20.0				
2,2-Dichloropropane	0.2080 0.1863	0.1876	0.1977	0.2027	0.1990	Ave		0.1969			4.3		20.0				
Chlorobromomethane	0.1272 0.1276	0.1218	0.1259	0.1333	0.1309	Ave		0.1278			3.1		20.0				
Tetrahydrofuran	0.0601 0.0461	0.0557	0.0518	0.0536	0.0500	Ave		0.0529			9.1		20.0				
Chloroform	0.4249 0.3958	0.3907	0.3887	0.4080	0.4090	Ave		0.4028		0.2000	3.4		20.0				
1,1,1-Trichloroethane	0.2866 0.2625	0.2619	0.2664	0.2757	0.2770	Ave		0.2717		0.1000	3.6		20.0				
Cyclohexane	0.3397 0.2916	0.3042	0.2938	0.2971	0.2985	Ave		0.3041		0.1000	5.9		20.0				
1,1-Dichloropropene	0.3733 0.3357	0.3276	0.3319	0.3472	0.3430	Ave		0.3431			4.8		20.0				
Carbon tetrachloride	0.2549 0.2547	0.2228	0.2418	0.2613	0.2561	Ave		0.2486		0.1000	5.7		20.0				

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.: 240-65988-1 Analy Batch No.: 232366

SDG No.: _____

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

Calibration Start Date: 05/28/2016 09:12 Calibration End Date: 05/28/2016 11:03 Calibration ID: 34632

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	0.0062 0.0045	0.0059	0.0063	0.0071	0.0058	Ave		0.0060			14.3		20.0				
1,2-Dichloroethane	0.2981 0.2726	0.2707	0.2764	0.2862	0.2852	Ave		0.2815		0.1000	3.7		20.0				
Benzene	1.0915 1.0604	1.0274	1.0168	1.0745	1.0726	Ave		1.0572		0.5000	2.8		20.0				
n-Heptane	0.0767 0.0562	0.0637	0.0501	0.0519	0.0539	Ave		0.0587			17.0		20.0				
Trichloroethene	0.2904 0.2807	0.2627	0.2619	0.2746	0.2860	Ave		0.2761		0.1500	4.3		20.0				
Methylcyclohexane	0.3899 0.3159	0.3438	0.3048	0.3065	0.3225	Ave		0.3306		0.1000	9.8		20.0				
1,2-Dichloropropane	0.2636 0.2540	0.2477	0.2418	0.2504	0.2626	Ave		0.2533		0.1000	3.4		20.0				
Dibromomethane	0.1260 0.1258	0.1267	0.1228	0.1240	0.1303	Ave		0.1259			2.0		20.0				
1,4-Dioxane	0.0010 ++++	0.0013	0.0014	0.0016	0.0017	Lin1	-0.017	0.0017						0.9990		0.9900	
Dichlorobromomethane	0.2938 0.3017	0.2907	0.2723	0.2880	0.3112	Ave		0.2929		0.1500	4.5		20.0				
2-Chloroethyl vinyl ether	0.1384 0.1445	0.1484	0.1416	0.1458	0.1535	Ave		0.1454			3.6		20.0				
cis-1,3-Dichloropropene	0.3776 0.4191	0.3788	0.3775	0.4025	0.4308	Ave		0.3977		0.1500	5.9		20.0				
4-Methyl-2-pentanone (MIBK)	0.1794 0.1579	0.1670	0.1634	0.1645	0.1729	Ave		0.1675		0.0500	4.5		20.0				
Toluene	1.6592 1.5713	1.5809	1.5586	1.6505	1.6591	Ave		1.6133		0.4000	3.0		20.0				
trans-1,3-Dichloropropene	0.4368 0.4929	0.4583	0.4669	0.5112	0.5324	Ave		0.4831		0.1000	7.4		20.0				
Ethyl methacrylate	0.4247 0.4021	0.4124	0.4087	0.4397	0.4428	Ave		0.4217			4.0		20.0				
1,1,2-Trichloroethane	0.2779 0.2701	0.2893	0.2905	0.2951	0.3013	Ave		0.2874		0.1000	4.0		20.0				
Tetrachloroethene	0.3260 0.2981	0.2891	0.2964	0.3117	0.3178	Ave		0.3065		0.1500	4.6		20.0				
1,3-Dichloropropane	0.5178 0.4955	0.5274	0.5141	0.5435	0.5440	Ave		0.5237			3.6		20.0				
2-Hexanone	0.1845 0.1578	0.1883	0.1732	0.1827	0.1815	Ave		0.1780		0.0500	6.2		20.0				

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.: 240-65988-1 Analy Batch No.: 232366

SDG No.: _____

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

Calibration Start Date: 05/28/2016 09:12 Calibration End Date: 05/28/2016 11:03 Calibration ID: 34632

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	0.2713 0.3118	0.2819	0.2799	0.3107	0.3300	Ave		0.2976			7.8		20.0				
Ethylene Dibromide	0.2749 0.2645	0.2712	0.2625	0.2827	0.2896	Ave		0.2742			3.8		20.0				
Chlorobenzene	1.0021 0.9778	0.9625	0.9467	0.9849	1.0339	Ave		0.9846		0.3000	3.1		20.0				
1,1,1,2-Tetrachloroethane	0.3124 0.3245	0.2955	0.3071	0.3343	0.3508	Ave		0.3208			6.2		20.0				
Ethylbenzene	0.5297 0.5154	0.5166	0.5168	0.5295	0.5569	Ave		0.5275			3.0		20.0				
m-Xylene & p-Xylene	0.6526 0.6339	0.6292	0.6072	0.6409	0.6817	Ave		0.6409			3.9		20.0				
o-Xylene	0.6267 0.6070	0.5789	0.5953	0.6248	0.6608	Ave		0.6156			4.6		20.0				
Styrene	1.0612 1.0573	1.0236	1.0246	1.0787	1.1399	Ave		1.0642		0.3000	4.0		20.0				
Bromoform	0.1294 0.1729	0.1399	0.1527	0.1658	0.1841	Ave		0.1575		0.1000	13.1		20.0				
Isopropylbenzene	1.4418 1.3777	1.3579	1.3867	1.4136	1.5024	Ave		1.4133		0.1000	3.7		20.0				
1,1,2,2-Tetrachloroethane	0.7048 0.6684	0.6947	0.6821	0.7009	0.7169	Ave		0.6946		0.3000	2.5		20.0				
Bromobenzene	0.9492 0.9267	0.9025	0.8699	0.9413	0.9437	Ave		0.9222			3.3		20.0				
1,2,3-Trichloropropane	0.2266 0.2086	0.2279	0.2147	0.2187	0.2292	Ave		0.2209			3.8		20.0				
trans-1,4-Dichloro-2-butene	0.1143 0.1900	0.1405	0.1609	0.1869	0.1886	Ave		0.1635			19.0		20.0				
N-Propylbenzene	0.8818 0.9344	0.8262	0.8621	0.9134	0.9434	Ave		0.8936			5.1		20.0				
2-Chlorotoluene	0.7900 0.8102	0.7694	0.7533	0.8111	0.8197	Ave		0.7923			3.3		20.0				
1,3,5-Trimethylbenzene	2.4904 2.4634	2.4676	2.4041	2.5168	2.5605	Ave		2.4838			2.1		20.0				
4-Chlorotoluene	0.8392 0.8484	0.7868	0.8198	0.8628	0.8527	Ave		0.8349			3.3		20.0				
tert-Butylbenzene	2.0991 2.0866	2.0122	2.0006	2.1022	2.1464	Ave		2.0745			2.7		20.0				
1,2,4-Trimethylbenzene	2.5486 2.4454	2.3862	2.4030	2.4835	2.5470	Ave		2.4689			2.8		20.0				

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.: 240-65988-1 Analy Batch No.: 232366

SDG No.: _____

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

Calibration Start Date: 05/28/2016 09:12 Calibration End Date: 05/28/2016 11:03 Calibration ID: 34632

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	2.7399 2.7081	2.5216	2.6264	2.7096	2.7610	Ave		2.6778			3.3		20.0				
1,3-Dichlorobenzene	1.4310 1.3899	1.4226	1.3716	1.4076	1.4392	Ave		1.4103		0.6000	1.8		20.0				
4-Isopropyltoluene	2.3727 2.2716	2.1405	2.1846	2.3189	2.3681	Ave		2.2761			4.2		20.0				
1,4-Dichlorobenzene	1.5090 1.3897	1.4507	1.3767	1.4493	1.4354	Ave		1.4351		0.5000	3.3		20.0				
n-Butylbenzene	1.6341 1.7034	1.5296	1.6133	1.6710	1.7165	Ave		1.6446			4.2		20.0				
1,2-Dichlorobenzene	1.3346 1.2285	1.2638	1.2189	1.2545	1.3092	Ave		1.2683		0.4000	3.6		20.0				
1,2-Dibromo-3-Chloropropane	0.1065 0.1011	0.1093	0.0973	0.1023	0.1039	Ave		0.1034		0.0500	4.0		20.0				
1,2,4-Trichlorobenzene	0.6139 0.6504	0.5991	0.5773	0.5968	0.6016	Ave		0.6065		0.2000	4.0		20.0				
Hexachlorobutadiene	0.2676 0.2710	0.2301	0.2389	0.2482	0.2407	Ave		0.2494			6.6		20.0				
Naphthalene	1.5365 1.5180	1.5623	1.4231	1.4795	1.4541	Ave		1.4956			3.5		20.0				
1,2,3-Trichlorobenzene	0.6048 0.5976	0.5621	0.5340	0.5478	0.5466	Ave		0.5655			5.2		20.0				
Dibromofluoromethane (Surr)	0.2118 0.2284	0.2331	0.2147	0.2235	0.2274	Ave		0.2231			3.7		20.0				
1,2-Dichloroethane-d4 (Surr)	0.2439 0.2455	0.2559	0.2483	0.2521	0.2548	Ave		0.2501			2.0		20.0				
Toluene-d8 (Surr)	1.3628 1.3928	1.4804	1.3814	1.4319	1.4793	Ave		1.4214			3.6		20.0				
4-Bromofluorobenzene (Surr)	0.4331 0.4121	0.4504	0.4110	0.4176	0.4550	Ave		0.4299			4.5		20.0				

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.: 240-65988-1 Analy Batch No.: 232366

SDG No.: _____

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

Calibration Start Date: 05/28/2016 09:12 Calibration End Date: 05/28/2016 11:03 Calibration ID: 34632

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-232366/7	UXJ4944.D
Level 2	STD8260 240-232366/6	UXJ4943.D
Level 3	STD8260 240-232366/5	UXJ4942.D
Level 4	STD8260 240-232366/4	UXJ4941.D
Level 5	STD8260 240-232366/3	UXJ4940.D
Level 6	STD8260 240-232366/2	UXJ4939.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	23438 969646	42058	107457	209756	461100	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	29346 1482852	55193	163736	326020	697263	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	33272 1384307	63543	174517	340550	712641	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	36282 1360774	56652	153087	294290	661868	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	13133 737973	27304	80655	154065	354503	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	15535 741914	27565	80324	160210	355335	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	33161 1672330	58518	170748	351106	792812	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	19826 1220713	44203	117652	250400	568474	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	34902 1371794	54893	146699	319048	674181	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	19345 1011188	42139	110232	230248	504916	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	23639 1159454	43795	120990	250490	572421	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	14742 714053	26719	73100	148245	337417	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	28981 671519	36559	84334	159576	346148	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	33915 1575329	58473	172386	342536	800688	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	62901 2916487	109512	324706	627823	1499243	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	18473 1159970	37846	110804	243798	558156	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-65988-1 Analy Batch No.: 232366

SDG No.: _____

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

Calibration Start Date: 05/28/2016 09:12 Calibration End Date: 05/28/2016 11:03 Calibration ID: 34632

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	93308 4164389	164975	472016	961335	2171435	5.00 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Lin1	54952 1360621	76625	166894	319614	706494	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	19046 ++++	29614	93221	179576	396690	10.0 ++++	20.0	50.0	100	200
Acrylonitrile	FB	Ave	92538 4456158	166619	493445	1026114	2310723	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	87130 4325311	154869	454764	984808	2202465	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	36112 1743734	61202	177398	377290	858573	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	8411 393099	12458	35278	77440	186021	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	58482 3074215	104382	300963	648277	1515866	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	52287 2798107	101120	284897	611598	1423228	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	35026 1955375	64376	187256	402405	938653	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	24577 1047570	36632	111907	235494	541494	2.00 80.0	4.00	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	26011 1323995	43737	135347	287783	682298	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobromomethane	FB	Ave	15903 906929	28396	86218	189361	448591	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	15041 655509	25966	70954	152241	343109	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	53127 2812352	91075	266160	579380	1401934	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	35830 1865466	61062	182420	391457	949514	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	42471 2072077	70906	201144	421868	1023155	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	46682 2385800	76372	227255	493069	1175854	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	31877 1810111	51928	165573	371005	877932	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBZ	Ave	13422 573415	23137	71716	165409	346408	25.0 1000	50.0	125	250	500
1,2-Dichloroethane	FB	Ave	37279 1937374	63100	189233	406414	977633	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-65988-1 Analy Batch No.: 232366

SDG No.: _____

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

Calibration Start Date: 05/28/2016 09:12 Calibration End Date: 05/28/2016 11:03 Calibration ID: 34632

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
Benzene	FB	Ave	136474 7535140	239491	696193	1525909	3676999	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	9589 399180	14850	34326	73669	184802	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	36312 1994931	61235	179338	389926	980416	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	48752 2244745	80144	208709	435279	1105669	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	32959 1805020	57733	165544	355570	900391	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	15759 893810	29538	84084	176155	446516	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Lin1	2389 ++++	5839	19728	45884	116617	20.0 ++++	40.0	100	200	400
Dichlorobromomethane	FB	Ave	36730 2143575	67774	186411	408988	1066920	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	34608 2053796	69187	193865	414102	1052330	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	47210 2978040	88305	258474	571517	1476878	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	44864 2244086	77867	223750	467130	1185315	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	144044 8029244	249812	709069	1541950	3940121	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	37924 2518763	72411	212400	477555	1264252	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	36871 2054489	65159	185916	410793	1051538	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	24123 1380154	45708	132150	275721	715429	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	28299 1523102	45686	134856	291169	754731	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	44953 2531875	83331	233859	507728	1292001	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	32027 1612159	59501	157567	341374	862024	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Ave	23554 1593454	44552	127325	290309	783600	1.00 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBZ	Ave	23865 1351721	42860	119418	264149	687637	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	86992 4996437	152088	430677	920095	2455209	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-65988-1 Analy Batch No.: 232366

SDG No.: _____

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

Calibration Start Date: 05/28/2016 09:12 Calibration End Date: 05/28/2016 11:03 Calibration ID: 34632

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	27119 1658297	46691	139687	312343	833066	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	45982 2633678	81638	235106	494680	1322420	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	56654 3239332	99428	276253	598757	1618844	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	54405 3101509	91472	270825	583693	1569355	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	92131 5402427	161748	466131	1007809	2707000	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	11231 883629	22107	69468	154911	437289	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	125166 7039981	214561	630849	1320617	3567815	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	25606 1320740	45008	128137	267022	717067	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	34487 1831098	58469	163415	358578	943899	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	8232 412165	14764	40339	83319	229215	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	4152 375383	9104	30230	71192	188602	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	32036 1846340	53527	161966	347958	943616	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	28701 1600970	49842	141521	308991	819834	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	90482 4867513	159861	451652	958776	2560992	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	30490 1676282	50970	154006	328673	852917	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	76263 4123008	130358	375851	800843	2146865	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	92596 4831967	154586	451431	946085	2547486	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	99545 5351016	163359	493405	1032207	2761616	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	51991 2746303	92159	257669	536230	1439504	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	86204 4488515	138667	410400	883378	2368635	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	54824 2745946	93985	258634	552092	1435662	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-65988-1 Analy Batch No.: 232366

SDG No.: _____

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

Calibration Start Date: 05/28/2016 09:12 Calibration End Date: 05/28/2016 11:03 Calibration ID: 34632

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	59368 3365724	99096	303086	636551	1716834	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	48489 2427432	81874	228991	477902	1309473	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	3871 199818	7078	18285	38988	103876	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	22303 1285197	38811	108453	227330	601708	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	9723 535504	14906	44887	94559	240736	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	55824 2999354	101211	267349	563612	1454401	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	21973 1180872	36416	100312	208665	546761	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	26480 1622950	54331	147009	317401	779417	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	30496 1744610	59649	169978	358027	873328	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	118314 7117198	233918	628430	1337711	3513064	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	37600 2105890	71175	186973	390173	1080418	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.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: ICV 240-232366/14 Calibration Date: 05/28/2016 11:25
 Instrument ID: A3UX11 Calib Start Date: 05/28/2016 09:12
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/28/2016 11:03
 Lab File ID: UXJ4945.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	0.1572	0.0785*	0.1000	0.00499	0.0100	-50.1*	20.0
Chloromethane	Ave	0.2254	0.1613	0.1000	0.00716	0.0100	-28.4*	20.0
Vinyl chloride	Ave	0.2393	0.1918	0.1000	0.00801	0.0100	-19.9	20.0
Butadiene	Ave	0.2248	0.1710		0.00761	0.0100	-23.9	30.0
Bromomethane	Ave	0.1093	0.0897	0.0500	0.00821	0.0100	-17.9	20.0
Chloroethane	Ave	0.1134	0.0951	0.0500	0.00838	0.0100	-16.2	20.0
Dichlorofluoromethane	Ave	0.2466	0.2222		0.00901	0.0100	-9.9	20.0
Trichlorofluoromethane	Ave	0.1723	0.1649	0.1000	0.00957	0.0100	-4.3	20.0
Ethyl ether	Ave	0.2239	0.2205		0.00985	0.0100	-1.5	20.0
Acrolein	Ave	0.0316	0.0196		0.0309	0.0500	-38.1	50.0
1,1-Dichloroethene	Ave	0.1767	0.1892	0.1000	0.0107	0.0100	7.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1071	0.1197	0.0500	0.0112	0.0100	11.8	20.0
Acetone	Lin1		0.0409	0.0100	0.0146	0.0200	-27.1	50.0
Iodomethane	Ave	0.2451	0.2543		0.0104	0.0100	3.8	20.0
Carbon disulfide	Ave	0.4562	0.4979	0.1000	0.0109	0.0100	9.1	20.0
3-Chloro-1-propene	Ave	0.1616	0.1753		0.0108	0.0100	8.5	20.0
Methyl acetate	Ave	0.1347	0.1285	0.1000	0.0477	0.0500	-4.6	20.0
Methylene Chloride	Lin1		0.2133	0.1000	0.00987	0.0100	-1.3	50.0
2-Methyl-2-propanol	Ave	0.0132	0.0104		0.0788	0.100	-21.2	50.0
Acrylonitrile	Ave	0.0700	0.0688		0.0982	0.100	-1.8	20.0
Methyl tert-butyl ether	Ave	0.6617	0.6529	0.1000	0.00987	0.0100	-1.3	20.0
trans-1,2-Dichloroethene	Ave	0.2620	0.2698	0.1000	0.0103	0.0100	3.0	20.0
Hexane	Ave	0.0561	0.0718		0.0128	0.0100	28.0*	20.0
1,1-Dichloroethane	Ave	0.4477	0.4276	0.2000	0.00955	0.0100	-4.5	20.0
Vinyl acetate	Ave	0.4179	0.4341		0.0104	0.0100	3.9	50.0
2-Butanone (MEK)	Ave	0.0824	0.0709	0.0100	0.0172	0.0200	-13.9	20.0
cis-1,2-Dichloroethene	Ave	0.2770	0.2702	0.1000	0.00975	0.0100	-2.5	20.0
2,2-Dichloropropane	Ave	0.1969	0.1923		0.00977	0.0100	-2.3	20.0
Chlorobromomethane	Ave	0.1278	0.1279		0.0100	0.0100	0.0	20.0
Tetrahydrofuran	Ave	0.0529	0.0487		0.0184	0.0200	-8.0	20.0
Chloroform	Ave	0.4028	0.3863	0.2000	0.00959	0.0100	-4.1	20.0
1,1,1-Trichloroethane	Ave	0.2717	0.2653	0.1000	0.00977	0.0100	-2.3	20.0
Cyclohexane	Ave	0.3041	0.3496	0.1000	0.0115	0.0100	14.9	20.0
1,1-Dichloropropene	Ave	0.3431	0.3373		0.00983	0.0100	-1.7	20.0
Carbon tetrachloride	Ave	0.2486	0.2618	0.1000	0.0105	0.0100	5.3	20.0
Isobutyl alcohol	Ave	0.0060	0.0055		0.231	0.250	-7.5	20.0
1,2-Dichloroethane	Ave	0.2815	0.2824	0.1000	0.0100	0.0100	0.3	20.0
Benzene	Ave	1.057	1.019	0.5000	0.00964	0.0100	-3.6	20.0
n-Heptane	Ave	0.0587	0.0635		0.0108	0.0100	8.1	20.0
Trichloroethene	Ave	0.2761	0.2702	0.1500	0.00979	0.0100	-2.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: ICV 240-232366/14 Calibration Date: 05/28/2016 11:25
 Instrument ID: A3UX11 Calib Start Date: 05/28/2016 09:12
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/28/2016 11:03
 Lab File ID: UXJ4945.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	0.3306	0.3651	0.1000	0.0110	0.0100	10.4	20.0
1,2-Dichloropropane	Ave	0.2533	0.2462	0.1000	0.00972	0.0100	-2.8	20.0
Dibromomethane	Ave	0.1259	0.1188		0.00943	0.0100	-5.7	20.0
1,4-Dioxane	Lin1		0.0009		0.119	0.200	-40.4	50.0
Dichlorobromomethane	Ave	0.2929	0.2750	0.1500	0.00939	0.0100	-6.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1454	0.1420		0.00977	0.0100	-2.3	20.0
cis-1,3-Dichloropropene	Ave	0.3977	0.3785	0.1500	0.00952	0.0100	-4.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1675	0.1619	0.0500	0.0193	0.0200	-3.4	20.0
Toluene	Ave	1.613	1.577	0.4000	0.00977	0.0100	-2.3	20.0
trans-1,3-Dichloropropene	Ave	0.4831	0.4634	0.1000	0.00959	0.0100	-4.1	20.0
Ethyl methacrylate	Ave	0.4217	0.4208		0.00998	0.0100	-0.2	20.0
1,1,2-Trichloroethane	Ave	0.2874	0.2803	0.1000	0.00975	0.0100	-2.5	20.0
Tetrachloroethene	Ave	0.3065	0.3058	0.1500	0.00998	0.0100	-0.2	20.0
1,3-Dichloropropane	Ave	0.5237	0.5135		0.00980	0.0100	-2.0	20.0
2-Hexanone	Ave	0.1780	0.1624	0.0500	0.0182	0.0200	-8.8	20.0
Chlorodibromomethane	Ave	0.2976	0.2888		0.00970	0.0100	-3.0	20.0
Ethylene Dibromide	Ave	0.2742	0.2692		0.00982	0.0100	-1.8	20.0
Chlorobenzene	Ave	0.9846	0.9345	0.3000	0.00949	0.0100	-5.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3208	0.3054		0.00952	0.0100	-4.8	20.0
Ethylbenzene	Ave	0.5275	0.5081		0.00963	0.0100	-3.7	20.0
m-Xylene & p-Xylene	Ave	0.6409	0.6189		0.00966	0.0100	-3.4	20.0
o-Xylene	Ave	0.6156	0.5915		0.00961	0.0100	-3.9	20.0
Styrene	Ave	1.064	1.036	0.3000	0.00973	0.0100	-2.7	20.0
Bromoform	Ave	0.1575	0.1606	0.1000	0.0102	0.0100	2.0	20.0
Isopropylbenzene	Ave	1.413	1.372	0.1000	0.00971	0.0100	-2.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6946	0.6670	0.3000	0.00960	0.0100	-4.0	20.0
Bromobenzene	Ave	0.9222	0.8545		0.00927	0.0100	-7.3	20.0
1,2,3-Trichloropropane	Ave	0.2209	0.2222		0.0101	0.0100	0.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1635	0.1515		0.00927	0.0100	-7.3	20.0
N-Propylbenzene	Ave	0.8936	0.8451		0.00946	0.0100	-5.4	20.0
2-Chlorotoluene	Ave	0.7923	0.7318		0.00924	0.0100	-7.6	20.0
1,3,5-Trimethylbenzene	Ave	2.484	2.313		0.00931	0.0100	-6.9	20.0
4-Chlorotoluene	Ave	0.8349	0.7709		0.00923	0.0100	-7.7	20.0
tert-Butylbenzene	Ave	2.075	1.952		0.00941	0.0100	-5.9	20.0
1,2,4-Trimethylbenzene	Ave	2.469	2.264		0.00917	0.0100	-8.3	20.0
sec-Butylbenzene	Ave	2.678	2.475		0.00924	0.0100	-7.6	20.0
1,3-Dichlorobenzene	Ave	1.410	1.275	0.6000	0.00904	0.0100	-9.6	20.0
4-Isopropyltoluene	Ave	2.276	2.122		0.00933	0.0100	-6.7	20.0
1,4-Dichlorobenzene	Ave	1.435	1.312	0.5000	0.00914	0.0100	-8.6	20.0
n-Butylbenzene	Ave	1.645	1.481		0.00901	0.0100	-9.9	20.0
1,2-Dichlorobenzene	Ave	1.268	1.157	0.4000	0.00912	0.0100	-8.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: ICV 240-232366/14 Calibration Date: 05/28/2016 11:25
 Instrument ID: A3UX11 Calib Start Date: 05/28/2016 09:12
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/28/2016 11:03
 Lab File ID: UXJ4945.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	0.1034	0.0919	0.0500	0.00889	0.0100	-11.1	50.0
1,2,4-Trichlorobenzene	Ave	0.6065	0.5148	0.2000	0.00849	0.0100	-15.1	50.0
Hexachlorobutadiene	Ave	0.2494	0.2019		0.00810	0.0100	-19.0	20.0
Naphthalene	Ave	1.496	1.340		0.00896	0.0100	-10.4	50.0
1,2,3-Trichlorobenzene	Ave	0.5655	0.4760		0.00842	0.0100	-15.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2231	0.2015		0.0108	0.0120	-9.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2501	0.2259		0.0108	0.0120	-9.7	20.0
Toluene-d8 (Surr)	Ave	1.421	1.311		0.0110	0.0120	-7.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4299	0.3884		0.0108	0.0120	-9.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-235154/2 Calibration Date: 06/20/2016 09:34
 Instrument ID: A3UX11 Calib Start Date: 05/28/2016 09:12
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/28/2016 11:03
 Lab File ID: UXJ5601.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	0.1572	0.2042	0.1000	0.0130	0.0100	29.8*	20.0
Chloromethane	Ave	0.2254	0.2846	0.1000	0.0126	0.0100	26.3*	20.0
Vinyl chloride	Ave	0.2393	0.2630	0.1000	0.0110	0.0100	9.9	20.0
Butadiene	Ave	0.2248	0.2519		0.0112	0.0100	12.1	20.0
Bromomethane	Ave	0.1093	0.0735	0.0500	0.00673	0.0100	-32.7*	20.0
Chloroethane	Ave	0.1134	0.0992	0.0500	0.00874	0.0100	-12.6	20.0
Dichlorofluoromethane	Ave	0.2466	0.2663		0.0108	0.0100	8.0	20.0
Trichlorofluoromethane	Ave	0.1723	0.2511	0.1000	0.0146	0.0100	45.7*	20.0
Ethyl ether	Ave	0.2239	0.2029		0.00906	0.0100	-9.4	20.0
Acrolein	Ave	0.0316	0.0237		0.0374	0.0500	-25.1	50.0
1,1-Dichloroethene	Ave	0.1767	0.1907	0.1000	0.0108	0.0100	7.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1071	0.1162	0.0500	0.0109	0.0100	8.5	20.0
Acetone	Lin1		0.0462	0.0100	0.0169	0.0200	-15.6	50.0
Iodomethane	Ave	0.2451	0.2368		0.00966	0.0100	-3.4	20.0
Carbon disulfide	Ave	0.4562	0.4742	0.1000	0.0104	0.0100	3.9	20.0
3-Chloro-1-propene	Ave	0.1616	0.1649		0.0102	0.0100	2.0	20.0
Methyl acetate	Ave	0.1347	0.1260	0.1000	0.0468	0.0500	-6.5	20.0
Methylene Chloride	Lin1		0.2338	0.1000	0.0110	0.0100	9.5	50.0
2-Methyl-2-propanol	Ave	0.0132	0.0088		0.0671	0.100	-32.9	50.0
Acrylonitrile	Ave	0.0700	0.0649		0.0927	0.100	-7.3	20.0
Methyl tert-butyl ether	Ave	0.6617	0.6433	0.1000	0.00972	0.0100	-2.8	20.0
trans-1,2-Dichloroethene	Ave	0.2620	0.2684	0.1000	0.0102	0.0100	2.5	20.0
Hexane	Ave	0.0561	0.0636		0.0113	0.0100	13.5	20.0
1,1-Dichloroethane	Ave	0.4477	0.4635	0.2000	0.0104	0.0100	3.5	20.0
Vinyl acetate	Ave	0.4179	0.3914		0.00937	0.0100	-6.3	50.0
2-Butanone (MEK)	Ave	0.0824	0.0736	0.0100	0.0179	0.0200	-10.6	20.0
cis-1,2-Dichloroethene	Ave	0.2770	0.2881	0.1000	0.0104	0.0100	4.0	20.0
2,2-Dichloropropane	Ave	0.1969	0.2061		0.0105	0.0100	4.7	20.0
Chlorobromomethane	Ave	0.1278	0.1340		0.0105	0.0100	4.8	20.0
Tetrahydrofuran	Ave	0.0529	0.0479		0.0181	0.0200	-9.6	20.0
Chloroform	Ave	0.4028	0.4281	0.2000	0.0106	0.0100	6.3	20.0
1,1,1-Trichloroethane	Ave	0.2717	0.2699	0.1000	0.00994	0.0100	-0.6	20.0
Cyclohexane	Ave	0.3041	0.3309	0.1000	0.0109	0.0100	8.8	20.0
1,1-Dichloropropene	Ave	0.3431	0.3652		0.0106	0.0100	6.4	20.0
Carbon tetrachloride	Ave	0.2486	0.2662	0.1000	0.0107	0.0100	7.1	20.0
Isobutyl alcohol	Ave	0.0060	0.0060		0.251	0.250	0.5	20.0
1,2-Dichloroethane	Ave	0.2815	0.3067	0.1000	0.0109	0.0100	8.9	20.0
Benzene	Ave	1.057	1.102	0.5000	0.0104	0.0100	4.3	20.0
n-Heptane	Ave	0.0587	0.0646		0.0110	0.0100	10.0	20.0
Trichloroethene	Ave	0.2761	0.2817	0.1500	0.0102	0.0100	2.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-235154/2 Calibration Date: 06/20/2016 09:34
 Instrument ID: A3UX11 Calib Start Date: 05/28/2016 09:12
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/28/2016 11:03
 Lab File ID: UXJ5601.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	0.3306	0.3513	0.1000	0.0106	0.0100	6.3	20.0
1,2-Dichloropropane	Ave	0.2533	0.2606	0.1000	0.0103	0.0100	2.8	20.0
Dibromomethane	Ave	0.1259	0.1313		0.0104	0.0100	4.3	20.0
1,4-Dioxane	Lin1		0.0011		0.140	0.200	-30.0	50.0
Dichlorobromomethane	Ave	0.2929	0.3045	0.1500	0.0104	0.0100	3.9	20.0
2-Chloroethyl vinyl ether	Ave	0.1454	0.1431		0.0197	0.0200	-1.6	20.0
cis-1,3-Dichloropropene	Ave	0.3977	0.3901	0.1500	0.00981	0.0100	-1.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1675	0.1582	0.0500	0.0189	0.0200	-5.6	20.0
Toluene	Ave	1.613	1.799	0.4000	0.0112	0.0100	11.5	20.0
trans-1,3-Dichloropropene	Ave	0.4831	0.5143	0.1000	0.0106	0.0100	6.5	20.0
Ethyl methacrylate	Ave	0.4217	0.4325		0.0103	0.0100	2.5	20.0
1,1,2-Trichloroethane	Ave	0.2874	0.3087	0.1000	0.0107	0.0100	7.4	20.0
Tetrachloroethene	Ave	0.3065	0.3272	0.1500	0.0107	0.0100	6.8	20.0
1,3-Dichloropropane	Ave	0.5237	0.5659		0.0108	0.0100	8.1	20.0
2-Hexanone	Ave	0.1780	0.1745	0.0500	0.0196	0.0200	-2.0	20.0
Chlorodibromomethane	Ave	0.2976	0.3188		0.0107	0.0100	7.1	20.0
Ethylene Dibromide	Ave	0.2742	0.2916		0.0106	0.0100	6.3	20.0
Chlorobenzene	Ave	0.9846	1.026	0.3000	0.0104	0.0100	4.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3208	0.3317		0.0103	0.0100	3.4	20.0
Ethylbenzene	Ave	0.5275	0.5448		0.0103	0.0100	3.3	20.0
m-Xylene & p-Xylene	Ave	0.6409	0.6844		0.0107	0.0100	6.8	20.0
o-Xylene	Ave	0.6156	0.6439		0.0105	0.0100	4.6	20.0
Styrene	Ave	1.064	1.097	0.3000	0.0103	0.0100	3.1	20.0
Bromoform	Ave	0.1575	0.1430	0.1000	0.00908	0.0100	-9.2	20.0
Isopropylbenzene	Ave	1.413	1.434	0.1000	0.0101	0.0100	1.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6946	0.7283	0.3000	0.0105	0.0100	4.8	20.0
Bromobenzene	Ave	0.9222	0.9786		0.0106	0.0100	6.1	20.0
1,2,3-Trichloropropane	Ave	0.2209	0.2415		0.0109	0.0100	9.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1635	0.1683		0.0103	0.0100	2.9	20.0
N-Propylbenzene	Ave	0.8936	1.025		0.0115	0.0100	14.8	20.0
2-Chlorotoluene	Ave	0.7923	0.8593		0.0108	0.0100	8.5	20.0
1,3,5-Trimethylbenzene	Ave	2.484	2.685		0.0108	0.0100	8.1	20.0
4-Chlorotoluene	Ave	0.8349	0.9366		0.0112	0.0100	12.2	20.0
tert-Butylbenzene	Ave	2.075	2.162		0.0104	0.0100	4.2	20.0
1,2,4-Trimethylbenzene	Ave	2.469	2.647		0.0107	0.0100	7.2	20.0
sec-Butylbenzene	Ave	2.678	2.793		0.0104	0.0100	4.3	20.0
1,3-Dichlorobenzene	Ave	1.410	1.406	0.6000	0.00997	0.0100	-0.3	20.0
4-Isopropyltoluene	Ave	2.276	2.313		0.0102	0.0100	1.6	20.0
1,4-Dichlorobenzene	Ave	1.435	1.455	0.5000	0.0101	0.0100	1.4	20.0
n-Butylbenzene	Ave	1.645	1.667		0.0101	0.0100	1.4	20.0
1,2-Dichlorobenzene	Ave	1.268	1.206	0.4000	0.00951	0.0100	-4.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-235154/2 Calibration Date: 06/20/2016 09:34
 Instrument ID: A3UX11 Calib Start Date: 05/28/2016 09:12
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/28/2016 11:03
 Lab File ID: UXJ5601.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	0.1034	0.0816	0.0500	0.00789	0.0100	-21.1	50.0
1,2,4-Trichlorobenzene	Ave	0.6065	0.5723	0.2000	0.00944	0.0100	-5.6	50.0
Hexachlorobutadiene	Ave	0.2494	0.2198		0.00881	0.0100	-11.9	20.0
Naphthalene	Ave	1.496	1.391		0.00930	0.0100	-7.0	50.0
1,2,3-Trichlorobenzene	Ave	0.5655	0.5329		0.00942	0.0100	-5.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2231	0.2105		0.0113	0.0120	-5.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2501	0.2507		0.0120	0.0120	0.3	20.0
Toluene-d8 (Surr)	Ave	1.421	1.423		0.0120	0.0120	0.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4299	0.3935		0.0109	0.0120	-8.5	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-235154/6
 Matrix: Water Lab File ID: UXJ5605.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 11:05
 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.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-235154/6
 Matrix: Water Lab File ID: UXJ5605.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 11:05
 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.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		79-120
460-00-4	4-Bromofluorobenzene (Surr)	88		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-235154/4
 Matrix: Water Lab File ID: UXJ5602.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 09:57
 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.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	11.0		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	11.9		1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.70		1.0	0.45
79-00-5	1,1,2-Trichloroethane	11.0		1.0	0.24
75-34-3	1,1-Dichloroethane	11.2		1.0	0.30
75-35-4	1,1-Dichloroethene	11.8		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	10.5		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	9.15		2.0	0.82
106-93-4	Ethylene Dibromide	11.2		1.0	0.32
95-50-1	1,2-Dichlorobenzene	10.0		1.0	0.25
107-06-2	1,2-Dichloroethane	11.9		1.0	0.23
78-87-5	1,2-Dichloropropane	10.7		1.0	0.25
541-73-1	1,3-Dichlorobenzene	10.3		1.0	0.19
106-46-7	1,4-Dichlorobenzene	10.6		1.0	0.27
78-93-3	2-Butanone (MEK)	19.3		10	0.53
591-78-6	2-Hexanone	20.1		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	20.4		10	0.99
67-64-1	Acetone	18.0		10	0.94
71-43-2	Benzene	11.0		1.0	0.35
75-27-4	Dichlorobromomethane	10.5		1.0	0.29
75-25-2	Bromoform	10.1		1.0	0.56
74-83-9	Bromomethane	7.40		1.0	0.44
75-15-0	Carbon disulfide	13.2		1.0	0.38
56-23-5	Carbon tetrachloride	10.7		1.0	0.43
108-90-7	Chlorobenzene	10.5		1.0	0.25
75-00-3	Chloroethane	8.56		1.0	0.32
67-66-3	Chloroform	11.1		1.0	0.25
74-87-3	Chloromethane	11.6		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	10.9		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	9.91		1.0	0.46
110-82-7	Cyclohexane	8.41		1.0	0.45
124-48-1	Chlorodibromomethane	10.5		1.0	0.43
75-71-8	Dichlorodifluoromethane	6.14		1.0	0.32
100-41-4	Ethylbenzene	10.7		1.0	0.25
98-82-8	Isopropylbenzene	10.4		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-235154/4
 Matrix: Water Lab File ID: UXJ5602.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 09:57
 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.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	54.0		10	2.3
1634-04-4	Methyl tert-butyl ether	11.1		1.0	0.20
108-87-2	Methylcyclohexane	7.51		1.0	0.43
75-09-2	Methylene Chloride	13.1		1.0	0.33
100-42-5	Styrene	10.6		1.0	0.45
127-18-4	Tetrachloroethene	9.93		1.0	0.31
108-88-3	Toluene	11.2		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	11.6		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	10.3		1.0	0.56
79-01-6	Trichloroethene	10.7		1.0	0.22
75-69-4	Trichlorofluoromethane	9.13		1.0	0.49
75-01-4	Vinyl chloride	9.48		1.0	0.29
1330-20-7	Xylenes, Total	21.1		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		79-120
460-00-4	4-Bromofluorobenzene (Surr)	90		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65995-B-5 MS
 Matrix: Water Lab File ID: UXJ5626.D
 Analysis Method: 8260C Date Collected: 06/12/2016 09:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 166.67
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1810		170	73
79-34-5	1,1,2,2-Tetrachloroethane	1860		170	37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1030		170	75
79-00-5	1,1,2-Trichloroethane	1820		170	40
75-34-3	1,1-Dichloroethane	1830		170	50
75-35-4	1,1-Dichloroethene	2000		170	75
120-82-1	1,2,4-Trichlorobenzene	1640		170	53
96-12-8	1,2-Dibromo-3-Chloropropane	1380		330	140
106-93-4	Ethylene Dibromide	1830		170	53
95-50-1	1,2-Dichlorobenzene	1620		170	42
107-06-2	1,2-Dichloroethane	1980		170	38
78-87-5	1,2-Dichloropropane	1760		170	42
541-73-1	1,3-Dichlorobenzene	1650		170	32
106-46-7	1,4-Dichlorobenzene	1650		170	45
78-93-3	2-Butanone (MEK)	9790		1700	88
591-78-6	2-Hexanone	3190		1700	80
108-10-1	4-Methyl-2-pentanone (MIBK)	3460		1700	170
67-64-1	Acetone	12900		1700	160
71-43-2	Benzene	1830		170	58
75-27-4	Dichlorobromomethane	1730		170	48
75-25-2	Bromoform	1480		170	93
74-83-9	Bromomethane	1050		170	73
75-15-0	Carbon disulfide	2080		170	63
56-23-5	Carbon tetrachloride	1680		170	72
108-90-7	Chlorobenzene	1690		170	42
75-00-3	Chloroethane	1370		170	53
67-66-3	Chloroform	1890		170	42
74-87-3	Chloromethane	2080		170	73
156-59-2	cis-1,2-Dichloroethene	1830		170	43
10061-01-5	cis-1,3-Dichloropropene	1590		170	77
110-82-7	Cyclohexane	1180		170	75
124-48-1	Chlorodibromomethane	1620		170	72
75-71-8	Dichlorodifluoromethane	1250		170	53
100-41-4	Ethylbenzene	1680		170	42
98-82-8	Isopropylbenzene	1610		170	58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65995-B-5 MS
 Matrix: Water Lab File ID: UXJ5626.D
 Analysis Method: 8260C Date Collected: 06/12/2016 09:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 166.67
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	9080		1700	380
1634-04-4	Methyl tert-butyl ether	1850		170	33
108-87-2	Methylcyclohexane	985		170	72
75-09-2	Methylene Chloride	2080		170	55
100-42-5	Styrene	1690		170	75
127-18-4	Tetrachloroethene	1520		170	52
108-88-3	Toluene	1750		170	38
156-60-5	trans-1,2-Dichloroethene	1880		170	50
10061-02-6	trans-1,3-Dichloropropene	1580		170	93
79-01-6	Trichloroethene	1760		170	37
75-69-4	Trichlorofluoromethane	1850		170	82
75-01-4	Vinyl chloride	1730		170	48
1330-20-7	Xylenes, Total	3310		330	87

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		79-120
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65995-B-5 MSD
 Matrix: Water Lab File ID: UXJ5627.D
 Analysis Method: 8260C Date Collected: 06/12/2016 09:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 19:35
 Soil Aliquot Vol: _____ Dilution Factor: 166.67
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1790		170	73
79-34-5	1,1,2,2-Tetrachloroethane	1930		170	37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1790		170	75
79-00-5	1,1,2-Trichloroethane	1800		170	40
75-34-3	1,1-Dichloroethane	1790		170	50
75-35-4	1,1-Dichloroethene	2070		170	75
120-82-1	1,2,4-Trichlorobenzene	1730		170	53
96-12-8	1,2-Dibromo-3-Chloropropane	1520		330	140
106-93-4	Ethylene Dibromide	1800		170	53
95-50-1	1,2-Dichlorobenzene	1600		170	42
107-06-2	1,2-Dichloroethane	1930		170	38
78-87-5	1,2-Dichloropropane	1720		170	42
541-73-1	1,3-Dichlorobenzene	1650		170	32
106-46-7	1,4-Dichlorobenzene	1660		170	45
78-93-3	2-Butanone (MEK)	9330		1700	88
591-78-6	2-Hexanone	3160		1700	80
108-10-1	4-Methyl-2-pentanone (MIBK)	3530		1700	170
67-64-1	Acetone	12600		1700	160
71-43-2	Benzene	1760		170	58
75-27-4	Dichlorobromomethane	1690		170	48
75-25-2	Bromoform	1510		170	93
74-83-9	Bromomethane	1200		170	73
75-15-0	Carbon disulfide	2090		170	63
56-23-5	Carbon tetrachloride	1850		170	72
108-90-7	Chlorobenzene	1660		170	42
75-00-3	Chloroethane	1430		170	53
67-66-3	Chloroform	1830		170	42
74-87-3	Chloromethane	1980		170	73
156-59-2	cis-1,2-Dichloroethene	1770		170	43
10061-01-5	cis-1,3-Dichloropropene	1560		170	77
110-82-7	Cyclohexane	1830		170	75
124-48-1	Chlorodibromomethane	1640		170	72
75-71-8	Dichlorodifluoromethane	1710		170	53
100-41-4	Ethylbenzene	1630		170	42
98-82-8	Isopropylbenzene	1630		170	58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65995-B-5 MSD
 Matrix: Water Lab File ID: UXJ5627.D
 Analysis Method: 8260C Date Collected: 06/12/2016 09:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 19:35
 Soil Aliquot Vol: _____ Dilution Factor: 166.67
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235154 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	9210		1700	380
1634-04-4	Methyl tert-butyl ether	1840		170	33
108-87-2	Methylcyclohexane	1670		170	72
75-09-2	Methylene Chloride	2030		170	55
100-42-5	Styrene	1650		170	75
127-18-4	Tetrachloroethene	1590		170	52
108-88-3	Toluene	1740		170	38
156-60-5	trans-1,2-Dichloroethene	1860		170	50
10061-02-6	trans-1,3-Dichloropropene	1560		170	93
79-01-6	Trichloroethene	1690		170	37
75-69-4	Trichlorofluoromethane	2230		170	82
75-01-4	Vinyl chloride	1770		170	48
1330-20-7	Xylenes, Total	3290		330	87

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		79-120
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		78-125

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: A3UX11 Start Date: 05/28/2016 08:28

Analysis Batch Number: 232366 End Date: 05/28/2016 14:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-232366/1		05/28/2016 08:28	1	BFB6528.D	DB-624 0.18 (mm)
STD8260 240-232366/2 IC		05/28/2016 09:12	1	UXJ4939.D	DB-624 0.18 (mm)
STD8260 240-232366/3 IC		05/28/2016 09:34	1	UXJ4940.D	DB-624 0.18 (mm)
STD8260 240-232366/4 ICIS		05/28/2016 09:56	1	UXJ4941.D	DB-624 0.18 (mm)
STD8260 240-232366/5 IC		05/28/2016 10:19	1	UXJ4942.D	DB-624 0.18 (mm)
STD8260 240-232366/6 IC		05/28/2016 10:40	1	UXJ4943.D	DB-624 0.18 (mm)
STD8260 240-232366/7 IC		05/28/2016 11:03	1	UXJ4944.D	DB-624 0.18 (mm)
ICV 240-232366/14		05/28/2016 11:25	1	UXJ4945.D	DB-624 0.18 (mm)
STD6 240-232366/8 IC		05/28/2016 11:48	1		DB-624 0.18 (mm)
STD5 240-232366/9 IC		05/28/2016 12:10	1		DB-624 0.18 (mm)
STD4 240-232366/10 IC		05/28/2016 12:33	1		DB-624 0.18 (mm)
STD3 240-232366/11 IC		05/28/2016 12:56	1		DB-624 0.18 (mm)
STD2 240-232366/12 IC		05/28/2016 13:18	1		DB-624 0.18 (mm)
STD1 240-232366/13 IC		05/28/2016 13:41	1		DB-624 0.18 (mm)
ICV 240-232366/15		05/28/2016 14:03	1	UXJ4952.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: A3UX11 Start Date: 06/20/2016 09:01Analysis Batch Number: 235154 End Date: 06/20/2016 19:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-235154/1		06/20/2016 09:01	1	BFB6620.D	DB-624 0.18 (mm)
CCVIS 240-235154/2		06/20/2016 09:34	1	UXJ5601.D	DB-624 0.18 (mm)
LCS 240-235154/4		06/20/2016 09:57	1	UXJ5602.D	DB-624 0.18 (mm)
CCV 240-235154/3		06/20/2016 10:20	1	UXJ5603.D	DB-624 0.18 (mm)
ZZZZZ		06/20/2016 10:43	1		DB-624 0.18 (mm)
MB 240-235154/6		06/20/2016 11:05	1	UXJ5605.D	DB-624 0.18 (mm)
ZZZZZ		06/20/2016 11:42	1		DB-624 0.18 (mm)
240-65988-1		06/20/2016 12:05	1	UXJ5607.D	DB-624 0.18 (mm)
240-65988-2		06/20/2016 12:28	20	UXJ5608.D	DB-624 0.18 (mm)
240-65988-3		06/20/2016 12:50	33.33	UXJ5609.D	DB-624 0.18 (mm)
ZZZZZ		06/20/2016 13:13	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 13:35	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 13:57	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 14:20	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 14:43	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 15:05	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 15:27	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 15:49	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 16:12	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 16:34	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 16:57	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 17:19	166.67		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 17:42	166.67		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 18:04	166.67		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 18:27	166.67		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 18:50	3.33		DB-624 0.18 (mm)
240-65995-B-5 MS		06/20/2016 19:12	166.67	UXJ5626.D	DB-624 0.18 (mm)
240-65995-B-5 MSD		06/20/2016 19:35	166.67	UXJ5627.D	DB-624 0.18 (mm)

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): HP-PLOT/Q ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TFE1 #
MW-81B-061316	240-65988-2	95
MW-81B-061316	240-65988-2	107
NMW-1I-061316	240-65988-3	96
NMW-1I-061316	240-65988-3	107
	MB 240-235129/4	109
	MB 240-235546/4	108
	LCS 240-235129/5	106
	LCS 240-235546/5	109
NMW-1I-061316 MS	240-65988-3 MS	104
	240-65892-E-3 MS	101
NMW-1I-061316 MSD	240-65988-3 MSD	103
	240-65892-E-3 MSD	102

TFE = 1,1,1-Trifluoroethane

QC LIMITS
76-121

Column to be used to flag recovery values

FORM II RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0062105.D

Lab ID: LCS 240-235129/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	386	111	79-132	
Ethane	374	421	112	76-131	
Methane	199	194	98	80-130	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0062305.D

Lab ID: LCS 240-235546/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	385	110	79-132	
Ethane	374	422	113	76-131	
Methane	199	196	98	80-130	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0062309.D

Lab ID: 240-65988-3 MS Client ID: NMW-1I-061316 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethene	1750	3.1	1840	105	60-135	
Ethane	1870	2.5 U	2020	108	65-126	
Methane	994	3500	4910	141	48-159	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0062108.D

Lab ID: 240-65892-E-3 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethene	1750	850	2690	106	60-135	
Ethane	1870	2.5	1980	106	65-126	
Methane	994	5500	6930	142	48-159	4

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0062310.D

Lab ID: 240-65988-3 MSD Client ID: NMW-1I-061316 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethene	1750	1840	105	0	10	60-135	
Ethane	1870	2020	108	0	11	65-126	
Methane	994	4860	136	1	23	48-159	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0062109.D

Lab ID: 240-65892-E-3 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethene	1750	2740	109	2	10	60-135	
Ethane	1870	2000	107	1	11	65-126	
Methane	994	7360	185	6	23	48-159	4

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: MB 240-235129/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) RSK0062104.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/21/2016 15:33 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) HP-PLOT/Q 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
	LCS 240-235129/5	06/21/2016 15:50	
	240-65892-E-3 MS	06/21/2016 16:42	
	240-65892-E-3 MSD	06/21/2016 16:59	
MW-81B-061316	240-65988-2	06/21/2016 19:16	
NMW-1I-061316	240-65988-3	06/21/2016 19:33	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: MB 240-235546/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) RSK0062304.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/23/2016 14:01 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) HP-PLOT/Q 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
	LCS 240-235546/5	06/23/2016 14:18	
MW-81B-061316	240-65988-2	06/23/2016 14:53	
NMW-1I-061316	240-65988-3	06/23/2016 15:10	
NMW-1I-061316 MS	240-65988-3 MS	06/23/2016 15:28	
NMW-1I-061316 MSD	240-65988-3 MSD	06/23/2016 15:45	

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Sample No.: STD3 240-214437/5 Date Analyzed: 01/18/2016 16:06
 Instrument ID: ZPID GC Column: _____ ID: ()
 Lab File ID (Standard): Z0011805.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
INITIAL CALIBRATION SURROGATE				3.33		
UPPER LIMIT				3.38		
LOWER LIMIT				3.28		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD3 240-214437/5 ICRT		01/18/2016 16:06	Z0011805.D	3.33		
ICV 240-214437/9		01/18/2016 17:08	Z0011809.D	3.33		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Sample No.: CCVRT 240-235129/3 Date Analyzed: 06/21/2016 15:16
 Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53 (mm)
 Lab File ID (Standard): RSK0062103.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.34		
UPPER LIMIT				3.39		
LOWER LIMIT				3.29		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-235129/3		06/21/2016 15:16	RSK0062103.D	3.34		
MB 240-235129/4		06/21/2016 15:33	RSK0062104.D	3.34		
LCS 240-235129/5		06/21/2016 15:50	RSK0062105.D	3.34		
240-65892-E-3 MS		06/21/2016 16:42	RSK0062108.D	3.34		
240-65892-E-3 MSD		06/21/2016 16:59	RSK0062109.D	3.34		
CCV 240-235129/14		06/21/2016 18:25	RSK0062114.D	3.34		
240-65988-2	MW-81B-061316	06/21/2016 19:16	RSK0062117.D	3.34		
240-65988-3	NMW-1I-061316	06/21/2016 19:33	RSK0062118.D	3.34		
CCV 240-235129/19		06/21/2016 19:50	RSK0062119.D	3.34		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Sample No.: CCVRT 240-235546/3 Date Analyzed: 06/23/2016 13:44
 Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53 (mm)
 Lab File ID (Standard): RSK0062303.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.34		
UPPER LIMIT				3.39		
LOWER LIMIT				3.29		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-235546/3		06/23/2016 13:44	RSK0062303.D	3.34		
MB 240-235546/4		06/23/2016 14:01	RSK0062304.D	3.34		
LCS 240-235546/5		06/23/2016 14:18	RSK0062305.D	3.34		
240-65988-2	MW-81B-061316	06/23/2016 14:53	RSK0062307.D	3.34		
240-65988-3	NMW-1I-061316	06/23/2016 15:10	RSK0062308.D	3.34		
240-65988-3 MS	NMW-1I-061316 MS	06/23/2016 15:28	RSK0062309.D	3.34		
240-65988-3 MSD	NMW-1I-061316 MSD	06/23/2016 15:45	RSK0062310.D	3.34		
CCV 240-235546/14		06/23/2016 16:54	RSK0062314.D	3.34		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: MW-81B-061316 Lab Sample ID: 240-65988-2
 Matrix: Water Lab File ID: RSK0062117.D
 Analysis Method: RSK-175 Date Collected: 06/13/2016 13:46
 Sample wt/vol: 33 (mL) Date Analyzed: 06/21/2016 19:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235129 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	320		0.50	0.13
74-84-0	Ethane	16		0.50	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	95		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: MW-81B-061316 Lab Sample ID: 240-65988-2
 Matrix: Water Lab File ID: RSK0062307.D
 Analysis Method: RSK-175 Date Collected: 06/13/2016 13:46
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 14:53
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	4800		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	107		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: NMW-1I-061316 Lab Sample ID: 240-65988-3
 Matrix: Water Lab File ID: RSK0062118.D
 Analysis Method: RSK-175 Date Collected: 06/13/2016 15:08
 Sample wt/vol: 33 (mL) Date Analyzed: 06/21/2016 19:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235129 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	3.6		0.50	0.13
74-84-0	Ethane	0.63		0.50	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	96		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: NMW-1I-061316 Lab Sample ID: 240-65988-3
 Matrix: Water Lab File ID: RSK0062308.D
 Analysis Method: RSK-175 Date Collected: 06/13/2016 15:08
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 15:10
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	3500		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	107		76-121

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Methane	1.178	1.179	1.178	1.177	1.176	1.175					1.125 - 1.225	1.177
Ethene	1.871	1.872	1.872	1.870	1.869	1.865					1.815 - 1.915	1.870
Acetylene	1.985	1.982	1.982	1.984	1.983	1.979					1.929 - 2.029	1.983
Ethane	2.191	2.192	2.188	2.190	2.189	2.179					1.979 - 2.379	2.188
Propane	4.535	4.535	4.532	4.530	4.526	4.505					4.455 - 4.555	4.527
1,1,1-Trifluoroethane	3.331	3.332	3.328	3.324	3.319						3.228 - 3.428	3.327

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-65988-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.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								
Methane	16635 16339	16394 17321	16338	16069	Ave		16516.1974			2.6			30.0			
Ethene	12459 15191	15005 16050	15614	14955	Ave		14878.7453			8.4			30.0			
Acetylene	5207.9 6736.9	5918.0 6848.7	6621.7	6347.3	Ave		6280.08282			9.9			30.0			
Ethane	12801 15860	15600 17080	16229	15623	Ave		15532.1681			9.3			30.0			
Propane	12702 15394	15026 17064	15933	14986	Ave		15184.1425			9.5			30.0			
1,1,1-Trifluoroethane	6027.5 6174.1	6495.1	6443.1	6377.0	Ave		6303.36685			3.1			30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-65988-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.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
Methane	Ave	4299 34421990	32590	162394	1597146	6493970	0.258 1987	1.99	9.94	99.4	397
Ethene	Ave	5654 56017687	52380	272536	2610268	10604119	0.454 3490	3.49	17.5	175	698
Acetylene	Ave	2187 22117246	19117	106950	1025188	4351198	0.420 3229	3.23	16.2	162	646
Ethane	Ave	6223 63858213	58336	303430	2921002	11859185	0.486 3739	3.74	18.7	187	748
Propane	Ave	9047 93473662	82323	436476	4105331	16864776	0.712 5478	5.48	27.4	274	1096
1,1,1-Trifluoroethane	Ave	1572249	6776913	16806617	33268209	64418942	261	1043	2608	5217	10434

Curve Type Legend:

Ave = Average

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: ICV 240-214437/9 Calibration Date: 01/18/2016 17:08
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: Z0011809.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15087		182	199	-8.7	30.0
Ethene	Ave	14879	16432		385	349	10.4	30.0
Acetylene	Ave	6280	6935		357	323	10.4	30.0
Ethane	Ave	15532	17873		430	374	15.1	30.0
Propane	Ave	15184	18496		665	546	21.8	30.0
1,1,1-Trifluoroethane	Ave	6303	7158		3470	3050	13.6	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: ICV 240-214437/9 Calibration Date: 01/18/2016 17:08
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: Z0011809.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.98	1.93	2.03
Ethane	2.19	1.98	2.38
Propane	4.53	4.46	4.56
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-235129/3 Calibration Date: 06/21/2016 15:16
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062103.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	16021		193	199	-3.0	30.0
Ethene	Ave	14879	15998		375	349	7.5	30.0
Acetylene	Ave	6280	7050		363	323	12.3	30.0
Ethane	Ave	15532	17159		413	374	10.5	30.0
Propane	Ave	15184	16967		612	548	11.7	30.0
1,1,1-Trifluoroethane	Ave	6303	6788		3290	3050	7.7	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-235129/3 Calibration Date: 06/21/2016 15:16
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062103.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235129/14 Calibration Date: 06/21/2016 18:25
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062114.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	16081		193	199	-2.6	30.0
Ethene	Ave	14879	15475		363	349	4.0	30.0
Acetylene	Ave	6280	6125		315	323	-2.5	30.0
Ethane	Ave	15532	17043		410	374	9.7	30.0
Propane	Ave	15184	16845		608	548	10.9	30.0
1,1,1-Trifluoroethane	Ave	6303	6337		3070	3050	0.5	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235129/14 Calibration Date: 06/21/2016 18:25
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062114.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235129/19 Calibration Date: 06/21/2016 19:50
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062119.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15857		191	199	-4.0	30.0
Ethene	Ave	14879	14769		346	349	-0.7	30.0
Acetylene	Ave	6280	5861		301	323	-6.7	30.0
Ethane	Ave	15532	16531		398	374	6.4	30.0
Propane	Ave	15184	16032		578	548	5.6	30.0
1,1,1-Trifluoroethane	Ave	6303	5991		2900	3050	-5.0	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235129/19 Calibration Date: 06/21/2016 19:50
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062119.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-235546/3 Calibration Date: 06/23/2016 13:44
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062303.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	16026		193	199	-3.0	30.0
Ethene	Ave	14879	16231		381	349	9.1	30.0
Acetylene	Ave	6280	7207		371	323	14.8	30.0
Ethane	Ave	15532	17380		418	374	11.9	30.0
Propane	Ave	15184	17261		623	548	13.7	30.0
1,1,1-Trifluoroethane	Ave	6303	6942		3360	3050	10.1	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-235546/3 Calibration Date: 06/23/2016 13:44
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062303.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235546/14 Calibration Date: 06/23/2016 16:54
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062314.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15533		187	199	-6.0	30.0
Ethene	Ave	14879	15215		357	349	2.3	30.0
Acetylene	Ave	6280	6204		319	323	-1.2	30.0
Ethane	Ave	15532	16620		400	374	7.0	30.0
Propane	Ave	15184	16335		589	548	7.6	30.0
1,1,1-Trifluoroethane	Ave	6303	6480		3140	3050	2.8	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235546/14 Calibration Date: 06/23/2016 16:54
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062314.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-235129/4
 Matrix: Water Lab File ID: RSK0062104.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 06/21/2016 15:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235129 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	109		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-235546/4
 Matrix: Water Lab File ID: RSK0062304.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 14:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	108		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-235129/5
 Matrix: Water Lab File ID: RSK0062105.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 06/21/2016 15:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235129 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	386		0.50	0.13
74-84-0	Ethane	421		0.50	0.14
74-82-8	Methane	194		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	106		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-235546/5
 Matrix: Water Lab File ID: RSK0062305.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 14:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	385		0.50	0.13
74-84-0	Ethane	422		0.50	0.14
74-82-8	Methane	196		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	109		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: NMW-1I-061316 MS Lab Sample ID: 240-65988-3 MS
 Matrix: Water Lab File ID: RSK0062309.D
 Analysis Method: RSK-175 Date Collected: 06/13/2016 15:08
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 15:28
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	1840		2.5	0.65
74-84-0	Ethane	2020		2.5	0.70
74-82-8	Methane	4910		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	104		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65892-E-3 MS
 Matrix: Water Lab File ID: RSK0062108.D
 Analysis Method: RSK-175 Date Collected: 06/08/2016 14:35
 Sample wt/vol: 33 (mL) Date Analyzed: 06/21/2016 16:42
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235129 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	2690		2.5	0.65
74-84-0	Ethane	1980		2.5	0.70
74-82-8	Methane	6930		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	101		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: NMW-1I-061316 MSD Lab Sample ID: 240-65988-3 MSD
 Matrix: Water Lab File ID: RSK0062310.D
 Analysis Method: RSK-175 Date Collected: 06/13/2016 15:08
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 15:45
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	1840		2.5	0.65
74-84-0	Ethane	2020		2.5	0.70
74-82-8	Methane	4860		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	103		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65892-E-3 MSD
 Matrix: Water Lab File ID: RSK0062109.D
 Analysis Method: RSK-175 Date Collected: 06/08/2016 14:35
 Sample wt/vol: 33 (mL) Date Analyzed: 06/21/2016 16:59
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235129 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	2740		2.5	0.65
74-84-0	Ethane	2000		2.5	0.70
74-82-8	Methane	7360		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	102		76-121

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: ZPID Start Date: 01/18/2016 15:34

Analysis Batch Number: 214437 End Date: 01/18/2016 17:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-214437/3 IC		01/18/2016 15:34	1	Z0011803.D	
STD2 240-214437/4 IC		01/18/2016 15:50	1	Z0011804.D	
STD3 240-214437/5 ICRT		01/18/2016 16:06	1	Z0011805.D	
STD4 240-214437/6 IC		01/18/2016 16:21	1	Z0011806.D	
STD5 240-214437/7 IC		01/18/2016 16:37	1	Z0011807.D	
STD6 240-214437/8 IC		01/18/2016 16:53	1	Z0011808.D	
ICV 240-214437/9		01/18/2016 17:08	1	Z0011809.D	

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: ZPID Start Date: 06/21/2016 15:16Analysis Batch Number: 235129 End Date: 06/21/2016 19:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-235129/3		06/21/2016 15:16	1	RSK0062103.D	HP-PLOT/Q 0.53 (mm)
MB 240-235129/4		06/21/2016 15:33	1	RSK0062104.D	HP-PLOT/Q 0.53 (mm)
LCS 240-235129/5		06/21/2016 15:50	1	RSK0062105.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/21/2016 16:08	5		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/21/2016 16:25	5		HP-PLOT/Q 0.53 (mm)
240-65892-E-3 MS		06/21/2016 16:42	5	RSK0062108.D	HP-PLOT/Q 0.53 (mm)
240-65892-E-3 MSD		06/21/2016 16:59	5	RSK0062109.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/21/2016 17:16	10		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/21/2016 17:33	5		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/21/2016 17:50	5		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/21/2016 18:07	1		HP-PLOT/Q 0.53 (mm)
CCV 240-235129/14		06/21/2016 18:25	1	RSK0062114.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/21/2016 18:42	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/21/2016 18:59	1		HP-PLOT/Q 0.53 (mm)
240-65988-2		06/21/2016 19:16	1	RSK0062117.D	HP-PLOT/Q 0.53 (mm)
240-65988-3		06/21/2016 19:33	1	RSK0062118.D	HP-PLOT/Q 0.53 (mm)
CCV 240-235129/19		06/21/2016 19:50	1	RSK0062119.D	HP-PLOT/Q 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: ZPID Start Date: 06/23/2016 13:44Analysis Batch Number: 235546 End Date: 06/23/2016 20:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-235546/3		06/23/2016 13:44	1	RSK0062303.D	HP-PLOT/Q 0.53 (mm)
MB 240-235546/4		06/23/2016 14:01	1	RSK0062304.D	HP-PLOT/Q 0.53 (mm)
LCS 240-235546/5		06/23/2016 14:18	1	RSK0062305.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 14:36	1		HP-PLOT/Q 0.53 (mm)
240-65988-2		06/23/2016 14:53	5	RSK0062307.D	HP-PLOT/Q 0.53 (mm)
240-65988-3		06/23/2016 15:10	5	RSK0062308.D	HP-PLOT/Q 0.53 (mm)
240-65988-3 MS		06/23/2016 15:28	5	RSK0062309.D	HP-PLOT/Q 0.53 (mm)
240-65988-3 MSD		06/23/2016 15:45	5	RSK0062310.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 16:02	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 16:20	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 16:37	1		HP-PLOT/Q 0.53 (mm)
CCV 240-235546/14		06/23/2016 16:54	1	RSK0062314.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 17:12	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 17:29	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 17:46	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 18:04	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 18:21	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 18:38	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 18:55	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 19:13	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 19:30	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 19:47	1		HP-PLOT/Q 0.53 (mm)
CCV 240-235546/25		06/23/2016 20:05	1		HP-PLOT/Q 0.53 (mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-65988-1

SDG No.: _____

Project: MRC

Client Sample ID	Lab Sample ID
<u>MW-81B-061316</u>	<u>240-65988-2</u>
<u>NMW-1I-061316</u>	<u>240-65988-3</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: MW-81B-061316

Lab Sample ID: 240-65988-2

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/13/2016 13:46

Reporting Basis: WET

Date Received: 06/14/2016 09:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	54000	100	25	ug/L			1	6010C
7439-96-5	Manganese	2500	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: NMW-1I-061316

Lab Sample ID: 240-65988-3

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/13/2016 15:08

Reporting Basis: WET

Date Received: 06/14/2016 09:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	36000	100	25	ug/L			1	6010C
7439-96-5	Manganese	10000	15	5.1	ug/L			1	6010C

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

ICV Source: MT6500ICV_00031 Concentration Units: ug/L

CCV Source: MTICPCCV_00073

Analyte	ICV 240-234992/4 06/17/2016 09:44				CCV 240-234992/18 06/17/2016 10:42				CCV 240-234992/28 06/17/2016 11:27			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	12900		12500	103	26500		25000	106	24600		25000	98
Manganese	1530		1500	102	2080		2000	104	1960		2000	98

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.: 240-65988-1

SDG No.: _____

ICV Source: MT6500ICV_00031 Concentration Units: ug/L

CCV Source: MTICPCCV_00073

Analyte	CCV 240-234992/33 06/17/2016 11:56				CCV 240-234992/45 06/17/2016 13:02				CCV 240-234992/57 06/17/2016 13:49			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	25000		25000	100	26000		25000	104	26000		25000	104
Manganese	1970		2000	98	2040		2000	102	2040		2000	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.: 240-65988-1
 SDG No.: _____
 Method: 6010C Instrument ID: I9
 Lab Sample ID: CRI 240-234992/20 Concentration Units: ug/L
 CRQL Check Standard Source: MTTRCRIC_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	210		105	70-130
Manganese	15.0	15.6		104	70-130

Lab Sample ID: CRI 240-234992/111 Concentration Units: ug/L
 CRQL Check Standard Source: MTTRCRIC_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	208		104	70-130
Manganese	15.0	16.1		107	70-130

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-234992/5 06/17/2016 09:48		CCB 240-234992/19 06/17/2016 10:45		CCB 240-234992/29 06/17/2016 11:30		CCB 240-234992/34 06/17/2016 12:00	
		Found	C	Found	C	Found	C	Found	C
Iron	100	100	U	100	U	100	U	100	U
Manganese	15	15	U	15	U	15	U	15	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-234992/46 06/17/2016 13:06		CCB 240-234992/58 06/17/2016 13:52					
		Found	C	Found	C	Found	C	Found	C
Iron	100	100	U	100	U				
Manganese	15	15	U	15	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-65988-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-234783/1-A
Instrument Code: I9 Batch No.: 234992

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	100	U		6010C
7439-96-5	Manganese	15	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Lab Sample ID: ICSA 240-234992/8

Instrument ID: I9

Lab File ID: I9061716A.asc

ICS Source: MTRICSAW_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	190820	95
Manganese		1.94	
<i>Aluminum</i>	<i>500000</i>	<i>520900</i>	<i>104</i>
<i>Antimony</i>		<i>-2.05</i>	
<i>Arsenic</i>		<i>1.29</i>	
<i>Barium</i>		<i>-0.161</i>	
<i>Beryllium</i>		<i>-0.0361</i>	
<i>Boron</i>		<i>-6.59</i>	
<i>Cadmium</i>		<i>0.740</i>	
<i>Calcium</i>	<i>500000</i>	<i>483890</i>	<i>97</i>
<i>Chromium</i>		<i>2.94</i>	
<i>Cobalt</i>		<i>-0.389</i>	
<i>Copper</i>		<i>2.63</i>	
<i>Lead</i>		<i>3.29</i>	
<i>Lithium</i>		<i>8.59</i>	
<i>Magnesium</i>	<i>500000</i>	<i>497540</i>	<i>100</i>
<i>Molybdenum</i>		<i>-0.966</i>	
<i>Nickel</i>		<i>4.66</i>	
<i>Potassium</i>		<i>13.5</i>	
<i>Selenium</i>		<i>-2.62</i>	
<i>Silicon</i>		<i>8.97</i>	
<i>Silver</i>		<i>-0.146</i>	
<i>Sodium</i>		<i>151</i>	
<i>Strontium</i>		<i>10.9</i>	
<i>Thallium</i>		<i>-3.87</i>	
<i>Tin</i>		<i>5.26</i>	
<i>Titanium</i>		<i>-0.642</i>	
<i>Vanadium</i>		<i>-3.30</i>	
<i>Zinc</i>		<i>1.81</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Lab Sample ID: ICSAB 240-234992/9

Instrument ID: I9

Lab File ID: I9061716A.asc

ICS Source: MTICPCSABW_00011

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	190940	95
Manganese	500	488	98
<i>Aluminum</i>	<i>500000</i>	<i>515420</i>	<i>103</i>
<i>Antimony</i>	<i>1000</i>	<i>1041</i>	<i>104</i>
<i>Arsenic</i>	<i>1000</i>	<i>1036</i>	<i>104</i>
<i>Barium</i>	<i>500</i>	<i>497</i>	<i>99</i>
<i>Beryllium</i>	<i>500</i>	<i>485</i>	<i>97</i>
<i>Boron</i>	<i>500</i>	<i>507</i>	<i>101</i>
<i>Cadmium</i>	<i>1000</i>	<i>1041</i>	<i>104</i>
<i>Calcium</i>	<i>500000</i>	<i>487120</i>	<i>97</i>
<i>Chromium</i>	<i>500</i>	<i>472</i>	<i>94</i>
<i>Cobalt</i>	<i>500</i>	<i>500</i>	<i>100</i>
<i>Copper</i>	<i>500</i>	<i>528</i>	<i>106</i>
<i>Lead</i>	<i>1000</i>	<i>918</i>	<i>92</i>
<i>Lithium</i>	<i>500</i>	<i>548</i>	<i>110</i>
<i>Magnesium</i>	<i>500000</i>	<i>494760</i>	<i>99</i>
<i>Molybdenum</i>	<i>1000</i>	<i>993</i>	<i>99</i>
<i>Nickel</i>	<i>1000</i>	<i>950</i>	<i>95</i>
<i>Potassium</i>	<i>10000</i>	<i>10308</i>	<i>103</i>
<i>Selenium</i>	<i>1000</i>	<i>1026</i>	<i>103</i>
<i>Silicon</i>	<i>10000</i>	<i>10055</i>	<i>101</i>
<i>Silver</i>	<i>1000</i>	<i>1083</i>	<i>108</i>
<i>Sodium</i>	<i>10000</i>	<i>10527</i>	<i>105</i>
<i>Strontium</i>	<i>1500</i>	<i>1469</i>	<i>98</i>
<i>Thallium</i>	<i>1000</i>	<i>965</i>	<i>96</i>
<i>Tin</i>	<i>500</i>	<i>515</i>	<i>103</i>
<i>Titanium</i>	<i>500</i>	<i>508</i>	<i>102</i>
<i>Vanadium</i>	<i>500</i>	<i>488</i>	<i>98</i>
<i>Zinc</i>	<i>1000</i>	<i>1011</i>	<i>101</i>

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-66023-P-1-B MS
 Lab Name: TestAmerica Canton Job No.: 240-65988-1
 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
Iron	1060	66	J	1000	100	75-125		6010C
Manganese	502	5.8	J	500	99	75-125		6010C

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-66023-P-1-C MSD
 Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Iron	1080	1000	102	75-125	2	20		6010C
Manganese	508	500	100	75-125	1	20		6010C

SDR = Sample Duplicate Result

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

7A-IN
 LAB CONTROL SAMPLE
 METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-234783/2-A

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

Sample Matrix: Water

LCS Source: MTICP1_00052

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	1000	1040		104	80	120		6010C
Manganese	500	507		101	80	120		6010C

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: 240-66023-P-1-A SD ^5

SDG No: _____

Lab Name: TestAmerica Canton

Job No: 240-65988-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample		Serial		% Difference	Q	Method
	Result (I)	C	Result (S)	C			
Iron	66	J	500	U	NC		6010C
Manganese	5.8	J	75	U	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: 240-65988-1

SDG Number: _____

Matrix: Water

Instrument ID: I9

Method: 6010C

MDL Date: 05/06/2016 13:42

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Iron	271.441	100	25
Manganese	257.610	15	5.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-65988-1
SDG Number: _____
Matrix: Water Instrument ID: I9
Method: 6010C XMDL Date: 05/06/2016 13:44

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Iron	271.441	100	25
Manganese	257.610	15	5.1

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-65988-1

SDG No.: _____

ICP-AES Instrument ID: I9 Date: 02/23/2016

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	Tl	V
Aluminum										0.016774					0.022189
Antimony		-0.000066			0.000057			-0.000015							0.002792
Arsenic		0.00002			-0.000415	0.000782			-0.000355	0.002551					
Barium															
Beryllium															0.000029
Boron															
Cadmium			0.010288					-0.000004							
Calcium															
Chromium															
Cobalt													0.002140		
Copper				0.000018	0.000199			0.000009							
Iron															
Lead		-0.000108					0.000101	0.000044			0.000131	0.000064			
Lithium															
Magnesium															
Manganese															
Molybdenum															
Nickel					0.000518			0.000057							
Potassium															
Selenium		-0.000013							0.000338						
Silver															
Sodium															
Strontium															
Thallium		0.000012			0.003074			-0.000019	-0.002934						0.001707
Tin															
Titanium															
Vanadium								0.000038							
Zinc								-0.001092							

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-65988-1

SDG No.: _____

Instrument ID: I9

Date: 02/25/2016 13:19

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Iron		500000	6010C
Manganese		15000	6010C

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-234783/1-A	06/16/2016 10:46	234783		50	50
LCS 240-234783/2-A	06/16/2016 10:46	234783		50	50
240-66023-P-1-B MS	06/16/2016 10:46	234783		50	50
240-66023-P-1-C MSD	06/16/2016 10:46	234783		50	50
240-65988-2	06/16/2016 10:46	234783		50	50
240-65988-3	06/16/2016 10:46	234783		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Instrument ID: I9

Analysis Method: 6010C

Start Date: 06/17/2016 09:31

End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ICIS 240-234992/1	1		09:31	X	X																										
CALSTD 240-234992/2 IC			09:36	X	X																										
CALSTD 240-234992/3 IC			09:40	X	X																										
ICV 240-234992/4	1		09:44	X	X																										
ICB 240-234992/5	1		09:48	X	X																										
CRI 240-234992/6			09:52																												
ZZZZZZ			09:56																												
ICSA 240-234992/8	1		10:00	X	X																										
ICSAB 240-234992/9	1		10:05	X	X																										
CCV 240-234992/10			10:08																												
CCB 240-234992/11			10:12																												
ZZZZZZ			10:16																												
ZZZZZZ			10:21																												
ZZZZZZ			10:25																												
ZZZZZZ			10:29																												
ZZZZZZ			10:33																												
ZZZZZZ			10:38																												
CCV 240-234992/18	1		10:42	X	X																										
CCB 240-234992/19	1		10:45	X	X																										
CRI 240-234992/20	1		10:53	X	X																										
MB 240-234783/1-A	1	R	10:57	X	X																										
LCS 240-234783/2-A	1	R	11:01	X	X																										
ZZZZZZ			11:05																												
ZZZZZZ			11:09																												
ZZZZZZ			11:13																												
ZZZZZZ			11:17																												
ZZZZZZ			11:21																												
CCV 240-234992/28	1		11:27	X	X																										
CCB 240-234992/29	1		11:30	X	X																										
CCV 240-234992/30			11:35																												
CCB 240-234992/31			11:46																												
ZZZZZZ			11:50																												
CCV 240-234992/33	1		11:56	X	X																										
CCB 240-234992/34	1		12:00	X	X																										
ZZZZZZ			12:22																												
240-66023-P-1-A SD ^5	5	R	12:26	X	X																										
240-66023-P-1-B MS	1	R	12:30	X	X																										
240-66023-P-1-C MSD	1	R	12:33	X	X																										
ZZZZZZ			12:37																												
ZZZZZZ			12:41																												
ZZZZZZ			12:45																												
ZZZZZZ			12:50																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			12:54																												
240-65988-2	1	R	12:58	X	X																										
CCV 240-234992/45	1		13:02	X	X																										
CCB 240-234992/46	1		13:06	X	X																										
240-65988-3	1	R	13:10	X	X																										
ZZZZZZ			13:14																												
ZZZZZZ			13:18																												
ZZZZZZ			13:22																												
ZZZZZZ			13:26																												
ZZZZZZ			13:30																												
ZZZZZZ			13:34																												
ZZZZZZ			13:37																												
ZZZZZZ			13:41																												
ZZZZZZ			13:45																												
CCV 240-234992/57	1		13:49	X	X																										
CCB 240-234992/58	1		13:52	X	X																										
ZZZZZZ			13:57																												
ZZZZZZ			14:01																												
ZZZZZZ			14:04																												
ZZZZZZ			14:08																												
ZZZZZZ			14:12																												
ZZZZZZ			14:16																												
ZZZZZZ			14:20																												
ZZZZZZ			14:24																												
ZZZZZZ			14:28																												
ZZZZZZ			14:32																												
CCV 240-234992/69			14:36																												
CCB 240-234992/70			14:40																												
ZZZZZZ			14:44																												
ZZZZZZ			14:48																												
ZZZZZZ			14:52																												
ZZZZZZ			14:55																												
ZZZZZZ			14:59																												
ZZZZZZ			15:03																												
ZZZZZZ			15:08																												
ZZZZZZ			15:12																												
ZZZZZZ			15:16																												
ZZZZZZ			15:20																												
CCV 240-234992/81			15:24																												
CCB 240-234992/82			15:27																												
ZZZZZZ			15:31																												
ZZZZZZ			15:35																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			15:39																												
ZZZZZZ			15:42																												
ZZZZZZ			15:46																												
ZZZZZZ			15:50																												
ZZZZZZ			15:54																												
ZZZZZZ			15:58																												
ZZZZZZ			16:02																												
ZZZZZZ			16:06																												
CCV 240-234992/93			16:10																												
CCB 240-234992/94			16:14																												
ZZZZZZ			16:18																												
ZZZZZZ			16:26																												
ZZZZZZ			16:30																												
ZZZZZZ			16:34																												
ZZZZZZ			16:38																												
ZZZZZZ			16:42																												
ZZZZZZ			16:46																												
ZZZZZZ			16:50																												
ZZZZZZ			16:54																												
ZZZZZZ			16:58																												
CCV 240-234992/105			17:01																												
CCB 240-234992/106			17:05																												
ZZZZZZ			17:09																												
ZZZZZZ			17:13																												
CCV 240-234992/109			17:17																												
CCB 240-234992/110			17:21																												
CRI 240-234992/111		1	17:25	X	X																										
ZZZZZZ			17:29																												
ZZZZZZ			17:33																												
ZZZZZZ			17:37																												
ZZZZZZ			17:41																												
ZZZZZZ			17:45																												
CCV 240-234992/117			17:49																												
CCB 240-234992/118			17:53																												
ZZZZZZ			17:57																												
ZZZZZZ			18:02																												
ZZZZZZ			18:06																												
ZZZZZZ			18:10																												
ZZZZZZ			18:14																												
ZZZZZZ			18:18																												
ZZZZZZ			18:23																												
ZZZZZZ			18:27																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			18:31																												
ZZZZZZ			18:36																												
CCV 240-234992/129			18:40																												
CCB 240-234992/130			18:43																												
ZZZZZZ			18:48																												
ZZZZZZ			18:52																												
ZZZZZZ			18:56																												
ZZZZZZ			19:00																												
ZZZZZZ			19:04																												
ZZZZZZ			19:08																												
ZZZZZZ			19:12																												
ZZZZZZ			19:16																												
ZZZZZZ			19:20																												
ZZZZZZ			19:24																												
CCV 240-234992/141			19:28																												
CCB 240-234992/142			19:32																												
ZZZZZZ			19:36																												
ZZZZZZ			19:40																												
ZZZZZZ			19:44																												
ZZZZZZ			19:48																												
ZZZZZZ			19:53																												
ZZZZZZ			19:57																												
ZZZZZZ			20:01																												
ZZZZZZ			20:05																												
ZZZZZZ			20:09																												
ZZZZZZ			20:13																												
CCV 240-234992/153			20:17																												
CCB 240-234992/154			20:21																												
ZZZZZZ			20:25																												
ZZZZZZ			20:29																												
ZZZZZZ			20:33																												
ZZZZZZ			20:37																												
ZZZZZZ			20:41																												
ZZZZZZ			20:46																												
ZZZZZZ			20:49																												
ZZZZZZ			20:53																												
ZZZZZZ			20:58																												
ZZZZZZ			21:02																												
CCV 240-234992/165			21:06																												
CCB 240-234992/166			21:10																												
ZZZZZZ			21:14																												
ZZZZZZ			21:18																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			21:22																												
ZZZZZZ			21:26																												
ZZZZZZ			21:30																												
ZZZZZZ			21:35																												
ZZZZZZ			21:39																												
ZZZZZZ			21:43																												
ZZZZZZ			21:47																												
ZZZZZZ			21:51																												
CCV 240-234992/177			21:55																												
CCB 240-234992/178			21:59																												
ZZZZZZ			22:03																												
ZZZZZZ			22:08																												
ZZZZZZ			22:12																												
ZZZZZZ			22:16																												
ZZZZZZ			22:20																												
ZZZZZZ			22:24																												
ZZZZZZ			22:28																												
ZZZZZZ			22:32																												
ZZZZZZ			22:36																												
ZZZZZZ			22:40																												
CCV 240-234992/189			22:45																												
CCB 240-234992/190			22:48																												
ZZZZZZ			22:53																												
ZZZZZZ			22:57																												
ZZZZZZ			23:01																												
ZZZZZZ			23:06																												
ZZZZZZ			23:10																												
ZZZZZZ			23:14																												
ZZZZZZ			23:18																												
ZZZZZZ			23:22																												
ZZZZZZ			23:26																												
ZZZZZZ			23:30																												
CCV 240-234992/201			23:34																												
CCB 240-234992/202			23:37																												
ZZZZZZ			23:41																												
ZZZZZZ			23:46																												
ZZZZZZ			23:50																												
ZZZZZZ			23:54																												
ZZZZZZ			23:58																												
ZZZZZZ			00:02																												
ZZZZZZ			00:06																												
ZZZZZZ			00:10																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			00:14																												
ZZZZZZ			00:18																												
CCV 240-234992/213			00:22																												
CCB 240-234992/214			00:25																												
ZZZZZZ			00:30																												
ZZZZZZ			00:33																												
ZZZZZZ			00:37																												
ZZZZZZ			00:41																												
ZZZZZZ			00:46																												
ZZZZZZ			00:50																												
ZZZZZZ			00:54																												
ZZZZZZ			00:58																												
ZZZZZZ			01:02																												
ZZZZZZ			01:06																												
CCV 240-234992/225			01:10																												
CCB 240-234992/226			01:14																												
ZZZZZZ			01:18																												
ZZZZZZ			01:22																												
ZZZZZZ			01:26																												
ZZZZZZ			01:31																												
ZZZZZZ			01:35																												
ZZZZZZ			01:39																												
ZZZZZZ			01:43																												
ZZZZZZ			01:47																												
ZZZZZZ			01:51																												
ZZZZZZ			01:56																												
CCV 240-234992/237			02:00																												
CCB 240-234992/238			02:03																												
ZZZZZZ			02:08																												
ZZZZZZ			02:12																												
ZZZZZZ			02:16																												
ZZZZZZ			02:19																												
ZZZZZZ			02:23																												
ZZZZZZ			02:28																												
ZZZZZZ			02:31																												
ZZZZZZ			02:35																												
ZZZZZZ			02:39																												
ZZZZZZ			02:43																												
CCV 240-234992/249			02:47																												
CCB 240-234992/250			02:51																												
ZZZZZZ			02:55																												
ZZZZZZ			02:59																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				F	M																										
ZZZZZZ			03:03																												
ZZZZZZ			03:07																												
ZZZZZZ			03:11																												
ZZZZZZ			03:15																												
ZZZZZZ			03:20																												
ZZZZZZ			03:24																												
ZZZZZZ			03:28																												
ZZZZZZ			03:32																												
CCV 240-234992/261			03:36																												
CCB 240-234992/262			03:40																												
ZZZZZZ			03:44																												
ZZZZZZ			03:48																												
ZZZZZZ			03:52																												
ZZZZZZ			03:57																												
ZZZZZZ			04:01																												
ZZZZZZ			04:05																												
ZZZZZZ			04:09																												
CCV 240-234992/270			04:13																												
CCB 240-234992/271			04:17																												

Prep Types: _____
R = Total Recoverable

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Batch Number: 234783 Batch Start Date: 06/16/16 10:46 Batch Analyst: Colosi, Alexander J

Batch Method: 3005A Batch End Date: 06/16/16 18:46

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00058	MTICP1 00052	MTICP2A 00060	MTTMHCL 00113
MB 240-234783/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-234783/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-66023-P-1 MS		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-66023-P-1 MSD		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-65988-I-2	MW-81B-061316	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-65988-I-3	NMW-1I-061316	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00089					
MB 240-234783/1		3005A, 6010C		1 mL					
LCS 240-234783/2		3005A, 6010C		1 mL					
240-66023-P-1 MS		3005A, 6010C	R	1 mL					
240-66023-P-1 MSD		3005A, 6010C	R	1 mL					
240-65988-I-2	MW-81B-061316	3005A, 6010C	R	1 mL					
240-65988-I-3	NMW-1I-061316	3005A, 6010C	R	1 mL					

Batch Notes	
Filter Paper ID	9672596
Hot Block ID	HB2
Pipette ID	MP1
Digestion Tube/Cup ID	1509104

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-65988-1

SDG No.: _____

Project: MRC

Client Sample ID	Lab Sample ID
<u>MW-81B-061316</u>	<u>240-65988-2</u>
<u>NMW-1I-061316</u>	<u>240-65988-3</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: MW-81B-061316

Lab Sample ID: 240-65988-2

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG ID.:

Matrix: Water

Date Sampled: 06/13/2016 13:46

Reporting Basis: WET

Date Received: 06/14/2016 09:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	360	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	1.0	1.0	0.13	mg/L	U		1	300.0
	TOC Result 1	0.43	1.0	0.080	mg/L	J		1	9060A
	TOC Result 2	0.18	1.0	0.080	mg/L	J		1	9060A
	TOC Result 3	0.39	1.0	0.080	mg/L	J		1	9060A
	TOC Result 4	0.24	1.0	0.080	mg/L	J		1	9060A
7440-44-0	Total Organic Carbon	0.31	1.0	0.080	mg/L	J		1	9060A
	Total Dissolved Solids	510	10	7.4	mg/L			1	SM 2540C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NMW-1I-061316

Lab Sample ID: 240-65988-3

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/13/2016 15:08

Reporting Basis: WET

Date Received: 06/14/2016 09:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	120	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	120	1.0	0.13	mg/L			1	300.0
	TOC Result 1	1.2	1.0	0.080	mg/L			1	9060A
	TOC Result 2	0.45	1.0	0.080	mg/L	J		1	9060A
	TOC Result 3	0.79	1.0	0.080	mg/L	J		1	9060A
	TOC Result 4	0.41	1.0	0.080	mg/L	J		1	9060A
7440-44-0	Total Organic Carbon	0.70	1.0	0.080	mg/L	J		1	9060A
	Total Dissolved Solids	430	10	7.4	mg/L			1	SM 2540C

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Analyst: LCN Batch Start Date: 06/21/2016
 Reporting Units: mg/L Analytical Batch No.: 235387

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	21:08	Sulfate	54.8	50.0	110	90-110		WCICCCV_00693
2	CCB	21:28	Sulfate	1.0				U	
13	CCV	01:10	Sulfate	54.7	50.0	109	90-110		WCICCCV_00693
14	CCB	01:30	Sulfate	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Analyst: TPH Batch Start Date: 06/21/2016
 Reporting Units: mg/L Analytical Batch No.: 235446

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCVL	13:14	TOC Result 1	4.70	5.00	94	90-110		WC TOC CCVL_00101
			Total Organic Carbon	4.70	5.00	94	90-110		WC TOC CCVL_00101
3	CCB	13:21	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
11	CCVL	15:17	TOC Result 1	4.58	5.00	92	90-110		WC TOC CCVL_00101
			Total Organic Carbon	4.58	5.00	92	90-110		WC TOC CCVL_00101
12	CCB	15:25	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-65988-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 235191 Date: 06/17/2016 11:02							
2320B-1997	MB 240-235191/5	Alkalinity	5.0	U	mg/L	5.0	1
Batch ID: 235387 Date: 06/21/2016 21:48							
300.0	MB 240-235387/3	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 235446 Date: 06/21/2016 13:29							
9060A	MB 240-235446/4	TOC Result 1	1.0	U	mg/L	1.0	1
9060A	MB 240-235446/4	Total Organic Carbon	1.0	U	mg/L	1.0	1
Batch ID: 234961 Date: 06/17/2016 10:19							
SM 2540C	MB 240-234961/1	Total Dissolved Solids	10	U	mg/L	10	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 235387 Date: 06/21/2016 22:49											
300.0	240-65988-2	Sulfate	1.0	U	mg/L						
300.0	240-65988-2	Sulfate	56.1		mg/L	50.0	112	80-120			
MS											
Batch ID: 235446 Date: 06/21/2016 14:11											
9060A	240-65988-2	TOC Result 1	0.43	J	mg/L						
9060A	240-65988-2	TOC Result 1	5.74		mg/L	5.00	106	72-136			
MS											
9060A	240-65988-2	Total Organic Carbon	0.31	J	mg/L						
9060A	240-65988-2	Total Organic Carbon	5.74		mg/L	5.00	109	72-136			
MS											

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

5-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 235387 Date: 06/21/2016 23:09											
300.0	240-65988-2	Sulfate	54.9		mg/L	50.0	110	80-120	2	15	
MSD											
Batch ID: 235446 Date: 06/21/2016 14:19											
9060A	240-65988-2	TOC Result 1	5.71		mg/L	5.00	106	72-136	1	20	
MSD											
9060A	240-65988-2	Total Organic Carbon	5.71		mg/L	5.00	108	72-136	1	20	
MSD											

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

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result Unit	RPD	RPD Limit	Qual
Batch ID: 235191 Date: 06/17/2016 12:23							
2320B-1997	NMW-1I-061316	240-65988-3	Alkalinity	120 mg/L			
2320B-1997	NMW-1I-061316	240-65988-3 DU	Alkalinity	118 mg/L	0.7	20	
Batch ID: 234961 Date: 06/17/2016 10:19							
SM 2540C		240-65979-R-1	Total Dissolved Solids	410 mg/L			
SM 2540C		240-65979-R-1 DU	Total Dissolved Solids	388 mg/L	6	20	

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

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 235191 Date: 06/17/2016 10:56											
LCS Source: WCPHENOMINER_00015											
2320B-1 997	LCS 240-235191/4	Alkalinity	374		mg/L	368	102	90-127			
Batch ID: 235387 Date: 06/21/2016 22:08											
LCS Source: WCICLCS_00538											
300.0	LCS 240-235387/4	Sulfate	54.1		mg/L	50.0	108	90-110			
Batch ID: 234961 Date: 06/17/2016 10:19											
LCS Source: WCPHENOV SOLID_00015											
SM 2540C	LCS 240-234961/2	Total Dissolved Solids	530		mg/L	577	92	88-110			

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

7A-IN
 LOW LEVEL CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 235446 Date: 06/21/2016 13:37											
						LCS Source: WC LCS_00047					
9060A	LLCS 240-235446/5	TOC Result 1	6.95		mg/L	7.20	96	88-115			
9060A	LLCS 240-235446/5	Total Organic Carbon	6.95		mg/L	7.20	96	88-115			

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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-65988-1

SDG Number: _____

Matrix: Water

Instrument ID: STEVE

Method: 2320B-1997

MDL Date: 07/12/2013 09:18

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity		5	1.9

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-65988-1
SDG Number: _____
Matrix: Water Instrument ID: STEVE
Method: 2320B-1997 XMDL Date: 07/12/2013 09:19

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	1.9

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-65988-1

SDG Number: _____

Matrix: Water

Instrument ID: VERONICA

Method: 300.0

MDL Date: 08/12/2014 17:01

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		1	0.13

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-65988-1
SDG Number: _____
Matrix: Water Instrument ID: VERONICA
Method: 300.0 XMDL Date: 08/12/2014 17:02

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		1	0.13

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-65988-1

SDG Number: _____

Matrix: Water

Instrument ID: Clark

Method: 9060A

MDL Date: 04/28/2015 15:58

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Result 1		1	0.08
TOC Result 2		1	0.08
TOC Result 3		1	0.08
TOC Result 4		1	0.08
Total Organic Carbon		1	0.08

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-65988-1
SDG Number: _____
Matrix: Water Instrument ID: Clark
Method: 9060A XMDL Date: 04/28/2015 15:59

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Result 1		1	0.08
TOC Result 2		1	0.08
TOC Result 3		1	0.08
TOC Result 4		1	0.08
Total Organic Carbon		1	0.08

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-65988-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: SM 2540C

MDL Date: 01/28/2010 09:50

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Dissolved Solids		10	7.4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-65988-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 2540C XMDL Date: 01/28/2010 09:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	7.4

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: STEVE Analysis Method: 2320B-1997

Start Date: 06/17/2016 10:17 End Date: 06/17/2016 13:21

Lab Sample Id	D/F	Type	Time	Analytes																											
				A	1	k																									
RINSE 240-235191/1			10:17																												
RINSE 240-235191/2			10:23																												
ZZZZZZ			10:43																												
LCS 240-235191/4	1	T	10:56	X																											
MB 240-235191/5	1	T	11:02	X																											
ZZZZZZ			11:06																												
ZZZZZZ			11:23																												
ZZZZZZ			11:32																												
ZZZZZZ			11:42																												
ZZZZZZ			11:53																												
240-65988-2	1	T	12:06	X																											
240-65988-3	1	T	12:15	X																											
240-65988-3 DU	1	T	12:23	X																											
ZZZZZZ			12:30																												
ZZZZZZ			12:39																												
ZZZZZZ			12:49																												
ZZZZZZ			12:53																												
ZZZZZZ			13:00																												
ZZZZZZ			13:08																												
ZZZZZZ			13:17																												
ZZZZZZ			13:21																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: VERONICA Analysis Method: 300.0

Start Date: 06/21/2016 21:08 End Date: 06/22/2016 13:35

Lab Sample Id	D/F	Type	Time	Analytes																			
				S	O	4																	
CCV 240-235387/1	1		21:08	X																			
CCB 240-235387/2	1		21:28	X																			
MB 240-235387/3	1	T	21:48	X																			
LCS 240-235387/4	1	T	22:08	X																			
240-65988-2	1	T	22:28	X																			
240-65988-2 MS	1	T	22:49	X																			
240-65988-2 MSD	1	T	23:09	X																			
240-65988-3	1	T	23:29	X																			
ZZZZZZ			23:49																				
ZZZZZZ			00:09																				
ZZZZZZ			00:29																				
ZZZZZZ			00:49																				
CCV 240-235387/13	1		01:10	X																			
CCB 240-235387/14	1		01:30	X																			
ZZZZZZ			01:50																				
ZZZZZZ			02:10																				
ZZZZZZ			02:30																				
ZZZZZZ			02:50																				
ZZZZZZ			03:11																				
ZZZZZZ			03:31																				
ZZZZZZ			03:51																				
ZZZZZZ			04:11																				
ZZZZZZ			04:31																				
ZZZZZZ			04:51																				
CCV 240-235387/25			05:11																				
CCB 240-235387/26			05:32																				
ZZZZZZ			05:52																				
ZZZZZZ			06:12																				
ZZZZZZ			06:32																				
ZZZZZZ			06:52																				
ZZZZZZ			07:12																				
ZZZZZZ			07:33																				
ZZZZZZ			07:53																				
ZZZZZZ			08:13																				
ZZZZZZ			08:33																				
ZZZZZZ			08:53																				
CCV 240-235387/37			09:13																				
CCB 240-235387/38			09:33																				
ZZZZZZ			09:54																				
ZZZZZZ			10:14																				
ZZZZZZ			10:34																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: VERONICA Analysis Method: 300.0

Start Date: 06/21/2016 21:08 End Date: 06/22/2016 13:35

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				S	O	4																									
ZZZZZZ			10:54																												
ZZZZZZ			11:14																												
ZZZZZZ			11:34																												
ZZZZZZ			11:54																												
ZZZZZZ			12:15																												
ZZZZZZ			12:35																												
ZZZZZZ			12:55																												
CCV 240-235387/49			13:15																												
CCB 240-235387/50			13:35																												

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1
 SDG No.: _____
 Instrument ID: Clark Analysis Method: 9060A
 Start Date: 06/21/2016 12:56 End Date: 06/21/2016 15:25

Lab Sample Id	D/F	Type	Time	Analytes																			
				TOC 1	TOC 2	TOC 3	TOC 4																
ZZZZZZ			12:56																				
CCVL 240-235446/2	1		13:14	X	X																		
CCB 240-235446/3	1		13:21	X	X																		
MB 240-235446/4	1	T	13:29	X	X																		
LLCS 240-235446/5	1	T	13:37	X	X																		
240-65988-2	1	T	13:46	X	X	X	X	X															
240-65988-2 MS	2	T	14:11	X	X																		
240-65988-2 MSD	2	T	14:19	X	X																		
240-65988-3	1	T	14:27	X	X	X	X	X															
ZZZZZZ			14:53																				
CCVL 240-235446/11	1		15:17	X	X																		
CCB 240-235446/12	1		15:25	X	X																		

Prep Types: _____
 T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2540C

Start Date: 06/17/2016 10:19 End Date: 06/17/2016 10:19

Lab Sample Id	D/F	T y p e	Time	T D S	Analytes																			
MB 240-234961/1	1	T	10:19	X																				
LCS 240-234961/2	1	T	10:19	X																				
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
240-65979-R-1 DU	1	T	10:19	X																				
240-65988-3	1	T	10:19	X																				
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
240-65988-2	1	T	10:19	X																				
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					
ZZZZZZ			10:19																					

Prep Types: _____
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Batch Number: 235191 Batch Start Date: 06/17/16 10:17 Batch Analyst: Burns, Jill

Batch Method: 2320B-1997 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CalcMsg	FinalAmount	WCPHENOMINER 00015		
LCS 240-235191/4		2320B-1997		50 mL	BuretStart2 is blank	50 mL	50 mL		
MB 240-235191/5		2320B-1997		50 mL	BuretStart2 is blank	50 mL			
240-65988-I-2	MW-81B-061316	2320B-1997	T	50 mL	BuretStart2 is blank	50 mL			
240-65988-I-3	NMW-1I-061316	2320B-1997	T	50 mL	BuretStart2 is blank	50 mL			
240-65988-I-3 DU	NMW-1I-061316	2320B-1997	T	50 mL	BuretStart2 is blank	50 mL			

Batch Notes	
pH Buffer 1 ID	2560013
pH Buffer 2 ID	2576496
pH Buffer 3 ID	2560007
pH Buffer 4 ID	2560005
Sulfuric Acid Lot Number	2564942
Nominal Amount Used	50 mL
Probe ID	W121
Normality of First Titrant	.02 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.: 240-65988-1

SDG No.: _____

Batch Number: 235384 Batch Start Date: 06/21/16 13:44 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCAL SOLN 00260				
STD1 240-235384/1 IC		300.0		5 mL	0.025 mL				
STD2 240-235384/2 IC		300.0		5 mL	0.125 mL				
STD3 240-235384/3 IC		300.0		5 mL	0.25 mL				
STD4 240-235384/4 IC		300.0		5 mL	0.5 mL				
STD5 240-235384/5 ICRT		300.0		5 mL	1.25 mL				
STD6 240-235384/6 IC		300.0		5 mL	2 mL				
STD7 240-235384/7 IC		300.0		5 mL	2.5 mL				
STD8 240-235384/8 IC		300.0		5 mL	3.75 mL				
STD9 240-235384/9 IC		300.0		5 mL	5 mL				

Batch Notes	

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-65988-1

SDG No.: _____

Batch Number: 235387 Batch Start Date: 06/21/16 21:08 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00693	WCICLCS 00538	WCICSOLNA1 00014	WCICSOLNB1 00012	
CCV 240-235387/1		300.0		5 mL	5 mL				
CCB 240-235387/2		300.0		5 mL					
MB 240-235387/3		300.0		5 mL					
LCS 240-235387/4		300.0		5 mL		5 mL			
240-65988-I-2 MS	MW-81B-061316	300.0	T	5 mL			0.1 mL	0.1 mL	
240-65988-I-2 MSD	MW-81B-061316	300.0	T	5 mL			0.1 mL	0.1 mL	
240-65988-I-3	NMW-1I-061316	300.0	T	5 mL					
CCV 240-235387/13		300.0		5 mL	5 mL				
CCB 240-235387/14		300.0		5 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.: 240-65988-1

SDG No.: _____

Batch Number: 235446 Batch Start Date: 06/21/16 12:56 Batch Analyst: Harshman, Tom

Batch Method: 9060A Batch End Date: 06/21/16 15:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC LCS 00047	WC TOC CCVL 00101		
CCVL 240-235446/2		9060A		40 mL	40 mL		40 mL		
CCB 240-235446/3		9060A		40 mL	40 mL				
MB 240-235446/4		9060A		40 mL	40 mL				
LLCS 240-235446/5		9060A		40 mL	40 mL	40 mL			
240-65988-A-2	MW-81B-061316	9060A	T	40 mL	40 mL				
240-65988-A-2	MW-81B-061316	9060A	T	40 mL	40 mL		20 mL		
MS 240-65988-A-2	MW-81B-061316	9060A	T	40 mL	40 mL		20 mL		
MSD 240-65988-A-3	NMW-1I-061316	9060A	T	40 mL	40 mL				
CCVL 240-235446/11		9060A		40 mL	40 mL		40 mL		
CCB 240-235446/12		9060A		40 mL	40 mL				

Batch Notes	
Phosphoric Acid ID	2586293
Sodium Persulfate ID	2586292

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.: 240-65988-1

SDG No.: _____

Batch Number: 234961 Batch Start Date: 06/17/16 10:19 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	WeightOne%Diff
MB 240-234961/1		SM 2540C			100 mL	86.3773 g	86.3768 g	86.3765 g	Pass
LCS 240-234961/2		SM 2540C			100 mL	90.2419 g	90.2951 g	90.2949 g	Pass
240-65979-R-1 DU		SM 2540C	T	700 umhos/cm	100 mL	86.0394 g	86.0787 g	86.0782 g	Pass
240-65988-I-3	NMW-1I-061316	SM 2540C	T	700 umhos/cm	100 mL	77.2861 g	77.3289 g	77.3287 g	Pass
240-65988-I-2	MW-81B-061316	SM 2540C	T	900 umhos/cm	100 mL	87.0602 g	87.1113 g	87.1116 g	Pass

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3	FinalAmount
MB 240-234961/1		SM 2540C		N/A	N/A	-0.0005 g	-0.0008 g	N/A g	100 mL
LCS 240-234961/2		SM 2540C		N/A	N/A	0.0532 g	0.053 g	N/A g	100 mL
240-65979-R-1 DU		SM 2540C	T	N/A	N/A	0.0393 g	0.0388 g	N/A g	100 mL
240-65988-I-3	NMW-1I-061316	SM 2540C	T	N/A	N/A	0.0428 g	0.0426 g	N/A g	100 mL
240-65988-I-2	MW-81B-061316	SM 2540C	T	N/A	N/A	0.0511 g	0.0514 g	N/A g	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue4	CalcMsg	WCPHENOVSOLID 00015			
MB 240-234961/1		SM 2540C		N/A g	OK				
LCS 240-234961/2		SM 2540C		N/A g	OK	100 mL			
240-65979-R-1 DU		SM 2540C	T	N/A g	OK				
240-65988-I-3	NMW-1I-061316	SM 2540C	T	N/A g	OK				
240-65988-I-2	MW-81B-061316	SM 2540C	T	N/A g	OK				

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.: 240-65988-1

SDG No.: _____

Batch Number: 234961 Batch Start Date: 06/17/16 10:19 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Batch Notes	
Balance ID	B044
Conductivity Meter ID	Myron
Constant Weight (WT2) Date/Time In	06/20/16 12:05
Constant Weight (WT2) Date/Time Out	06/20/16 13:05
Uncorrected CW (Wt2) Temp In	180 Celsius
Uncorrected CW (Wt2) Temp Out	180 Celsius
Date/Time Samples placed in Oven	06/17/16 12:50
Date/Time Samples Removed from Oven	06/20/16 9:30
Filter Paper ID	2555325
Nominal Amount Used	100 mL
Oven ID	006
Thermometer ID	24250
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	103 Celsius
Weight (WT1) Start Date/Time	06/20/16 9:30
Weight (WT1) Date/Time Out	06/20/16 10:30
Uncorrected Weight (WT1) Start Temp	180 Celsius
Uncorrected Weight (WT1) Temp Out	180 Celsius

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.

Subcontract Data

How to Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database and Client Portal

The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 32,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide. Driven by field samples, the database reflects the impacts of common contaminants, geochemical conditions, and site management practices on critical microbial populations.

With your report, you received a passcode enabling you to retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge. When accessing the database, you will be asked to provide background information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations. As with all client information provided to MI, site specific data will be treated as confidential.

Is that low, medium or high?

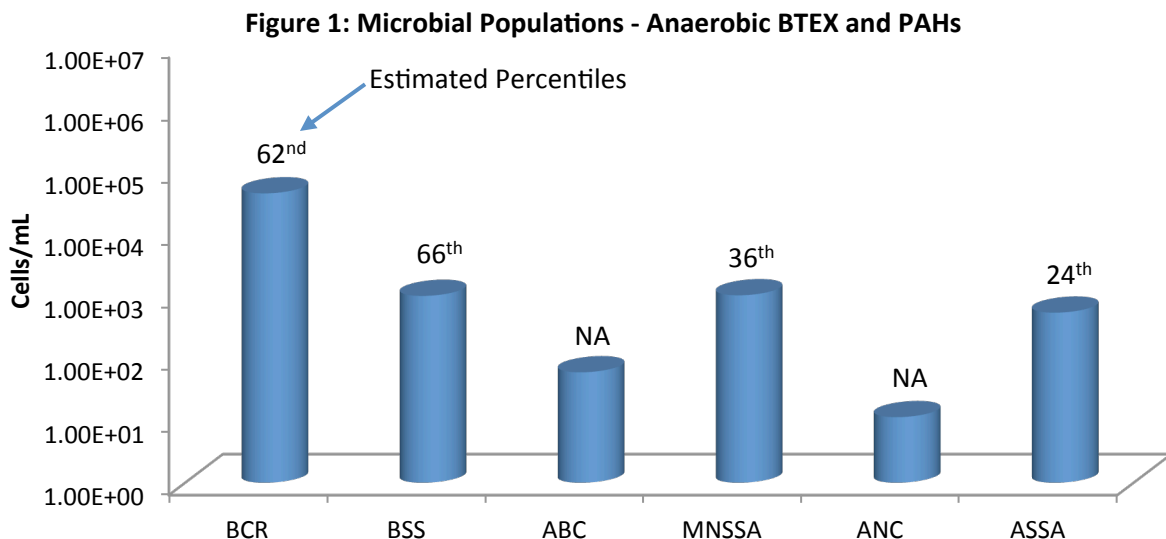
In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. Simply put, qPCR and QuantArray results demonstrating high concentrations of target microorganisms or functional genes suggest in situ selection, enrichment and growth of those specific contaminant degraders and therefore a greater probability that monitored natural attenuation (MNA) or bioremediation will be successful.

Is that a low, medium, or high concentration? The estimated percentile ranks retrieved from the MI Database answer that question by comparing your qPCR and QuantArray results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Using the Estimated Percentile - Interpretation Examples

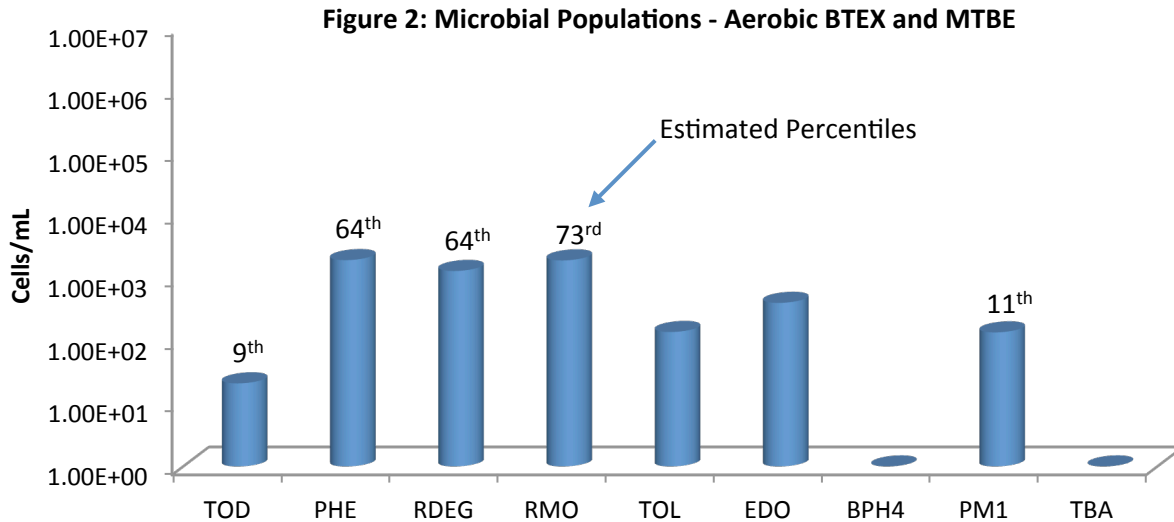
MNA Assessment – Petroleum Hydrocarbon Site:

Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between samples obtained from background and impacted wells. The estimated percentile ranks however provide an additional avenue for comparison and evaluation of treatment options as shown below.



Anaerobic BTEX and PAH Biodegradation (Figure 1):

- With moderate concentrations of functional genes involved in anaerobic BTEX metabolism detected, the QuantArray-Petro® results were encouraging in terms of evaluating biodegradation potential under existing site conditions.
- More specifically, benzylsuccinate synthase (BSS) was detected on the order of nearly 10^3 cells/mL indicating the presence of a substantial population (66th percentile) capable of anaerobic biodegradation of toluene and other alkyl substituted benzenes.
- Naphthyl-2-methylsuccinate synthase (MNSSA) and alkylsuccinate synthase (ASSA) genes were also detected indicating the potential for anaerobic biodegradation of 2-methylnaphthalene and normal alkanes.
- The concentration of MNSSA genes would be considered modest with an estimated percentile of 36th.
- While the percentile rank for MNSSA would be “below average”, a number of additional factors should be considered.
 - First, anaerobic hydrocarbon degraders are less prevalent than aerobic BTEX degraders and overall detection frequencies for many genes involved in anaerobic hydrocarbon biodegradation are less than 50%.
 - Therefore, the detection of genes like BSS, MNSSA, ASSA, anaerobic benzene carboxylase (ABC), and anaerobic naphthalene carboxylase (ANC) even at low concentrations is certainly noteworthy and inherently “better than average”.
 - The estimated percentiles for all assays are based only on samples where the concentration of the target gene was greater than the practical quantitation limit (PQL).
 - For less commonly detected targets like many of the genes involved in anaerobic hydrocarbon biodegradation this is an especially important consideration.
 - Excluding samples where a gene target is below the PQL ensured that the median concentrations of less commonly detected targets would not be unduly biased low by the fact that the gene is not detected in most samples.
- Anaerobic benzene carboxylase (ABC) and naphthalene carboxylase (ANC) genes were also detected indicating the presence of bacterial populations capable of anaerobic biodegradation of benzene and naphthalene.
- For newly identified genes like ABC and ANC, estimated percentile ranks are not yet available due to the limited number of field samples that have been analyzed to date.
- However, like MNSSA and other genes involved in anaerobic hydrocarbon biodegradation, ABC and ANC detection frequencies are relatively low so the detection of these genes even at low concentrations should be considered when evaluating biodegradation potential under existing site conditions.

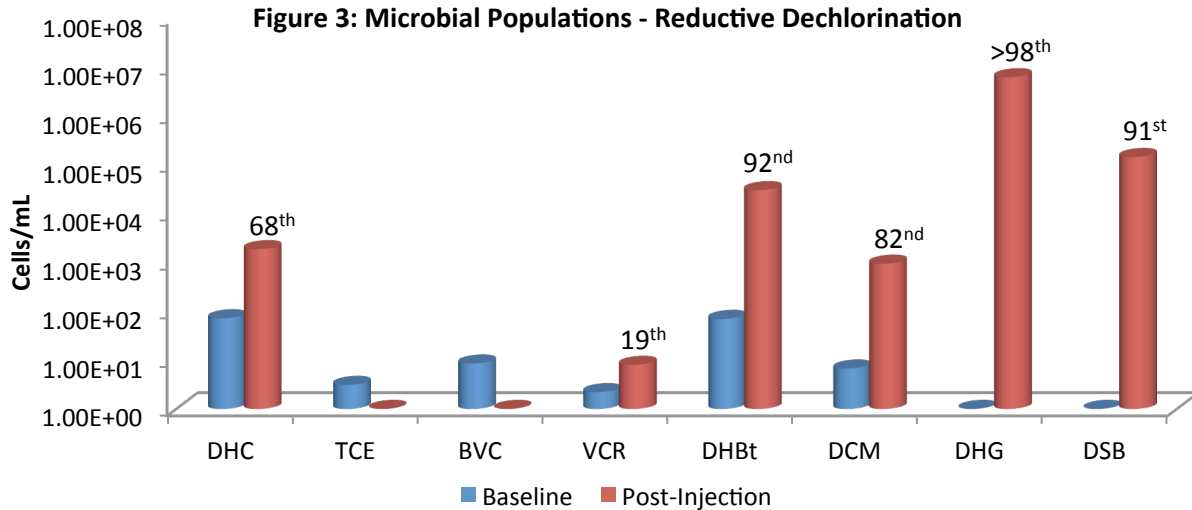


Aerobic BTEX and MTBE Biodegradation (Figure 2):

- With growing evidence that aromatic oxygenases function at low dissolved oxygen concentrations, aerobic BTEX biodegradation pathways should also be evaluated when considering MNA.
- Again, the QuantArray-Petro results were encouraging – genes encoding the first step in multiple pathways for aerobic BTEX biodegradation were detected indicating the presence of a diverse population of aerobic BTEX degraders.
- However, aerobic BTEX degraders are often considered ubiquitous. Therefore answering the question “Is that low, medium or high?” becomes especially important when evaluating aerobic BTEX biodegradation at petroleum hydrocarbon sites.
- In this case, the estimated percentile ranks of the concentrations of toluene/benzene monooxygenase (RMO and RDEG) and phenol hydroxylase (PHE) genes ranged from the 64th to 73rd percentile.
- In other words, the concentrations of RMO, RDEG, and PHE detected in this groundwater sample were greater than the concentrations detected in 64% to 73% of all other groundwater samples where these genes were analyzed and detected above the PQL.
- Aerobic BTEX degraders are common in the environment, but in this sample concentrations of toluene/benzene monooxygenase genes could be viewed as “better than average” when compared to the MI Database.

Biostimulation – Chlorinated Solvent Site:

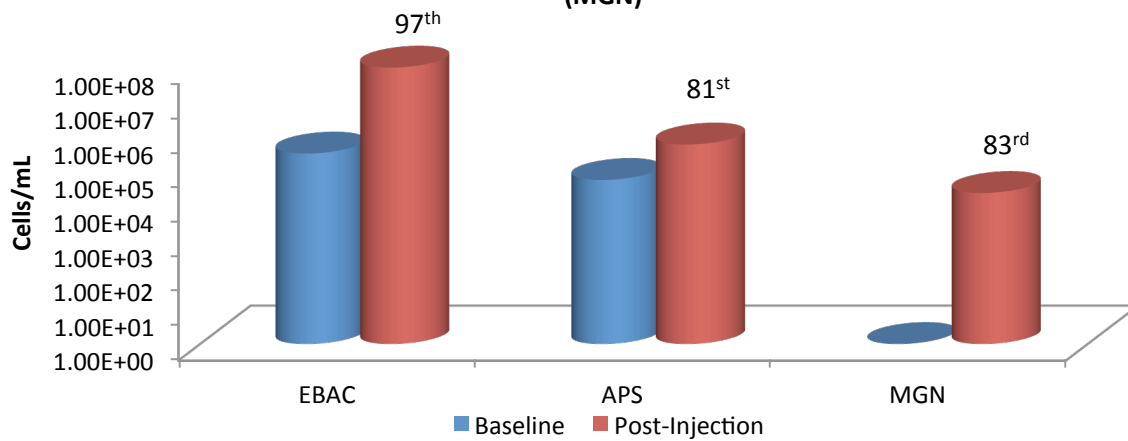
Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between baseline and post-injection monitoring events as shown below (Figure 3). The estimated percentile ranks however provide an additional avenue for comparison and evaluation of remedy performance.



- During the baseline groundwater sampling event, *Dehalococcoides* and vinyl chloride reductase genes were detected indicating the potential for complete reductive dechlorination of PCE and TCE to ethene.
- However, the *Dehalococcoides* concentration was well below the 10^4 cells/mL recommended by Lu et al. (2006) for generally effective rates of reductive dechlorination.
- Based on qPCR results as well as traditional groundwater monitoring, biostimulation with electron donor addition was selected as the site management plan.
- By the first monitoring event after injection, populations of halorespiring bacteria had increased substantially in response to electron donor addition.
 - *Dehalobacter* populations increased by more than two orders of magnitude to post-injection concentrations greater than 10^4 cells/mL (92nd percentile).
 - *Dehalogenimonas* (10^6 cells/mL) and *Desulfitobacterium* (10^5 cells/mL) which had not been detected prior electron donor addition were present at concentrations greater than observed in over 90% of other groundwater samples where these halorespiring bacteria were detected.
- After injection, *Dehalococcoides* populations increased by more than an order of magnitude to a concentration of over 10^3 cells/mL (68th percentile) demonstrating growth of this key group of halorespiring bacteria.
- Despite a substantial increase and a “better than average” concentration, the *Dehalococcoides* population was still below the 10^4 cells/mL threshold and vinyl chloride reductase gene copies were low (19th percentile).
 - In terms of electron donors and acceptors, the metabolic capabilities of *Dehalococcoides* are rather specialized (hydrogen utilizing obligate halorespiring bacteria) so the median concentration is low. With a low median concentration across the database, a “better than average” *Dehalococcoides* concentration in a given sample may not exceed the 10^4 cells/mL threshold established for effective reductive dechlorination (Lu et al. 2006) and ethene production (Microbial Insights, unpublished data).

- In this case, the initial growth of *Dehalococcoides* was substantial but may have been somewhat hindered by competition with sulfate reducing bacteria (Figure 4 below).
 - The baseline population of sulfate reducing bacteria was moderate (10^4 cells/mL; 63rd percentile). Consistent with an observed decreased in dissolved sulfate concentrations, populations of sulfate reducing bacteria increased and were detected at a relatively high concentration (81st percentile) after electron donor addition.
 - After injection, methanogen populations also increased to a relatively high concentration (83rd percentile) suggesting generation of methanogenic conditions.
- With sulfate depletion and generation of highly anaerobic conditions more conducive to reductive dechlorination, *Dehalococcoides* populations may continue to increase and exceed the 10^4 *Dehalococcoides* cells/mL threshold in subsequent monitoring events.
- Overall, QuantArray analysis conclusively demonstrated that electron donor addition stimulated growth of halorespiring bacteria with the estimated percentiles retrieved from the MI Database providing the “low, medium or high” perspective to the observed changes in microbial populations.

Figure 4: Total Bacteria (EBAC), Sulfate Reducing Bacteria (APS) and Methanogens (MGN)



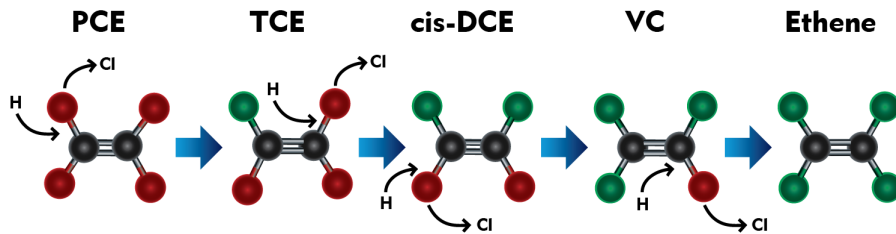
References

Lu, X., J.T. Wilson, and D.H. Kampbell. 2006. Relationship between *Dehalococcoides* DNA in ground water and rates of reductive dechlorination at field scale. *Water Research* 40 no. 16: 3131-3140.

DHC Interpretation

Dehalococcoides 16S rRNA gene (qDHC)

Under anaerobic conditions, tetrachloroethene (PCE) and trichloroethene (TCE) can undergo sequential reductive dechlorination through the daughter products *cis*-dichloroethene (*cis*-DCE) and vinyl chloride to nontoxic ethene (1,2).



While a number of bacterial cultures capable of utilizing PCE and TCE as growth supporting electron acceptors have been isolated (3-7), *Dehalococcoides* spp. may be the most important because they are the only bacterial group that has been isolated to date which is capable of complete reductive dechlorination of PCE to ethene (8). In fact, the presence of *Dehalococcoides* spp. has been associated with complete dechlorination to ethene at sites across North America and Europe (9).

Status	<i>Dehalococcoides</i> spp.	Observation
	$\geq 10^4$ (cells/mL)	Lu et al. proposed that a concentration of 1×10^4 DHC cells/mL could be used as a screening criterion to identify sites where reductive dechlorination will yield a generally useful biodegradation rate (10). Similarly, in an internal study conducted with nearly 1000 groundwater samples obtained from sites across the US, ethene production was observed in approximately 80% of samples in which CENSUS® qDHC results were greater than or equal to 10^4 DHC cells/mL.
	10^1 to $< 10^4$ (cells/mL)	When vinyl chloride reductase genes (See DHC functional genes discussion below) are also detected, complete reductive dechlorination of PCE and TCE to ethene may still occur even with moderate DHC concentrations. When the DHC population is below the 10^4 cells/mL criterion proposed by Lu et al. (10), project managers should carefully consider other site-specific data to determine whether subsurface conditions may be limiting reductive dechlorination. For example, the addition of an electron donor may be able to stimulate DHC growth and enhance anaerobic bioremediation.
	$< 10^1$ (cells/mL)	DHC concentrations are low suggesting that complete reductive dechlorination of PCE and TCE to ethene is unlikely to occur under existing conditions. Enhanced anaerobic bioremediation options (biostimulation or bioaugmentation) may need to be considered.

DHC Functional Genes (*tceA*, *bvcA*, *vcrA*)

A “stall” where daughter products *cis*-DCE and vinyl chloride accumulate can occur at PCE- and TCE-impacted sites especially under MNA conditions. The accumulation of vinyl chloride, generally considered more carcinogenic than the parent compounds, is particularly problematic. Although elevated *Dehalococcoides* concentrations correspond to ethene production in numerous studies, the range of chlorinated ethenes metabolized and cometabolized varies among species and strains within the *Dehalococcoides* genus. For example, *Dehalococcoides ethenogenes* str. 195 metabolizes PCE, TCE, and *cis*-DCE and cometabolizes vinyl chloride (8) to produce ethene. Conversely, *Dehalococcoides* sp. CBDB1 utilizes PCE and TCE but does not cometabolize additional chloroethenes (11). Other *Dehalococcoides* strains, such as BAV1, GT and VS, are known to fully dechlorinate *cis*-DCE and VC to ethene (14,16,19). Quantification of reductive dehalogenase genes is used to more definitively confirm the potential for reductive dechlorination of TCE, *cis*-DCE, and vinyl chloride (12-15).

Functional Gene	Observation
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TCE Reductase

<i>tceA</i> gene	<p>The <i>tceA</i> gene encodes the enzyme responsible for reductive dechlorination of TCE to <i>cis</i>-DCE in some strains of <i>Dehalococcoides</i>.</p> <p>Absence of <i>tceA</i> does not preclude the potential for reductive dechlorination of TCE in the field since the <i>tceA</i> gene is not universally distributed among all DHC and is not present in other microorganisms capable of reductive dechlorination of TCE (e.g. <i>Dehalobacter</i>).</p> <p>Detection of the <i>tceA</i> gene provides an additional line of evidence indicating the potential for dechlorination of TCE.</p>
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Vinyl Chloride Reductase

<i>bvcA</i> gene	<p>The <i>bvcA</i> gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of vinyl chloride to ethene by <i>Dehalococcoides</i> sp. str. BAV1 (16).</p> <p>Presence of <i>bvcA</i> gene indicates the potential for reductive dechlorination of VC to ethene.</p> <p>Absence of both <i>bvcA</i> and <i>vcrA</i> genes suggests VC may accumulate.</p> <p>An internal study with ~1,000 samples showed ethene production was observed in 80% of the samples that the DHC population was greater than or equal to 10⁴ cells/mL. The <i>bvcA</i> gene was detected in over 50% of these samples.</p> <p>Van Der Zaan et al (17) noted that the <i>bvcA</i> gene was the only VC reductase gene detected at three of their sites.</p> <p>Alfred Spormann’s laboratory at Stanford University (18) reported that the <i>bvcA</i> gene was the most abundant and active at the outflow of a PCE fed column study. This section of the column was in the DCE to VC stages of reductive dechlorination thus confirming the importance of the <i>bvcA</i> gene for complete reductive dechlorination.</p>
<i>vcrA</i> gene	<p>The <i>vcrA</i> gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of <i>cis</i>-DCE and vinyl chloride by <i>Dehalococcoides</i> sp. strain VS (14).</p> <p>Presence of <i>vcrA</i> gene indicates the potential for reductive dechlorination of DCE and/or VC to ethene.</p> <p>Absence of both <i>bvcA</i> and <i>vcrA</i> genes suggest VC may accumulate.</p> <p>As with the <i>bvcA</i> gene, detection of the <i>vcrA</i> gene is associated with ethene production in internal studies (67%) and vinyl chloride reduction in independent studies (14, 17).</p>

Reporting

Microbial Insights can provide a variety of data packages and reporting levels to suit the needs of any project. Data packages range from simple analytical reports with results only to more complex data packages that include a report narrative, analytical results, QC data, and supporting materials including all raw data and chain-of-custody documentation. The figure below shows our standard report and explains the way values are reported.

Microbial Insights, Inc.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
 Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: Company Name	MI Project Number: Unique Laboratory Identifier
Project: Your Project Name	Date Received: Date Samples Arrived

Sample Information

Client Sample ID:	Sample A	Sample B	Sample C
Sample Date:	00/00/0000	00/00/0000	00/00/0000
Units:	cells/mL	cells/mL	cells/mL
Analyst:	Intials	Intials	Intials

Dechlorinating Bacteria

Dechlorinating Bacteria	DHC	Sample A	Sample B	Sample C
<i>Dehalococcoides spp.</i>		1.84E+05	2.76E+02	2.28E+01 (J)

Functional Genes

Functional Genes	DHC	Sample A	Sample B	Sample C
tceA Reductase	TCE	6.00E+01	3.23E+01	<4.00E-01
bvcA Reductase	BVC	1.17E+04	1.81E+01	<4.00E-01
vcrA Reducatase	VCR	8.42E+04	1.74E+02	<4.00E-01

"J" value
 Result is an estimated value. This data qualifier (flag) is used when the target gene is detected but at a concentration or abundance below the practical quantification limit (PQL).

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL
 < = Result not detected

< value
 The target gene was not detected at the limit of quantitation (LOQ) reported for that sample.

I = Inhibited

"I" value
 QA Procedure indicated that the sample may have exhibited PCR inhibition. Although relatively rare, PCR inhibition can occur due to the presence of metals or humic acids at high concentrations in the sample.

Quality Assurance

Microbial Insights' comprehensive Quality Assurance (QA) Program is the foundation of all laboratory analyses, ensuring that our clients receive high-quality analytical services that are timely, reliable, and meet their intended purpose in a cost effective manner. MI is committed to providing quality data that surpasses regulatory and industry standards, thus enabling the client to make well-informed decisions. MI maintains strict standard operating procedures and QA/QC measures throughout all of the analyses offered. The following Table details specific QA/QC procedures that are used for CENSUS.

QA/QC	Description
Date of Extraction	DNA and RNA extractions are performed the day the samples are received by MI to minimize the possibility of any changes to the microbial community prior to analysis.
Laboratory Method Blanks	An extraction blank (no sample added) is processed alongside each set of field samples from DNA extraction through CENSUS® analysis to ensure that cross contamination has not occurred. Although MI has never experienced this issue, the detection of the CENSUS® target (e.g. <i>Dehalococcoides</i>) in an extraction blank is direct evidence of cross contamination with a sample or contamination of a reagent and would invalidate the results. If this were to occur, MI would re-extract the sample. If not possible to re-extract, MI would contact the client immediately and notate it on the laboratory report.
Laboratory Control Samples (LCS)	A laboratory control sample (LCS) or positive control (target DNA) is included with each CENSUS® plate to confirm amplification and as a continuing calibration check.
Negative Controls	A negative control (no DNA) is included with each CENSUS plate to ensure that cross contamination has not occurred during amplification. As with the extraction blank, detection of CENSUS target (e.g. DHC) in a negative control is direct evidence of contamination and would invalidate the results. If this were to occur, MI would rerun the analysis.

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How to Retrieve and Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database

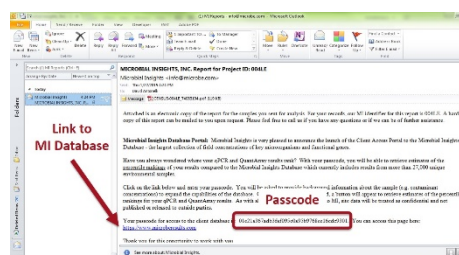
The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 40,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide.

Is that low, medium or high?

In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. The estimated percentile ranks retrieved from the MI Database answer the question “Is that low, medium or high?” by comparing your results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Retrieving Estimated Percentile Ranks

With your report, you were emailed a passcode and link enabling you to login to the Client Portal. Just enter basic information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations and you can retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge.



Well ID	Sample ID	Sample Date	Analysis Method	Run ID	CAS #	Analyte	Concentration	Units	Notes
MW1	MW1Q4	10/28/2014	SW8260B	1	107-06-2	1,2-Dichloroethane	21	5	UG/L
MW1	MW1Q4	10/28/2014	SW8260B	1	156-59-2	cis-1,2-Dichloroethene	25	5	UG/L
MW1	MW1Q4	10/28/2014	SW8260B	1		trans-1,2-Dichloroethene	5.8	5	UG/L
MW1	MW1Q4	10/28/2014	SW8260B	1	127-1				
MW1	MW1Q4	10/28/2014	SW8260B	1	67-66				
MW1	MW1Q4	10/28/2014	SW8260B	1	75-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	107-07				
MW2	MW2Q4	11/6/2014	SW8260B	1	156-5				
MW2	MW2Q4	11/6/2014	SW8260B	1	123-9				
MW2	MW2Q4	11/6/2014	SW8260B	1	127-1				
MW2	MW2Q4	11/6/2014	SW8260B	2	79-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	67-66				
MW2	MW2Q4	11/6/2014	SW8260B	1	75-01				

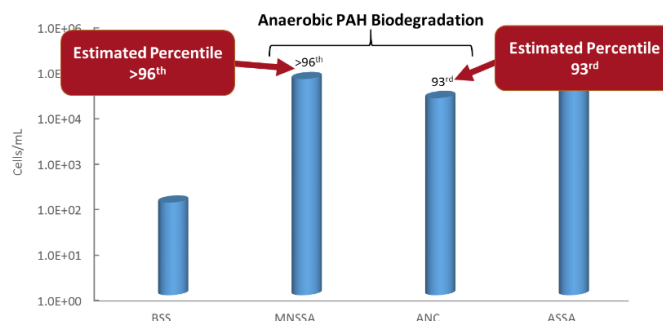
All site specific data will be treated as confidential and uploading is easy.

You can even upload chemical and geochemical data from EDDs. Just save as a Tab Delimited text file.

Example - Using Estimated Percentile for MNA Assessment at an MGP Site

CENSUS® qPCR was performed to quantify anaerobic naphthalene carboxylase (ANC) and naphthyl-2-methylsuccinate synthase (MNSSA) to assess anaerobic biodegradation of naphthalene and methyl-naphthalene under existing site conditions.

- Not only were ANC and MNSSA genes detected, but these functional genes responsible for anaerobic biodegradation of PAHs were present at concentrations “far better than average” based on the estimated percentile ranks.
- Demonstrating high concentrations of ANC and MNSSA gave an additional line of evidence indicating growth substantial populations of anaerobic PAH degraders and suggested a greater probability that monitored natural attenuation (MNA) will be successful.





10515 Research Drive
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133

Client: John McFadden
Test America
4101 Shuffel Street NW
North Canton, OH 44720

Phone:

Fax:

Identifier: 070NF

Date Rec: 06/15/2016

Report Date: 06/24/2016

Client Project #: 24015639

Client Project Name: MRC 2016 GW

Purchase Order #: TA Job #240-65988-1

Analysis Requested: CENSUS

Reviewed By:

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

Client: Test America
Project: MRC 2016 GW

MI Project Number: 070NF
Date Received: 06/15/2016

Sample Information

Client Sample ID:	MW-81B-061316 (240-65988-2)	NMW-1I-061316 (240-65988-3)
Sample Date:	06/13/2016	06/13/2016
Units:	cells/mL	cells/mL
Analyst:	CB	CB

Dechlorinating Bacteria

<i>Dehalococcoides</i>	<i>DHC</i>	1.16E+05	2.99E+02
tceA Reductase	TCE	<4.00E-01	<4.00E-01
BAV1 Vinyl Chloride Reductase	BVC	2.46E+02	1.20E+00
Vinyl Chloride Reductase	VCR	9.76E+04	1.37E+01
<i>Dehalobacter spp.</i>	<i>DHBt</i>	3.54E+04	1.79E+04

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected

Quality Assurance/Quality Control Data

Samples Received 6/15/2016

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	06/15/2016	06/21/2016	1 °C	110%	non-detect	non-detect
BVC	06/15/2016	06/21/2016	1 °C	104%	non-detect	non-detect
DHBt	06/15/2016	06/21/2016	1 °C	102%	non-detect	non-detect
TCE	06/15/2016	06/21/2016	1 °C	109%	non-detect	non-detect
VCR	06/15/2016	06/21/2016	1 °C	105%	non-detect	non-detect

Shipping and Receiving Documents

1.7/2.7

Serial Number 114319

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica


BALTIMORE

Website: www.testamericainc.com
 Phone: (912) 354-7858
 Fax: (912) 352-0165

TestAmerica Savannah
 5102 LaRoche Avenue
 Savannah, GA 31404

Alternate Laboratory Name/Location

THE LEADER IN ENVIRONMENTAL TESTING

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE	OF
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)		1	1
CLIENT (SITE) PM Tory Apantaku	CLIENT PHONE 301 528-3021	CLIENT FAX	AIR		STANDARD REPORT DELIVERY	
CLIENT NAME Tetra Tech	CLIENT E-MAIL		SOLID OR SEMISOLID		DATE DUE	
CLIENT ADDRESS 20251 Century Blvd Germantown, MD			AQUEOUS (WATER)		EXPEDITED REPORT DELIVERY (SURCHARGE)	
COMPANY CONTRACTING THIS WORK (if applicable)			COMPOSITE (C) OR GRAB (G) INDICATE		DATE DUE	
					NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	
SAMPLE	DATE	TIME	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED	REMARKS	
6-13-16			TB-061316	2		
1346			MW-81B-061316	3		DHC ship to
1508			NMW-1I-061316	3		Another Lab
 240-65988 Chain of Custody						
RELINQUISHED BY: (SIGNATURE) Walt P.	DATE 6-13-16	TIME 1600	RECEIVED BY: (SIGNATURE) Walt P.	DATE 6/13/16	TIME 1702	RELINQUISHED BY: (SIGNATURE)
RECEIVED BY: (SIGNATURE) Walt P.	DATE 6/13/16	TIME 1600	RECEIVED BY: (SIGNATURE) Walt P.	DATE 6-14-16	TIME 920	RECEIVED BY: (SIGNATURE)
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	LABORATORY USE ONLY		
			CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS	

TestAmerica Canton Sample Receipt Form/Narrative

Login #: 65988

Canton Facility

Client Tetrach Site Name

Cooler unpacked by:

Cooler Received on 6-8-16 Opened on 6-14-16

[Signature]

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# IR-8... IR GUN #36... 2. Were custody seals on the outside of the cooler(s)?... 3. Shippers' packing slip attached to the cooler(s)?... 11. Are these work share samples?... 11. Were sample(s) at the correct pH upon receipt? pH Strip Lot# HC574756

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):

ANALYTICAL REPORT

Job Number: 240-66032-1

Job Description: MRC Block I GW Sampling

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
6/30/2016 2:47 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
06/30/2016

cc: Tony Apanavage
Samantha Brenner
Mike Martin
Tobrena Sedlmyer
Final Data Tracking

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.

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW, North Canton, OH 44720

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.
F2	MS/MSD RPD exceeds control limits

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MRC Block I GW Sampling

Report Number: 240-66032-1

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.

The BVC, DHBt, Dehalococoides, TCE and VCR analysis were performed at Microbial Insights.

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 6/15/2016 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TB-061416 (240-66032-1), NMW-2I-061416 (240-66032-2), NMW-2S-061416 (240-66032-3), NMW-3I-061416 (240-66032-4) and OUTFALL-9-061416 (240-66032-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 06/20/2016 and 06/21/2016.

Samples NMW-2I-061416 (240-66032-2)[125X], NMW-2S-061416 (240-66032-3)[40X] and NMW-3I-061416 (240-66032-4)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The continuing calibration verification (CCV) associated with batch 240-235221 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: TB-061416 (240-66032-1), NMW-2S-061416 (240-66032-3), NMW-3I-061416 (240-66032-4) and OUTFALL-9-061416 (240-66032-5).

The continuing calibration verification (CCV) associated with batch 240-235346 recovered above the upper control limit for Chloromethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: NMW-2I-061416 (240-66032-2).

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

DISSOLVED GASES

Samples NMW-2I-061416 (240-66032-2), NMW-2S-061416 (240-66032-3) and NMW-3I-061416 (240-66032-4) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 06/23/2016 and 06/24/2016.

Samples NMW-2I-061416 (240-66032-2)[5X], NMW-2S-061416 (240-66032-3)[5X] and NMW-3I-061416 (240-66032-4)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

TOTAL RECOVERABLE METALS (ICP)

Samples NMW-2I-061416 (240-66032-2), NMW-2S-061416 (240-66032-3), NMW-3I-061416 (240-66032-4) and OUTFALL-9-061416 (240-66032-5) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 06/16/2016 and analyzed on 06/17/2016.

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

ALKALINITY

Samples NMW-2I-061416 (240-66032-2), NMW-2S-061416 (240-66032-3), NMW-3I-061416 (240-66032-4) and OUTFALL-9-061416 (240-66032-5) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 06/17/2016.

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

TOTAL DISSOLVED SOLIDS

Samples NMW-2I-061416 (240-66032-2), NMW-2S-061416 (240-66032-3), NMW-3I-061416 (240-66032-4) and OUTFALL-9-061416 (240-66032-5) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 06/17/2016.

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

ANIONS

Samples NMW-2I-061416 (240-66032-2), NMW-2S-061416 (240-66032-3), NMW-3I-061416 (240-66032-4) and OUTFALL-9-061416 (240-66032-5) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 06/21/2016.

Sample OUTFALL-9-061416 (240-66032-5)[25X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

TOTAL ORGANIC CARBON

Samples NMW-2I-061416 (240-66032-2), NMW-2S-061416 (240-66032-3), NMW-3I-061416 (240-66032-4) and OUTFALL-9-061416 (240-66032-5) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 06/23/2016.

Samples NMW-2S-061416 (240-66032-3)[2X] and NMW-3I-061416 (240-66032-4)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: TB-061416

Lab Sample ID: 240-66032-1

No Detections.

Client Sample ID: NMW-2I-061416

Lab Sample ID: 240-66032-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	58	J	130	56	ug/L	125		8260C	Total/NA
cis-1,2-Dichloroethene	3100		130	33	ug/L	125		8260C	Total/NA
Trichloroethene	3500		130	28	ug/L	125		8260C	Total/NA
Vinyl chloride	290		130	36	ug/L	125		8260C	Total/NA
Ethene	31		0.50	0.13	ug/L	1		RSK-175	Total/NA
Ethane	1.8		0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	2800		2.5	0.40	ug/L	5		RSK-175	Total/NA
Iron	30000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	4200		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	74		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	1.6		1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	0.81	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	0.82	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	0.91	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	0.82	J	1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	0.84	J	1.0	0.080	mg/L	1		9060A	Total/NA
Total Dissolved Solids	230		10	7.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: NMW-2S-061416

Lab Sample ID: 240-66032-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	520		40	10	ug/L	40		8260C	Total/NA
Trichloroethene	74		40	8.8	ug/L	40		8260C	Total/NA
Vinyl chloride	130		40	12	ug/L	40		8260C	Total/NA
Ethene	18		0.50	0.13	ug/L	1		RSK-175	Total/NA
Ethane	8.5		0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	6300		2.5	0.40	ug/L	5		RSK-175	Total/NA
Iron	110000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	4900		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	170		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	19		1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	7.8		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 2	7.6		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 3	7.8		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 4	7.6		2.0	0.16	mg/L	2		9060A	Total/NA
Total Organic Carbon	7.7		2.0	0.16	mg/L	2		9060A	Total/NA
Total Dissolved Solids	450		10	7.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: NMW-3I-061416

Lab Sample ID: 240-66032-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1100		100	26	ug/L	100		8260C	Total/NA
Vinyl chloride	250		100	29	ug/L	100		8260C	Total/NA
Ethene	120		0.50	0.13	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: NMW-3I-061416 (Continued)

Lab Sample ID: 240-66032-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethane	63		0.50	0.14	ug/L	1		RSK-175	Total/NA
Methane	6700		5.0	0.80	ug/L	10		RSK-175	Total/NA
Iron	160000		100	25	ug/L	1		6010C	Total Recoverable
Manganese	6800		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	140		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	3.4		1.0	0.13	mg/L	1		300.0	Total/NA
TOC Result 1	9.0		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 2	8.6		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 3	8.9		2.0	0.16	mg/L	2		9060A	Total/NA
TOC Result 4	8.7		2.0	0.16	mg/L	2		9060A	Total/NA
Total Organic Carbon	8.8		2.0	0.16	mg/L	2		9060A	Total/NA
Total Dissolved Solids	680		10	7.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: OUTFALL-9-061416

Lab Sample ID: 240-66032-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.22	J	1.0	0.22	ug/L	1		8260C	Total/NA
Iron	90	J	100	25	ug/L	1		6010C	Total Recoverable
Manganese	200		15	5.1	ug/L	1		6010C	Total Recoverable
Alkalinity	42		5.0	1.9	mg/L	1		2320B-1997	Total/NA
Sulfate	260		25	3.3	mg/L	25		300.0	Total/NA
TOC Result 1	1.3		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 2	0.95	J	1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 3	1.1		1.0	0.080	mg/L	1		9060A	Total/NA
TOC Result 4	0.93	J	1.0	0.080	mg/L	1		9060A	Total/NA
Total Organic Carbon	1.1		1.0	0.080	mg/L	1		9060A	Total/NA
Total Dissolved Solids	2900		50	37	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: TB-061416

Lab Sample ID: 240-66032-1

Date Collected: 06/14/16 00:00

Matrix: Water

Date Received: 06/15/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			06/20/16 19:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			06/20/16 19:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			06/20/16 19:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/20/16 19:58	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			06/20/16 19:58	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			06/20/16 19:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			06/20/16 19:58	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			06/20/16 19:58	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			06/20/16 19:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			06/20/16 19:58	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			06/20/16 19:58	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			06/20/16 19:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			06/20/16 19:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			06/20/16 19:58	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			06/20/16 19:58	1
2-Hexanone	10	U	10	0.48	ug/L			06/20/16 19:58	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			06/20/16 19:58	1
Acetone	10	U	10	0.94	ug/L			06/20/16 19:58	1
Benzene	1.0	U	1.0	0.35	ug/L			06/20/16 19:58	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			06/20/16 19:58	1
Bromoform	1.0	U	1.0	0.56	ug/L			06/20/16 19:58	1
Bromomethane	1.0	U	1.0	0.44	ug/L			06/20/16 19:58	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			06/20/16 19:58	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			06/20/16 19:58	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			06/20/16 19:58	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/20/16 19:58	1
Chloroform	1.0	U	1.0	0.25	ug/L			06/20/16 19:58	1
Chloromethane	1.0	U	1.0	0.44	ug/L			06/20/16 19:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			06/20/16 19:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			06/20/16 19:58	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			06/20/16 19:58	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			06/20/16 19:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			06/20/16 19:58	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			06/20/16 19:58	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			06/20/16 19:58	1
Methyl acetate	10	U	10	2.3	ug/L			06/20/16 19:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			06/20/16 19:58	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			06/20/16 19:58	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			06/20/16 19:58	1
Styrene	1.0	U	1.0	0.45	ug/L			06/20/16 19:58	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			06/20/16 19:58	1
Toluene	1.0	U	1.0	0.23	ug/L			06/20/16 19:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			06/20/16 19:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			06/20/16 19:58	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			06/20/16 19:58	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			06/20/16 19:58	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			06/20/16 19:58	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			06/20/16 19:58	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: TB-061416

Lab Sample ID: 240-66032-1

Date Collected: 06/14/16 00:00

Matrix: Water

Date Received: 06/15/16 09:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		06/20/16 19:58	1
Dibromofluoromethane (Surr)	94		79 - 120		06/20/16 19:58	1
4-Bromofluorobenzene (Surr)	96		61 - 120		06/20/16 19:58	1
1,2-Dichloroethane-d4 (Surr)	95		78 - 125		06/20/16 19:58	1

Client Sample ID: NMW-2I-061416

Lab Sample ID: 240-66032-2

Date Collected: 06/14/16 10:17

Matrix: Water

Date Received: 06/15/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	130	U	130	55	ug/L			06/21/16 14:20	125
1,1,2,2-Tetrachloroethane	130	U	130	28	ug/L			06/21/16 14:20	125
1,1,2-Trichloro-1,2,2-trifluoroethane	130	U	130	56	ug/L			06/21/16 14:20	125
1,1,2-Trichloroethane	130	U	130	30	ug/L			06/21/16 14:20	125
1,1-Dichloroethane	130	U	130	38	ug/L			06/21/16 14:20	125
1,1-Dichloroethene	58	J	130	56	ug/L			06/21/16 14:20	125
1,2,4-Trichlorobenzene	130	U	130	40	ug/L			06/21/16 14:20	125
1,2-Dibromo-3-Chloropropane	250	U	250	100	ug/L			06/21/16 14:20	125
Ethylene Dibromide	130	U	130	40	ug/L			06/21/16 14:20	125
1,2-Dichlorobenzene	130	U	130	31	ug/L			06/21/16 14:20	125
1,2-Dichloroethane	130	U	130	29	ug/L			06/21/16 14:20	125
1,2-Dichloropropane	130	U	130	31	ug/L			06/21/16 14:20	125
1,3-Dichlorobenzene	130	U	130	24	ug/L			06/21/16 14:20	125
1,4-Dichlorobenzene	130	U	130	34	ug/L			06/21/16 14:20	125
2-Butanone (MEK)	1300	U	1300	66	ug/L			06/21/16 14:20	125
2-Hexanone	1300	U	1300	60	ug/L			06/21/16 14:20	125
4-Methyl-2-pentanone (MIBK)	1300	U	1300	120	ug/L			06/21/16 14:20	125
Acetone	1300	U	1300	120	ug/L			06/21/16 14:20	125
Benzene	130	U	130	44	ug/L			06/21/16 14:20	125
Dichlorobromomethane	130	U	130	36	ug/L			06/21/16 14:20	125
Bromoform	130	U	130	70	ug/L			06/21/16 14:20	125
Bromomethane	130	U F2	130	55	ug/L			06/21/16 14:20	125
Carbon disulfide	130	U	130	48	ug/L			06/21/16 14:20	125
Carbon tetrachloride	130	U	130	54	ug/L			06/21/16 14:20	125
Chlorobenzene	130	U	130	31	ug/L			06/21/16 14:20	125
Chloroethane	130	U	130	40	ug/L			06/21/16 14:20	125
Chloroform	130	U	130	31	ug/L			06/21/16 14:20	125
Chloromethane	130	U	130	55	ug/L			06/21/16 14:20	125
cis-1,2-Dichloroethene	3100		130	33	ug/L			06/21/16 14:20	125
cis-1,3-Dichloropropene	130	U	130	58	ug/L			06/21/16 14:20	125
Cyclohexane	130	U	130	56	ug/L			06/21/16 14:20	125
Chlorodibromomethane	130	U	130	54	ug/L			06/21/16 14:20	125
Dichlorodifluoromethane	130	U	130	40	ug/L			06/21/16 14:20	125
Ethylbenzene	130	U	130	31	ug/L			06/21/16 14:20	125
Isopropylbenzene	130	U	130	44	ug/L			06/21/16 14:20	125
Methyl acetate	1300	U	1300	280	ug/L			06/21/16 14:20	125
Methyl tert-butyl ether	130	U	130	25	ug/L			06/21/16 14:20	125
Methylcyclohexane	130	U	130	54	ug/L			06/21/16 14:20	125
Methylene Chloride	130	U	130	41	ug/L			06/21/16 14:20	125

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: NMW-2I-061416

Lab Sample ID: 240-66032-2

Date Collected: 06/14/16 10:17

Matrix: Water

Date Received: 06/15/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	130	U	130	56	ug/L			06/21/16 14:20	125
Tetrachloroethene	130	U	130	39	ug/L			06/21/16 14:20	125
Toluene	130	U	130	29	ug/L			06/21/16 14:20	125
trans-1,2-Dichloroethene	130	U	130	38	ug/L			06/21/16 14:20	125
trans-1,3-Dichloropropene	130	U	130	70	ug/L			06/21/16 14:20	125
Trichloroethene	3500		130	28	ug/L			06/21/16 14:20	125
Trichlorofluoromethane	130	U	130	61	ug/L			06/21/16 14:20	125
Vinyl chloride	290		130	36	ug/L			06/21/16 14:20	125
Xylenes, Total	250	U	250	65	ug/L			06/21/16 14:20	125

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	100		80 - 120		06/21/16 14:20	125
<i>Dibromofluoromethane (Surr)</i>	94		79 - 120		06/21/16 14:20	125
<i>4-Bromofluorobenzene (Surr)</i>	95		61 - 120		06/21/16 14:20	125
<i>1,2-Dichloroethane-d4 (Surr)</i>	94		78 - 125		06/21/16 14:20	125

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	31		0.50	0.13	ug/L			06/23/16 19:13	1
Ethane	1.8		0.50	0.14	ug/L			06/23/16 19:13	1
Methane	2800		2.5	0.40	ug/L			06/24/16 17:32	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,1,1-Trifluoroethane</i>	93		76 - 121		06/23/16 19:13	1
<i>1,1,1-Trifluoroethane</i>	103		76 - 121		06/24/16 17:32	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	30000		100	25	ug/L		06/16/16 10:46	06/17/16 12:41	1
Manganese	4200		15	5.1	ug/L		06/16/16 10:46	06/17/16 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	74		5.0	1.9	mg/L			06/17/16 12:30	1
Sulfate	1.6		1.0	0.13	mg/L			06/21/16 04:06	1
TOC Result 1	0.81	J	1.0	0.080	mg/L			06/23/16 11:39	1
TOC Result 2	0.82	J	1.0	0.080	mg/L			06/23/16 11:39	1
TOC Result 3	0.91	J	1.0	0.080	mg/L			06/23/16 11:39	1
TOC Result 4	0.82	J	1.0	0.080	mg/L			06/23/16 11:39	1
Total Organic Carbon	0.84	J	1.0	0.080	mg/L			06/23/16 11:39	1
Total Dissolved Solids	230		10	7.4	mg/L			06/17/16 10:19	1

Client Sample ID: NMW-2S-061416

Lab Sample ID: 240-66032-3

Date Collected: 06/14/16 14:40

Matrix: Water

Date Received: 06/15/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	40	U	40	18	ug/L			06/20/16 20:43	40
1,1,2,2-Tetrachloroethane	40	U	40	8.8	ug/L			06/20/16 20:43	40
1,1,2-Trichloro-1,2,2-trifluoroethane	40	U	40	18	ug/L			06/20/16 20:43	40

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: NMW-2S-061416

Lab Sample ID: 240-66032-3

Date Collected: 06/14/16 14:40

Matrix: Water

Date Received: 06/15/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	40	U	40	9.6	ug/L			06/20/16 20:43	40
1,1-Dichloroethane	40	U	40	12	ug/L			06/20/16 20:43	40
1,1-Dichloroethene	40	U	40	18	ug/L			06/20/16 20:43	40
1,2,4-Trichlorobenzene	40	U	40	13	ug/L			06/20/16 20:43	40
1,2-Dibromo-3-Chloropropane	80	U	80	33	ug/L			06/20/16 20:43	40
Ethylene Dibromide	40	U	40	13	ug/L			06/20/16 20:43	40
1,2-Dichlorobenzene	40	U	40	10	ug/L			06/20/16 20:43	40
1,2-Dichloroethane	40	U	40	9.2	ug/L			06/20/16 20:43	40
1,2-Dichloropropane	40	U	40	10	ug/L			06/20/16 20:43	40
1,3-Dichlorobenzene	40	U	40	7.6	ug/L			06/20/16 20:43	40
1,4-Dichlorobenzene	40	U	40	11	ug/L			06/20/16 20:43	40
2-Butanone (MEK)	400	U	400	21	ug/L			06/20/16 20:43	40
2-Hexanone	400	U	400	19	ug/L			06/20/16 20:43	40
4-Methyl-2-pentanone (MIBK)	400	U	400	40	ug/L			06/20/16 20:43	40
Acetone	400	U	400	38	ug/L			06/20/16 20:43	40
Benzene	40	U	40	14	ug/L			06/20/16 20:43	40
Dichlorobromomethane	40	U	40	12	ug/L			06/20/16 20:43	40
Bromoform	40	U	40	22	ug/L			06/20/16 20:43	40
Bromomethane	40	U	40	18	ug/L			06/20/16 20:43	40
Carbon disulfide	40	U	40	15	ug/L			06/20/16 20:43	40
Carbon tetrachloride	40	U	40	17	ug/L			06/20/16 20:43	40
Chlorobenzene	40	U	40	10	ug/L			06/20/16 20:43	40
Chloroethane	40	U	40	13	ug/L			06/20/16 20:43	40
Chloroform	40	U	40	10	ug/L			06/20/16 20:43	40
Chloromethane	40	U	40	18	ug/L			06/20/16 20:43	40
cis-1,2-Dichloroethene	520		40	10	ug/L			06/20/16 20:43	40
cis-1,3-Dichloropropene	40	U	40	18	ug/L			06/20/16 20:43	40
Cyclohexane	40	U	40	18	ug/L			06/20/16 20:43	40
Chlorodibromomethane	40	U	40	17	ug/L			06/20/16 20:43	40
Dichlorodifluoromethane	40	U	40	13	ug/L			06/20/16 20:43	40
Ethylbenzene	40	U	40	10	ug/L			06/20/16 20:43	40
Isopropylbenzene	40	U	40	14	ug/L			06/20/16 20:43	40
Methyl acetate	400	U	400	91	ug/L			06/20/16 20:43	40
Methyl tert-butyl ether	40	U	40	8.0	ug/L			06/20/16 20:43	40
Methylcyclohexane	40	U	40	17	ug/L			06/20/16 20:43	40
Methylene Chloride	40	U	40	13	ug/L			06/20/16 20:43	40
Styrene	40	U	40	18	ug/L			06/20/16 20:43	40
Tetrachloroethene	40	U	40	12	ug/L			06/20/16 20:43	40
Toluene	40	U	40	9.2	ug/L			06/20/16 20:43	40
trans-1,2-Dichloroethene	40	U	40	12	ug/L			06/20/16 20:43	40
trans-1,3-Dichloropropene	40	U	40	22	ug/L			06/20/16 20:43	40
Trichloroethene	74		40	8.8	ug/L			06/20/16 20:43	40
Trichlorofluoromethane	40	U	40	20	ug/L			06/20/16 20:43	40
Vinyl chloride	130		40	12	ug/L			06/20/16 20:43	40
Xylenes, Total	80	U	80	21	ug/L			06/20/16 20:43	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		06/20/16 20:43	40
Dibromofluoromethane (Surr)	95		79 - 120		06/20/16 20:43	40
4-Bromofluorobenzene (Surr)	98		61 - 120		06/20/16 20:43	40

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: NMW-2S-061416

Lab Sample ID: 240-66032-3

Date Collected: 06/14/16 14:40

Matrix: Water

Date Received: 06/15/16 09:10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		78 - 125		06/20/16 20:43	40

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	18		0.50	0.13	ug/L			06/23/16 19:30	1
Ethane	8.5		0.50	0.14	ug/L			06/23/16 19:30	1
Methane	6300		2.5	0.40	ug/L			06/24/16 18:06	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	97		76 - 121		06/23/16 19:30	1
1,1,1-Trifluoroethane	99		76 - 121		06/24/16 18:06	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	110000		100	25	ug/L		06/16/16 10:46	06/17/16 12:45	1
Manganese	4900		15	5.1	ug/L		06/16/16 10:46	06/17/16 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	170		5.0	1.9	mg/L			06/17/16 12:39	1
Sulfate	19		1.0	0.13	mg/L			06/21/16 04:23	1
TOC Result 1	7.8		2.0	0.16	mg/L			06/23/16 12:21	2
TOC Result 2	7.6		2.0	0.16	mg/L			06/23/16 12:21	2
TOC Result 3	7.8		2.0	0.16	mg/L			06/23/16 12:21	2
TOC Result 4	7.6		2.0	0.16	mg/L			06/23/16 12:21	2
Total Organic Carbon	7.7		2.0	0.16	mg/L			06/23/16 12:21	2
Total Dissolved Solids	450		10	7.4	mg/L			06/17/16 10:19	1

Client Sample ID: NMW-3I-061416

Lab Sample ID: 240-66032-4

Date Collected: 06/14/16 12:06

Matrix: Water

Date Received: 06/15/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U	100	44	ug/L			06/20/16 21:06	100
1,1,2,2-Tetrachloroethane	100	U	100	22	ug/L			06/20/16 21:06	100
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U	100	45	ug/L			06/20/16 21:06	100
1,1,2-Trichloroethane	100	U	100	24	ug/L			06/20/16 21:06	100
1,1-Dichloroethane	100	U	100	30	ug/L			06/20/16 21:06	100
1,1-Dichloroethene	100	U	100	45	ug/L			06/20/16 21:06	100
1,2,4-Trichlorobenzene	100	U	100	32	ug/L			06/20/16 21:06	100
1,2-Dibromo-3-Chloropropane	200	U	200	82	ug/L			06/20/16 21:06	100
Ethylene Dibromide	100	U	100	32	ug/L			06/20/16 21:06	100
1,2-Dichlorobenzene	100	U	100	25	ug/L			06/20/16 21:06	100
1,2-Dichloroethane	100	U	100	23	ug/L			06/20/16 21:06	100
1,2-Dichloropropane	100	U	100	25	ug/L			06/20/16 21:06	100
1,3-Dichlorobenzene	100	U	100	19	ug/L			06/20/16 21:06	100
1,4-Dichlorobenzene	100	U	100	27	ug/L			06/20/16 21:06	100
2-Butanone (MEK)	1000	U	1000	53	ug/L			06/20/16 21:06	100
2-Hexanone	1000	U	1000	48	ug/L			06/20/16 21:06	100

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: NMW-3I-061416

Lab Sample ID: 240-66032-4

Date Collected: 06/14/16 12:06

Matrix: Water

Date Received: 06/15/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	1000	U	1000	99	ug/L			06/20/16 21:06	100
Acetone	1000	U	1000	94	ug/L			06/20/16 21:06	100
Benzene	100	U	100	35	ug/L			06/20/16 21:06	100
Dichlorobromomethane	100	U	100	29	ug/L			06/20/16 21:06	100
Bromoform	100	U	100	56	ug/L			06/20/16 21:06	100
Bromomethane	100	U	100	44	ug/L			06/20/16 21:06	100
Carbon disulfide	100	U	100	38	ug/L			06/20/16 21:06	100
Carbon tetrachloride	100	U	100	43	ug/L			06/20/16 21:06	100
Chlorobenzene	100	U	100	25	ug/L			06/20/16 21:06	100
Chloroethane	100	U	100	32	ug/L			06/20/16 21:06	100
Chloroform	100	U	100	25	ug/L			06/20/16 21:06	100
Chloromethane	100	U	100	44	ug/L			06/20/16 21:06	100
cis-1,2-Dichloroethene	1100		100	26	ug/L			06/20/16 21:06	100
cis-1,3-Dichloropropene	100	U	100	46	ug/L			06/20/16 21:06	100
Cyclohexane	100	U	100	45	ug/L			06/20/16 21:06	100
Chlorodibromomethane	100	U	100	43	ug/L			06/20/16 21:06	100
Dichlorodifluoromethane	100	U	100	32	ug/L			06/20/16 21:06	100
Ethylbenzene	100	U	100	25	ug/L			06/20/16 21:06	100
Isopropylbenzene	100	U	100	35	ug/L			06/20/16 21:06	100
Methyl acetate	1000	U	1000	230	ug/L			06/20/16 21:06	100
Methyl tert-butyl ether	100	U	100	20	ug/L			06/20/16 21:06	100
Methylcyclohexane	100	U	100	43	ug/L			06/20/16 21:06	100
Methylene Chloride	100	U	100	33	ug/L			06/20/16 21:06	100
Styrene	100	U	100	45	ug/L			06/20/16 21:06	100
Tetrachloroethene	100	U	100	31	ug/L			06/20/16 21:06	100
Toluene	100	U	100	23	ug/L			06/20/16 21:06	100
trans-1,2-Dichloroethene	100	U	100	30	ug/L			06/20/16 21:06	100
trans-1,3-Dichloropropene	100	U	100	56	ug/L			06/20/16 21:06	100
Trichloroethene	100	U	100	22	ug/L			06/20/16 21:06	100
Trichlorofluoromethane	100	U	100	49	ug/L			06/20/16 21:06	100
Vinyl chloride	250		100	29	ug/L			06/20/16 21:06	100
Xylenes, Total	200	U	200	52	ug/L			06/20/16 21:06	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	104		80 - 120		06/20/16 21:06	100
<i>Dibromofluoromethane (Surr)</i>	99		79 - 120		06/20/16 21:06	100
<i>4-Bromofluorobenzene (Surr)</i>	101		61 - 120		06/20/16 21:06	100
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		78 - 125		06/20/16 21:06	100

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	120		0.50	0.13	ug/L			06/23/16 19:47	1
Ethane	63		0.50	0.14	ug/L			06/23/16 19:47	1
Methane	6700		5.0	0.80	ug/L			06/24/16 18:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,1,1-Trifluoroethane</i>	95		76 - 121		06/23/16 19:47	1
<i>1,1,1-Trifluoroethane</i>	98		76 - 121		06/24/16 18:23	10

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: NMW-3I-061416

Lab Sample ID: 240-66032-4

Date Collected: 06/14/16 12:06

Matrix: Water

Date Received: 06/15/16 09:10

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	160000		100	25	ug/L		06/16/16 10:46	06/17/16 12:50	1
Manganese	6800		15	5.1	ug/L		06/16/16 10:46	06/17/16 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	140		5.0	1.9	mg/L			06/17/16 12:49	1
Sulfate	3.4		1.0	0.13	mg/L			06/21/16 04:39	1
TOC Result 1	9.0		2.0	0.16	mg/L			06/23/16 12:48	2
TOC Result 2	8.6		2.0	0.16	mg/L			06/23/16 12:48	2
TOC Result 3	8.9		2.0	0.16	mg/L			06/23/16 12:48	2
TOC Result 4	8.7		2.0	0.16	mg/L			06/23/16 12:48	2
Total Organic Carbon	8.8		2.0	0.16	mg/L			06/23/16 12:48	2
Total Dissolved Solids	680		10	7.4	mg/L			06/17/16 10:19	1

Client Sample ID: OUTFALL-9-061416

Lab Sample ID: 240-66032-5

Date Collected: 06/14/16 14:00

Matrix: Water

Date Received: 06/15/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			06/20/16 21:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			06/20/16 21:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			06/20/16 21:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/20/16 21:29	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			06/20/16 21:29	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			06/20/16 21:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			06/20/16 21:29	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			06/20/16 21:29	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			06/20/16 21:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			06/20/16 21:29	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			06/20/16 21:29	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			06/20/16 21:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			06/20/16 21:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			06/20/16 21:29	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			06/20/16 21:29	1
2-Hexanone	10	U	10	0.48	ug/L			06/20/16 21:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			06/20/16 21:29	1
Acetone	10	U	10	0.94	ug/L			06/20/16 21:29	1
Benzene	1.0	U	1.0	0.35	ug/L			06/20/16 21:29	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			06/20/16 21:29	1
Bromoform	1.0	U	1.0	0.56	ug/L			06/20/16 21:29	1
Bromomethane	1.0	U	1.0	0.44	ug/L			06/20/16 21:29	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			06/20/16 21:29	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			06/20/16 21:29	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			06/20/16 21:29	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/20/16 21:29	1
Chloroform	1.0	U	1.0	0.25	ug/L			06/20/16 21:29	1
Chloromethane	1.0	U	1.0	0.44	ug/L			06/20/16 21:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			06/20/16 21:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			06/20/16 21:29	1

TestAmerica Canton

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: OUTFALL-9-061416

Lab Sample ID: 240-66032-5

Date Collected: 06/14/16 14:00

Matrix: Water

Date Received: 06/15/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	1.0	U	1.0	0.45	ug/L			06/20/16 21:29	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			06/20/16 21:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			06/20/16 21:29	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			06/20/16 21:29	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			06/20/16 21:29	1
Methyl acetate	10	U	10	2.3	ug/L			06/20/16 21:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			06/20/16 21:29	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			06/20/16 21:29	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			06/20/16 21:29	1
Styrene	1.0	U	1.0	0.45	ug/L			06/20/16 21:29	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			06/20/16 21:29	1
Toluene	1.0	U	1.0	0.23	ug/L			06/20/16 21:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			06/20/16 21:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			06/20/16 21:29	1
Trichloroethene	0.22	J	1.0	0.22	ug/L			06/20/16 21:29	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			06/20/16 21:29	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			06/20/16 21:29	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			06/20/16 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	105		80 - 120		06/20/16 21:29	1
<i>Dibromofluoromethane (Surr)</i>	94		79 - 120		06/20/16 21:29	1
<i>4-Bromofluorobenzene (Surr)</i>	99		61 - 120		06/20/16 21:29	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	94		78 - 125		06/20/16 21:29	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	90	J	100	25	ug/L		06/16/16 10:46	06/17/16 12:54	1
Manganese	200		15	5.1	ug/L		06/16/16 10:46	06/17/16 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	42		5.0	1.9	mg/L			06/17/16 13:00	1
Sulfate	260		25	3.3	mg/L			06/21/16 04:55	25
TOC Result 1	1.3		1.0	0.080	mg/L			06/23/16 13:13	1
TOC Result 2	0.95	J	1.0	0.080	mg/L			06/23/16 13:13	1
TOC Result 3	1.1		1.0	0.080	mg/L			06/23/16 13:13	1
TOC Result 4	0.93	J	1.0	0.080	mg/L			06/23/16 13:13	1
Total Organic Carbon	1.1		1.0	0.080	mg/L			06/23/16 13:13	1
Total Dissolved Solids	2900		50	37	mg/L			06/17/16 10:19	1

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

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

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	1.0	0.44	ug/L	8260C
1,1,1,2-Tetrachloroethane	1.0	0.22	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.45	ug/L	8260C
1,1,2-Trichloroethane	1.0	0.24	ug/L	8260C
1,1-Dichloroethane	1.0	0.30	ug/L	8260C
1,1-Dichloroethene	1.0	0.45	ug/L	8260C
1,2,4-Trichlorobenzene	1.0	0.32	ug/L	8260C
1,2-Dibromo-3-Chloropropane	2.0	0.82	ug/L	8260C
1,2-Dichlorobenzene	1.0	0.25	ug/L	8260C
1,2-Dichloroethane	1.0	0.23	ug/L	8260C
1,2-Dichloropropane	1.0	0.25	ug/L	8260C
1,3-Dichlorobenzene	1.0	0.19	ug/L	8260C
1,4-Dichlorobenzene	1.0	0.27	ug/L	8260C
2-Butanone (MEK)	10	0.53	ug/L	8260C
2-Hexanone	10	0.48	ug/L	8260C
4-Methyl-2-pentanone (MIBK)	10	0.99	ug/L	8260C
Acetone	10	0.94	ug/L	8260C
Benzene	1.0	0.35	ug/L	8260C
Bromoform	1.0	0.56	ug/L	8260C
Bromomethane	1.0	0.44	ug/L	8260C
Carbon disulfide	1.0	0.38	ug/L	8260C
Carbon tetrachloride	1.0	0.43	ug/L	8260C
Chlorobenzene	1.0	0.25	ug/L	8260C
Chlorodibromomethane	1.0	0.43	ug/L	8260C
Chloroethane	1.0	0.32	ug/L	8260C
Chloroform	1.0	0.25	ug/L	8260C
Chloromethane	1.0	0.44	ug/L	8260C
cis-1,2-Dichloroethene	1.0	0.26	ug/L	8260C
cis-1,3-Dichloropropene	1.0	0.46	ug/L	8260C
Cyclohexane	1.0	0.45	ug/L	8260C
Dichlorobromomethane	1.0	0.29	ug/L	8260C
Dichlorodifluoromethane	1.0	0.32	ug/L	8260C
Ethylbenzene	1.0	0.25	ug/L	8260C
Ethylene Dibromide	1.0	0.32	ug/L	8260C
Isopropylbenzene	1.0	0.35	ug/L	8260C
Methyl acetate	10	2.3	ug/L	8260C
Methyl tert-butyl ether	1.0	0.20	ug/L	8260C
Methylcyclohexane	1.0	0.43	ug/L	8260C
Methylene Chloride	1.0	0.33	ug/L	8260C
Styrene	1.0	0.45	ug/L	8260C
Tetrachloroethene	1.0	0.31	ug/L	8260C
Toluene	1.0	0.23	ug/L	8260C
trans-1,2-Dichloroethene	1.0	0.30	ug/L	8260C
trans-1,3-Dichloropropene	1.0	0.56	ug/L	8260C
Trichloroethene	1.0	0.22	ug/L	8260C
Trichlorofluoromethane	1.0	0.49	ug/L	8260C
Vinyl chloride	1.0	0.29	ug/L	8260C
Xylenes, Total	2.0	0.52	ug/L	8260C

Method: RSK-175 - Dissolved Gases (GC)

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units	Method
Ethane	0.50	0.14	ug/L	RSK-175
Ethene	0.50	0.13	ug/L	RSK-175
Methane	0.50	0.080	ug/L	RSK-175

Method: 6010C - Metals (ICP) - Total Recoverable

Prep: 3005A

Analyte	RL	MDL	Units	Method
Iron	100	25	ug/L	6010C
Manganese	15	5.1	ug/L	6010C

General Chemistry

Analyte	RL	MDL	Units	Method
Alkalinity	5.0	1.9	mg/L	2320B-1997
Sulfate	1.0	0.13	mg/L	300.0
TOC Result 1	1.0	0.080	mg/L	9060A
TOC Result 2	1.0	0.080	mg/L	9060A
TOC Result 3	1.0	0.080	mg/L	9060A
TOC Result 4	1.0	0.080	mg/L	9060A
Total Organic Carbon	1.0	0.080	mg/L	9060A
Total Dissolved Solids	10	7.4	mg/L	SM 2540C

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DBFM (79-120)	BFB (61-120)	12DCE (78-125)
240-65962-B-1 MS	Matrix Spike	104	95	98	92
240-65962-B-1 MSD	Matrix Spike Duplicate	105	95	98	94
240-66032-1	TB-061416	101	94	96	95
240-66032-2	NMW-2I-061416	100	94	95	94
240-66032-2 MS	NMW-2I-061416	101	93	96	93
240-66032-2 MSD	NMW-2I-061416	103	95	96	96
240-66032-3	NMW-2S-061416	102	95	98	95
240-66032-4	NMW-3I-061416	104	99	101	100
240-66032-5	OUTFALL-9-061416	105	94	99	94
LCS 240-235221/4	Lab Control Sample	102	93	99	92
LCS 240-235346/4	Lab Control Sample	103	94	98	93
MB 240-235221/6	Method Blank	103	95	97	94
MB 240-235346/6	Method Blank	103	95	99	96

Surrogate Legend

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

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		Trifluoroet (76-121)
240-65988-E-3 MS	Matrix Spike	104
240-65988-E-3 MSD	Matrix Spike Duplicate	103
240-65999-B-3 MS	Matrix Spike	105
240-65999-B-3 MSD	Matrix Spike Duplicate	103
240-66032-2	NMW-2I-061416	93
240-66032-2	NMW-2I-061416	103
240-66032-3	NMW-2S-061416	97
240-66032-3	NMW-2S-061416	99
240-66032-4	NMW-3I-061416	95
240-66032-4	NMW-3I-061416	98
LCS 240-235546/5	Lab Control Sample	109
LCS 240-235861/5	Lab Control Sample	113
MB 240-235546/4	Method Blank	108
MB 240-235861/4	Method Blank	110

Surrogate Legend

- 1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

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

Lab Sample ID: MB 240-235221/6

Matrix: Water

Analysis Batch: 235221

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			06/20/16 13:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			06/20/16 13:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			06/20/16 13:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/20/16 13:55	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			06/20/16 13:55	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			06/20/16 13:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			06/20/16 13:55	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			06/20/16 13:55	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			06/20/16 13:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			06/20/16 13:55	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			06/20/16 13:55	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			06/20/16 13:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			06/20/16 13:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			06/20/16 13:55	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			06/20/16 13:55	1
2-Hexanone	10	U	10	0.48	ug/L			06/20/16 13:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			06/20/16 13:55	1
Acetone	10	U	10	0.94	ug/L			06/20/16 13:55	1
Benzene	1.0	U	1.0	0.35	ug/L			06/20/16 13:55	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			06/20/16 13:55	1
Bromoform	1.0	U	1.0	0.56	ug/L			06/20/16 13:55	1
Bromomethane	1.0	U	1.0	0.44	ug/L			06/20/16 13:55	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			06/20/16 13:55	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			06/20/16 13:55	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			06/20/16 13:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/20/16 13:55	1
Chloroform	1.0	U	1.0	0.25	ug/L			06/20/16 13:55	1
Chloromethane	1.0	U	1.0	0.44	ug/L			06/20/16 13:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			06/20/16 13:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			06/20/16 13:55	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			06/20/16 13:55	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			06/20/16 13:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			06/20/16 13:55	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			06/20/16 13:55	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			06/20/16 13:55	1
Methyl acetate	10	U	10	2.3	ug/L			06/20/16 13:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			06/20/16 13:55	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			06/20/16 13:55	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			06/20/16 13:55	1
Styrene	1.0	U	1.0	0.45	ug/L			06/20/16 13:55	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			06/20/16 13:55	1
Toluene	1.0	U	1.0	0.23	ug/L			06/20/16 13:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			06/20/16 13:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			06/20/16 13:55	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			06/20/16 13:55	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			06/20/16 13:55	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			06/20/16 13:55	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			06/20/16 13:55	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		06/20/16 13:55	1
Dibromofluoromethane (Surr)	95		79 - 120		06/20/16 13:55	1
4-Bromofluorobenzene (Surr)	97		61 - 120		06/20/16 13:55	1
1,2-Dichloroethane-d4 (Surr)	94		78 - 125		06/20/16 13:55	1

Lab Sample ID: LCS 240-235221/4
Matrix: Water
Analysis Batch: 235221

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-Trichloroethane	10.0	9.62		ug/L		96	77 - 123
1,1,2,2-Tetrachloroethane	10.0	8.24		ug/L		82	71 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.44		ug/L		84	67 - 138
1,1,2-Trichloroethane	10.0	8.73		ug/L		87	80 - 120
1,1-Dichloroethane	10.0	9.16		ug/L		92	79 - 125
1,1-Dichloroethene	10.0	8.38		ug/L		84	76 - 124
1,2,4-Trichlorobenzene	10.0	8.52		ug/L		85	61 - 120
1,2-Dibromo-3-Chloropropane	10.0	6.30		ug/L		63	50 - 132
Ethylene Dibromide	10.0	8.44		ug/L		84	80 - 120
1,2-Dichlorobenzene	10.0	9.04		ug/L		90	79 - 120
1,2-Dichloroethane	10.0	8.84		ug/L		88	80 - 120
1,2-Dichloropropane	10.0	9.24		ug/L		92	78 - 124
1,3-Dichlorobenzene	10.0	9.07		ug/L		91	79 - 120
1,4-Dichlorobenzene	10.0	9.17		ug/L		92	79 - 120
2-Butanone (MEK)	20.0	14.5		ug/L		72	56 - 138
2-Hexanone	20.0	15.0		ug/L		75	55 - 141
4-Methyl-2-pentanone (MIBK)	20.0	15.2		ug/L		76	64 - 135
Acetone	20.0	12.6		ug/L		63	34 - 148
Benzene	10.0	9.25		ug/L		93	80 - 120
Dichlorobromomethane	10.0	8.58		ug/L		86	80 - 120
Bromoform	10.0	8.16		ug/L		82	56 - 122
Bromomethane	10.0	8.13		ug/L		81	38 - 132
Carbon disulfide	10.0	8.82		ug/L		88	65 - 144
Carbon tetrachloride	10.0	8.99		ug/L		90	77 - 131
Chlorobenzene	10.0	9.21		ug/L		92	80 - 120
Chloroethane	10.0	6.91		ug/L		69	36 - 126
Chloroform	10.0	9.23		ug/L		92	80 - 120
Chloromethane	10.0	9.86		ug/L		99	48 - 133
cis-1,2-Dichloroethene	10.0	9.12		ug/L		91	79 - 120
cis-1,3-Dichloropropene	10.0	8.58		ug/L		86	74 - 126
Cyclohexane	10.0	9.27		ug/L		93	60 - 140
Chlorodibromomethane	10.0	7.92		ug/L		79	74 - 120
Dichlorodifluoromethane	10.0	8.77		ug/L		88	23 - 136
Ethylbenzene	10.0	9.26		ug/L		93	80 - 120
Isopropylbenzene	10.0	9.53		ug/L		95	77 - 120
Methyl acetate	50.0	38.4		ug/L		77	67 - 131
Methyl tert-butyl ether	10.0	8.59		ug/L		86	69 - 121
Methylcyclohexane	10.0	9.02		ug/L		90	61 - 134
Methylene Chloride	10.0	9.66		ug/L		97	77 - 129
Styrene	10.0	9.23		ug/L		92	76 - 122
Tetrachloroethane	10.0	9.24		ug/L		92	78 - 121
Toluene	10.0	9.54		ug/L		95	80 - 120
trans-1,2-Dichloroethene	10.0	9.31		ug/L		93	80 - 124

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

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

Lab Sample ID: LCS 240-235221/4

Matrix: Water

Analysis Batch: 235221

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	8.30		ug/L		83	75 - 131
Trichloroethene	10.0	9.09		ug/L		91	80 - 121
Trichlorofluoromethane	10.0	9.97		ug/L		100	61 - 133
Vinyl chloride	10.0	9.23		ug/L		92	52 - 121
Xylenes, Total	20.0	18.4		ug/L		92	80 - 120
m-Xylene & p-Xylene	10.0	9.22		ug/L		92	80 - 120
o-Xylene	10.0	9.21		ug/L		92	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	93		79 - 120
4-Bromofluorobenzene (Surr)	99		61 - 120
1,2-Dichloroethane-d4 (Surr)	92		78 - 125

Lab Sample ID: MB 240-235346/6

Matrix: Water

Analysis Batch: 235346

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-Trichloroethane	1.0	U	1.0	0.44	ug/L			06/21/16 13:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			06/21/16 13:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			06/21/16 13:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			06/21/16 13:57	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			06/21/16 13:57	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			06/21/16 13:57	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			06/21/16 13:57	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82	ug/L			06/21/16 13:57	1
Ethylene Dibromide	1.0	U	1.0	0.32	ug/L			06/21/16 13:57	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			06/21/16 13:57	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			06/21/16 13:57	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			06/21/16 13:57	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			06/21/16 13:57	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			06/21/16 13:57	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			06/21/16 13:57	1
2-Hexanone	10	U	10	0.48	ug/L			06/21/16 13:57	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			06/21/16 13:57	1
Acetone	10	U	10	0.94	ug/L			06/21/16 13:57	1
Benzene	1.0	U	1.0	0.35	ug/L			06/21/16 13:57	1
Dichlorobromomethane	1.0	U	1.0	0.29	ug/L			06/21/16 13:57	1
Bromoform	1.0	U	1.0	0.56	ug/L			06/21/16 13:57	1
Bromomethane	1.0	U	1.0	0.44	ug/L			06/21/16 13:57	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			06/21/16 13:57	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			06/21/16 13:57	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			06/21/16 13:57	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/21/16 13:57	1
Chloroform	1.0	U	1.0	0.25	ug/L			06/21/16 13:57	1
Chloromethane	1.0	U	1.0	0.44	ug/L			06/21/16 13:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			06/21/16 13:57	1

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

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

Lab Sample ID: MB 240-235346/6

Matrix: Water

Analysis Batch: 235346

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			06/21/16 13:57	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			06/21/16 13:57	1
Chlorodibromomethane	1.0	U	1.0	0.43	ug/L			06/21/16 13:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			06/21/16 13:57	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			06/21/16 13:57	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			06/21/16 13:57	1
Methyl acetate	10	U	10	2.3	ug/L			06/21/16 13:57	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			06/21/16 13:57	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			06/21/16 13:57	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			06/21/16 13:57	1
Styrene	1.0	U	1.0	0.45	ug/L			06/21/16 13:57	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			06/21/16 13:57	1
Toluene	1.0	U	1.0	0.23	ug/L			06/21/16 13:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			06/21/16 13:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			06/21/16 13:57	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			06/21/16 13:57	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			06/21/16 13:57	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			06/21/16 13:57	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			06/21/16 13:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	103		80 - 120		06/21/16 13:57	1
Dibromofluoromethane (Surr)	95		79 - 120		06/21/16 13:57	1
4-Bromofluorobenzene (Surr)	99		61 - 120		06/21/16 13:57	1
1,2-Dichloroethane-d4 (Surr)	96		78 - 125		06/21/16 13:57	1

Lab Sample ID: LCS 240-235346/4

Matrix: Water

Analysis Batch: 235346

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	10.0	8.62		ug/L		86	71 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.66		ug/L		87	67 - 138
1,1,2-Trichloroethane	10.0	9.29		ug/L		93	80 - 120
1,1-Dichloroethane	10.0	9.71		ug/L		97	79 - 125
1,1-Dichloroethene	10.0	9.07		ug/L		91	76 - 124
1,2,4-Trichlorobenzene	10.0	9.02		ug/L		90	61 - 120
1,2-Dibromo-3-Chloropropane	10.0	7.07		ug/L		71	50 - 132
Ethylene Dibromide	10.0	9.14		ug/L		91	80 - 120
1,2-Dichlorobenzene	10.0	9.78		ug/L		98	79 - 120
1,2-Dichloroethane	10.0	9.44		ug/L		94	80 - 120
1,2-Dichloropropane	10.0	9.69		ug/L		97	78 - 124
1,3-Dichlorobenzene	10.0	9.55		ug/L		95	79 - 120
1,4-Dichlorobenzene	10.0	9.82		ug/L		98	79 - 120
2-Butanone (MEK)	20.0	14.4		ug/L		72	56 - 138
2-Hexanone	20.0	15.9		ug/L		79	55 - 141

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

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

Lab Sample ID: LCS 240-235346/4

Matrix: Water

Analysis Batch: 235346

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	20.0	16.2		ug/L		81	64 - 135
Acetone	20.0	13.7		ug/L		68	34 - 148
Benzene	10.0	9.73		ug/L		97	80 - 120
Dichlorobromomethane	10.0	8.90		ug/L		89	80 - 120
Bromoform	10.0	8.73		ug/L		87	56 - 122
Bromomethane	10.0	8.98		ug/L		90	38 - 132
Carbon disulfide	10.0	9.55		ug/L		96	65 - 144
Carbon tetrachloride	10.0	9.45		ug/L		95	77 - 131
Chlorobenzene	10.0	9.78		ug/L		98	80 - 120
Chloroethane	10.0	7.50		ug/L		75	36 - 126
Chloroform	10.0	9.85		ug/L		99	80 - 120
Chloromethane	10.0	10.5		ug/L		105	48 - 133
cis-1,2-Dichloroethene	10.0	9.70		ug/L		97	79 - 120
cis-1,3-Dichloropropene	10.0	9.13		ug/L		91	74 - 126
Cyclohexane	10.0	9.89		ug/L		99	60 - 140
Chlorodibromomethane	10.0	8.42		ug/L		84	74 - 120
Dichlorodifluoromethane	10.0	9.61		ug/L		96	23 - 136
Ethylbenzene	10.0	9.78		ug/L		98	80 - 120
Isopropylbenzene	10.0	9.94		ug/L		99	77 - 120
Methyl acetate	50.0	40.9		ug/L		82	67 - 131
Methyl tert-butyl ether	10.0	8.87		ug/L		89	69 - 121
Methylcyclohexane	10.0	9.55		ug/L		95	61 - 134
Methylene Chloride	10.0	9.93		ug/L		99	77 - 129
Styrene	10.0	9.54		ug/L		95	76 - 122
Tetrachloroethene	10.0	9.59		ug/L		96	78 - 121
Toluene	10.0	10.1		ug/L		101	80 - 120
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 124
trans-1,3-Dichloropropene	10.0	8.97		ug/L		90	75 - 131
Trichloroethene	10.0	9.42		ug/L		94	80 - 121
Trichlorofluoromethane	10.0	10.9		ug/L		109	61 - 133
Vinyl chloride	10.0	9.67		ug/L		97	52 - 121
Xylenes, Total	20.0	19.5		ug/L		97	80 - 120
m-Xylene & p-Xylene	10.0	9.79		ug/L		98	80 - 120
o-Xylene	10.0	9.67		ug/L		97	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	94		79 - 120
4-Bromofluorobenzene (Surr)	98		61 - 120
1,2-Dichloroethane-d4 (Surr)	93		78 - 125

Lab Sample ID: 240-66032-2 MS

Matrix: Water

Analysis Batch: 235346

Client Sample ID: NMW-2I-061416

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	130	U	1250	1250		ug/L		100	69 - 122
1,1,2,2-Tetrachloroethane	130	U	1250	1050		ug/L		84	61 - 130

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

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

Lab Sample ID: 240-66032-2 MS

Matrix: Water

Analysis Batch: 235346

Client Sample ID: NMW-2I-061416

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	130	U	1250	1100		ug/L		88	44 - 140
1,1,2-Trichloroethane	130	U	1250	1120		ug/L		89	72 - 125
1,1-Dichloroethane	130	U	1250	1200		ug/L		96	73 - 124
1,1-Dichloroethene	58	J	1250	1170		ug/L		89	67 - 124
1,2,4-Trichlorobenzene	130	U	1250	1100		ug/L		88	48 - 120
1,2-Dibromo-3-Chloropropane	250	U	1250	817		ug/L		65	42 - 130
Ethylene Dibromide	130	U	1250	1100		ug/L		88	69 - 125
1,2-Dichlorobenzene	130	U	1250	1200		ug/L		96	67 - 118
1,2-Dichloroethane	130	U	1250	1160		ug/L		93	74 - 125
1,2-Dichloropropane	130	U	1250	1220		ug/L		97	73 - 122
1,3-Dichlorobenzene	130	U	1250	1200		ug/L		96	65 - 120
1,4-Dichlorobenzene	130	U	1250	1210		ug/L		97	66 - 120
2-Butanone (MEK)	1300	U	2500	1780		ug/L		71	49 - 132
2-Hexanone	1300	U	2500	1840		ug/L		74	49 - 142
4-Methyl-2-pentanone (MIBK)	1300	U	2500	1960		ug/L		78	58 - 136
Acetone	1300	U	2500	1560		ug/L		62	32 - 126
Benzene	130	U	1250	1230		ug/L		98	73 - 121
Dichlorobromomethane	130	U	1250	1130		ug/L		90	72 - 120
Bromoform	130	U	1250	1010		ug/L		81	45 - 121
Bromomethane	130	U F2	1250	854		ug/L		68	26 - 136
Carbon disulfide	130	U	1250	1190		ug/L		95	54 - 144
Carbon tetrachloride	130	U	1250	1170		ug/L		93	65 - 129
Chlorobenzene	130	U	1250	1190		ug/L		95	72 - 120
Chloroethane	130	U	1250	810		ug/L		65	27 - 131
Chloroform	130	U	1250	1210		ug/L		97	73 - 121
Chloromethane	130	U	1250	1220		ug/L		98	39 - 134
cis-1,2-Dichloroethene	3100		1250	4330		ug/L		95	66 - 124
cis-1,3-Dichloropropene	130	U	1250	1120		ug/L		90	60 - 120
Cyclohexane	130	U	1250	1190		ug/L		95	41 - 137
Chlorodibromomethane	130	U	1250	1010		ug/L		81	62 - 122
Dichlorodifluoromethane	130	U	1250	1080		ug/L		86	14 - 137
Ethylbenzene	130	U	1250	1210		ug/L		97	68 - 121
Isopropylbenzene	130	U	1250	1240		ug/L		99	61 - 122
Methyl acetate	1300	U	6250	4960		ug/L		79	64 - 124
Methyl tert-butyl ether	130	U	1250	1100		ug/L		88	61 - 121
Methylcyclohexane	130	U	1250	1150		ug/L		92	39 - 135
Methylene Chloride	130	U	1250	1200		ug/L		96	70 - 124
Styrene	130	U	1250	1190		ug/L		95	64 - 126
Tetrachloroethene	130	U	1250	1200		ug/L		96	59 - 125
Toluene	130	U	1250	1250		ug/L		100	72 - 122
trans-1,2-Dichloroethene	130	U	1250	1260		ug/L		100	72 - 125
trans-1,3-Dichloropropene	130	U	1250	1060		ug/L		85	58 - 132
Trichloroethene	3500		1250	4680		ug/L		95	61 - 129
Trichlorofluoromethane	130	U	1250	1290		ug/L		103	49 - 133
Vinyl chloride	290		1250	1460		ug/L		93	44 - 122
Xylenes, Total	250	U	2500	2370		ug/L		95	67 - 122
m-Xylene & p-Xylene	250	U	1250	1190		ug/L		96	66 - 123

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

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

Lab Sample ID: 240-66032-2 MS

Matrix: Water

Analysis Batch: 235346

Client Sample ID: NMW-2I-061416

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	130	U	1250	1180		ug/L		95	68 - 121
Surrogate	MS %Recovery	MS Qualifier	Limits						
Toluene-d8 (Surr)	101		80 - 120						
Dibromofluoromethane (Surr)	93		79 - 120						
4-Bromofluorobenzene (Surr)	96		61 - 120						
1,2-Dichloroethane-d4 (Surr)	93		78 - 125						

Lab Sample ID: 240-66032-2 MSD

Matrix: Water

Analysis Batch: 235346

Client Sample ID: NMW-2I-061416

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	130	U	1250	1250		ug/L		100	69 - 122	0	14
1,1,2,2-Tetrachloroethane	130	U	1250	1060		ug/L		85	61 - 130	0	18
1,1,2-Trichloro-1,2,2-trifluoroethane	130	U	1250	1060		ug/L		85	44 - 140	3	35
1,1,2-Trichloroethane	130	U	1250	1090		ug/L		88	72 - 125	2	19
1,1-Dichloroethane	130	U	1250	1180		ug/L		94	73 - 124	2	14
1,1-Dichloroethene	58	J	1250	1160		ug/L		88	67 - 124	1	24
1,2,4-Trichlorobenzene	130	U	1250	1110		ug/L		89	48 - 120	0	28
1,2-Dibromo-3-Chloropropane	250	U	1250	828		ug/L		66	42 - 130	1	24
Ethylene Dibromide	130	U	1250	1080		ug/L		86	69 - 125	2	24
1,2-Dichlorobenzene	130	U	1250	1180		ug/L		94	67 - 118	2	15
1,2-Dichloroethane	130	U	1250	1160		ug/L		93	74 - 125	0	24
1,2-Dichloropropane	130	U	1250	1180		ug/L		95	73 - 122	3	15
1,3-Dichlorobenzene	130	U	1250	1160		ug/L		93	65 - 120	3	15
1,4-Dichlorobenzene	130	U	1250	1190		ug/L		96	66 - 120	1	16
2-Butanone (MEK)	1300	U	2500	1720		ug/L		69	49 - 132	3	19
2-Hexanone	1300	U	2500	1770		ug/L		71	49 - 142	4	27
4-Methyl-2-pentanone (MIBK)	1300	U	2500	1920		ug/L		77	58 - 136	2	32
Acetone	1300	U	2500	1580		ug/L		63	32 - 126	1	28
Benzene	130	U	1250	1210		ug/L		97	73 - 121	2	13
Dichlorobromomethane	130	U	1250	1100		ug/L		88	72 - 120	2	19
Bromoform	130	U	1250	1000		ug/L		80	45 - 121	0	19
Bromomethane	130	U F2	1250	1240	F2	ug/L		99	26 - 136	37	35
Carbon disulfide	130	U	1250	1190		ug/L		95	54 - 144	0	34
Carbon tetrachloride	130	U	1250	1140		ug/L		91	65 - 129	3	20
Chlorobenzene	130	U	1250	1160		ug/L		93	72 - 120	3	15
Chloroethane	130	U	1250	954		ug/L		76	27 - 131	16	35
Chloroform	130	U	1250	1200		ug/L		96	73 - 121	1	17
Chloromethane	130	U	1250	1270		ug/L		101	39 - 134	4	20
cis-1,2-Dichloroethene	3100		1250	4330		ug/L		95	66 - 124	0	22
cis-1,3-Dichloropropene	130	U	1250	1080		ug/L		86	60 - 120	4	21
Cyclohexane	130	U	1250	1160		ug/L		93	41 - 137	3	35
Chlorodibromomethane	130	U	1250	989		ug/L		79	62 - 122	3	19
Dichlorodifluoromethane	130	U	1250	1100		ug/L		88	14 - 137	2	34
Ethylbenzene	130	U	1250	1160		ug/L		93	68 - 121	4	16

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

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

Lab Sample ID: 240-66032-2 MSD

Matrix: Water

Analysis Batch: 235346

Client Sample ID: NMW-2I-061416

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	130	U	1250	1210		ug/L		97	61 - 122	3	20
Methyl acetate	1300	U	6250	4920		ug/L		79	64 - 124	1	12
Methyl tert-butyl ether	130	U	1250	1070		ug/L		85	61 - 121	3	12
Methylcyclohexane	130	U	1250	1120		ug/L		90	39 - 135	3	35
Methylene Chloride	130	U	1250	1200		ug/L		96	70 - 124	0	14
Styrene	130	U	1250	1150		ug/L		92	64 - 126	3	15
Tetrachloroethene	130	U	1250	1170		ug/L		94	59 - 125	3	20
Toluene	130	U	1250	1210		ug/L		97	72 - 122	3	15
trans-1,2-Dichloroethene	130	U	1250	1240		ug/L		99	72 - 125	1	25
trans-1,3-Dichloropropene	130	U	1250	1030		ug/L		83	58 - 132	2	22
Trichloroethene	3500		1250	4680		ug/L		95	61 - 129	0	14
Trichlorofluoromethane	130	U	1250	1360		ug/L		108	49 - 133	5	25
Vinyl chloride	290		1250	1450		ug/L		92	44 - 122	1	35
Xylenes, Total	250	U	2500	2330		ug/L		93	67 - 122	2	14
m-Xylene & p-Xylene	250	U	1250	1170		ug/L		94	66 - 123	2	15
o-Xylene	130	U	1250	1160		ug/L		93	68 - 121	2	14

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	95		79 - 120
4-Bromofluorobenzene (Surr)	96		61 - 120
1,2-Dichloroethane-d4 (Surr)	96		78 - 125

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-235546/4

Matrix: Water

Analysis Batch: 235546

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	0.50	U	0.50	0.13	ug/L			06/23/16 14:01	1
Ethane	0.50	U	0.50	0.14	ug/L			06/23/16 14:01	1
Methane	0.50	U	0.50	0.080	ug/L			06/23/16 14:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	108		76 - 121		06/23/16 14:01	1

Lab Sample ID: LCS 240-235546/5

Matrix: Water

Analysis Batch: 235546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethene	349	385		ug/L		110	79 - 132
Ethane	374	422		ug/L		113	76 - 131
Methane	199	196		ug/L		98	80 - 130

TestAmerica Canton

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 240-235546/5
Matrix: Water
Analysis Batch: 235546

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS LCS Qualifier</i>	<i>Limits</i>
1,1,1-Trifluoroethane	109		76 - 121

Lab Sample ID: MB 240-235861/4
Matrix: Water
Analysis Batch: 235861

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

<i>Analyte</i>	<i>Result</i>	<i>MB MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ethene	0.50	U	0.50	0.13	ug/L			06/24/16 14:58	1
Ethane	0.50	U	0.50	0.14	ug/L			06/24/16 14:58	1
Methane	0.50	U	0.50	0.080	ug/L			06/24/16 14:58	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1-Trifluoroethane	110		76 - 121		06/24/16 14:58	1

Lab Sample ID: LCS 240-235861/5
Matrix: Water
Analysis Batch: 235861

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS LCS Result Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
Ethene	349	348	ug/L		100	79 - 132
Ethane	374	382	ug/L		102	76 - 131
Methane	199	176	ug/L		89	80 - 130

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS LCS Qualifier</i>	<i>Limits</i>
1,1,1-Trifluoroethane	113		76 - 121

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 240-234783/1-A
Matrix: Water
Analysis Batch: 234992

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 234783

<i>Analyte</i>	<i>Result</i>	<i>MB MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Iron	100	U	100	25	ug/L		06/16/16 10:46	06/17/16 10:57	1
Manganese	15	U	15	5.1	ug/L		06/16/16 10:46	06/17/16 10:57	1

Lab Sample ID: LCS 240-234783/2-A
Matrix: Water
Analysis Batch: 234992

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 234783

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS LCS Result Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
Iron	1000	1040	ug/L		104	80 - 120
Manganese	500	507	ug/L		101	80 - 120

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-235191/5
Matrix: Water
Analysis Batch: 235191

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	1.9	mg/L			06/17/16 11:02	1

Lab Sample ID: LCS 240-235191/4
Matrix: Water
Analysis Batch: 235191

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	368	374		mg/L		102	90 - 127

Lab Sample ID: 240-66032-5 DU
Matrix: Water
Analysis Batch: 235191

Client Sample ID: OUTFALL-9-061416
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	42		41.5		mg/L		1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-235181/51
Matrix: Water
Analysis Batch: 235181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.13	mg/L			06/21/16 00:17	1

Lab Sample ID: LCS 240-235181/52
Matrix: Water
Analysis Batch: 235181

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	50.6		mg/L		101	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-235863/4
Matrix: Water
Analysis Batch: 235863

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.0	U	1.0	0.080	mg/L			06/23/16 11:23	1
Total Organic Carbon	1.0	U	1.0	0.080	mg/L			06/23/16 11:23	1

Lab Sample ID: LLCS 240-235863/5
Matrix: Water
Analysis Batch: 235863

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	7.20	6.75		mg/L		94	88 - 115
Total Organic Carbon	7.20	6.75		mg/L		94	88 - 115

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Lab Sample ID: 240-66032-2 MS
Matrix: Water
Analysis Batch: 235863

Client Sample ID: NMW-2I-061416
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	0.81	J	5.00	5.67		mg/L		97	72 - 136
Total Organic Carbon	0.84	J	5.00	5.67		mg/L		97	72 - 136

Lab Sample ID: 240-66032-2 MSD
Matrix: Water
Analysis Batch: 235863

Client Sample ID: NMW-2I-061416
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TOC Result 1	0.81	J	5.00	5.55		mg/L		95	72 - 136	2	20
Total Organic Carbon	0.84	J	5.00	5.55		mg/L		94	72 - 136	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-234961/1
Matrix: Water
Analysis Batch: 234961

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.4	mg/L			06/17/16 10:19	1

Lab Sample ID: LCS 240-234961/2
Matrix: Water
Analysis Batch: 234961

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	577	530		mg/L		92	88 - 110

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

GC/MS VOA

Analysis Batch: 235221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-66032-1	TB-061416	Total/NA	Water	8260C	
240-66032-3	NMW-2S-061416	Total/NA	Water	8260C	
240-66032-4	NMW-3I-061416	Total/NA	Water	8260C	
240-66032-5	OUTFALL-9-061416	Total/NA	Water	8260C	
LCS 240-235221/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-235221/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 235346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-66032-2	NMW-2I-061416	Total/NA	Water	8260C	
240-66032-2 MS	NMW-2I-061416	Total/NA	Water	8260C	
240-66032-2 MSD	NMW-2I-061416	Total/NA	Water	8260C	
LCS 240-235346/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-235346/6	Method Blank	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 235546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-66032-2	NMW-2I-061416	Total/NA	Water	RSK-175	
240-66032-3	NMW-2S-061416	Total/NA	Water	RSK-175	
240-66032-4	NMW-3I-061416	Total/NA	Water	RSK-175	
LCS 240-235546/5	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-235546/4	Method Blank	Total/NA	Water	RSK-175	

Analysis Batch: 235861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-66032-2	NMW-2I-061416	Total/NA	Water	RSK-175	
240-66032-3	NMW-2S-061416	Total/NA	Water	RSK-175	
240-66032-4	NMW-3I-061416	Total/NA	Water	RSK-175	
LCS 240-235861/5	Lab Control Sample	Total/NA	Water	RSK-175	
MB 240-235861/4	Method Blank	Total/NA	Water	RSK-175	

Metals

Prep Batch: 234783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-66032-2	NMW-2I-061416	Total Recoverable	Water	3005A	
240-66032-3	NMW-2S-061416	Total Recoverable	Water	3005A	
240-66032-4	NMW-3I-061416	Total Recoverable	Water	3005A	
240-66032-5	OUTFALL-9-061416	Total Recoverable	Water	3005A	
LCS 240-234783/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-234783/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 234992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-66032-2	NMW-2I-061416	Total Recoverable	Water	6010C	234783
240-66032-3	NMW-2S-061416	Total Recoverable	Water	6010C	234783
240-66032-4	NMW-3I-061416	Total Recoverable	Water	6010C	234783
240-66032-5	OUTFALL-9-061416	Total Recoverable	Water	6010C	234783

TestAmerica Canton

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Metals (Continued)

Analysis Batch: 234992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
CRI 240-234992/111	DL		Water	6010C	
CRI 240-234992/20	DL		Water	6010C	
ICSA 240-234992/8	ICS		Water	6010C	
ICSAB 240-234992/9	ICS		Water	6010C	
LCS 240-234783/2-A	Lab Control Sample	Total Recoverable	Water	6010C	234783
MB 240-234783/1-A	Method Blank	Total Recoverable	Water	6010C	234783

General Chemistry

Analysis Batch: 234961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-66032-2	NMW-2I-061416	Total/NA	Water	SM 2540C	
240-66032-3	NMW-2S-061416	Total/NA	Water	SM 2540C	
240-66032-4	NMW-3I-061416	Total/NA	Water	SM 2540C	
240-66032-5	OUTFALL-9-061416	Total/NA	Water	SM 2540C	
LCS 240-234961/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 240-234961/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 235181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-66032-2	NMW-2I-061416	Total/NA	Water	300.0	
240-66032-3	NMW-2S-061416	Total/NA	Water	300.0	
240-66032-4	NMW-3I-061416	Total/NA	Water	300.0	
240-66032-5	OUTFALL-9-061416	Total/NA	Water	300.0	
LCS 240-235181/52	Lab Control Sample	Total/NA	Water	300.0	
MB 240-235181/51	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 235191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-66032-2	NMW-2I-061416	Total/NA	Water	2320B-1997	
240-66032-3	NMW-2S-061416	Total/NA	Water	2320B-1997	
240-66032-4	NMW-3I-061416	Total/NA	Water	2320B-1997	
240-66032-5	OUTFALL-9-061416	Total/NA	Water	2320B-1997	
240-66032-5 DU	OUTFALL-9-061416	Total/NA	Water	2320B-1997	
LCS 240-235191/4	Lab Control Sample	Total/NA	Water	2320B-1997	
MB 240-235191/5	Method Blank	Total/NA	Water	2320B-1997	

Analysis Batch: 235863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-66032-2	NMW-2I-061416	Total/NA	Water	9060A	
240-66032-2 MS	NMW-2I-061416	Total/NA	Water	9060A	
240-66032-2 MSD	NMW-2I-061416	Total/NA	Water	9060A	
240-66032-3	NMW-2S-061416	Total/NA	Water	9060A	
240-66032-4	NMW-3I-061416	Total/NA	Water	9060A	
240-66032-5	OUTFALL-9-061416	Total/NA	Water	9060A	
LLCS 240-235863/5	Lab Control Sample	Total/NA	Water	9060A	
MB 240-235863/4	Method Blank	Total/NA	Water	9060A	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: TB-061416

Date Collected: 06/14/16 00:00

Date Received: 06/15/16 09:10

Lab Sample ID: 240-66032-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235221	06/20/16 19:58	LRW	TAL CAN

Client Sample ID: NMW-2I-061416

Date Collected: 06/14/16 10:17

Date Received: 06/15/16 09:10

Lab Sample ID: 240-66032-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		125	235346	06/21/16 14:20	LRW	TAL CAN
Total/NA	Analysis	RSK-175		1	235546	06/23/16 19:13	BPM	TAL CAN
Total/NA	Analysis	RSK-175		5	235861	06/24/16 17:32	BPM	TAL CAN
Total Recoverable	Prep	3005A			234783	06/16/16 10:46	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	234992	06/17/16 12:41	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	235191	06/17/16 12:30	JMB	TAL CAN
Total/NA	Analysis	300.0		1	235181	06/21/16 04:06	LCN	TAL CAN
Total/NA	Analysis	9060A		1	235863	06/23/16 11:39	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	234961	06/17/16 10:19	GNR	TAL CAN

Client Sample ID: NMW-2S-061416

Date Collected: 06/14/16 14:40

Date Received: 06/15/16 09:10

Lab Sample ID: 240-66032-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	235221	06/20/16 20:43	LRW	TAL CAN
Total/NA	Analysis	RSK-175		1	235546	06/23/16 19:30	BPM	TAL CAN
Total/NA	Analysis	RSK-175		5	235861	06/24/16 18:06	BPM	TAL CAN
Total Recoverable	Prep	3005A			234783	06/16/16 10:46	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	234992	06/17/16 12:45	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	235191	06/17/16 12:39	JMB	TAL CAN
Total/NA	Analysis	300.0		1	235181	06/21/16 04:23	LCN	TAL CAN
Total/NA	Analysis	9060A		2	235863	06/23/16 12:21	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	234961	06/17/16 10:19	GNR	TAL CAN

Client Sample ID: NMW-3I-061416

Date Collected: 06/14/16 12:06

Date Received: 06/15/16 09:10

Lab Sample ID: 240-66032-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	235221	06/20/16 21:06	LRW	TAL CAN
Total/NA	Analysis	RSK-175		1	235546	06/23/16 19:47	BPM	TAL CAN
Total/NA	Analysis	RSK-175		10	235861	06/24/16 18:23	BPM	TAL CAN
Total Recoverable	Prep	3005A			234783	06/16/16 10:46	AJC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Client Sample ID: NMW-3I-061416

Lab Sample ID: 240-66032-4

Date Collected: 06/14/16 12:06

Matrix: Water

Date Received: 06/15/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6010C		1	234992	06/17/16 12:50	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	235191	06/17/16 12:49	JMB	TAL CAN
Total/NA	Analysis	300.0		1	235181	06/21/16 04:39	LCN	TAL CAN
Total/NA	Analysis	9060A		2	235863	06/23/16 12:48	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	234961	06/17/16 10:19	GNR	TAL CAN

Client Sample ID: OUTFALL-9-061416

Lab Sample ID: 240-66032-5

Date Collected: 06/14/16 14:00

Matrix: Water

Date Received: 06/15/16 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235221	06/20/16 21:29	LRW	TAL CAN
Total Recoverable	Prep	3005A			234783	06/16/16 10:46	AJC	TAL CAN
Total Recoverable	Analysis	6010C		1	234992	06/17/16 12:54	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	235191	06/17/16 13:00	JMB	TAL CAN
Total/NA	Analysis	300.0		25	235181	06/21/16 04:55	LCN	TAL CAN
Total/NA	Analysis	9060A		1	235863	06/23/16 13:13	TPH	TAL CAN
Total/NA	Analysis	SM 2540C		1	234961	06/17/16 10:19	GNR	TAL CAN

Laboratory References:

Micro = Micro, 10515 Research Dr, Knoxville, TN 37932

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

Certification Summary

Client: Tetra Tech, Inc.
 Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

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	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-16 *
Kansas	NELAP	7	E-10336	07-31-16 *
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-16
Nevada	State Program	9	OH-000482008A	07-31-16 *
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-16 *
Texas	NELAP	6	T104704517-15-5	08-31-16 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16 *
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16
Wisconsin	State Program	5	999518190	08-31-16 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
6010C	Metals (ICP)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
9060A	Organic Carbon, Total (TOC)	SW846	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
DHC	General Sub Contract Method	NONE	Micro
DHC (Send unpreserved liter poly)	General Sub Contract Method	NONE	Micro

Protocol References:

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

NONE = NONE

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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.

Laboratory References:

Micro = Micro, 10515 Research Dr, Knoxville, TN 37932

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MRC Block I GW Sampling

TestAmerica Job ID: 240-66032-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-66032-1	TB-061416	Water	06/14/16 00:00	06/15/16 09:10
240-66032-2	NMW-2I-061416	Water	06/14/16 10:17	06/15/16 09:10
240-66032-3	NMW-2S-061416	Water	06/14/16 14:40	06/15/16 09:10
240-66032-4	NMW-3I-061416	Water	06/14/16 12:06	06/15/16 09:10
240-66032-5	OUTFALL-9-061416	Water	06/14/16 14:00	06/15/16 09:10

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: ZPID Analysis Batch Number: 235546

Lab Sample ID: 240-66032-2 Client Sample ID: NMW-2I-061416

Date Analyzed: 06/23/16 19:13 Lab File ID: RSK0062322.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethene	1.87	Incomplete Integration	matthewsb	06/24/16 06:28
Ethane	2.19	Incomplete Integration	matthewsb	06/24/16 06:28

Lab Sample ID: 240-66032-3 Client Sample ID: NMW-2S-061416

Date Analyzed: 06/23/16 19:30 Lab File ID: RSK0062323.D GC Column: HP-PLOT/Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trifluoroethane	3.34	Incomplete Integration	matthewsb	06/24/16 06:28

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: SIMON Analysis Batch Number: 233335

Lab Sample ID: STD1 240-233335/2 IC Client Sample ID: _____

Date Analyzed: 06/06/16 17:04 Lab File ID: 2240-0055174-002.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.88	Peak not integrated	nolle1	06/07/16 09:26

Lab Sample ID: STD4 240-233335/5 IC Client Sample ID: _____

Date Analyzed: 06/06/16 17:53 Lab File ID: 5240-0055174-005.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.90	Peak not integrated	nolle1	06/07/16 09:27

Lab Sample ID: STD5 240-233335/6 ICRT Client Sample ID: _____

Date Analyzed: 06/06/16 18:09 Lab File ID: 6240-0055174-006.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.92	Peak not integrated	nolle1	06/07/16 09:27

Lab Sample ID: STD6 240-233335/7 IC Client Sample ID: _____

Date Analyzed: 06/06/16 18:26 Lab File ID: 7240-0055174-007.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.93	Peak not integrated	nolle1	06/07/16 09:27

Lab Sample ID: STD7 240-233335/8 IC Client Sample ID: _____

Date Analyzed: 06/06/16 18:42 Lab File ID: 8240-0055174-008.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.91	Peak not integrated	nolle1	06/07/16 09:27

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: SIMON Analysis Batch Number: 233335

Lab Sample ID: STD8 240-233335/9 IC Client Sample ID: _____

Date Analyzed: 06/06/16 18:59 Lab File ID: 9240-0055174-009.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.92	Peak not integrated	nolle1	06/07/16 09:28

Lab Sample ID: STD9 240-233335/10 IC Client Sample ID: _____

Date Analyzed: 06/06/16 19:15 Lab File ID: 10240-0055174-010.d GC Column: _____ ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.92	Peak not integrated	nolle1	06/07/16 09:28

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MT6500ICV_00031	09/08/16	03/08/16	DIWATER, Lot DIWATER	1000 mL	MTTRICV1_00006	5 mL	Iron	12500 ug/L
.MTTRICV1_00006	10/01/16		CPI, Lot 1080445		MTTRICV3_00007	6 mL	Manganese	1500 ug/L
.MTTRICV3_00007	01/01/17		CPI, Lot 1084215		(Purchased Reagent)		Iron	2500 ug/mL
					(Purchased Reagent)		Manganese	250 mg/L
MTAGSPIKEW_00058	06/09/17	05/17/16	DIWATER, Lot DIWATER	1000 mL	MTAG_00006	2.5 mL	Ag	2500 ug/L
.MTAG_00006	06/09/17		HIGH PURITY STANDARDS, Lot 1507504		MTTMHNO3_00083	50 mL	Nitric acid	50000000 ug/L
.MTTMHNO3_00083	03/16/18		Macron/Avantor, Lot 0000129810		(Purchased Reagent)		Ag	1000 ug/mL
					(Purchased Reagent)		Nitric acid	100 %
MTICP1_00052	12/09/16	05/17/16	DIWATER, Lot DI WATER	1000 mL	MTICPSPIKE1A_00010	50 mL	Al	100000 ug/L
							As	100000 ug/L
							B	50000 ug/L
							Ba	100000 ug/L
							Be	2500 ug/L
							Cd	2500 ug/L
							Co	25000 ug/L
							Cr	10000 ug/L
							Cu	12500 ug/L
							Iron	50000 ug/L
							Manganese	25000 ug/L
							Ni	25000 ug/L
							Pb	25000 ug/L
							Se	100000 ug/L
							Tl	100000 ug/L
							V	25000 ug/L
							Zn	25000 ug/L
					MTICPSPIKEB_00009	50 mL	Mo	50000 ug/L
							Sb	25000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00006	50 mL	Li	50000 ug/L
							Si	50000 ug/L
							SiO2	107000 ug/L
							Sr	50000 ug/L
					MTTMHNO3_00086	50 mL	Nitric acid	50000000 ug/L
.MTICPSPIKE1A_00010	12/09/16		High Purity Standards, Lot 1534135		(Purchased Reagent)		Al	2000 ug/mL
							As	2000 ug/mL
							B	1000 ug/mL
							Ba	2000 ug/mL
							Be	50 ug/mL
							Cd	50 ug/mL
							Co	500 ug/mL
							Cr	200 ug/mL
							Cu	250 ug/mL
							Iron	1000 ug/mL
							Manganese	500 ug/mL
							Ni	500 ug/mL
							Pb	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							Se	2000 ug/mL		
							Tl	2000 ug/mL		
							V	500 ug/mL		
							Zn	500 ug/mL		
.MTICPSPIKEB_00009	12/09/16		High Purity Standards, Lot 1534137			(Purchased Reagent)	Mo	1000 ug/mL		
							Sb	500 ug/mL		
							Sn	2000 ug/mL		
							Ti	1000 ug/mL		
.MTICPSpikeOdd_00006	12/09/16		High Purity Standards, Lot 1534138			(Purchased Reagent)	Li	1000 ug/mL		
							Si	1000 ug/mL		
							SiO2	2140 ug/mL		
							Sr	1000 ug/mL		
.MTTMHNO3_00086	05/03/18		Macron/Avantor, Lot 0000129810			(Purchased Reagent)	Nitric acid	100 %		
MTICP2A_00060	04/08/17	05/13/16	DIWATER, Lot DIWATER	1000 mL	MTTMHNO3_00086	50 mL	Nitric acid	50000 mg/L		
							MTTRCAL2_00014	250 mL	Ca	2500 mg/L
									K	2500 mg/L
									Mg	2500 mg/L
									Na	2500 mg/L
.MTTMHNO3_00086	05/03/18		Macron/Avantor, Lot 0000129810			(Purchased Reagent)	Nitric acid	100 %		
.MTTRCAL2_00014	04/08/17		HIGH PURITY STANDARDS, Lot 1603418			(Purchased Reagent)	Ca	10000 ug/mL		
							K	10000 ug/mL		
							Mg	10000 ug/mL		
							Na	10000 ug/mL		
MTICPCCV_00073	11/30/16	05/31/16	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00013	200 mL	Iron	25000 ug/L		
							Manganese	2000 ug/L		
.MTICPCCV1_00013	04/21/19		INORGANIC VENTURES, Lot K2-MEB632080			(Purchased Reagent)	Iron	250000 ug/L		
							Manganese	20000 ug/L		
MTICPICSABW_00011	12/03/16	06/03/16	DIWATER, Lot DIWATER	1000 mL	MTICPICSAB1_00005	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		
							Cd	1000 ug/L		
							Co	500 ug/L		
							Cr	500 ug/L		
							Cu	500 ug/L		
							Iron	200000 ug/L		
							K	10000 ug/L		
							Li	500 ug/L		
							Manganese	500 ug/L		
							Mg	500000 ug/L		
							Na	10000 ug/L		
							Ni	1000 ug/L		
							Pb	1000 ug/L		
							Se	1000 ug/L		
							Sr	1500 ug/L		

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tl	1000 ug/L
							V	500 ug/L
							Zn	1000 ug/L
					MTICPICSAB2_00005	100 mL	Ag	1000 ug/L
							Mo	1000 ug/L
							Sb	1000 ug/L
							Si	10000 ug/L
							Sn	500 ug/L
							Ti	500 ug/L
.MTICPICSAB1_00005	01/01/17		INORGANIC VENTURES, Lot J2-MEB612071			(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
							Cd	10000 ug/L
							Co	5000 ug/L
							Cr	5000 ug/L
							Cu	5000 ug/L
							Iron	2000000 ug/L
							K	100000 ug/L
							Li	5000 ug/L
							Manganese	5000 ug/L
							Mg	5000000 ug/L
							Na	100000 ug/L
							Ni	10000 ug/L
							Pb	10000 ug/L
							Se	10000 ug/L
							Sr	15000 ug/L
							Tl	10000 ug/L
							V	5000 ug/L
							Zn	10000 ug/L
.MTICPICSAB2_00005	01/01/17		INORGANIC VENTURES, Lot J2-MEB612072			(Purchased Reagent)	Ag	10000 ug/L
							Mo	10000 ug/L
							Sb	10000 ug/L
							Si	100000 ug/L
							Sn	5000 ug/L
							Ti	5000 ug/L
MTTMHCL_00113	06/07/18		Fisher, Lot 4115120			(Purchased Reagent)	Hydrogen Chloride	100 %
MTTMHNO3_00089	06/07/18		Macron/Avantor, Lot 0000138698			(Purchased Reagent)	Nitric acid	100 %
MTTRCRIC_00036	12/01/16	06/01/16	DIWATER, Lot DIWATER	500 mL	MTTRCRI6010C_00013	25 mL	Iron	200 ug/L
							Manganese	15 ug/L
.MTTRCRI6010C_00013	01/01/17		Inorganic Ventures, Lot J2-MEB612074			(Purchased Reagent)	Iron	4000 ug/L
							Manganese	300 ug/L
MTTRICSAW_00030	09/04/16	03/04/16	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00014	100 mL	Al	500000 ug/L
							Ca	500000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iron	200000 ug/L
							Mg	500000 ug/L
.MTTRICSA_00014	04/02/18		INORGANIC VENTURES, Lot J2-MEB572053		(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Iron	2000 ug/mL
							Mg	5000 ug/mL
SAICALSURR_00009	07/14/16		Matheson Trigas, Lot 109-46-10609		(Purchased Reagent)		1,1,1-Trifluoroethane	172158 ug/L
SARSK2NDSRCE_00010	10/13/18		Air Liquide-Scott Specialty gases, Lot 403-120156		(Purchased Reagent)		Ethane	12338 ug/L
							Ethene	11518 ug/L
							Methane	6558 ug/L
SARSKHIGHCALP_00007	09/18/17		Matheson Trigas, Lot 109-56-13135		(Purchased Reagent)		Acetylene	10657 ug/L
							Ethane	12338 ug/L
							Ethene	11518 ug/L
							Methane	6558 ug/L
							Propane	18077 ug/L
SARSKLOWCAL_00008	09/18/17		MATHESON TRI-GAS INC., Lot 109-56-13136		(Purchased Reagent)		Acetylene	1066 ug/L
							Ethane	1234 ug/L
							Ethene	1152 ug/L
							Methane	656 ug/L
							Propane	1808 ug/L
SARSKSURR_00009	11/19/16		Matheson Trigas, Lot 9302603973		(Purchased Reagent)		1,1,1-Trifluoroethane	11190 ug/L
VM50IS_00054	08/03/16	02/03/16	MEOH, Lot 118655	100 mL	vm30241_00002	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00002	11/30/19		restek, Lot A0107133		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00243	06/01/16	05/25/16	MEOH, Lot na	2 mL	vm50ss_stk_00069	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_00069	10/18/16	04/19/16	MEOH, Lot 0000118655	200 mL	VM567650_00023	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_00023	06/30/19		Restek, Lot A0104073		(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_00068	06/21/16	12/21/15	MEOH, Lot 0000118655	200 mL	VM567650_00023	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_00023	06/30/19		Restek, Lot A0104073		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW 00150	06/02/16	05/26/16	MEOH, Lot na	3 mL	VMACROLSTD_00036	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00036	06/06/16	05/02/16	MEOH, Lot 0000118655	20 mL	VM568720_00012	250 uL	Acrolein	250 ug/mL
..VM568720_00012	06/30/16		restek, Lot A0117486		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00158	06/07/16	05/31/16	MEOH, Lot NA	2 mL	VMFASG_00045	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_00045	06/30/16	05/31/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063		(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
VMFASGW_00160	06/22/16	06/15/16	MEOH, Lot NA	2 mL	VMFASG_00045	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_00045	06/30/16	05/31/16	MEOH, Lot 0000118655	50 mL	vm569722S_00001	1 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
..vm569722S_00001	08/31/18		Restek, Lot A0113063		(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
VMFASPW_00157	06/08/16	06/01/16	MEOH, Lot n/a	2 mL	VMRFASP_00030	2 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.: 240-66032-1

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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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
							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
.VMRFASP_00030	06/30/16	05/31/16	MEOH, Lot +173000000127999JM	100 mL	VM569720S_00001	2 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

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-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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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							
Xylenes, Total	100 ug/mL							
					VM569721S_00001	0.8 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM569720S_00001	01/31/17		Restek, Lot A0108163			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
trans-1,3-Dichloropropene	2500 ug/mL							
Trichloroethene	2500 ug/mL							
Xylenes, Total	5000 ug/mL							
..VM569721S_00001	01/31/18		Restek, Lot A0108157		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMFASPW_00159	06/22/16	06/15/16	MEOH, Lot n/a	2 mL	VMRFASP_00030	2 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

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
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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
							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
.VMRFASP_00030	06/30/16	05/31/16	MEOH, Lot +173000000127999JM	100 mL	VM569720S_00001	2 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

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	
							Dichlorobromomethane	50 ug/mL	
							Ethylbenzene	50 ug/mL	
							Ethylene Dibromide	50 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	
							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	
Xylenes, Total	100 ug/mL								
..VM569721S_00001	01/31/17		Restek, Lot A0108163		VM569721S_00001	0.8 mL	2-Butanone (MEK)	100 ug/mL	
							2-Hexanone	100 ug/mL	
							4-Methyl-2-pentanone (MIBK)	100 ug/mL	
							Acetone	100 ug/mL	
..VM569720S_00001	01/31/17		Restek, Lot A0108163				(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL	
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL	
							1,1,2-Trichloroethane	2500 ug/mL	
							1,1-Dichloroethane	2500 ug/mL	
							1,1-Dichloroethene	2500 ug/mL	
							1,2,4-Trichlorobenzene	2500 ug/mL	
							1,2-Dibromo-3-Chloropropane	2500 ug/mL	
							1,2-Dichlorobenzene	2500 ug/mL	
							1,2-Dichloroethane	2500 ug/mL	
							1,2-Dichloropropane	2500 ug/mL	
							1,3-Dichlorobenzene	2500 ug/mL	
							1,4-Dichlorobenzene	2500 ug/mL	
							Benzene	2500 ug/mL	
							Bromoform	2500 ug/mL	
							Carbon disulfide	2500 ug/mL	
							Carbon tetrachloride	2500 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
trans-1,3-Dichloropropene	2500 ug/mL							
Trichloroethene	2500 ug/mL							
Xylenes, Total	5000 ug/mL							
..VM569721S_00001	01/31/18		Restek, Lot A0108157			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMRGAS_00154	06/01/16	05/25/16	MEOH, Lot 0000127999	10 mL	vm569722_00004	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
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00004	04/30/18		Restek, Lot A0110070			(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_00158	06/27/16	06/20/16	MEOH, Lot 0000127999	10 mL	vm569722_00006	0.2 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.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.vm569722_00006	10/31/18		Restek, Lot A0115012			(Purchased Reagent)	Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
							Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
VMRPRIMW_00188	06/07/16	05/31/16	MEOH, Lot NA	1 mL	VMRPRIM_00017	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
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 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
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							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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-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	50 ug/mL
.VMRPRIM_00017	06/30/16	05/31/16	MEOH, Lot +173000000127999JM	50 mL	VM569720_00001	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-trifluor oethane	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-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
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

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-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
VM569721_00001			Restek, Lot A0108166			0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
VM569723_00001						2 mL	Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
VM569724_00004						0.5 mL	Vinyl acetate	50 ug/mL
							(Purchased Reagent)	
..VM569720_00001	01/31/17		Restek, Lot A0108166				1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
Naphthalene	2500 ug/mL							
o-Xylene	2500 ug/mL							
sec-Butylbenzene	2500 ug/mL							
Styrene	2500 ug/mL							
tert-Butylbenzene	2500 ug/mL							
Tetrachloroethene	2500 ug/mL							
Tetrahydrofuran	5000 ug/mL							
Toluene	2500 ug/mL							
trans-1,2-Dichloroethene	2500 ug/mL							
trans-1,3-Dichloropropene	2500 ug/mL							
trans-1,4-Dichloro-2-butene	2500 ug/mL							
Trichloroethene	2500 ug/mL							
..VM569721_00001	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VM569723 00001	01/31/18		restek, Lot A0108172			(Purchased Reagent)	Acetone	12500 ug/mL
..VM569724 00004	06/30/16		Restek, Lot A0115764			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
							Vinyl acetate	5000 ug/mL
VMRPRIMW_00190	06/20/16	06/13/16	MEOH, Lot NA	1 mL	VMRPRIM_00017	1 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMRPRIM_00017	06/30/16	05/31/16	MEOH, Lot +173000000127999JM	50 mL	VM569720_00001	1 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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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							
Xylenes, Total	100 ug/mL							
..VM569720_00001	01/31/17		Restek, Lot A0108166		(Purchased Reagent)		2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
o-Xylene	2500 ug/mL							
Styrene	2500 ug/mL							
Tetrachloroethene	2500 ug/mL							
Toluene	2500 ug/mL							
trans-1,2-Dichloroethene	2500 ug/mL							
trans-1,3-Dichloropropene	2500 ug/mL							
Trichloroethene	2500 ug/mL							
Xylenes, Total	5000 ug/mL							
..VM569721_00001	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
VMRPRIMW_00191	06/28/16	06/21/16	MEOH, Lot NA	1 mL	VMRPRIM_00017	1 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.: 240-66032-1

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
							1,2,4-Trichlorobenzene	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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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
							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
.VMRPRIM_00017	06/30/16	05/31/16	MEOH, Lot +173000000127999JM	50 mL	VM569720_00001	1 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

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-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-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	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
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 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
							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							
Xylenes, Total	100 ug/mL							
					VM569721_00001	0.4 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM569720_00001	01/31/17		Restek, Lot A0108166			(Purchased Reagent)	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..VM569721_00001	04/30/18		Restek, Lot A0110400			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
WC L-LCS_00001	12/23/16	06/23/16	DIWATER, Lot 222	1 L	WCWIBBYDEMAND_00008	500 mL	TOC Result 1	7.2 mg/L
							Total Organic Carbon	7.2 mg/L
.WCWIBBYDEMAND_00008	11/30/18		Phenova, Lot 8162-07			(Purchased Reagent)	TOC Result 1	14.4 mL
							Total Organic Carbon	14.4 mL
WC TOC CCVL_00101	06/28/16	06/21/16	DIWATER, Lot xxx	250 mL	WCCARBON1000_00028	1.25 mL	TOC Result 1	5 mg/L
							Total Organic Carbon	5 mg/L
.WCCARBON1000_00028	05/03/18		Absolute Standards, Lot 041916			(Purchased Reagent)	TOC Result 1	1000 mg/L
							Total Organic Carbon	1000 mg/L
WCICCALSO LN_00257	07/06/16	06/06/16	ELUENT, Lot 1847588	20 mL	WCICSOLNA1_00014	1.6 mL	Bromide	40 mg/L
							Chloride	200 mg/L
							Fluoride	10 mg/L
							Sulfate	200 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142		(Purchased Reagent)		Bromide	500 ug/mL
							Chloride	2500 ug/mL
							Fluoride	125 ug/mL
							Sulfate	2500 ug/mL
WCICCCV 00690	06/22/16	06/15/16	ELUENT, Lot 2522229	100 mL	WCICSOLNA1_00014	2 mL	Sulfate	50 mg/L
.WCICSOLNA1_00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142		(Purchased Reagent)		Sulfate	2500 ug/mL
WCICLCS 00531	06/08/16	06/01/16	MOHMWATER, Lot 032916	100 mL	WCICSOLNA2_00016	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831		(Purchased Reagent)		Sulfate	500 ug/mL
WCICLCS 00537	06/24/16	06/17/16	ELUENT, Lot 2522229	100 mL	WCICSOLNA2_00016	10 mL	Sulfate	50 mg/L
.WCICSOLNA2_00016	03/23/17		High Purity Standards, Lot 1607831		(Purchased Reagent)		Sulfate	500 ug/mL
WCICSOLNA1 00014	10/01/16		Inorganic Ventures, Lot J2-MEB594142		(Purchased Reagent)		Sulfate	2500 ug/mL
WCPHENOMINER 00015	05/31/18		PHENOVA-WIBBY, Lot 8156-08		(Purchased Reagent)		Alkalinity	368 mg/L
WCPHENOVOLID 00015	09/30/18		PHENOVA- WIBBY, Lot 8160-09		(Purchased Reagent)		Total Dissolved Solids	577 mg/L

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

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-061416	240-66032-1	94	95	101	96
NMW-2I-061416	240-66032-2	94	94	100	95
NMW-2S-061416	240-66032-3	95	95	102	98
NMW-3I-061416	240-66032-4	99	100	104	101
OUTFALL-9-061416	240-66032-5	94	94	105	99
	MB 240-235221/6	95	94	103	97
	MB 240-235346/6	95	96	103	99
	LCS 240-235221/4	93	92	102	99
	LCS 240-235346/4	94	93	103	98
NMW-2I-061416 MS	240-66032-2 MS	93	93	101	96
	240-65962-B-1 MS	95	92	104	98
NMW-2I-061416 MSD	240-66032-2 MSD	95	96	103	96
	240-65962-B-1 MSD	95	94	105	98

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

QC LIMITS
79-120
78-125
80-120
61-120

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.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXM6059.D

Lab ID: LCS 240-235221/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	9.62	96	77-123	
1,1,2,2-Tetrachloroethane	10.0	8.24	82	71-123	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.44	84	67-138	
1,1,2-Trichloroethane	10.0	8.73	87	80-120	
1,1-Dichloroethane	10.0	9.16	92	79-125	
1,1-Dichloroethene	10.0	8.38	84	76-124	
1,2,4-Trichlorobenzene	10.0	8.52	85	61-120	
1,2-Dibromo-3-Chloropropane	10.0	6.30	63	50-132	
Ethylene Dibromide	10.0	8.44	84	80-120	
1,2-Dichlorobenzene	10.0	9.04	90	79-120	
1,2-Dichloroethane	10.0	8.84	88	80-120	
1,2-Dichloropropane	10.0	9.24	92	78-124	
1,3-Dichlorobenzene	10.0	9.07	91	79-120	
1,4-Dichlorobenzene	10.0	9.17	92	79-120	
2-Butanone (MEK)	20.0	14.5	72	56-138	
2-Hexanone	20.0	15.0	75	55-141	
4-Methyl-2-pentanone (MIBK)	20.0	15.2	76	64-135	
Acetone	20.0	12.6	63	34-148	
Benzene	10.0	9.25	93	80-120	
Dichlorobromomethane	10.0	8.58	86	80-120	
Bromoform	10.0	8.16	82	56-122	
Bromomethane	10.0	8.13	81	38-132	
Carbon disulfide	10.0	8.82	88	65-144	
Carbon tetrachloride	10.0	8.99	90	77-131	
Chlorobenzene	10.0	9.21	92	80-120	
Chloroethane	10.0	6.91	69	36-126	
Chloroform	10.0	9.23	92	80-120	
Chloromethane	10.0	9.86	99	48-133	
cis-1,2-Dichloroethene	10.0	9.12	91	79-120	
cis-1,3-Dichloropropene	10.0	8.58	86	74-126	
Cyclohexane	10.0	9.27	93	60-140	
Chlorodibromomethane	10.0	7.92	79	74-120	
Dichlorodifluoromethane	10.0	8.77	88	23-136	
Ethylbenzene	10.0	9.26	93	80-120	
Isopropylbenzene	10.0	9.53	95	77-120	
Methyl acetate	50.0	38.4	77	67-131	
Methyl tert-butyl ether	10.0	8.59	86	69-121	
Methylcyclohexane	10.0	9.02	90	61-134	
Methylene Chloride	10.0	9.66	97	77-129	
Styrene	10.0	9.23	92	76-122	
Tetrachloroethene	10.0	9.24	92	78-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXM6059.D

Lab ID: LCS 240-235221/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	10.0	9.54	95	80-120	
trans-1,2-Dichloroethene	10.0	9.31	93	80-124	
trans-1,3-Dichloropropene	10.0	8.30	83	75-131	
Trichloroethene	10.0	9.09	91	80-121	
Trichlorofluoromethane	10.0	9.97	100	61-133	
Vinyl chloride	10.0	9.23	92	52-121	
Xylenes, Total	20.0	18.4	92	80-120	
m-Xylene & p-Xylene	10.0	9.22	92	80-120	
o-Xylene	10.0	9.21	92	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXM6089.D

Lab ID: LCS 240-235346/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	9.88	99	77-123	
1,1,2,2-Tetrachloroethane	10.0	8.62	86	71-123	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.66	87	67-138	
1,1,2-Trichloroethane	10.0	9.29	93	80-120	
1,1-Dichloroethane	10.0	9.71	97	79-125	
1,1-Dichloroethene	10.0	9.07	91	76-124	
1,2,4-Trichlorobenzene	10.0	9.02	90	61-120	
1,2-Dibromo-3-Chloropropane	10.0	7.07	71	50-132	
Ethylene Dibromide	10.0	9.14	91	80-120	
1,2-Dichlorobenzene	10.0	9.78	98	79-120	
1,2-Dichloroethane	10.0	9.44	94	80-120	
1,2-Dichloropropane	10.0	9.69	97	78-124	
1,3-Dichlorobenzene	10.0	9.55	95	79-120	
1,4-Dichlorobenzene	10.0	9.82	98	79-120	
2-Butanone (MEK)	20.0	14.4	72	56-138	
2-Hexanone	20.0	15.9	79	55-141	
4-Methyl-2-pentanone (MIBK)	20.0	16.2	81	64-135	
Acetone	20.0	13.7	68	34-148	
Benzene	10.0	9.73	97	80-120	
Dichlorobromomethane	10.0	8.90	89	80-120	
Bromoform	10.0	8.73	87	56-122	
Bromomethane	10.0	8.98	90	38-132	
Carbon disulfide	10.0	9.55	96	65-144	
Carbon tetrachloride	10.0	9.45	95	77-131	
Chlorobenzene	10.0	9.78	98	80-120	
Chloroethane	10.0	7.50	75	36-126	
Chloroform	10.0	9.85	99	80-120	
Chloromethane	10.0	10.5	105	48-133	
cis-1,2-Dichloroethene	10.0	9.70	97	79-120	
cis-1,3-Dichloropropene	10.0	9.13	91	74-126	
Cyclohexane	10.0	9.89	99	60-140	
Chlorodibromomethane	10.0	8.42	84	74-120	
Dichlorodifluoromethane	10.0	9.61	96	23-136	
Ethylbenzene	10.0	9.78	98	80-120	
Isopropylbenzene	10.0	9.94	99	77-120	
Methyl acetate	50.0	40.9	82	67-131	
Methyl tert-butyl ether	10.0	8.87	89	69-121	
Methylcyclohexane	10.0	9.55	95	61-134	
Methylene Chloride	10.0	9.93	99	77-129	
Styrene	10.0	9.54	95	76-122	
Tetrachloroethene	10.0	9.59	96	78-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXM6089.D

Lab ID: LCS 240-235346/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	10.0	10.1	101	80-120	
trans-1,2-Dichloroethene	10.0	10.1	101	80-124	
trans-1,3-Dichloropropene	10.0	8.97	90	75-131	
Trichloroethene	10.0	9.42	94	80-121	
Trichlorofluoromethane	10.0	10.9	109	61-133	
Vinyl chloride	10.0	9.67	97	52-121	
Xylenes, Total	20.0	19.5	97	80-120	
m-Xylene & p-Xylene	10.0	9.79	98	80-120	
o-Xylene	10.0	9.67	97	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXM6100.D

Lab ID: 240-66032-2 MS

Client ID: NMW-2I-061416 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	1250	130 U	1250	100	69-122	
1,1,2,2-Tetrachloroethane	1250	130 U	1050	84	61-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	1250	130 U	1100	88	44-140	
1,1,2-Trichloroethane	1250	130 U	1120	89	72-125	
1,1-Dichloroethane	1250	130 U	1200	96	73-124	
1,1-Dichloroethene	1250	58 J	1170	89	67-124	
1,2,4-Trichlorobenzene	1250	130 U	1100	88	48-120	
1,2-Dibromo-3-Chloropropane	1250	250 U	817	65	42-130	
Ethylene Dibromide	1250	130 U	1100	88	69-125	
1,2-Dichlorobenzene	1250	130 U	1200	96	67-118	
1,2-Dichloroethane	1250	130 U	1160	93	74-125	
1,2-Dichloropropane	1250	130 U	1220	97	73-122	
1,3-Dichlorobenzene	1250	130 U	1200	96	65-120	
1,4-Dichlorobenzene	1250	130 U	1210	97	66-120	
2-Butanone (MEK)	2500	1300 U	1780	71	49-132	
2-Hexanone	2500	1300 U	1840	74	49-142	
4-Methyl-2-pentanone (MIBK)	2500	1300 U	1960	78	58-136	
Acetone	2500	1300 U	1560	62	32-126	
Benzene	1250	130 U	1230	98	73-121	
Dichlorobromomethane	1250	130 U	1130	90	72-120	
Bromoform	1250	130 U	1010	81	45-121	
Bromomethane	1250	130 U	854	68	26-136	
Carbon disulfide	1250	130 U	1190	95	54-144	
Carbon tetrachloride	1250	130 U	1170	93	65-129	
Chlorobenzene	1250	130 U	1190	95	72-120	
Chloroethane	1250	130 U	810	65	27-131	
Chloroform	1250	130 U	1210	97	73-121	
Chloromethane	1250	130 U	1220	98	39-134	
cis-1,2-Dichloroethene	1250	3100	4330	95	66-124	
cis-1,3-Dichloropropene	1250	130 U	1120	90	60-120	
Cyclohexane	1250	130 U	1190	95	41-137	
Chlorodibromomethane	1250	130 U	1010	81	62-122	
Dichlorodifluoromethane	1250	130 U	1080	86	14-137	
Ethylbenzene	1250	130 U	1210	97	68-121	
Isopropylbenzene	1250	130 U	1240	99	61-122	
Methyl acetate	6250	1300 U	4960	79	64-124	
Methyl tert-butyl ether	1250	130 U	1100	88	61-121	
Methylcyclohexane	1250	130 U	1150	92	39-135	
Methylene Chloride	1250	130 U	1200	96	70-124	
Styrene	1250	130 U	1190	95	64-126	
Tetrachloroethene	1250	130 U	1200	96	59-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXM6100.D
 Lab ID: 240-66032-2 MS Client ID: NMW-2I-061416 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	1250	130 U	1250	100	72-122	
trans-1,2-Dichloroethene	1250	130 U	1260	100	72-125	
trans-1,3-Dichloropropene	1250	130 U	1060	85	58-132	
Trichloroethene	1250	3500	4680	95	61-129	
Trichlorofluoromethane	1250	130 U	1290	103	49-133	
Vinyl chloride	1250	290	1460	93	44-122	
Xylenes, Total	2500	250 U	2370	95	67-122	
m-Xylene & p-Xylene	1250	250 U	1190	96	66-123	
o-Xylene	1250	130 U	1180	95	68-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXM6071.D

Lab ID: 240-65962-B-1 MS

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	3330	330 U	3230	97	69-122	
1,1,2,2-Tetrachloroethane	3330	330 U	2640	79	61-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	3330	330 U	2730	82	44-140	
1,1,2-Trichloroethane	3330	330 U	2820	85	72-125	
1,1-Dichloroethane	3330	330 U	3030	91	73-124	
1,1-Dichloroethene	3330	330 U	2770	83	67-124	
1,2,4-Trichlorobenzene	3330	330 U	2870	86	48-120	
1,2-Dibromo-3-Chloropropane	3330	670 U	2080	62	42-130	
Ethylene Dibromide	3330	330 U	2690	81	69-125	
1,2-Dichlorobenzene	3330	330 U	3020	91	67-118	
1,2-Dichloroethane	3330	330 U	2900	87	74-125	
1,2-Dichloropropane	3330	330 U	2980	89	73-122	
1,3-Dichlorobenzene	3330	330 U	3020	91	65-120	
1,4-Dichlorobenzene	3330	330 U	3100	93	66-120	
2-Butanone (MEK)	6670	3300 U	4250	64	49-132	
2-Hexanone	6670	3300 U	4590	69	49-142	
4-Methyl-2-pentanone (MIBK)	6670	3300 U	4760	71	58-136	
Acetone	6670	3300 U	3700	56	32-126	
Benzene	3330	330 U	3080	92	73-121	
Dichlorobromomethane	3330	330 U	2760	83	72-120	
Bromoform	3330	330 U	2590	78	45-121	
Bromomethane	3330	330 U	3280	98	26-136	
Carbon disulfide	3330	330 U	2910	87	54-144	
Carbon tetrachloride	3330	330 U	3010	90	65-129	
Chlorobenzene	3330	330 U	3030	91	72-120	
Chloroethane	3330	330 U	2600	78	27-131	
Chloroform	3330	330 U	3110	93	73-121	
Chloromethane	3330	330 U	3220	97	39-134	
cis-1,2-Dichloroethene	3330	3400	6410	91	66-124	
cis-1,3-Dichloropropene	3330	330 U	2730	82	60-120	
Cyclohexane	3330	330 U	3050	92	41-137	
Chlorodibromomethane	3330	330 U	2530	76	62-122	
Dichlorodifluoromethane	3330	330 U	2830	85	14-137	
Ethylbenzene	3330	330 U	3100	93	68-121	
Isopropylbenzene	3330	330 U	3180	95	61-122	
Methyl acetate	16700	3300 U	12200	73	64-124	
Methyl tert-butyl ether	3330	330 U	2740	82	61-121	
Methylcyclohexane	3330	330 U	2960	89	39-135	
Methylene Chloride	3330	330 U	3090	93	70-124	
Styrene	3330	330 U	2990	90	64-126	
Tetrachloroethene	3330	330 U	3050	92	59-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXM6071.D

Lab ID: 240-65962-B-1 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	3330	330 U	3170	95	72-122	
trans-1,2-Dichloroethene	3330	330 U	3160	95	72-125	
trans-1,3-Dichloropropene	3330	330 U	2620	79	58-132	
Trichloroethene	3330	9400	12300	86	61-129	
Trichlorofluoromethane	3330	330 U	4020	121	49-133	
Vinyl chloride	3330	330 U	3120	94	44-122	
Xylenes, Total	6670	670 U	6060	91	67-122	
m-Xylene & p-Xylene	3330	670 U	3060	92	66-123	
o-Xylene	3330	330 U	3000	90	68-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXM6101.D

Lab ID: 240-66032-2 MSD

Client ID: NMW-2I-061416 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	1250	1250	100	0	14	69-122	
1,1,2,2-Tetrachloroethane	1250	1060	85	0	18	61-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	1250	1060	85	3	35	44-140	
1,1,2-Trichloroethane	1250	1090	88	2	19	72-125	
1,1-Dichloroethane	1250	1180	94	2	14	73-124	
1,1-Dichloroethene	1250	1160	88	1	24	67-124	
1,2,4-Trichlorobenzene	1250	1110	89	0	28	48-120	
1,2-Dibromo-3-Chloropropane	1250	828	66	1	24	42-130	
Ethylene Dibromide	1250	1080	86	2	24	69-125	
1,2-Dichlorobenzene	1250	1180	94	2	15	67-118	
1,2-Dichloroethane	1250	1160	93	0	24	74-125	
1,2-Dichloropropane	1250	1180	95	3	15	73-122	
1,3-Dichlorobenzene	1250	1160	93	3	15	65-120	
1,4-Dichlorobenzene	1250	1190	96	1	16	66-120	
2-Butanone (MEK)	2500	1720	69	3	19	49-132	
2-Hexanone	2500	1770	71	4	27	49-142	
4-Methyl-2-pentanone (MIBK)	2500	1920	77	2	32	58-136	
Acetone	2500	1580	63	1	28	32-126	
Benzene	1250	1210	97	2	13	73-121	
Dichlorobromomethane	1250	1100	88	2	19	72-120	
Bromoform	1250	1000	80	0	19	45-121	
Bromomethane	1250	1240	99	37	35	26-136	F2
Carbon disulfide	1250	1190	95	0	34	54-144	
Carbon tetrachloride	1250	1140	91	3	20	65-129	
Chlorobenzene	1250	1160	93	3	15	72-120	
Chloroethane	1250	954	76	16	35	27-131	
Chloroform	1250	1200	96	1	17	73-121	
Chloromethane	1250	1270	101	4	20	39-134	
cis-1,2-Dichloroethene	1250	4330	95	0	22	66-124	
cis-1,3-Dichloropropene	1250	1080	86	4	21	60-120	
Cyclohexane	1250	1160	93	3	35	41-137	
Chlorodibromomethane	1250	989	79	3	19	62-122	
Dichlorodifluoromethane	1250	1100	88	2	34	14-137	
Ethylbenzene	1250	1160	93	4	16	68-121	
Isopropylbenzene	1250	1210	97	3	20	61-122	
Methyl acetate	6250	4920	79	1	12	64-124	
Methyl tert-butyl ether	1250	1070	85	3	12	61-121	
Methylcyclohexane	1250	1120	90	3	35	39-135	
Methylene Chloride	1250	1200	96	0	14	70-124	
Styrene	1250	1150	92	3	15	64-126	
Tetrachloroethene	1250	1170	94	3	20	59-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXM6101.D

Lab ID: 240-66032-2 MSD Client ID: NMW-2I-061416 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	1250	1210	97	3	15	72-122	
trans-1,2-Dichloroethene	1250	1240	99	1	25	72-125	
trans-1,3-Dichloropropene	1250	1030	83	2	22	58-132	
Trichloroethene	1250	4680	95	0	14	61-129	
Trichlorofluoromethane	1250	1360	108	5	25	49-133	
Vinyl chloride	1250	1450	92	1	35	44-122	
Xylenes, Total	2500	2330	93	2	14	67-122	
m-Xylene & p-Xylene	1250	1170	94	2	15	66-123	
o-Xylene	1250	1160	93	2	14	68-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: UXM6072.D

Lab ID: 240-65962-B-1 MSD

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	3330	3250	98	1	14	69-122	
1,1,2,2-Tetrachloroethane	3330	2790	84	5	18	61-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	3330	2870	86	5	35	44-140	
1,1,2-Trichloroethane	3330	2990	90	6	19	72-125	
1,1-Dichloroethane	3330	3040	91	0	14	73-124	
1,1-Dichloroethene	3330	2810	84	1	24	67-124	
1,2,4-Trichlorobenzene	3330	2980	89	4	28	48-120	
1,2-Dibromo-3-Chloropropane	3330	2190	66	5	24	42-130	
Ethylene Dibromide	3330	2850	86	6	24	69-125	
1,2-Dichlorobenzene	3330	3140	94	4	15	67-118	
1,2-Dichloroethane	3330	2890	87	0	24	74-125	
1,2-Dichloropropane	3330	3090	93	3	15	73-122	
1,3-Dichlorobenzene	3330	3140	94	4	15	65-120	
1,4-Dichlorobenzene	3330	3190	96	3	16	66-120	
2-Butanone (MEK)	6670	4260	64	0	19	49-132	
2-Hexanone	6670	4890	73	6	27	49-142	
4-Methyl-2-pentanone (MIBK)	6670	5010	75	5	32	58-136	
Acetone	6670	4070	61	9	28	32-126	
Benzene	3330	3080	92	0	13	73-121	
Dichlorobromomethane	3330	2840	85	3	19	72-120	
Bromoform	3330	2590	78	0	19	45-121	
Bromomethane	3330	2510	75	26	35	26-136	
Carbon disulfide	3330	2940	88	1	34	54-144	
Carbon tetrachloride	3330	3020	91	0	20	65-129	
Chlorobenzene	3330	3170	95	4	15	72-120	
Chloroethane	3330	2250	67	15	35	27-131	
Chloroform	3330	3100	93	0	17	73-121	
Chloromethane	3330	3150	95	2	20	39-134	
cis-1,2-Dichloroethene	3330	6330	89	1	22	66-124	
cis-1,3-Dichloropropene	3330	2830	85	3	21	60-120	
Cyclohexane	3330	3120	94	2	35	41-137	
Chlorodibromomethane	3330	2630	79	4	19	62-122	
Dichlorodifluoromethane	3330	2950	88	4	34	14-137	
Ethylbenzene	3330	3210	96	3	16	68-121	
Isopropylbenzene	3330	3270	98	3	20	61-122	
Methyl acetate	16700	12700	76	4	12	64-124	
Methyl tert-butyl ether	3330	2820	85	3	12	61-121	
Methylcyclohexane	3330	3070	92	4	35	39-135	
Methylene Chloride	3330	3000	90	3	14	70-124	
Styrene	3330	3120	94	4	15	64-126	
Tetrachloroethene	3330	3100	93	1	20	59-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: UXM6072.D

Lab ID: 240-65962-B-1 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	3330	3250	98	3	15	72-122	
trans-1,2-Dichloroethene	3330	3180	95	1	25	72-125	
trans-1,3-Dichloropropene	3330	2790	84	6	22	58-132	
Trichloroethene	3330	12100	81	1	14	61-129	
Trichlorofluoromethane	3330	3670	110	9	25	49-133	
Vinyl chloride	3330	3140	94	1	35	44-122	
Xylenes, Total	6670	6300	95	4	14	67-122	
m-Xylene & p-Xylene	3330	3160	95	3	15	66-123	
o-Xylene	3330	3140	94	5	14	68-121	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab File ID: UXM6063.D Lab Sample ID: MB 240-235221/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX16 Date Analyzed: 06/20/2016 13:55
 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 240-235221/4	UXM6059.D	06/20/2016 12:25
	240-65962-B-1 MS	UXM6071.D	06/20/2016 16:56
	240-65962-B-1 MSD	UXM6072.D	06/20/2016 17:19
TB-061416	240-66032-1	UXM6079.D	06/20/2016 19:58
NMW-2S-061416	240-66032-3	UXM6081.D	06/20/2016 20:43
NMW-3I-061416	240-66032-4	UXM6082.D	06/20/2016 21:06
OUTFALL-9-061416	240-66032-5	UXM6083.D	06/20/2016 21:29

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab File ID: UXM6092.D Lab Sample ID: MB 240-235346/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX16 Date Analyzed: 06/21/2016 13:57
 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 240-235346/4	UXM6089.D	06/21/2016 12:49
NMW-2I-061416	240-66032-2	UXM6093.D	06/21/2016 14:20
NMW-2I-061416 MS	240-66032-2 MS	UXM6100.D	06/21/2016 17:00
NMW-2I-061416 MSD	240-66032-2 MSD	UXM6101.D	06/21/2016 17:22

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

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab File ID: BFB4865.D BFB Injection Date: 06/01/2016
 Instrument ID: A3UX16 BFB Injection Time: 11:38
 Analysis Batch No.: 232711

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	47.6
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	0.4 (0.5) 1
174	50.0 - 120.00 % of mass 95	74.9
175	5.0 - 9.0 % of mass 174	5.3 (7.1) 1
176	95.0 - 101.0 % of mass 174	73.3 (97.9) 1
177	5.0 - 9.0 % of mass 176	5.1 (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
	STD8269 240-232711/2	UXM5570.D	06/01/2016	12:06
	STD8260 240-232711/3	UXM5571.D	06/01/2016	12:29
	STD8260 240-232711/4	UXM5572.D	06/01/2016	12:51
	STD8260 240-232711/5	UXM5573.D	06/01/2016	13:14
	STD8260 240-232711/6	UXM5574.D	06/01/2016	13:37
	STD8260 240-232711/7	UXM5575.D	06/01/2016	14:00
	STD8260 240-232711/8	UXM5576.D	06/01/2016	14:22
	ICV 240-232711/9	UXM5577.D	06/01/2016	14:45
	ICV 240-232711/16	UXM5584.D	06/01/2016	17:24

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

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab File ID: BFB4888.D BFB Injection Date: 06/20/2016
 Instrument ID: A3UX16 BFB Injection Time: 11:25
 Analysis Batch No.: 235221

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.0
75	30.0 - 60.0 % of mass 95	48.4
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	0.2 (0.2) 1
174	50.0 - 120.00 % of mass 95	74.1
175	5.0 - 9.0 % of mass 174	5.1 (6.9) 1
176	95.0 - 101.0 % of mass 174	72.1 (97.3) 1
177	5.0 - 9.0 % of mass 176	4.5 (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
	LCS 240-235221/4	UXM6059.D	06/20/2016	12:25
	CCVIS 240-235221/2	UXM6060.D	06/20/2016	12:47
	CCV 240-235221/3	UXM6061.D	06/20/2016	13:10
	MB 240-235221/6	UXM6063.D	06/20/2016	13:55
	240-65962-B-1 MS	UXM6071.D	06/20/2016	16:56
	240-65962-B-1 MSD	UXM6072.D	06/20/2016	17:19
TB-061416	240-66032-1	UXM6079.D	06/20/2016	19:58
NMW-2S-061416	240-66032-3	UXM6081.D	06/20/2016	20:43
NMW-3I-061416	240-66032-4	UXM6082.D	06/20/2016	21:06
OUTFALL-9-061416	240-66032-5	UXM6083.D	06/20/2016	21:29

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

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab File ID: BFB4889.D BFB Injection Date: 06/21/2016
 Instrument ID: A3UX16 BFB Injection Time: 11:57
 Analysis Batch No.: 235346

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.3	
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	6.1	
173	Less than 2.0 % of mass 174	0.9	(1.2) 1
174	50.0 - 120.00 % of mass 95	75.3	
175	5.0 - 9.0 % of mass 174	5.3	(7.1) 1
176	95.0 - 101.0 % of mass 174	74.0	(98.2) 1
177	5.0 - 9.0 % of mass 176	4.9	(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 240-235346/2	UXM6088.D	06/21/2016	12:26
	LCS 240-235346/4	UXM6089.D	06/21/2016	12:49
	CCV 240-235346/3	UXM6090.D	06/21/2016	13:12
	MB 240-235346/6	UXM6092.D	06/21/2016	13:57
NMW-2I-061416	240-66032-2	UXM6093.D	06/21/2016	14:20
NMW-2I-061416 MS	240-66032-2 MS	UXM6100.D	06/21/2016	17:00
NMW-2I-061416 MSD	240-66032-2 MSD	UXM6101.D	06/21/2016	17:22

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

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Sample No.: STD8260 240-232711/4 Date Analyzed: 06/01/2016 12:51
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXM5572.D Heated Purge: (Y/N) N
 Calibration ID: 34643

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1415622	5.17	1000389	7.87	522407	10.10	
UPPER LIMIT	2831244	5.67	2000778	8.37	1044814	10.60	
LOWER LIMIT	707811	4.67	500195	7.37	261204	9.60	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-232711/9		1350700	5.17	956772	7.85	515548	10.10
ICV 240-232711/16		1312230	5.17	922566	7.85	494155	10.10
CCVIS 240-235221/2		1396171	5.17	949016	7.85	500239	10.10
CCVIS 240-235346/2		1347392	5.17	919693	7.87	503772	10.11

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Sample No.: CCVIS 240-235221/2 Date Analyzed: 06/20/2016 12:47
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXM6060.D Heated Purge: (Y/N) N
 Calibration ID: 34649

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1396171	5.17	949016	7.85	500239	10.10	
UPPER LIMIT	2792342	5.67	1898032	8.35	1000478	10.60	
LOWER LIMIT	698086	4.67	474508	7.35	250120	9.60	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-235221/3		1375714	5.17	916832	7.85	492698	10.10
MB 240-235221/6		1343976	5.17	893870	7.85	468158	10.10
240-65962-B-1 MS		1390550	5.17	929879	7.85	499779	10.10
240-65962-B-1 MSD		1373761	5.17	912327	7.87	488907	10.10
240-66032-1	TB-061416	1350302	5.17	921223	7.85	491843	10.10
240-66032-3	NMW-2S-061416	1365505	5.17	917683	7.85	488934	10.10
240-66032-4	NMW-3I-061416	1275757	5.17	876605	7.85	460429	10.10
240-66032-5	OUTFALL-9-061416	1333369	5.17	886276	7.85	476125	10.10

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Sample No.: CCVIS 240-235346/2 Date Analyzed: 06/21/2016 12:26
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXM6088.D Heated Purge: (Y/N) N
 Calibration ID: 34649

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1347392	5.17	919693	7.87	503772	10.11	
UPPER LIMIT	2694784	5.67	1839386	8.37	1007544	10.61	
LOWER LIMIT	673696	4.67	459847	7.37	251886	9.61	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-235346/4	1404280	5.17	954984	7.87	501740	10.10	
CCV 240-235346/3	1353661	5.17	910466	7.85	472237	10.10	
MB 240-235346/6	1347328	5.17	918918	7.85	474043	10.10	
240-66032-2	NMW-2I-061416	1358438	5.17	935995	7.85	481985	10.10
240-66032-2 MS	NMW-2I-061416 MS	1354517	5.17	938125	7.87	495131	10.10
240-66032-2 MSD	NMW-2I-061416 MSD	1351203	5.17	931945	7.85	492505	10.10

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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: TB-061416 Lab Sample ID: 240-66032-1
 Matrix: Water Lab File ID: UXM6079.D
 Analysis Method: 8260C Date Collected: 06/14/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 19:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: TB-061416 Lab Sample ID: 240-66032-1
 Matrix: Water Lab File ID: UXM6079.D
 Analysis Method: 8260C Date Collected: 06/14/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 19:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120
460-00-4	4-Bromofluorobenzene (Surr)	96		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2I-061416 Lab Sample ID: 240-66032-2
 Matrix: Water Lab File ID: UXM6093.D
 Analysis Method: 8260C Date Collected: 06/14/2016 10:17
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2016 14:20
 Soil Aliquot Vol: _____ Dilution Factor: 125
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235346 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	130	U	130	55
79-34-5	1,1,2,2-Tetrachloroethane	130	U	130	28
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	130	U	130	56
79-00-5	1,1,2-Trichloroethane	130	U	130	30
75-34-3	1,1-Dichloroethane	130	U	130	38
75-35-4	1,1-Dichloroethene	58	J	130	56
120-82-1	1,2,4-Trichlorobenzene	130	U	130	40
96-12-8	1,2-Dibromo-3-Chloropropane	250	U	250	100
106-93-4	Ethylene Dibromide	130	U	130	40
95-50-1	1,2-Dichlorobenzene	130	U	130	31
107-06-2	1,2-Dichloroethane	130	U	130	29
78-87-5	1,2-Dichloropropane	130	U	130	31
541-73-1	1,3-Dichlorobenzene	130	U	130	24
106-46-7	1,4-Dichlorobenzene	130	U	130	34
78-93-3	2-Butanone (MEK)	1300	U	1300	66
591-78-6	2-Hexanone	1300	U	1300	60
108-10-1	4-Methyl-2-pentanone (MIBK)	1300	U	1300	120
67-64-1	Acetone	1300	U	1300	120
71-43-2	Benzene	130	U	130	44
75-27-4	Dichlorobromomethane	130	U	130	36
75-25-2	Bromoform	130	U	130	70
74-83-9	Bromomethane	130	U F2	130	55
75-15-0	Carbon disulfide	130	U	130	48
56-23-5	Carbon tetrachloride	130	U	130	54
108-90-7	Chlorobenzene	130	U	130	31
75-00-3	Chloroethane	130	U	130	40
67-66-3	Chloroform	130	U	130	31
74-87-3	Chloromethane	130	U	130	55
156-59-2	cis-1,2-Dichloroethene	3100		130	33
10061-01-5	cis-1,3-Dichloropropene	130	U	130	58
110-82-7	Cyclohexane	130	U	130	56
124-48-1	Chlorodibromomethane	130	U	130	54
75-71-8	Dichlorodifluoromethane	130	U	130	40
100-41-4	Ethylbenzene	130	U	130	31
98-82-8	Isopropylbenzene	130	U	130	44

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2I-061416 Lab Sample ID: 240-66032-2
 Matrix: Water Lab File ID: UXM6093.D
 Analysis Method: 8260C Date Collected: 06/14/2016 10:17
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2016 14:20
 Soil Aliquot Vol: _____ Dilution Factor: 125
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235346 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	1300	U	1300	280
1634-04-4	Methyl tert-butyl ether	130	U	130	25
108-87-2	Methylcyclohexane	130	U	130	54
75-09-2	Methylene Chloride	130	U	130	41
100-42-5	Styrene	130	U	130	56
127-18-4	Tetrachloroethene	130	U	130	39
108-88-3	Toluene	130	U	130	29
156-60-5	trans-1,2-Dichloroethene	130	U	130	38
10061-02-6	trans-1,3-Dichloropropene	130	U	130	70
79-01-6	Trichloroethene	3500		130	28
75-69-4	Trichlorofluoromethane	130	U	130	61
75-01-4	Vinyl chloride	290		130	36
1330-20-7	Xylenes, Total	250	U	250	65

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120
460-00-4	4-Bromofluorobenzene (Surr)	95		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2S-061416 Lab Sample ID: 240-66032-3
 Matrix: Water Lab File ID: UXM6081.D
 Analysis Method: 8260C Date Collected: 06/14/2016 14:40
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 20:43
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	40	U	40	18
79-34-5	1,1,2,2-Tetrachloroethane	40	U	40	8.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	40	U	40	18
79-00-5	1,1,2-Trichloroethane	40	U	40	9.6
75-34-3	1,1-Dichloroethane	40	U	40	12
75-35-4	1,1-Dichloroethene	40	U	40	18
120-82-1	1,2,4-Trichlorobenzene	40	U	40	13
96-12-8	1,2-Dibromo-3-Chloropropane	80	U	80	33
106-93-4	Ethylene Dibromide	40	U	40	13
95-50-1	1,2-Dichlorobenzene	40	U	40	10
107-06-2	1,2-Dichloroethane	40	U	40	9.2
78-87-5	1,2-Dichloropropane	40	U	40	10
541-73-1	1,3-Dichlorobenzene	40	U	40	7.6
106-46-7	1,4-Dichlorobenzene	40	U	40	11
78-93-3	2-Butanone (MEK)	400	U	400	21
591-78-6	2-Hexanone	400	U	400	19
108-10-1	4-Methyl-2-pentanone (MIBK)	400	U	400	40
67-64-1	Acetone	400	U	400	38
71-43-2	Benzene	40	U	40	14
75-27-4	Dichlorobromomethane	40	U	40	12
75-25-2	Bromoform	40	U	40	22
74-83-9	Bromomethane	40	U	40	18
75-15-0	Carbon disulfide	40	U	40	15
56-23-5	Carbon tetrachloride	40	U	40	17
108-90-7	Chlorobenzene	40	U	40	10
75-00-3	Chloroethane	40	U	40	13
67-66-3	Chloroform	40	U	40	10
74-87-3	Chloromethane	40	U	40	18
156-59-2	cis-1,2-Dichloroethene	520		40	10
10061-01-5	cis-1,3-Dichloropropene	40	U	40	18
110-82-7	Cyclohexane	40	U	40	18
124-48-1	Chlorodibromomethane	40	U	40	17
75-71-8	Dichlorodifluoromethane	40	U	40	13
100-41-4	Ethylbenzene	40	U	40	10
98-82-8	Isopropylbenzene	40	U	40	14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2S-061416 Lab Sample ID: 240-66032-3
 Matrix: Water Lab File ID: UXM6081.D
 Analysis Method: 8260C Date Collected: 06/14/2016 14:40
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 20:43
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	400	U	400	91
1634-04-4	Methyl tert-butyl ether	40	U	40	8.0
108-87-2	Methylcyclohexane	40	U	40	17
75-09-2	Methylene Chloride	40	U	40	13
100-42-5	Styrene	40	U	40	18
127-18-4	Tetrachloroethene	40	U	40	12
108-88-3	Toluene	40	U	40	9.2
156-60-5	trans-1,2-Dichloroethene	40	U	40	12
10061-02-6	trans-1,3-Dichloropropene	40	U	40	22
79-01-6	Trichloroethene	74		40	8.8
75-69-4	Trichlorofluoromethane	40	U	40	20
75-01-4	Vinyl chloride	130		40	12
1330-20-7	Xylenes, Total	80	U	80	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120
460-00-4	4-Bromofluorobenzene (Surr)	98		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-3I-061416 Lab Sample ID: 240-66032-4
 Matrix: Water Lab File ID: UXM6082.D
 Analysis Method: 8260C Date Collected: 06/14/2016 12:06
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 21:06
 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.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	100	U	100	44
79-34-5	1,1,2,2-Tetrachloroethane	100	U	100	22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U	100	45
79-00-5	1,1,2-Trichloroethane	100	U	100	24
75-34-3	1,1-Dichloroethane	100	U	100	30
75-35-4	1,1-Dichloroethene	100	U	100	45
120-82-1	1,2,4-Trichlorobenzene	100	U	100	32
96-12-8	1,2-Dibromo-3-Chloropropane	200	U	200	82
106-93-4	Ethylene Dibromide	100	U	100	32
95-50-1	1,2-Dichlorobenzene	100	U	100	25
107-06-2	1,2-Dichloroethane	100	U	100	23
78-87-5	1,2-Dichloropropane	100	U	100	25
541-73-1	1,3-Dichlorobenzene	100	U	100	19
106-46-7	1,4-Dichlorobenzene	100	U	100	27
78-93-3	2-Butanone (MEK)	1000	U	1000	53
591-78-6	2-Hexanone	1000	U	1000	48
108-10-1	4-Methyl-2-pentanone (MIBK)	1000	U	1000	99
67-64-1	Acetone	1000	U	1000	94
71-43-2	Benzene	100	U	100	35
75-27-4	Dichlorobromomethane	100	U	100	29
75-25-2	Bromoform	100	U	100	56
74-83-9	Bromomethane	100	U	100	44
75-15-0	Carbon disulfide	100	U	100	38
56-23-5	Carbon tetrachloride	100	U	100	43
108-90-7	Chlorobenzene	100	U	100	25
75-00-3	Chloroethane	100	U	100	32
67-66-3	Chloroform	100	U	100	25
74-87-3	Chloromethane	100	U	100	44
156-59-2	cis-1,2-Dichloroethene	1100		100	26
10061-01-5	cis-1,3-Dichloropropene	100	U	100	46
110-82-7	Cyclohexane	100	U	100	45
124-48-1	Chlorodibromomethane	100	U	100	43
75-71-8	Dichlorodifluoromethane	100	U	100	32
100-41-4	Ethylbenzene	100	U	100	25
98-82-8	Isopropylbenzene	100	U	100	35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-3I-061416 Lab Sample ID: 240-66032-4
 Matrix: Water Lab File ID: UXM6082.D
 Analysis Method: 8260C Date Collected: 06/14/2016 12:06
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 21:06
 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.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	1000	U	1000	230
1634-04-4	Methyl tert-butyl ether	100	U	100	20
108-87-2	Methylcyclohexane	100	U	100	43
75-09-2	Methylene Chloride	100	U	100	33
100-42-5	Styrene	100	U	100	45
127-18-4	Tetrachloroethene	100	U	100	31
108-88-3	Toluene	100	U	100	23
156-60-5	trans-1,2-Dichloroethene	100	U	100	30
10061-02-6	trans-1,3-Dichloropropene	100	U	100	56
79-01-6	Trichloroethene	100	U	100	22
75-69-4	Trichlorofluoromethane	100	U	100	49
75-01-4	Vinyl chloride	250		100	29
1330-20-7	Xylenes, Total	200	U	200	52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		79-120
460-00-4	4-Bromofluorobenzene (Surr)	101		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: OUTFALL-9-061416 Lab Sample ID: 240-66032-5
 Matrix: Water Lab File ID: UXM6083.D
 Analysis Method: 8260C Date Collected: 06/14/2016 14:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 21:29
 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.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: OUTFALL-9-061416 Lab Sample ID: 240-66032-5
 Matrix: Water Lab File ID: UXM6083.D
 Analysis Method: 8260C Date Collected: 06/14/2016 14:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 21:29
 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.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.22	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120
460-00-4	4-Bromofluorobenzene (Surr)	99		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-125

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

Lab Name: TestAmerica Canton Job No.: 240-66032-1 Analy Batch No.: 232711

SDG No.: _____

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2016 12:06 Calibration End Date: 06/01/2016 14:22 Calibration ID: 34643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-232711/8	UXM5576.D
Level 2	STD8260 240-232711/7	UXM5575.D
Level 3	STD8260 240-232711/6	UXM5574.D
Level 4	STD8260 240-232711/5	UXM5573.D
Level 5	STD8260 240-232711/4	UXM5572.D
Level 6	STD8260 240-232711/3	UXM5571.D
Level 7	STD8269 240-232711/2	UXM5570.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Dichlorodifluoromethane	0.2658 0.2547	0.2105 0.2462	0.2317	0.2446	0.2397	Ave		0.2419			0.1000	7.3	20.0				
Chloromethane	0.3226 0.2701	0.3026 0.2864	0.2941	0.3192	0.2884	Ave		0.2976			0.1000	6.3	20.0				
Vinyl chloride	0.3255 0.2922	0.3084 0.2978	0.2872	0.3180	0.3044	Ave		0.3048			0.1000	4.5	20.0				
Butadiene	0.3225 0.2831	0.3028 0.2740	0.3071	0.2922	0.2814	Ave		0.2947				5.8	20.0				
Bromomethane	0.1151 0.0765	0.1086 0.0681	0.1054	0.1220	0.0735	Qua	0.0578	0.0802	-0.000339		0.0500			0.9940		0.9900	
Chloroethane	0.1578 0.1246	0.1362 0.1173	0.1504	0.1643	0.1208	Ave		0.1388			0.0500	13.6	20.0				
Dichlorofluoromethane	0.5184 0.2583	0.2843 0.2476	0.3142	0.3606	0.2407	Qua	0.1531	0.2534	-0.000241					0.9970		0.9900	
Trichlorofluoromethane	0.2173 0.1946	0.2095 0.1761	0.1992	0.2109	0.1892	Ave		0.1995			0.1000	7.2	20.0				
Ethyl ether	0.3560 0.2099	0.3010 0.2201	0.2684	0.2256	0.2235	Lin1	0.0783	0.2144						0.9990		0.9900	
Acrolein	0.0391 0.0315	0.0353 0.0335	0.0358	0.0343	0.0330	Ave		0.0346				7.0	20.0				
1,1-Dichloroethene	0.3372 0.2539	0.2530 0.2663	0.2570	0.2618	0.2679	Ave		0.2710			0.1000	11.0	20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2237 0.1940	0.1930 0.1798	0.1824	0.1752	0.1856	Ave		0.1905			0.0500	8.5	20.0				
Acetone	0.2239 0.0715	0.1440 0.0727	0.0985	0.0817	0.0769	Lin1	0.1458	0.0695			0.0100			0.9990		0.9900	
Iodomethane	0.4300 0.3525	0.3807 0.3707	0.3992	0.3934	0.3676	Ave		0.3849				6.6	20.0				

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.: 240-66032-1 Analy Batch No.: 232711

SDG No.: _____

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2016 12:06 Calibration End Date: 06/01/2016 14:22 Calibration ID: 34643

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Carbon disulfide	0.9313 0.7876	0.8580 0.8159	0.8641	0.8340	0.8112	Ave		0.8432		0.1000	5.6		20.0				
3-Chloro-1-propene	0.2140 0.1616	0.1806 0.1737	0.1710	0.1652	0.1707	Ave		0.1767			9.9		20.0				
Methyl acetate	0.1637 0.1543	0.1612 0.1612	0.1513	0.1591	0.1572	Ave		0.1583		0.1000	2.7		20.0				
Methylene Chloride	0.8350 0.2580	0.5307 0.2734	0.3976	0.3123	0.2926	Lin1	0.2795	0.2595		0.1000				0.9980		0.9900	
2-Methyl-2-propanol	0.0208 0.0171	0.0210 0.0174	0.0189	0.0181	0.0178	Ave		0.0187			8.6		20.0				
Acrylonitrile	0.0805 0.0796	0.0790 0.0841	0.0791	0.0816	0.0804	Ave		0.0806			2.2		20.0				
Methyl tert-butyl ether	0.8433 0.7214	0.7518 0.7709	0.7713	0.7710	0.7554	Ave		0.7693		0.1000	4.8		20.0				
trans-1,2-Dichloroethene	0.2759 0.2557	0.2949 0.2720	0.2766	0.2759	0.2675	Ave		0.2741		0.1000	4.3		20.0				
Hexane	0.0907 0.0811	0.0761 0.0748	0.0790	0.0691	0.0739	Ave		0.0778			8.8		20.0				
1,1-Dichloroethane	0.5461 0.4561	0.4860 0.4895	0.4885	0.4978	0.4882	Ave		0.4932		0.2000	5.4		20.0				
Vinyl acetate	0.5072 0.4483	0.4180 0.4888	0.4474	0.4566	0.4610	Ave		0.4610			6.3		20.0				
2,2-Dichloropropane	0.3627 0.2755	0.3022 0.2852	0.3026	0.3055	0.2945	Ave		0.3040			9.2		20.0				
cis-1,2-Dichloroethene	0.3176 0.2733	0.3126 0.2967	0.3033	0.3019	0.2957	Ave		0.3002		0.1000	4.8		20.0				
2-Butanone (MEK)	0.1380 0.0937	0.0946 0.0974	0.1032	0.1041	0.0965	Ave		0.1039		0.0100	15.0		20.0				
Chlorobromomethane	0.1735 0.1257	0.1529 0.1358	0.1423	0.1389	0.1367	Ave		0.1437			10.8		20.0				
Tetrahydrofuran	0.0892 0.0598	0.0681 0.0620	0.0641	0.0630	0.0607	Ave		0.0667			15.4		20.0				
Chloroform	0.5085 0.4143	0.4584 0.4474	0.4645	0.4572	0.4407	Ave		0.4559		0.2000	6.3		20.0				
1,1,1-Trichloroethane	0.3792 0.3224	0.3829 0.3330	0.3471	0.3382	0.3447	Ave		0.3496		0.1000	6.6		20.0				
Cyclohexane	0.5099 0.4686	0.4608 0.4527	0.4342	0.4263	0.4547	Ave		0.4582		0.1000	5.9		20.0				
1,1-Dichloropropene	0.4261 0.3658	0.3951 0.3840	0.3808	0.3873	0.3786	Ave		0.3882			4.9		20.0				

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.: 240-66032-1 Analy Batch No.: 232711

SDG No.: _____

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2016 12:06 Calibration End Date: 06/01/2016 14:22 Calibration ID: 34643

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Carbon tetrachloride	0.3923 0.3032	0.3529 0.3132	0.3067	0.3168	0.3107	Ave		0.3280		0.1000	10.0		20.0				
Isobutyl alcohol	0.0075 0.0057	0.0066 0.0058	0.0057	0.0060	0.0058	Ave		0.0062			10.8		20.0				
1,2-Dichloroethane	0.3912 0.3357	0.3572 0.3622	0.3523	0.3560	0.3524	Ave		0.3581		0.1000	4.7		20.0				
Benzene	1.1464 1.0413	1.0898 1.1584	1.1208	1.1182	1.1146	Ave		1.1128		0.5000	3.5		20.0				
n-Heptane	0.8658 0.1847	0.4891 0.1570	0.3113	0.2049	0.1790	Lin1	0.3425	0.1521						0.9950		0.9900	
Trichloroethene	0.3294 0.2661	0.2808 0.2899	0.2797	0.2846	0.2796	Ave		0.2871		0.1500	7.0		20.0				
Methylcyclohexane	0.5109 0.4682	0.4698 0.4413	0.4267	0.4101	0.4420	Ave		0.4527		0.1000	7.4		20.0				
1,2-Dichloropropane	0.3109 0.2464	0.2704 0.2680	0.2591	0.2638	0.2558	Ave		0.2678		0.1000	7.7		20.0				
Dibromomethane	0.1642 0.1341	0.1605 0.1454	0.1590	0.1411	0.1416	Ave		0.1494			7.8		20.0				
1,4-Dioxane	0.0020 0.0021	0.0022 0.0021	0.0021	0.0021	0.0023	Ave		0.0021			4.9		20.0				
Dichlorobromomethane	0.4212 0.3172	0.3564 0.3469	0.3437	0.3465	0.3397	Ave		0.3531		0.1500	9.2		20.0				
2-Chloroethyl vinyl ether	0.1538 0.1393	0.1407 0.1499	0.1420	0.1428	0.1448	Ave		0.1448			3.6		20.0				
cis-1,3-Dichloropropene	0.5169 0.4190	0.4311 0.4595	0.4377	0.4485	0.4405	Ave		0.4504		0.1500	7.1		20.0				
4-Methyl-2-pentanone (MIBK)	0.2155 0.1908	0.2069 0.1987	0.2027	0.2030	0.1990	Ave		0.2024		0.0500	3.8		20.0				
Toluene	1.8078 1.5456	1.6054 1.6831	1.6197	1.6140	1.6207	Ave		1.6423		0.4000	5.1		20.0				
trans-1,3-Dichloropropene	0.5854 0.5147	0.5278 0.5456	0.5557	0.5361	0.5421	Ave		0.5439		0.1000	4.1		20.0				
Ethyl methacrylate	0.5357 0.4188	0.4567 0.4334	0.4685	0.4479	0.4402	Ave		0.4573			8.3		20.0				
1,1,2-Trichloroethane	0.2886 0.2791	0.3013 0.2832	0.2772	0.2912	0.2815	Ave		0.2860		0.1000	2.9		20.0				
Tetrachloroethene	0.3308 0.2848	0.2972 0.2974	0.2777	0.2955	0.2960	Ave		0.2970		0.1500	5.6		20.0				
1,3-Dichloropropane	0.5948 0.5061	0.5208 0.5372	0.5370	0.5310	0.5300	Ave		0.5367			5.2		20.0				

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.: 240-66032-1 Analy Batch No.: 232711

SDG No.: _____

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2016 12:06 Calibration End Date: 06/01/2016 14:22 Calibration ID: 34643

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
2-Hexanone	0.2702 0.1877	0.2135 0.1870	0.2111	0.1984	0.2007	Ave		0.2098			0.0500	13.6		20.0			
Chlorodibromomethane	0.4389 0.3177	0.3858 0.3399	0.3295	0.3314	0.3332	Ave		0.3538				12.3		20.0			
Ethylene Dibromide	0.3417 0.2751	0.2738 0.2835	0.2837	0.2848	0.2919	Ave		0.2906				8.0		20.0			
Chlorobenzene	1.1892 0.9615	1.0479 1.0412	1.0244	1.0192	1.0080	Ave		1.0416			0.3000	6.8		20.0			
1,1,1,2-Tetrachloroethane	0.4284 0.3412	0.3798 0.3634	0.3655	0.3675	0.3563	Ave		0.3717				7.4		20.0			
Ethylbenzene	0.6350 0.5391	0.5588 0.5736	0.5694	0.5716	0.5684	Ave		0.5737				5.1		20.0			
m-Xylene & p-Xylene	0.8090 0.6776	0.7153 0.7126	0.6856	0.7165	0.7005	Ave		0.7167				6.1		20.0			
o-Xylene	0.7828 0.6776	0.7402 0.7224	0.7109	0.7017	0.7035	Ave		0.7199				4.7		20.0			
Styrene	1.2751 1.1040	1.1525 1.1974	1.1650	1.1717	1.1713	Ave		1.1767			0.3000	4.4		20.0			
Bromoform	0.2021 0.1898	0.1856 0.1995	0.1907	0.1935	0.1934	Ave		0.1935			0.1000	2.9		20.0			
Isopropylbenzene	1.9322 1.7091	1.7543 1.8331	1.7487	1.7471	1.7692	Ave		1.7848			0.1000	4.2		20.0			
1,1,2,2-Tetrachloroethane	0.7589 0.6733	0.6721 0.6933	0.6958	0.6894	0.6915	Ave		0.6963			0.3000	4.2		20.0			
Bromobenzene	0.8272 0.7233	0.7890 0.7959	0.7889	0.7684	0.7816	Ave		0.7820				4.0		20.0			
1,2,3-Trichloropropane	0.4533 0.2033	0.2492 0.2083	0.2178	0.2037	0.2208	Lin1	0.0867	0.2029							0.9970		0.9900
trans-1,4-Dichloro-2-butene	0.2081 0.1867	0.2098 0.1943	0.2115	0.1934	0.1898	Ave		0.1991				5.2		20.0			
N-Propylbenzene	1.0373 0.8830	0.9642 0.9436	0.9090	0.9136	0.9191	Ave		0.9385				5.4		20.0			
2-Chlorotoluene	0.9555 0.7312	0.8406 0.8014	0.7688	0.7644	0.7693	Ave		0.8045				9.3		20.0			
1,3,5-Trimethylbenzene	3.0092 2.6976	2.8007 2.9872	2.8557	2.7340	2.8511	Ave		2.8479				4.1		20.0			
4-Chlorotoluene	0.9328 0.7537	0.8369 0.8293	0.8042	0.8170	0.8228	Ave		0.8281				6.5		20.0			
tert-Butylbenzene	2.5383 2.3873	2.4568 2.5572	2.4127	2.3965	2.4849	Ave		2.4620				2.8		20.0			

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.: 240-66032-1 Analy Batch No.: 232711

SDG No.: _____

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2016 12:06 Calibration End Date: 06/01/2016 14:22 Calibration ID: 34643

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,2,4-Trimethylbenzene	3.2212 2.7820	2.8942 3.1098	2.9390	2.9103	2.9845	Ave		2.9773			4.9		20.0				
sec-Butylbenzene	3.6758 3.2676	3.3683 3.5151	3.2579	3.2123	3.3949	Ave		3.3846			4.8		20.0				
1,3-Dichlorobenzene	1.6908 1.4357	1.5371 1.5792	1.5479	1.5290	1.5344	Ave		1.5506		0.6000	4.9		20.0				
4-Isopropyltoluene	3.1582 2.8283	2.9369 3.0693	2.8226	2.8587	2.9339	Ave		2.9440			4.3		20.0				
1,4-Dichlorobenzene	1.6660 1.4327	1.5476 1.5967	1.5656	1.5412	1.5577	Ave		1.5582		0.5000	4.5		20.0				
n-Butylbenzene	2.8401 2.3843	2.5420 2.5448	2.4586	2.3986	2.4954	Ave		2.5234			6.1		20.0				
1,2-Dichlorobenzene	1.6201 1.3707	1.4940 1.5114	1.4046	1.4681	1.4834	Ave		1.4789		0.4000	5.4		20.0				
1,2-Dibromo-3-Chloropropane	0.1835 0.1490	0.1734 0.1502	0.1620	0.1504	0.1537	Ave		0.1603		0.0500	8.4		20.0				
1,2,4-Trichlorobenzene	1.0780 0.8798	0.9700 0.9507	0.9787	0.9584	0.9634	Ave		0.9684		0.2000	6.0		20.0				
Hexachlorobutadiene	0.4164 0.3120	0.3404 0.3143	0.3469	0.3377	0.3325	Ave		0.3429			10.2		20.0				
Naphthalene	2.8816 2.2973	2.4776 2.3452	2.5060	2.4521	2.4179	Ave		2.4825			7.7		20.0				
1,2,3-Trichlorobenzene	1.0204 0.7849	0.8513 0.8315	0.8741	0.8778	0.8406	Ave		0.8687			8.5		20.0				
Dibromofluoromethane (Surr)	++++ 0.2142	0.2459 0.2338	0.2421	0.2373	0.2329	Ave		0.2344			4.7		20.0				
1,2-Dichloroethane-d4 (Surr)	++++ 0.2610	0.2977 0.2881	0.2809	0.2939	0.2799	Ave		0.2836			4.6		20.0				
Toluene-d8 (Surr)	++++ 1.2967	1.2980 1.4211	1.3722	1.3589	1.3423	Ave		1.3482			3.5		20.0				
4-Bromofluorobenzene (Surr)	++++ 0.4756	0.5321 0.5221	0.5183	0.5087	0.5099	Ave		0.5111			3.8		20.0				

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.: 240-66032-1 Analy Batch No.: 232711

SDG No.: _____

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2016 12:06 Calibration End Date: 06/01/2016 14:22 Calibration ID: 34643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-232711/8	UXM5576.D
Level 2	STD8260 240-232711/7	UXM5575.D
Level 3	STD8260 240-232711/6	UXM5574.D
Level 4	STD8260 240-232711/5	UXM5573.D
Level 5	STD8260 240-232711/4	UXM5572.D
Level 6	STD8260 240-232711/3	UXM5571.D
Level 7	STD8269 240-232711/2	UXM5570.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Dichlorodifluoromethane	FB	Ave	18210 738280	28987 1386711	63504	164374	339392	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Chloromethane	FB	Ave	22101 783051	41677 1613087	80590	214510	408197	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	22298 847049	42467 1677427	78708	213653	430847	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Butadiene	FB	Ave	22095 820562	41697 1543362	84165	196328	398323	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Bromomethane	FB	Qua	7883 221651	14958 383535	28872	81966	104004	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Chloroethane	FB	Ave	10814 361273	18754 660577	41206	110381	170950	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Dichlorofluoromethane	FB	Qua	35516 748742	39149 1394724	86113	242309	340723	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Trichlorofluoromethane	FB	Ave	14885 564211	28856 991859	54586	141706	267810	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Ethyl ether	FB	Lin1	24388 608392	41461 1239838	73561	151580	316435	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Acrolein	FB	Ave	13386 456278	24298 944491	49006	115299	233917	2.50 100	5.00 200	10.0	25.0	50.0
1,1-Dichloroethene	FB	Ave	23103 735888	34837 1499834	70425	175921	379202	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	15328 562217	26575 1012772	49987	117737	262778	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Acetone	FB	Lin1	30677 414712	39676 818613	53963	109757	217828	1.00 40.0	2.00 80.0	4.00	10.0	20.0
Iodomethane	FB	Ave	29458 1021752	52433 2088359	109409	264350	520403	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	63803 2282947	118165 4596001	236804	560444	1148311	0.500 20.0	1.00 40.0	2.00	5.00	10.0

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

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

Analy Batch No.: 232711

SDG No.: _____

Instrument ID: A3UX16

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2016 12:06

Calibration End Date: 06/01/2016 14:22

Calibration ID: 34643

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
3-Chloro-1-propene	FB	Ave	14663 468510	24873 978428	46850	111030	241657	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	56061 2236931	110997 4540154	207324	534609	1112726	2.50 100	5.00 200	10.0	25.0	50.0
Methylene Chloride	FB	Lin1	57207 748001	73083 1539845	108959	209865	414197	0.500 20.0	1.00 40.0	2.00	5.00	10.0
2-Methyl-2-propanol	FB	Ave	14243 495204	28974 980042	51726	121699	251401	5.00 200	10.0 400	20.0	50.0	100
Acrylonitrile	FB	Ave	55183 2306384	108830 4738154	216664	548628	1138020	5.00 200	10.0 400	20.0	50.0	100
Methyl tert-butyl ether	FB	Ave	57775 2091010	103541 4342187	211365	518092	1069377	0.500 20.0	1.00 40.0	2.00	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	18900 741154	40620 1532057	75794	185385	378722	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Hexane	FB	Ave	6215 235036	10484 421538	21636	46464	104673	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,1-Dichloroethane	FB	Ave	37412 1322191	66931 2757260	133884	334485	691079	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Vinyl acetate	FB	Ave	34749 1299472	57570 2753250	122605	306791	652643	0.500 20.0	1.00 40.0	2.00	5.00	10.0
2,2-Dichloropropane	FB	Ave	24848 798530	41614 1606508	82927	205282	416909	0.500 20.0	1.00 40.0	2.00	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	21756 792328	43057 1671340	83117	202881	418571	0.500 20.0	1.00 40.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Ave	18910 542945	26049 1097270	56560	139928	273331	1.00 40.0	2.00 80.0	4.00	10.0	20.0
Chlorobromomethane	FB	Ave	11888 364248	21057 764933	38997	93367	193527	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Ave	12223 346754	18762 698447	35125	84680	171728	1.00 40.0	2.00 80.0	4.00	10.0	20.0
Chloroform	FB	Ave	34837 1200973	63136 2520413	127307	307189	623832	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	25977 934630	52733 1875679	95110	227282	487940	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Cyclohexane	FB	Ave	34931 1358225	63467 2549816	118980	286429	643724	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	29189 1060418	54410 2163040	104370	260270	535954	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	26873 878869	48600 1764429	84047	212845	439875	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Ave	12811 411687	22757 810355	38997	101365	206664	12.5 500	25.0 1000	50.0	125	250

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

Lab Name: TestAmerica Canton Job No.: 240-66032-1 Analy Batch No.: 232711

SDG No.: _____

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2016 12:06 Calibration End Date: 06/01/2016 14:22 Calibration ID: 34643

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
1,2-Dichloroethane	FB	Ave	26804 972968	49193 2040530	96552	239196	498838	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Benzene	FB	Ave	78537 3018355	150092 6525094	307161	751407	1577863	0.500 20.0	1.00 40.0	2.00	5.00	10.0
n-Heptane	FB	Lin1	59313 535285	67361 884625	85307	137653	253383	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Trichloroethene	FB	Ave	22564 771419	38668 1632996	76641	191211	395854	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Methylcyclohexane	FB	Ave	35000 1357099	64699 2485725	116931	275552	625650	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	21298 714336	37236 1509836	71001	177262	362146	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	11250 388738	22104 819300	43572	94797	200478	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,4-Dioxane	FB	Ave	2687 120607	6159 233763	11754	27813	63825	10.0 400	20.0 800	40.0	100	200
Dichlorobromomethane	FB	Ave	28858 919380	49081 1953927	94190	232803	480819	0.500 20.0	1.00 40.0	2.00	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	21071 807582	38765 1689091	77805	191939	409925	1.00 40.0	2.00 80.0	4.00	10.0	20.0
cis-1,3-Dichloropropene	FB	Ave	35409 1214481	59376 2588607	119937	301366	623530	0.500 20.0	1.00 40.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	29523 1106041	57003 2239081	111114	272768	563474	1.00 40.0	2.00 80.0	4.00	10.0	20.0
Toluene	CBZ	Ave	84918 3139133	155878 6817536	312215	776992	1621301	0.500 20.0	1.00 40.0	2.00	5.00	10.0
trans-1,3-Dichloropropene	CBZ	Ave	27500 1045329	51245 2209947	107108	258074	542297	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Ethyl methacrylate	CBZ	Ave	25162 850676	44345 1755568	90312	215613	440388	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	13556 566799	29253 1147346	53437	140179	281659	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	15537 578357	28860 1204582	53523	142248	296117	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,3-Dichloropropane	CBZ	Ave	27941 1027918	50565 2175853	103515	255626	530222	0.500 20.0	1.00 40.0	2.00	5.00	10.0
2-Hexanone	CBZ	Ave	25385 762386	41459 1514569	81393	191058	401622	1.00 40.0	2.00 80.0	4.00	10.0	20.0
Chlorodibromomethane	CBZ	Ave	20616 645248	37459 1376725	63513	159529	333287	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Ethylene Dibromide	CBZ	Ave	16050 558709	26582 1148410	54688	137095	292039	0.500 20.0	1.00 40.0	2.00	5.00	10.0

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

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

Analy Batch No.: 232711

SDG No.: _____

Instrument ID: A3UX16

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2016 12:06

Calibration End Date: 06/01/2016 14:22

Calibration ID: 34643

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Chlorobenzene	CBZ	Ave	55860 1952780	101752 4217562	197456	490640	1008361	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	20125 692896	36880 1471885	70458	176899	356470	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	29827 1094900	54258 2323619	109762	275175	568620	0.500 20.0	1.00 40.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBZ	Ave	37999 1376144	69457 2886587	132151	344945	700726	0.500 20.0	1.00 40.0	2.00	5.00	10.0
o-Xylene	CBZ	Ave	36772 1376275	71870 2926098	137043	337798	703724	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Styrene	CBZ	Ave	59896 2242252	111904 4850364	224559	564055	1171777	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Bromoform	CBZ	Ave	9495 385484	18018 808006	36758	93169	193459	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Isopropylbenzene	CBZ	Ave	90763 3471317	170340 7425375	337072	841066	1769938	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	DCB	Ave	18949 720030	34511 1441073	71578	178192	361253	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	20656 773408	40513 1654125	81162	198616	408331	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Lin1	11320 217367	12794 432968	22402	52663	115339	0.500 20.0	1.00 40.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCB	Ave	5196 199685	10773 403791	21760	50001	99141	0.500 20.0	1.00 40.0	2.00	5.00	10.0
N-Propylbenzene	DCB	Ave	25900 944255	49513 1961244	93515	236143	480141	0.500 20.0	1.00 40.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	23859 781887	43167 1665600	79094	197595	401886	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	75139 2884683	143813 6208634	293789	706690	1489426	0.500 20.0	1.00 40.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	23291 805922	42972 1723541	82733	211189	429816	0.500 20.0	1.00 40.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	63380 2552872	126155 5315022	248212	619466	1298119	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	80432 2974873	148615 6463576	302357	752262	1559130	0.500 20.0	1.00 40.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	91785 3494134	172963 7305956	335161	830338	1773518	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	42220 1535297	78932 3282248	159238	395224	801556	0.500 20.0	1.00 40.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Ave	78861 3024354	150808 6379337	290383	738932	1532701	0.500 20.0	1.00 40.0	2.00	5.00	10.0

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

Lab Name: TestAmerica Canton Job No.: 240-66032-1 Analy Batch No.: 232711

SDG No.: _____

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2016 12:06 Calibration End Date: 06/01/2016 14:22 Calibration ID: 34643

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
1,4-Dichlorobenzene	DCB	Ave	41601 1532053	79471 3318587	161062	398371	813770	0.500 20.0	1.00 40.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	70918 2549572	130533 5289266	252934	620011	1303590	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	40454 1465747	76714 3141364	144499	379489	774964	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	4581 159327	8906 312091	16664	38871	80307	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	26918 940785	49809 1975930	100687	247740	503277	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Hexachlorobutadiene	DCB	Ave	10397 333583	17478 653331	35683	87301	173720	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Naphthalene	DCB	Ave	71954 2456580	127226 4874316	257810	633830	1263148	0.500 20.0	1.00 40.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	25479 839300	43716 1728283	89921	226896	439160	0.500 20.0	1.00 40.0	2.00	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	++++ 620779	33865 1317107	66350	159434	329633	++++ 20.0	1.00 40.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	++++ 756577	41005 1622662	76993	197508	396273	++++ 20.0	1.00 40.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBZ	Ave	++++ 2633710	126033 5756557	264500	654184	1342776	++++ 20.0	1.00 40.0	2.00	5.00	10.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	++++ 966014	51669 2114865	99902	244910	510123	++++ 20.0	1.00 40.0	2.00	5.00	10.0

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.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: ICV 240-232711/9 Calibration Date: 06/01/2016 14:45
 Instrument ID: A3UX16 Calib Start Date: 06/01/2016 12:06
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/01/2016 14:22
 Lab File ID: UXM5577.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	0.2419	0.3305	0.1000	0.0137	0.0100	36.6*	20.0
Chloromethane	Ave	0.2976	0.3513	0.1000	0.0118	0.0100	18.0	20.0
Vinyl chloride	Ave	0.3048	0.3483	0.1000	0.0114	0.0100	14.3	20.0
Butadiene	Ave	0.2947	0.3177		0.0108	0.0100	7.8	30.0
Bromomethane	Qua		0.1145	0.0500	0.0144	0.0100	44.4*	20.0
Chloroethane	Ave	0.1388	0.1683	0.0500	0.0121	0.0100	21.3*	20.0
Dichlorofluoromethane	Qua		0.3588		0.0137	0.0100	37.3*	20.0
Trichlorofluoromethane	Ave	0.1995	0.2430	0.1000	0.0122	0.0100	21.8*	20.0
Ethyl ether	Lin1		0.2244		0.0101	0.0100	1.0	20.0
Acrolein	Ave	0.0346	0.0395		0.0569	0.0500	13.9	50.0
1,1-Dichloroethene	Ave	0.2710	0.2759	0.1000	0.0102	0.0100	1.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1905	0.1970	0.0500	0.0103	0.0100	3.4	20.0
Acetone	Lin1		0.0687	0.0100	0.0177	0.0200	-11.7	50.0
Iodomethane	Ave	0.3849	0.4271		0.0111	0.0100	11.0	20.0
Carbon disulfide	Ave	0.8432	0.8967	0.1000	0.0106	0.0100	6.3	20.0
3-Chloro-1-propene	Ave	0.1767	0.1932		0.0109	0.0100	9.3	20.0
Methyl acetate	Ave	0.1583	0.1544	0.1000	0.0488	0.0500	-2.5	20.0
Methylene Chloride	Lin1		0.3051	0.1000	0.0107	0.0100	6.8	50.0
2-Methyl-2-propanol	Ave	0.0187	0.0175		0.0933	0.100	-6.7	50.0
Acrylonitrile	Ave	0.0806	0.0825		0.102	0.100	2.3	20.0
trans-1,2-Dichloroethene	Ave	0.2741	0.2952	0.1000	0.0108	0.0100	7.7	20.0
Methyl tert-butyl ether	Ave	0.7693	0.7901	0.1000	0.0103	0.0100	2.7	20.0
Hexane	Ave	0.0778	0.0778		0.0100	0.0100	-0.0	20.0
1,1-Dichloroethane	Ave	0.4932	0.4950	0.2000	0.0100	0.0100	0.4	20.0
Vinyl acetate	Ave	0.4610	0.5063		0.0110	0.0100	9.8	50.0
2,2-Dichloropropane	Ave	0.3040	0.3134		0.0103	0.0100	3.1	20.0
2-Butanone (MEK)	Ave	0.1039	0.0862	0.0100	0.0166	0.0200	-17.0	20.0
cis-1,2-Dichloroethene	Ave	0.3002	0.3024	0.1000	0.0101	0.0100	0.7	20.0
Chlorobromomethane	Ave	0.1437	0.1388		0.00966	0.0100	-3.4	20.0
Tetrahydrofuran	Ave	0.0667	0.0577		0.0173	0.0200	-13.5	20.0
Chloroform	Ave	0.4559	0.4658	0.2000	0.0102	0.0100	2.2	20.0
1,1,1-Trichloroethane	Ave	0.3496	0.3618	0.1000	0.0103	0.0100	3.5	20.0
Cyclohexane	Ave	0.4582	0.4706	0.1000	0.0103	0.0100	2.7	20.0
1,1-Dichloropropene	Ave	0.3882	0.3966		0.0102	0.0100	2.1	20.0
Carbon tetrachloride	Ave	0.3280	0.3396	0.1000	0.0104	0.0100	3.6	20.0
Isobutyl alcohol	Ave	0.0062	0.0056		0.229	0.250	-8.3	20.0
1,2-Dichloroethane	Ave	0.3581	0.3730	0.1000	0.0104	0.0100	4.1	20.0
Benzene	Ave	1.113	1.149	0.5000	0.0103	0.0100	3.2	20.0
n-Heptane	Lin1		0.1858		0.00996	0.0100	-0.4	20.0
Trichloroethene	Ave	0.2871	0.2971	0.1500	0.0103	0.0100	3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: ICV 240-232711/9 Calibration Date: 06/01/2016 14:45
 Instrument ID: A3UX16 Calib Start Date: 06/01/2016 12:06
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/01/2016 14:22
 Lab File ID: UXM5577.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	0.4527	0.4581	0.1000	0.0101	0.0100	1.2	20.0
1,2-Dichloropropane	Ave	0.2678	0.2796	0.1000	0.0104	0.0100	4.4	20.0
Dibromomethane	Ave	0.1494	0.1494		0.0100	0.0100	-0.0	20.0
1,4-Dioxane	Ave	0.0021	0.0020		0.188	0.200	-6.2	50.0
Dichlorobromomethane	Ave	0.3531	0.3505	0.1500	0.00993	0.0100	-0.7	20.0
2-Chloroethyl vinyl ether	Ave	0.1448	0.1445		0.00998	0.0100	-0.2	20.0
cis-1,3-Dichloropropene	Ave	0.4504	0.4612	0.1500	0.0102	0.0100	2.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2024	0.1946	0.0500	0.0192	0.0200	-3.8	20.0
Toluene	Ave	1.642	1.695	0.4000	0.0103	0.0100	3.2	20.0
trans-1,3-Dichloropropene	Ave	0.5439	0.5423	0.1000	0.00997	0.0100	-0.3	20.0
Ethyl methacrylate	Ave	0.4573	0.4489		0.00982	0.0100	-1.8	20.0
1,1,2-Trichloroethane	Ave	0.2860	0.2886	0.1000	0.0101	0.0100	0.9	20.0
1,3-Dichloropropane	Ave	0.5367	0.5305		0.00988	0.0100	-1.2	20.0
Tetrachloroethene	Ave	0.2970	0.3033	0.1500	0.0102	0.0100	2.1	20.0
2-Hexanone	Ave	0.2098	0.1810	0.0500	0.0173	0.0200	-13.7	20.0
Chlorodibromomethane	Ave	0.3538	0.3434		0.00971	0.0100	-2.9	20.0
Ethylene Dibromide	Ave	0.2906	0.2993		0.0103	0.0100	3.0	20.0
Chlorobenzene	Ave	1.042	1.058	0.3000	0.0102	0.0100	1.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3717	0.3698		0.00995	0.0100	-0.5	20.0
Ethylbenzene	Ave	0.5737	0.5909		0.0103	0.0100	3.0	20.0
m-Xylene & p-Xylene	Ave	0.7167	0.7377		0.0103	0.0100	2.9	20.0
o-Xylene	Ave	0.7199	0.7248		0.0101	0.0100	0.7	20.0
Styrene	Ave	1.177	1.231	0.3000	0.0105	0.0100	4.6	20.0
Bromoform	Ave	0.1935	0.2144	0.1000	0.0111	0.0100	10.8	20.0
Isopropylbenzene	Ave	1.785	1.881	0.1000	0.0105	0.0100	5.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6963	0.6931	0.3000	0.00995	0.0100	-0.5	20.0
Bromobenzene	Ave	0.7820	0.7968		0.0102	0.0100	1.9	20.0
1,2,3-Trichloropropane	Lin1		0.2166		0.0102	0.0100	2.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1991	0.1927		0.00968	0.0100	-3.2	20.0
N-Propylbenzene	Ave	0.9385	0.9345		0.00996	0.0100	-0.4	20.0
2-Chlorotoluene	Ave	0.8045	0.7957		0.00989	0.0100	-1.1	20.0
1,3,5-Trimethylbenzene	Ave	2.848	2.896		0.0102	0.0100	1.7	20.0
4-Chlorotoluene	Ave	0.8281	0.8207		0.00991	0.0100	-0.9	20.0
tert-Butylbenzene	Ave	2.462	2.517		0.0102	0.0100	2.2	20.0
1,2,4-Trimethylbenzene	Ave	2.977	2.954		0.00992	0.0100	-0.8	20.0
sec-Butylbenzene	Ave	3.385	3.413		0.0101	0.0100	0.8	20.0
1,3-Dichlorobenzene	Ave	1.551	1.549	0.6000	0.00999	0.0100	-0.0	20.0
4-Isopropyltoluene	Ave	2.944	3.021		0.0103	0.0100	2.6	20.0
1,4-Dichlorobenzene	Ave	1.558	1.570	0.5000	0.0101	0.0100	0.8	20.0
n-Butylbenzene	Ave	2.523	2.525		0.0100	0.0100	0.0	20.0
1,2-Dichlorobenzene	Ave	1.479	1.513	0.4000	0.0102	0.0100	2.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: ICV 240-232711/9 Calibration Date: 06/01/2016 14:45
 Instrument ID: A3UX16 Calib Start Date: 06/01/2016 12:06
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/01/2016 14:22
 Lab File ID: UXM5577.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	0.1603	0.1597	0.0500	0.00996	0.0100	-0.4	50.0
1,2,4-Trichlorobenzene	Ave	0.9684	0.9683	0.2000	0.0100	0.0100	-0.0	50.0
Hexachlorobutadiene	Ave	0.3429	0.3303		0.00963	0.0100	-3.7	20.0
Naphthalene	Ave	2.483	2.405		0.00969	0.0100	-3.1	50.0
1,2,3-Trichlorobenzene	Ave	0.8687	0.8247		0.00949	0.0100	-5.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2344	0.2353		0.0100	0.0100	0.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2836	0.2858		0.0101	0.0100	0.8	20.0
Toluene-d8 (Surr)	Ave	1.348	1.356		0.0101	0.0100	0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5111	0.5095		0.00997	0.0100	-0.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: ICV 240-232711/16 Calibration Date: 06/01/2016 17:24
 Instrument ID: A3UX16 Calib Start Date: 06/01/2016 15:08
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/01/2016 17:02
 Lab File ID: UXM5584.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	0.0228	0.0233		0.102	0.100	2.0	20.0
Isopropyl ether	Ave	0.2496	0.2758		0.0110	0.0100	10.5	20.0
2-Chloro-1,3-butadiene	Ave	0.4316	0.4683		0.0109	0.0100	8.5	20.0
Tert-butyl ethyl ether	Ave	0.8440	0.9047		0.0107	0.0100	7.2	20.0
Propionitrile	Ave	0.0286	0.0300		0.105	0.100	4.9	20.0
Ethyl acetate	Ave	0.1684	0.1820		0.0216	0.0200	8.1	50.0
Methacrylonitrile	Ave	0.1290	0.1351		0.105	0.100	4.7	20.0
Tert-amyl methyl ether	Ave	0.7756	0.8251		0.0106	0.0100	6.4	20.0
n-Butanol	Ave	0.0049	0.0047		0.240	0.250	-4.0	20.0
Methyl methacrylate	Ave	0.1806	0.1852		0.0205	0.0200	2.5	20.0
2-Nitropropane	Ave	0.0636	0.0608		0.0191	0.0200	-4.4	20.0
1-Chlorohexane	Ave	0.4765	0.4839		0.0102	0.0100	1.6	20.0
Cyclohexanone	Lin1		0.0159		0.0945	0.100	-5.5	20.0
1,2,3-Trimethylbenzene	Ave	2.977	3.064		0.0103	0.0100	2.9	20.0
1,3,5-Trichlorobenzene	Ave	0.996	1.031		0.0104	0.0100	3.5	20.0
2-Methylnaphthalene	Ave	1.416	1.326		0.0187	0.0200	-6.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-235221/2 Calibration Date: 06/20/2016 12:47
 Instrument ID: A3UX16 Calib Start Date: 06/01/2016 12:06
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/01/2016 14:22
 Lab File ID: UXM6060.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	0.2419	0.3045	0.1000	0.0126	0.0100	25.9*	20.0
Chloromethane	Ave	0.2976	0.3690	0.1000	0.0124	0.0100	24.0*	20.0
Vinyl chloride	Ave	0.3048	0.3498	0.1000	0.0115	0.0100	14.8	20.0
Butadiene	Ave	0.2947	0.3436		0.0117	0.0100	16.6	20.0
Bromomethane	Qua		0.0938	0.0500	0.0115	0.0100	15.4	20.0
Chloroethane	Ave	0.1388	0.1270	0.0500	0.00915	0.0100	-8.5	20.0
Dichlorofluoromethane	Qua		0.3349		0.0128	0.0100	27.7*	20.0
Trichlorofluoromethane	Ave	0.1995	0.2550	0.1000	0.0128	0.0100	27.8*	20.0
Ethyl ether	Lin1		0.2092		0.00939	0.0100	-6.1	20.0
Acrolein	Ave	0.0346	0.0256		0.0369	0.0500	-26.1	50.0
1,1-Dichloroethene	Ave	0.2710	0.2533	0.1000	0.00935	0.0100	-6.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1905	0.1799	0.0500	0.00944	0.0100	-5.6	20.0
Acetone	Lin1		0.0705	0.0100	0.0182	0.0200	-9.1	50.0
Iodomethane	Ave	0.3849	0.3976		0.0103	0.0100	3.3	20.0
Carbon disulfide	Ave	0.8432	0.8429	0.1000	0.0100	0.0100	-0.0	20.0
3-Chloro-1-propene	Ave	0.1767	0.1561		0.00883	0.0100	-11.7	20.0
Methyl acetate	Ave	0.1583	0.1373	0.1000	0.0434	0.0500	-13.2	20.0
Methylene Chloride	Lin1		0.2847	0.1000	0.00989	0.0100	-1.1	50.0
2-Methyl-2-propanol	Ave	0.0187	0.0159		0.0848	0.100	-15.2	50.0
Acrylonitrile	Ave	0.0806	0.0703		0.0872	0.100	-12.8	20.0
Methyl tert-butyl ether	Ave	0.7693	0.7135	0.1000	0.00927	0.0100	-7.3	20.0
trans-1,2-Dichloroethene	Ave	0.2741	0.2731	0.1000	0.00996	0.0100	-0.4	20.0
Hexane	Ave	0.0778	0.0763		0.00980	0.0100	-2.0	20.0
1,1-Dichloroethane	Ave	0.4932	0.5040	0.2000	0.0102	0.0100	2.2	20.0
Vinyl acetate	Ave	0.4610	0.4171		0.00905	0.0100	-9.5	50.0
2,2-Dichloropropane	Ave	0.3040	0.3496		0.0115	0.0100	15.0	20.0
2-Butanone (MEK)	Ave	0.1039	0.0871	0.0100	0.0168	0.0200	-16.2	20.0
cis-1,2-Dichloroethene	Ave	0.3002	0.2990	0.1000	0.00996	0.0100	-0.4	20.0
Chlorobromomethane	Ave	0.1437	0.1277		0.00889	0.0100	-11.1	20.0
Tetrahydrofuran	Ave	0.0667	0.0520		0.0156	0.0200	-22.0*	20.0
Chloroform	Ave	0.4559	0.4494	0.2000	0.00986	0.0100	-1.4	20.0
1,1,1-Trichloroethane	Ave	0.3496	0.3703	0.1000	0.0106	0.0100	5.9	20.0
Cyclohexane	Ave	0.4582	0.4711	0.1000	0.0103	0.0100	2.8	20.0
1,1-Dichloropropene	Ave	0.3882	0.3864		0.00995	0.0100	-0.5	20.0
Carbon tetrachloride	Ave	0.3280	0.3094	0.1000	0.00943	0.0100	-5.7	20.0
Isobutyl alcohol	Ave	0.0062	0.0051		0.208	0.250	-16.7	20.0
1,2-Dichloroethane	Ave	0.3581	0.3429	0.1000	0.00957	0.0100	-4.3	20.0
Benzene	Ave	1.113	1.120	0.5000	0.0101	0.0100	0.7	20.0
n-Heptane	Lin1		0.1848		0.00990	0.0100	-1.0	20.0
Trichloroethene	Ave	0.2871	0.2798	0.1500	0.00974	0.0100	-2.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-235221/2 Calibration Date: 06/20/2016 12:47
 Instrument ID: A3UX16 Calib Start Date: 06/01/2016 12:06
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/01/2016 14:22
 Lab File ID: UXM6060.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	0.4527	0.4490	0.1000	0.00992	0.0100	-0.8	20.0
1,2-Dichloropropane	Ave	0.2678	0.2618	0.1000	0.00978	0.0100	-2.2	20.0
Dibromomethane	Ave	0.1494	0.1352		0.00905	0.0100	-9.5	20.0
1,4-Dioxane	Ave	0.0021	0.0018		0.170	0.200	-15.1	50.0
Dichlorobromomethane	Ave	0.3531	0.3198	0.1500	0.00906	0.0100	-9.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1448	0.1225		0.0169	0.0200	-15.4	20.0
cis-1,3-Dichloropropene	Ave	0.4504	0.4085	0.1500	0.00907	0.0100	-9.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2024	0.1752	0.0500	0.0173	0.0200	-13.4	20.0
Toluene	Ave	1.642	1.674	0.4000	0.0102	0.0100	2.0	20.0
trans-1,3-Dichloropropene	Ave	0.5439	0.4881	0.1000	0.00897	0.0100	-10.3	20.0
Ethyl methacrylate	Ave	0.4573	0.3963		0.00867	0.0100	-13.3	20.0
1,1,2-Trichloroethane	Ave	0.2860	0.2732	0.1000	0.00955	0.0100	-4.5	20.0
1,3-Dichloropropane	Ave	0.5367	0.5078		0.00946	0.0100	-5.4	20.0
Tetrachloroethene	Ave	0.2970	0.2945	0.1500	0.00992	0.0100	-0.8	20.0
2-Hexanone	Ave	0.2098	0.1803	0.0500	0.0172	0.0200	-14.1	20.0
Chlorodibromomethane	Ave	0.3538	0.3004		0.00849	0.0100	-15.1	20.0
Ethylene Dibromide	Ave	0.2906	0.2608		0.00897	0.0100	-10.3	20.0
Chlorobenzene	Ave	1.042	1.027	0.3000	0.00986	0.0100	-1.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3717	0.3528		0.00949	0.0100	-5.1	20.0
Ethylbenzene	Ave	0.5737	0.5706		0.00995	0.0100	-0.5	20.0
m-Xylene & p-Xylene	Ave	0.7167	0.7060		0.00985	0.0100	-1.5	20.0
o-Xylene	Ave	0.7199	0.7289		0.0101	0.0100	1.3	20.0
Styrene	Ave	1.177	1.156	0.3000	0.00982	0.0100	-1.8	20.0
Bromoform	Ave	0.1935	0.1556	0.1000	0.00804	0.0100	-19.6	20.0
Isopropylbenzene	Ave	1.785	1.817	0.1000	0.0102	0.0100	1.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6963	0.6338	0.3000	0.00910	0.0100	-9.0	20.0
Bromobenzene	Ave	0.7820	0.7591		0.00971	0.0100	-2.9	20.0
1,2,3-Trichloropropane	Lin1		0.1878		0.00883	0.0100	-11.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1991	0.1270		0.00638	0.0100	-36.2*	20.0
N-Propylbenzene	Ave	0.9385	0.9346		0.00996	0.0100	-0.4	20.0
2-Chlorotoluene	Ave	0.8045	0.7893		0.00981	0.0100	-1.9	20.0
1,3,5-Trimethylbenzene	Ave	2.848	2.835		0.00996	0.0100	-0.4	20.0
4-Chlorotoluene	Ave	0.8281	0.8238		0.00995	0.0100	-0.5	20.0
tert-Butylbenzene	Ave	2.462	2.541		0.0103	0.0100	3.2	20.0
1,2,4-Trimethylbenzene	Ave	2.977	2.990		0.0100	0.0100	0.4	20.0
sec-Butylbenzene	Ave	3.385	3.470		0.0103	0.0100	2.5	20.0
1,3-Dichlorobenzene	Ave	1.551	1.530	0.6000	0.00987	0.0100	-1.3	20.0
4-Isopropyltoluene	Ave	2.944	3.001		0.0102	0.0100	1.9	20.0
1,4-Dichlorobenzene	Ave	1.558	1.573	0.5000	0.0101	0.0100	1.0	20.0
n-Butylbenzene	Ave	2.523	2.544		0.0101	0.0100	0.8	20.0
1,2-Dichlorobenzene	Ave	1.479	1.484	0.4000	0.0100	0.0100	0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-235221/2 Calibration Date: 06/20/2016 12:47
 Instrument ID: A3UX16 Calib Start Date: 06/01/2016 12:06
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/01/2016 14:22
 Lab File ID: UXM6060.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	0.1603	0.1143	0.0500	0.00713	0.0100	-28.7	50.0
1,2,4-Trichlorobenzene	Ave	0.9684	0.9206	0.2000	0.00951	0.0100	-4.9	50.0
Hexachlorobutadiene	Ave	0.3429	0.3131		0.00913	0.0100	-8.7	20.0
Naphthalene	Ave	2.483	2.079		0.00838	0.0100	-16.2	50.0
1,2,3-Trichlorobenzene	Ave	0.8687	0.8010		0.00922	0.0100	-7.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2344	0.2242		0.00957	0.0100	-4.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2836	0.2682		0.00946	0.0100	-5.4	20.0
Toluene-d8 (Surr)	Ave	1.348	1.399		0.0104	0.0100	3.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5111	0.5053		0.00989	0.0100	-1.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-235346/2 Calibration Date: 06/21/2016 12:26
 Instrument ID: A3UX16 Calib Start Date: 06/01/2016 12:06
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/01/2016 14:22
 Lab File ID: UXM6088.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	0.2419	0.2704	0.1000	0.0112	0.0100	11.8	20.0
Chloromethane	Ave	0.2976	0.3652	0.1000	0.0123	0.0100	22.7*	20.0
Vinyl chloride	Ave	0.3048	0.3333	0.1000	0.0109	0.0100	9.4	20.0
Butadiene	Ave	0.2947	0.3101		0.0105	0.0100	5.2	20.0
Bromomethane	Qua		0.0849	0.0500	0.0103	0.0100	3.2	20.0
Chloroethane	Ave	0.1388	0.1205	0.0500	0.00869	0.0100	-13.1	20.0
Dichlorofluoromethane	Qua		0.3357		0.0128	0.0100	28.0*	20.0
Trichlorofluoromethane	Ave	0.1995	0.2417	0.1000	0.0121	0.0100	21.1*	20.0
Ethyl ether	Lin1		0.2066		0.00927	0.0100	-7.3	20.0
Acrolein	Ave	0.0346	0.0246		0.0355	0.0500	-29.1	50.0
1,1-Dichloroethene	Ave	0.2710	0.2423	0.1000	0.00894	0.0100	-10.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1905	0.1809	0.0500	0.00950	0.0100	-5.0	20.0
Acetone	Lin1		0.0715	0.0100	0.0185	0.0200	-7.6	50.0
Iodomethane	Ave	0.3849	0.3662		0.00951	0.0100	-4.9	20.0
Carbon disulfide	Ave	0.8432	0.8144	0.1000	0.00966	0.0100	-3.4	20.0
3-Chloro-1-propene	Ave	0.1767	0.1595		0.00903	0.0100	-9.7	20.0
Methyl acetate	Ave	0.1583	0.1321	0.1000	0.0417	0.0500	-16.5	20.0
Methylene Chloride	Lin1		0.2811	0.1000	0.00975	0.0100	-2.5	50.0
2-Methyl-2-propanol	Ave	0.0187	0.0146		0.0779	0.100	-22.1	50.0
Acrylonitrile	Ave	0.0806	0.0681		0.0844	0.100	-15.6	20.0
Methyl tert-butyl ether	Ave	0.7693	0.6813	0.1000	0.00886	0.0100	-11.4	20.0
trans-1,2-Dichloroethene	Ave	0.2741	0.2682	0.1000	0.00979	0.0100	-2.1	20.0
Hexane	Ave	0.0778	0.0742		0.00954	0.0100	-4.6	20.0
1,1-Dichloroethane	Ave	0.4932	0.4810	0.2000	0.00975	0.0100	-2.5	20.0
Vinyl acetate	Ave	0.4610	0.3873		0.00840	0.0100	-16.0	50.0
2,2-Dichloropropane	Ave	0.3040	0.3250		0.0107	0.0100	6.9	20.0
cis-1,2-Dichloroethene	Ave	0.3002	0.2894	0.1000	0.00964	0.0100	-3.6	20.0
2-Butanone (MEK)	Ave	0.1039	0.0833	0.0100	0.0160	0.0200	-19.9	20.0
Chlorobromomethane	Ave	0.1437	0.1244		0.00866	0.0100	-13.4	20.0
Tetrahydrofuran	Ave	0.0667	0.0500		0.0150	0.0200	-25.0*	20.0
Chloroform	Ave	0.4559	0.4408	0.2000	0.00967	0.0100	-3.3	20.0
1,1,1-Trichloroethane	Ave	0.3496	0.3472	0.1000	0.00993	0.0100	-0.7	20.0
Cyclohexane	Ave	0.4582	0.4474	0.1000	0.00977	0.0100	-2.3	20.0
1,1-Dichloropropene	Ave	0.3882	0.3691		0.00951	0.0100	-4.9	20.0
Carbon tetrachloride	Ave	0.3280	0.3033	0.1000	0.00925	0.0100	-7.5	20.0
Isobutyl alcohol	Ave	0.0062	0.0048		0.196	0.250	-21.8*	20.0
1,2-Dichloroethane	Ave	0.3581	0.3423	0.1000	0.00956	0.0100	-4.4	20.0
Benzene	Ave	1.113	1.083	0.5000	0.00973	0.0100	-2.7	20.0
n-Heptane	Lin1		0.1854		0.00994	0.0100	-0.6	20.0
Trichloroethene	Ave	0.2871	0.2713	0.1500	0.00945	0.0100	-5.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-235346/2 Calibration Date: 06/21/2016 12:26
 Instrument ID: A3UX16 Calib Start Date: 06/01/2016 12:06
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/01/2016 14:22
 Lab File ID: UXM6088.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	0.4527	0.4331	0.1000	0.00957	0.0100	-4.3	20.0
1,2-Dichloropropane	Ave	0.2678	0.2516	0.1000	0.00939	0.0100	-6.1	20.0
Dibromomethane	Ave	0.1494	0.1289		0.00863	0.0100	-13.7	20.0
1,4-Dioxane	Ave	0.0021	0.0017		0.161	0.200	-19.4	50.0
Dichlorobromomethane	Ave	0.3531	0.3153	0.1500	0.00893	0.0100	-10.7	20.0
2-Chloroethyl vinyl ether	Ave	0.1448	0.1191		0.0164	0.0200	-17.8	20.0
cis-1,3-Dichloropropene	Ave	0.4504	0.3966	0.1500	0.00880	0.0100	-12.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2024	0.1636	0.0500	0.0162	0.0200	-19.2	20.0
Toluene	Ave	1.642	1.610	0.4000	0.00980	0.0100	-2.0	20.0
trans-1,3-Dichloropropene	Ave	0.5439	0.4835	0.1000	0.00889	0.0100	-11.1	20.0
Ethyl methacrylate	Ave	0.4573	0.3841		0.00840	0.0100	-16.0	20.0
1,1,2-Trichloroethane	Ave	0.2860	0.2595	0.1000	0.00907	0.0100	-9.3	20.0
Tetrachloroethene	Ave	0.2970	0.2762	0.1500	0.00930	0.0100	-7.0	20.0
1,3-Dichloropropane	Ave	0.5367	0.4852		0.00904	0.0100	-9.6	20.0
2-Hexanone	Ave	0.2098	0.1701	0.0500	0.0162	0.0200	-18.9	20.0
Chlorodibromomethane	Ave	0.3538	0.2886		0.00816	0.0100	-18.4	20.0
Ethylene Dibromide	Ave	0.2906	0.2504		0.00861	0.0100	-13.9	20.0
Chlorobenzene	Ave	1.042	0.9840	0.3000	0.00945	0.0100	-5.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3717	0.3437		0.00925	0.0100	-7.5	20.0
Ethylbenzene	Ave	0.5737	0.5555		0.00968	0.0100	-3.2	20.0
m-Xylene & p-Xylene	Ave	0.7167	0.6858		0.00957	0.0100	-4.3	20.0
o-Xylene	Ave	0.7199	0.6920		0.00961	0.0100	-3.9	20.0
Styrene	Ave	1.177	1.105	0.3000	0.00939	0.0100	-6.1	20.0
Bromoform	Ave	0.1935	0.1559	0.1000	0.00806	0.0100	-19.4	20.0
Isopropylbenzene	Ave	1.785	1.738	0.1000	0.00974	0.0100	-2.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6963	0.5777	0.3000	0.00830	0.0100	-17.0	20.0
Bromobenzene	Ave	0.7820	0.7114		0.00910	0.0100	-9.0	20.0
1,2,3-Trichloropropane	Lin1		0.1718		0.00804	0.0100	-19.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1991	0.1472		0.00740	0.0100	-26.0*	20.0
N-Propylbenzene	Ave	0.9385	0.8613		0.00918	0.0100	-8.2	20.0
2-Chlorotoluene	Ave	0.8045	0.7344		0.00913	0.0100	-8.7	20.0
1,3,5-Trimethylbenzene	Ave	2.848	2.636		0.00926	0.0100	-7.4	20.0
4-Chlorotoluene	Ave	0.8281	0.7603		0.00918	0.0100	-8.2	20.0
tert-Butylbenzene	Ave	2.462	2.282		0.00927	0.0100	-7.3	20.0
1,2,4-Trimethylbenzene	Ave	2.977	2.780		0.00934	0.0100	-6.6	20.0
sec-Butylbenzene	Ave	3.385	3.194		0.00944	0.0100	-5.6	20.0
1,3-Dichlorobenzene	Ave	1.551	1.418	0.6000	0.00915	0.0100	-8.5	20.0
4-Isopropyltoluene	Ave	2.944	2.760		0.00938	0.0100	-6.2	20.0
1,4-Dichlorobenzene	Ave	1.558	1.442	0.5000	0.00925	0.0100	-7.5	20.0
n-Butylbenzene	Ave	2.523	2.317		0.00918	0.0100	-8.2	20.0
1,2-Dichlorobenzene	Ave	1.479	1.374	0.4000	0.00929	0.0100	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-235346/2 Calibration Date: 06/21/2016 12:26
 Instrument ID: A3UX16 Calib Start Date: 06/01/2016 12:06
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 06/01/2016 14:22
 Lab File ID: UXM6088.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	0.1603	0.1030	0.0500	0.00642	0.0100	-35.8	50.0
1,2,4-Trichlorobenzene	Ave	0.9684	0.8571	0.2000	0.00885	0.0100	-11.5	50.0
Hexachlorobutadiene	Ave	0.3429	0.2782		0.00811	0.0100	-18.9	20.0
Naphthalene	Ave	2.483	1.904		0.00767	0.0100	-23.3	50.0
1,2,3-Trichlorobenzene	Ave	0.8687	0.7538		0.00868	0.0100	-13.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2344	0.2275		0.00971	0.0100	-2.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2836	0.2728		0.00962	0.0100	-3.8	20.0
Toluene-d8 (Surr)	Ave	1.348	1.395		0.0103	0.0100	3.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5111	0.5070		0.00992	0.0100	-0.8	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-235221/6
 Matrix: Water Lab File ID: UXM6063.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 13:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-235221/6
 Matrix: Water Lab File ID: UXM6063.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 13:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120
460-00-4	4-Bromofluorobenzene (Surr)	97		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-235346/6
 Matrix: Water Lab File ID: UXM6092.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2016 13:57
 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.: 235346 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	Ethylene Dibromide	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Dichlorobromomethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Chlorodibromomethane	1.0	U	1.0	0.43
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-235346/6
 Matrix: Water Lab File ID: UXM6092.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2016 13:57
 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.: 235346 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120
460-00-4	4-Bromofluorobenzene (Surr)	99		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-235221/4
 Matrix: Water Lab File ID: UXM6059.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 12:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	9.62		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	8.24		1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.44		1.0	0.45
79-00-5	1,1,2-Trichloroethane	8.73		1.0	0.24
75-34-3	1,1-Dichloroethane	9.16		1.0	0.30
75-35-4	1,1-Dichloroethene	8.38		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	8.52		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	6.30		2.0	0.82
106-93-4	Ethylene Dibromide	8.44		1.0	0.32
95-50-1	1,2-Dichlorobenzene	9.04		1.0	0.25
107-06-2	1,2-Dichloroethane	8.84		1.0	0.23
78-87-5	1,2-Dichloropropane	9.24		1.0	0.25
541-73-1	1,3-Dichlorobenzene	9.07		1.0	0.19
106-46-7	1,4-Dichlorobenzene	9.17		1.0	0.27
78-93-3	2-Butanone (MEK)	14.5		10	0.53
591-78-6	2-Hexanone	15.0		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	15.2		10	0.99
67-64-1	Acetone	12.6		10	0.94
71-43-2	Benzene	9.25		1.0	0.35
75-27-4	Dichlorobromomethane	8.58		1.0	0.29
75-25-2	Bromoform	8.16		1.0	0.56
74-83-9	Bromomethane	8.13		1.0	0.44
75-15-0	Carbon disulfide	8.82		1.0	0.38
56-23-5	Carbon tetrachloride	8.99		1.0	0.43
108-90-7	Chlorobenzene	9.21		1.0	0.25
75-00-3	Chloroethane	6.91		1.0	0.32
67-66-3	Chloroform	9.23		1.0	0.25
74-87-3	Chloromethane	9.86		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.12		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	8.58		1.0	0.46
110-82-7	Cyclohexane	9.27		1.0	0.45
124-48-1	Chlorodibromomethane	7.92		1.0	0.43
75-71-8	Dichlorodifluoromethane	8.77		1.0	0.32
100-41-4	Ethylbenzene	9.26		1.0	0.25
98-82-8	Isopropylbenzene	9.53		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-235221/4
 Matrix: Water Lab File ID: UXM6059.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 12:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	38.4		10	2.3
1634-04-4	Methyl tert-butyl ether	8.59		1.0	0.20
108-87-2	Methylcyclohexane	9.02		1.0	0.43
75-09-2	Methylene Chloride	9.66		1.0	0.33
100-42-5	Styrene	9.23		1.0	0.45
127-18-4	Tetrachloroethene	9.24		1.0	0.31
108-88-3	Toluene	9.54		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	9.31		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	8.30		1.0	0.56
79-01-6	Trichloroethene	9.09		1.0	0.22
75-69-4	Trichlorofluoromethane	9.97		1.0	0.49
75-01-4	Vinyl chloride	9.23		1.0	0.29
1330-20-7	Xylenes, Total	18.4		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120
460-00-4	4-Bromofluorobenzene (Surr)	99		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-235346/4
 Matrix: Water Lab File ID: UXM6089.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2016 12:49
 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.: 235346 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	9.88		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	8.62		1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.66		1.0	0.45
79-00-5	1,1,2-Trichloroethane	9.29		1.0	0.24
75-34-3	1,1-Dichloroethane	9.71		1.0	0.30
75-35-4	1,1-Dichloroethene	9.07		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	9.02		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	7.07		2.0	0.82
106-93-4	Ethylene Dibromide	9.14		1.0	0.32
95-50-1	1,2-Dichlorobenzene	9.78		1.0	0.25
107-06-2	1,2-Dichloroethane	9.44		1.0	0.23
78-87-5	1,2-Dichloropropane	9.69		1.0	0.25
541-73-1	1,3-Dichlorobenzene	9.55		1.0	0.19
106-46-7	1,4-Dichlorobenzene	9.82		1.0	0.27
78-93-3	2-Butanone (MEK)	14.4		10	0.53
591-78-6	2-Hexanone	15.9		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	16.2		10	0.99
67-64-1	Acetone	13.7		10	0.94
71-43-2	Benzene	9.73		1.0	0.35
75-27-4	Dichlorobromomethane	8.90		1.0	0.29
75-25-2	Bromoform	8.73		1.0	0.56
74-83-9	Bromomethane	8.98		1.0	0.44
75-15-0	Carbon disulfide	9.55		1.0	0.38
56-23-5	Carbon tetrachloride	9.45		1.0	0.43
108-90-7	Chlorobenzene	9.78		1.0	0.25
75-00-3	Chloroethane	7.50		1.0	0.32
67-66-3	Chloroform	9.85		1.0	0.25
74-87-3	Chloromethane	10.5		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.70		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	9.13		1.0	0.46
110-82-7	Cyclohexane	9.89		1.0	0.45
124-48-1	Chlorodibromomethane	8.42		1.0	0.43
75-71-8	Dichlorodifluoromethane	9.61		1.0	0.32
100-41-4	Ethylbenzene	9.78		1.0	0.25
98-82-8	Isopropylbenzene	9.94		1.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-235346/4
 Matrix: Water Lab File ID: UXM6089.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2016 12:49
 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.: 235346 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	40.9		10	2.3
1634-04-4	Methyl tert-butyl ether	8.87		1.0	0.20
108-87-2	Methylcyclohexane	9.55		1.0	0.43
75-09-2	Methylene Chloride	9.93		1.0	0.33
100-42-5	Styrene	9.54		1.0	0.45
127-18-4	Tetrachloroethene	9.59		1.0	0.31
108-88-3	Toluene	10.1		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	10.1		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	8.97		1.0	0.56
79-01-6	Trichloroethene	9.42		1.0	0.22
75-69-4	Trichlorofluoromethane	10.9		1.0	0.49
75-01-4	Vinyl chloride	9.67		1.0	0.29
1330-20-7	Xylenes, Total	19.5		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120
460-00-4	4-Bromofluorobenzene (Surr)	98		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2I-061416 MS Lab Sample ID: 240-66032-2 MS
 Matrix: Water Lab File ID: UXM6100.D
 Analysis Method: 8260C Date Collected: 06/14/2016 10:17
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2016 17:00
 Soil Aliquot Vol: _____ Dilution Factor: 125
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235346 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1250		130	55
79-34-5	1,1,2,2-Tetrachloroethane	1050		130	28
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1100		130	56
79-00-5	1,1,2-Trichloroethane	1120		130	30
75-34-3	1,1-Dichloroethane	1200		130	38
75-35-4	1,1-Dichloroethene	1170		130	56
120-82-1	1,2,4-Trichlorobenzene	1100		130	40
96-12-8	1,2-Dibromo-3-Chloropropane	817		250	100
106-93-4	Ethylene Dibromide	1100		130	40
95-50-1	1,2-Dichlorobenzene	1200		130	31
107-06-2	1,2-Dichloroethane	1160		130	29
78-87-5	1,2-Dichloropropane	1220		130	31
541-73-1	1,3-Dichlorobenzene	1200		130	24
106-46-7	1,4-Dichlorobenzene	1210		130	34
78-93-3	2-Butanone (MEK)	1780		1300	66
591-78-6	2-Hexanone	1840		1300	60
108-10-1	4-Methyl-2-pentanone (MIBK)	1960		1300	120
67-64-1	Acetone	1560		1300	120
71-43-2	Benzene	1230		130	44
75-27-4	Dichlorobromomethane	1130		130	36
75-25-2	Bromoform	1010		130	70
74-83-9	Bromomethane	854		130	55
75-15-0	Carbon disulfide	1190		130	48
56-23-5	Carbon tetrachloride	1170		130	54
108-90-7	Chlorobenzene	1190		130	31
75-00-3	Chloroethane	810		130	40
67-66-3	Chloroform	1210		130	31
74-87-3	Chloromethane	1220		130	55
156-59-2	cis-1,2-Dichloroethene	4330		130	33
10061-01-5	cis-1,3-Dichloropropene	1120		130	58
110-82-7	Cyclohexane	1190		130	56
124-48-1	Chlorodibromomethane	1010		130	54
75-71-8	Dichlorodifluoromethane	1080		130	40
100-41-4	Ethylbenzene	1210		130	31
98-82-8	Isopropylbenzene	1240		130	44

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2I-061416 MS Lab Sample ID: 240-66032-2 MS
 Matrix: Water Lab File ID: UXM6100.D
 Analysis Method: 8260C Date Collected: 06/14/2016 10:17
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2016 17:00
 Soil Aliquot Vol: _____ Dilution Factor: 125
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235346 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	4960		1300	280
1634-04-4	Methyl tert-butyl ether	1100		130	25
108-87-2	Methylcyclohexane	1150		130	54
75-09-2	Methylene Chloride	1200		130	41
100-42-5	Styrene	1190		130	56
127-18-4	Tetrachloroethene	1200		130	39
108-88-3	Toluene	1250		130	29
156-60-5	trans-1,2-Dichloroethene	1260		130	38
10061-02-6	trans-1,3-Dichloropropene	1060		130	70
79-01-6	Trichloroethene	4680		130	28
75-69-4	Trichlorofluoromethane	1290		130	61
75-01-4	Vinyl chloride	1460		130	36
1330-20-7	Xylenes, Total	2370		250	65

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120
460-00-4	4-Bromofluorobenzene (Surr)	96		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65962-B-1 MS
 Matrix: Water Lab File ID: UXM6071.D
 Analysis Method: 8260C Date Collected: 06/10/2016 09:35
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 16:56
 Soil Aliquot Vol: _____ Dilution Factor: 333.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3230		330	150
79-34-5	1,1,2,2-Tetrachloroethane	2640		330	73
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2730		330	150
79-00-5	1,1,2-Trichloroethane	2820		330	80
75-34-3	1,1-Dichloroethane	3030		330	100
75-35-4	1,1-Dichloroethene	2770		330	150
120-82-1	1,2,4-Trichlorobenzene	2870		330	110
96-12-8	1,2-Dibromo-3-Chloropropane	2080		670	270
106-93-4	Ethylene Dibromide	2690		330	110
95-50-1	1,2-Dichlorobenzene	3020		330	83
107-06-2	1,2-Dichloroethane	2900		330	77
78-87-5	1,2-Dichloropropane	2980		330	83
541-73-1	1,3-Dichlorobenzene	3020		330	63
106-46-7	1,4-Dichlorobenzene	3100		330	90
78-93-3	2-Butanone (MEK)	4250		3300	180
591-78-6	2-Hexanone	4590		3300	160
108-10-1	4-Methyl-2-pentanone (MIBK)	4760		3300	330
67-64-1	Acetone	3700		3300	310
71-43-2	Benzene	3080		330	120
75-27-4	Dichlorobromomethane	2760		330	97
75-25-2	Bromoform	2590		330	190
74-83-9	Bromomethane	3280		330	150
75-15-0	Carbon disulfide	2910		330	130
56-23-5	Carbon tetrachloride	3010		330	140
108-90-7	Chlorobenzene	3030		330	83
75-00-3	Chloroethane	2600		330	110
67-66-3	Chloroform	3110		330	83
74-87-3	Chloromethane	3220		330	150
156-59-2	cis-1,2-Dichloroethene	6410		330	87
10061-01-5	cis-1,3-Dichloropropene	2730		330	150
110-82-7	Cyclohexane	3050		330	150
124-48-1	Chlorodibromomethane	2530		330	140
75-71-8	Dichlorodifluoromethane	2830		330	110
100-41-4	Ethylbenzene	3100		330	83
98-82-8	Isopropylbenzene	3180		330	120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65962-B-1 MS
 Matrix: Water Lab File ID: UXM6071.D
 Analysis Method: 8260C Date Collected: 06/10/2016 09:35
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 16:56
 Soil Aliquot Vol: _____ Dilution Factor: 333.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	12200		3300	760
1634-04-4	Methyl tert-butyl ether	2740		330	67
108-87-2	Methylcyclohexane	2960		330	140
75-09-2	Methylene Chloride	3090		330	110
100-42-5	Styrene	2990		330	150
127-18-4	Tetrachloroethene	3050		330	100
108-88-3	Toluene	3170		330	77
156-60-5	trans-1,2-Dichloroethene	3160		330	100
10061-02-6	trans-1,3-Dichloropropene	2620		330	190
79-01-6	Trichloroethene	12300		330	73
75-69-4	Trichlorofluoromethane	4020		330	160
75-01-4	Vinyl chloride	3120		330	97
1330-20-7	Xylenes, Total	6060		670	170

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120
460-00-4	4-Bromofluorobenzene (Surr)	98		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2I-061416 MSD Lab Sample ID: 240-66032-2 MSD
 Matrix: Water Lab File ID: UXM6101.D
 Analysis Method: 8260C Date Collected: 06/14/2016 10:17
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2016 17:22
 Soil Aliquot Vol: _____ Dilution Factor: 125
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235346 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1250		130	55
79-34-5	1,1,2,2-Tetrachloroethane	1060		130	28
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1060		130	56
79-00-5	1,1,2-Trichloroethane	1090		130	30
75-34-3	1,1-Dichloroethane	1180		130	38
75-35-4	1,1-Dichloroethene	1160		130	56
120-82-1	1,2,4-Trichlorobenzene	1110		130	40
96-12-8	1,2-Dibromo-3-Chloropropane	828		250	100
106-93-4	Ethylene Dibromide	1080		130	40
95-50-1	1,2-Dichlorobenzene	1180		130	31
107-06-2	1,2-Dichloroethane	1160		130	29
78-87-5	1,2-Dichloropropane	1180		130	31
541-73-1	1,3-Dichlorobenzene	1160		130	24
106-46-7	1,4-Dichlorobenzene	1190		130	34
78-93-3	2-Butanone (MEK)	1720		1300	66
591-78-6	2-Hexanone	1770		1300	60
108-10-1	4-Methyl-2-pentanone (MIBK)	1920		1300	120
67-64-1	Acetone	1580		1300	120
71-43-2	Benzene	1210		130	44
75-27-4	Dichlorobromomethane	1100		130	36
75-25-2	Bromoform	1000		130	70
74-83-9	Bromomethane	1240		130	55
75-15-0	Carbon disulfide	1190		130	48
56-23-5	Carbon tetrachloride	1140		130	54
108-90-7	Chlorobenzene	1160		130	31
75-00-3	Chloroethane	954		130	40
67-66-3	Chloroform	1200		130	31
74-87-3	Chloromethane	1270		130	55
156-59-2	cis-1,2-Dichloroethene	4330		130	33
10061-01-5	cis-1,3-Dichloropropene	1080		130	58
110-82-7	Cyclohexane	1160		130	56
124-48-1	Chlorodibromomethane	989		130	54
75-71-8	Dichlorodifluoromethane	1100		130	40
100-41-4	Ethylbenzene	1160		130	31
98-82-8	Isopropylbenzene	1210		130	44

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2I-061416 MSD Lab Sample ID: 240-66032-2 MSD
 Matrix: Water Lab File ID: UXM6101.D
 Analysis Method: 8260C Date Collected: 06/14/2016 10:17
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2016 17:22
 Soil Aliquot Vol: _____ Dilution Factor: 125
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235346 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	4920		1300	280
1634-04-4	Methyl tert-butyl ether	1070		130	25
108-87-2	Methylcyclohexane	1120		130	54
75-09-2	Methylene Chloride	1200		130	41
100-42-5	Styrene	1150		130	56
127-18-4	Tetrachloroethene	1170		130	39
108-88-3	Toluene	1210		130	29
156-60-5	trans-1,2-Dichloroethene	1240		130	38
10061-02-6	trans-1,3-Dichloropropene	1030		130	70
79-01-6	Trichloroethene	4680		130	28
75-69-4	Trichlorofluoromethane	1360		130	61
75-01-4	Vinyl chloride	1450		130	36
1330-20-7	Xylenes, Total	2330		250	65

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120
460-00-4	4-Bromofluorobenzene (Surr)	96		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65962-B-1 MSD
 Matrix: Water Lab File ID: UXM6072.D
 Analysis Method: 8260C Date Collected: 06/10/2016 09:35
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 17:19
 Soil Aliquot Vol: _____ Dilution Factor: 333.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3250		330	150
79-34-5	1,1,2,2-Tetrachloroethane	2790		330	73
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2870		330	150
79-00-5	1,1,2-Trichloroethane	2990		330	80
75-34-3	1,1-Dichloroethane	3040		330	100
75-35-4	1,1-Dichloroethene	2810		330	150
120-82-1	1,2,4-Trichlorobenzene	2980		330	110
96-12-8	1,2-Dibromo-3-Chloropropane	2190		670	270
106-93-4	Ethylene Dibromide	2850		330	110
95-50-1	1,2-Dichlorobenzene	3140		330	83
107-06-2	1,2-Dichloroethane	2890		330	77
78-87-5	1,2-Dichloropropane	3090		330	83
541-73-1	1,3-Dichlorobenzene	3140		330	63
106-46-7	1,4-Dichlorobenzene	3190		330	90
78-93-3	2-Butanone (MEK)	4260		3300	180
591-78-6	2-Hexanone	4890		3300	160
108-10-1	4-Methyl-2-pentanone (MIBK)	5010		3300	330
67-64-1	Acetone	4070		3300	310
71-43-2	Benzene	3080		330	120
75-27-4	Dichlorobromomethane	2840		330	97
75-25-2	Bromoform	2590		330	190
74-83-9	Bromomethane	2510		330	150
75-15-0	Carbon disulfide	2940		330	130
56-23-5	Carbon tetrachloride	3020		330	140
108-90-7	Chlorobenzene	3170		330	83
75-00-3	Chloroethane	2250		330	110
67-66-3	Chloroform	3100		330	83
74-87-3	Chloromethane	3150		330	150
156-59-2	cis-1,2-Dichloroethene	6330		330	87
10061-01-5	cis-1,3-Dichloropropene	2830		330	150
110-82-7	Cyclohexane	3120		330	150
124-48-1	Chlorodibromomethane	2630		330	140
75-71-8	Dichlorodifluoromethane	2950		330	110
100-41-4	Ethylbenzene	3210		330	83
98-82-8	Isopropylbenzene	3270		330	120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65962-B-1 MSD
 Matrix: Water Lab File ID: UXM6072.D
 Analysis Method: 8260C Date Collected: 06/10/2016 09:35
 Sample wt/vol: 5 (mL) Date Analyzed: 06/20/2016 17:19
 Soil Aliquot Vol: _____ Dilution Factor: 333.33
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235221 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	12700		3300	760
1634-04-4	Methyl tert-butyl ether	2820		330	67
108-87-2	Methylcyclohexane	3070		330	140
75-09-2	Methylene Chloride	3000		330	110
100-42-5	Styrene	3120		330	150
127-18-4	Tetrachloroethene	3100		330	100
108-88-3	Toluene	3250		330	77
156-60-5	trans-1,2-Dichloroethene	3180		330	100
10061-02-6	trans-1,3-Dichloropropene	2790		330	190
79-01-6	Trichloroethene	12100		330	73
75-69-4	Trichlorofluoromethane	3670		330	160
75-01-4	Vinyl chloride	3140		330	97
1330-20-7	Xylenes, Total	6300		670	170

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120
460-00-4	4-Bromofluorobenzene (Surr)	98		61-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-125

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica CantonJob No.: 240-66032-1

SDG No.: _____

Instrument ID: A3UX16Start Date: 06/01/2016 11:38Analysis Batch Number: 232711End Date: 06/01/2016 19:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-232711/1		06/01/2016 11:38	1	BFB4865.D	DB-624 0.18 (mm)
STD8269 240-232711/2 IC		06/01/2016 12:06	1	UXM5570.D	DB-624 0.18 (mm)
STD8260 240-232711/3 IC		06/01/2016 12:29	1	UXM5571.D	DB-624 0.18 (mm)
STD8260 240-232711/4 ICIS		06/01/2016 12:51	1	UXM5572.D	DB-624 0.18 (mm)
STD8260 240-232711/5 IC		06/01/2016 13:14	1	UXM5573.D	DB-624 0.18 (mm)
STD8260 240-232711/6 IC		06/01/2016 13:37	1	UXM5574.D	DB-624 0.18 (mm)
STD8260 240-232711/7 IC		06/01/2016 14:00	1	UXM5575.D	DB-624 0.18 (mm)
STD8260 240-232711/8 IC		06/01/2016 14:22	1	UXM5576.D	DB-624 0.18 (mm)
ICV 240-232711/9		06/01/2016 14:45	1	UXM5577.D	DB-624 0.18 (mm)
STDA9 240-232711/10 IC		06/01/2016 15:08	1		DB-624 0.18 (mm)
STDA9 240-232711/11 IC		06/01/2016 15:31	1		DB-624 0.18 (mm)
STDA9 240-232711/12 IC		06/01/2016 15:53	1		DB-624 0.18 (mm)
STDA9 240-232711/13 IC		06/01/2016 16:16	1		DB-624 0.18 (mm)
STDA9 240-232711/14 IC		06/01/2016 16:39	1		DB-624 0.18 (mm)
STDA9 240-232711/15 IC		06/01/2016 17:02	1		DB-624 0.18 (mm)
ICV 240-232711/16		06/01/2016 17:24	1	UXM5584.D	DB-624 0.18 (mm)
STDTHT 240-232711/17 IC		06/01/2016 17:47	1		DB-624 0.18 (mm)
STDTHT 240-232711/18 IC		06/01/2016 18:10	1		DB-624 0.18 (mm)
STDTHT 240-232711/19 IC		06/01/2016 18:33	1		DB-624 0.18 (mm)
STDTHT 240-232711/20 IC		06/01/2016 18:55	1		DB-624 0.18 (mm)
STDTHT 240-232711/21 IC		06/01/2016 19:18	1		DB-624 0.18 (mm)
STDTHT 240-232711/22 IC		06/01/2016 19:41	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica CantonJob No.: 240-66032-1

SDG No.: _____

Instrument ID: A3UX16Start Date: 06/20/2016 11:25Analysis Batch Number: 235221End Date: 06/20/2016 22:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-235221/1		06/20/2016 11:25	1	BFB4888.D	DB-624 0.18 (mm)
LCS 240-235221/4		06/20/2016 12:25	1	UXM6059.D	DB-624 0.18 (mm)
CCVIS 240-235221/2		06/20/2016 12:47	1	UXM6060.D	DB-624 0.18 (mm)
CCV 240-235221/3		06/20/2016 13:10	1	UXM6061.D	DB-624 0.18 (mm)
ZZZZZ		06/20/2016 13:33	1		DB-624 0.18 (mm)
MB 240-235221/6		06/20/2016 13:55	1	UXM6063.D	DB-624 0.18 (mm)
ZZZZZ		06/20/2016 14:41	10000		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 15:04	10000		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 15:26	66.67		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 15:49	25		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 16:11	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 16:33	333.33		DB-624 0.18 (mm)
240-65962-B-1 MS		06/20/2016 16:56	333.33	UXM6071.D	DB-624 0.18 (mm)
240-65962-B-1 MSD		06/20/2016 17:19	333.33	UXM6072.D	DB-624 0.18 (mm)
ZZZZZ		06/20/2016 18:04	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 18:27	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 18:50	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 19:12	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 19:35	1		DB-624 0.18 (mm)
240-66032-1		06/20/2016 19:58	1	UXM6079.D	DB-624 0.18 (mm)
240-66032-3		06/20/2016 20:43	40	UXM6081.D	DB-624 0.18 (mm)
240-66032-4		06/20/2016 21:06	100	UXM6082.D	DB-624 0.18 (mm)
240-66032-5		06/20/2016 21:29	1	UXM6083.D	DB-624 0.18 (mm)
ZZZZZ		06/20/2016 21:51	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 22:14	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 22:36	1		DB-624 0.18 (mm)
ZZZZZ		06/20/2016 22:59	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: A3UX16 Start Date: 06/21/2016 11:57Analysis Batch Number: 235346 End Date: 06/21/2016 17:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-235346/1		06/21/2016 11:57	1	BFB4889.D	DB-624 0.18 (mm)
CCVIS 240-235346/2		06/21/2016 12:26	1	UXM6088.D	DB-624 0.18 (mm)
LCS 240-235346/4		06/21/2016 12:49	1	UXM6089.D	DB-624 0.18 (mm)
CCV 240-235346/3		06/21/2016 13:12	1	UXM6090.D	DB-624 0.18 (mm)
ZZZZZ		06/21/2016 13:35	1		DB-624 0.18 (mm)
MB 240-235346/6		06/21/2016 13:57	1	UXM6092.D	DB-624 0.18 (mm)
240-66032-2		06/21/2016 14:20	125	UXM6093.D	DB-624 0.18 (mm)
ZZZZZ		06/21/2016 14:43	2		DB-624 0.18 (mm)
ZZZZZ		06/21/2016 15:06	1		DB-624 0.18 (mm)
ZZZZZ		06/21/2016 15:28	1		DB-624 0.18 (mm)
ZZZZZ		06/21/2016 15:51	1		DB-624 0.18 (mm)
ZZZZZ		06/21/2016 16:14	1		DB-624 0.18 (mm)
ZZZZZ		06/21/2016 16:37	1		DB-624 0.18 (mm)
240-66032-2 MS		06/21/2016 17:00	125	UXM6100.D	DB-624 0.18 (mm)
240-66032-2 MSD		06/21/2016 17:22	125	UXM6101.D	DB-624 0.18 (mm)

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): HP-PLOT/Q ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TFE1 #
NMW-2I-061416	240-66032-2	93
NMW-2I-061416	240-66032-2	103
NMW-2S-061416	240-66032-3	97
NMW-2S-061416	240-66032-3	99
NMW-3I-061416	240-66032-4	95
NMW-3I-061416	240-66032-4	98
	MB 240-235546/4	108
	MB 240-235861/4	110
	LCS 240-235546/5	109
	LCS 240-235861/5	113
	240-65988-E-3 MS	104
	240-65999-B-3 MS	105
	240-65988-E-3 MSD	103
	240-65999-B-3 MSD	103

TFE = 1,1,1-Trifluoroethane

QC LIMITS
76-121

Column to be used to flag recovery values

FORM II RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0062305.D
 Lab ID: LCS 240-235546/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	385	110	79-132	
Ethane	374	422	113	76-131	
Methane	199	196	98	80-130	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0062405.D
 Lab ID: LCS 240-235861/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethene	349	348	100	79-132	
Ethane	374	382	102	76-131	
Methane	199	176	89	80-130	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: RSK0062309.D
 Lab ID: 240-65988-E-3 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethene	1750	3.1	1840	105	60-135	
Ethane	1870	2.5 U	2020	108	65-126	
Methane	994	3500	4910	141	48-159	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0062407.D

Lab ID: 240-65999-B-3 MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethene	1750	2.5 U	1850	106	60-135	
Ethane	1870	2.5 U	2030	109	65-126	
Methane	994	4200	5740	158	48-159	4

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0062310.D

Lab ID: 240-65988-E-3 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethene	1750	1840	105	0	10	60-135	
Ethane	1870	2020	108	0	11	65-126	
Methane	994	4860	136	1	23	48-159	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: RSK0062408.D

Lab ID: 240-65999-B-3 MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethene	1750	1820	104	2	10	60-135	
Ethane	1870	2030	109	0	11	65-126	
Methane	994	6210	205	8	23	48-159	4

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: MB 240-235546/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) RSK0062304.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/23/2016 14:01 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) HP-PLOT/Q 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
	LCS 240-235546/5	06/23/2016 14:18	
	240-65988-E-3 MS	06/23/2016 15:28	
	240-65988-E-3 MSD	06/23/2016 15:45	
NMW-2I-061416	240-66032-2	06/23/2016 19:13	
NMW-2S-061416	240-66032-3	06/23/2016 19:30	
NMW-3I-061416	240-66032-4	06/23/2016 19:47	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: MB 240-235861/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) RSK0062404.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/24/2016 14:58 Date Analyzed: (2) _____
 Instrument ID: (1) ZPID Instrument ID: (2) _____
 GC Column: (1) HP-PLOT/Q 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
	LCS 240-235861/5	06/24/2016 15:15	
	240-65999-B-3 MS	06/24/2016 15:50	
	240-65999-B-3 MSD	06/24/2016 16:07	
NMW-2I-061416	240-66032-2	06/24/2016 17:32	
NMW-2S-061416	240-66032-3	06/24/2016 18:06	
NMW-3I-061416	240-66032-4	06/24/2016 18:23	

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Sample No.: STD3 240-214437/5 Date Analyzed: 01/18/2016 16:06
 Instrument ID: ZPID GC Column: _____ ID: ()
 Lab File ID (Standard): Z0011805.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
INITIAL CALIBRATION SURROGATE				3.33		
UPPER LIMIT				3.38		
LOWER LIMIT				3.28		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD3 240-214437/5 ICRT		01/18/2016 16:06	Z0011805.D	3.33		
ICV 240-214437/9		01/18/2016 17:08	Z0011809.D	3.33		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Sample No.: CCVRT 240-235546/3 Date Analyzed: 06/23/2016 13:44
 Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53 (mm)
 Lab File ID (Standard): RSK0062303.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.34		
UPPER LIMIT				3.39		
LOWER LIMIT				3.29		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-235546/3		06/23/2016 13:44	RSK0062303.D	3.34		
MB 240-235546/4		06/23/2016 14:01	RSK0062304.D	3.34		
LCS 240-235546/5		06/23/2016 14:18	RSK0062305.D	3.34		
240-65988-E-3 MS		06/23/2016 15:28	RSK0062309.D	3.34		
240-65988-E-3 MSD		06/23/2016 15:45	RSK0062310.D	3.34		
CCV 240-235546/14		06/23/2016 16:54	RSK0062314.D	3.34		
240-66032-2	NMW-2I-061416	06/23/2016 19:13	RSK0062322.D	3.33		
240-66032-3	NMW-2S-061416	06/23/2016 19:30	RSK0062323.D	3.34		
240-66032-4	NMW-3I-061416	06/23/2016 19:47	RSK0062324.D	3.34		
CCV 240-235546/25		06/23/2016 20:05	RSK0062325.D	3.34		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
GC VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Sample No.: CCVRT 240-235861/3 Date Analyzed: 06/24/2016 14:41
 Instrument ID: ZPID GC Column: HP-PLOT/Q ID: 0.53 (mm)
 Lab File ID (Standard): RSK0062403.D Heated Purge: (Y/N) N
 Calibration ID: 32579

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				TFE		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.34		
UPPER LIMIT				3.39		
LOWER LIMIT				3.29		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 240-235861/3		06/24/2016 14:41	RSK0062403.D	3.34		
MB 240-235861/4		06/24/2016 14:58	RSK0062404.D	3.34		
LCS 240-235861/5		06/24/2016 15:15	RSK0062405.D	3.34		
240-65999-B-3 MS		06/24/2016 15:50	RSK0062407.D	3.34		
240-65999-B-3 MSD		06/24/2016 16:07	RSK0062408.D	3.34		
240-66032-2	NMW-2I-061416	06/24/2016 17:32	RSK0062413.D	3.34		
CCV 240-235861/14		06/24/2016 17:49	RSK0062414.D	3.34		
240-66032-3	NMW-2S-061416	06/24/2016 18:06	RSK0062415.D	3.34		
240-66032-4	NMW-3I-061416	06/24/2016 18:23	RSK0062416.D	3.34		
CCV 240-235861/25		06/24/2016 20:57	RSK0062425.D	3.34		

TFE = 1,1,1-Trifluoroethane

TFE RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2I-061416 Lab Sample ID: 240-66032-2
 Matrix: Water Lab File ID: RSK0062322.D
 Analysis Method: RSK-175 Date Collected: 06/14/2016 10:17
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 19:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	31		0.50	0.13
74-84-0	Ethane	1.8		0.50	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	93		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2I-061416 Lab Sample ID: 240-66032-2
 Matrix: Water Lab File ID: RSK0062413.D
 Analysis Method: RSK-175 Date Collected: 06/14/2016 10:17
 Sample wt/vol: 33 (mL) Date Analyzed: 06/24/2016 17:32
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235861 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	2800		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	103		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2S-061416 Lab Sample ID: 240-66032-3
 Matrix: Water Lab File ID: RSK0062323.D
 Analysis Method: RSK-175 Date Collected: 06/14/2016 14:40
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 19:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	18		0.50	0.13
74-84-0	Ethane	8.5		0.50	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	97		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-2S-061416 Lab Sample ID: 240-66032-3
 Matrix: Water Lab File ID: RSK0062415.D
 Analysis Method: RSK-175 Date Collected: 06/14/2016 14:40
 Sample wt/vol: 33 (mL) Date Analyzed: 06/24/2016 18:06
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235861 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	6300		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	99		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-3I-061416 Lab Sample ID: 240-66032-4
 Matrix: Water Lab File ID: RSK0062324.D
 Analysis Method: RSK-175 Date Collected: 06/14/2016 12:06
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 19:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	120		0.50	0.13
74-84-0	Ethane	63		0.50	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	95		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: NMW-3I-061416 Lab Sample ID: 240-66032-4
 Matrix: Water Lab File ID: RSK0062416.D
 Analysis Method: RSK-175 Date Collected: 06/14/2016 12:06
 Sample wt/vol: 33 (mL) Date Analyzed: 06/24/2016 18:23
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235861 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	6700		5.0	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	98		76-121

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Methane	1.178	1.179	1.178	1.177	1.176	1.175					1.125 - 1.225	1.177
Ethene	1.871	1.872	1.872	1.870	1.869	1.865					1.815 - 1.915	1.870
Acetylene	1.985	1.982	1.982	1.984	1.983	1.979					1.929 - 2.029	1.983
Ethane	2.191	2.192	2.188	2.190	2.189	2.179					1.979 - 2.379	2.188
Propane	4.535	4.535	4.532	4.530	4.526	4.505					4.455 - 4.555	4.527
1,1,1-Trifluoroethane	3.331	3.332	3.328	3.324	3.319						3.228 - 3.428	3.327

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-66032-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.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								
Methane	16635 16339	16394 17321	16338	16069	Ave		16516.1974			2.6			30.0			
Ethene	12459 15191	15005 16050	15614	14955	Ave		14878.7453			8.4			30.0			
Acetylene	5207.9 6736.9	5918.0 6848.7	6621.7	6347.3	Ave		6280.08282			9.9			30.0			
Ethane	12801 15860	15600 17080	16229	15623	Ave		15532.1681			9.3			30.0			
Propane	12702 15394	15026 17064	15933	14986	Ave		15184.1425			9.5			30.0			
1,1,1-Trifluoroethane	6027.5 6174.1	6495.1	6443.1	6377.0	Ave		6303.36685			3.1			30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-66032-1 Analy Batch No.: 214437

SDG No.: _____

Instrument ID: ZPID GC Column: _____ ID: _____ Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2016 15:34 Calibration End Date: 01/18/2016 16:53 Calibration ID: 32579

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-214437/3	Z0011803.D
Level 2	STD2 240-214437/4	Z0011804.D
Level 3	STD3 240-214437/5	Z0011805.D
Level 4	STD4 240-214437/6	Z0011806.D
Level 5	STD5 240-214437/7	Z0011807.D
Level 6	STD6 240-214437/8	Z0011808.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
Methane	Ave	4299 34421990	32590	162394	1597146	6493970	0.258 1987	1.99	9.94	99.4	397
Ethene	Ave	5654 56017687	52380	272536	2610268	10604119	0.454 3490	3.49	17.5	175	698
Acetylene	Ave	2187 22117246	19117	106950	1025188	4351198	0.420 3229	3.23	16.2	162	646
Ethane	Ave	6223 63858213	58336	303430	2921002	11859185	0.486 3739	3.74	18.7	187	748
Propane	Ave	9047 93473662	82323	436476	4105331	16864776	0.712 5478	5.48	27.4	274	1096
1,1,1-Trifluoroethane	Ave	1572249	6776913	16806617	33268209	64418942	261	1043	2608	5217	10434

Curve Type Legend:

Ave = Average

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: ICV 240-214437/9 Calibration Date: 01/18/2016 17:08
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: Z0011809.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15087		182	199	-8.7	30.0
Ethene	Ave	14879	16432		385	349	10.4	30.0
Acetylene	Ave	6280	6935		357	323	10.4	30.0
Ethane	Ave	15532	17873		430	374	15.1	30.0
Propane	Ave	15184	18496		665	546	21.8	30.0
1,1,1-Trifluoroethane	Ave	6303	7158		3470	3050	13.6	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: ICV 240-214437/9 Calibration Date: 01/18/2016 17:08
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: _____ ID: _____ Calib End Date: 01/18/2016 16:53
 Lab File ID: Z0011809.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.87	1.82	1.92
Acetylene	1.98	1.93	2.03
Ethane	2.19	1.98	2.38
Propane	4.53	4.46	4.56
1,1,1-Trifluoroethane	3.33	3.23	3.43

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-235546/3 Calibration Date: 06/23/2016 13:44
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062303.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	16026		193	199	-3.0	30.0
Ethene	Ave	14879	16231		381	349	9.1	30.0
Acetylene	Ave	6280	7207		371	323	14.8	30.0
Ethane	Ave	15532	17380		418	374	11.9	30.0
Propane	Ave	15184	17261		623	548	13.7	30.0
1,1,1-Trifluoroethane	Ave	6303	6942		3360	3050	10.1	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-235546/3 Calibration Date: 06/23/2016 13:44
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062303.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235546/14 Calibration Date: 06/23/2016 16:54
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062314.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15533		187	199	-6.0	30.0
Ethene	Ave	14879	15215		357	349	2.3	30.0
Acetylene	Ave	6280	6204		319	323	-1.2	30.0
Ethane	Ave	15532	16620		400	374	7.0	30.0
Propane	Ave	15184	16335		589	548	7.6	30.0
1,1,1-Trifluoroethane	Ave	6303	6480		3140	3050	2.8	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235546/14 Calibration Date: 06/23/2016 16:54
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062314.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235546/25 Calibration Date: 06/23/2016 20:05
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062325.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	14968		180	199	-9.4	30.0
Ethene	Ave	14879	13689		321	349	-8.0	30.0
Acetylene	Ave	6280	5733		295	323	-8.7	30.0
Ethane	Ave	15532	15198		366	374	-2.1	30.0
Propane	Ave	15184	14293		516	548	-5.9	30.0
1,1,1-Trifluoroethane	Ave	6303	5865		2840	3050	-6.9	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235546/25 Calibration Date: 06/23/2016 20:05
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062325.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-235861/3 Calibration Date: 06/24/2016 14:41
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062403.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15955		192	199	-3.4	30.0
Ethene	Ave	14879	16178		380	349	8.7	30.0
Acetylene	Ave	6280	6787		349	323	8.1	30.0
Ethane	Ave	15532	17392		419	374	12.0	30.0
Propane	Ave	15184	17287		624	548	13.8	30.0
1,1,1-Trifluoroethane	Ave	6303	6714		3250	3050	6.5	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCVRT 240-235861/3 Calibration Date: 06/24/2016 14:41
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062403.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235861/14 Calibration Date: 06/24/2016 17:49
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062414.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	15350		185	199	-7.1	30.0
Ethene	Ave	14879	14861		349	349	-0.1	30.0
Acetylene	Ave	6280	5680		292	323	-9.6	30.0
Ethane	Ave	15532	16327		393	374	5.1	30.0
Propane	Ave	15184	15714		567	548	3.5	30.0
1,1,1-Trifluoroethane	Ave	6303	6171		2990	3050	-2.1	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235861/14 Calibration Date: 06/24/2016 17:49
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062414.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.54	4.49	4.59
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235861/25 Calibration Date: 06/24/2016 20:57
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062425.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Ave	16516	14929		180	199	-9.6	30.0
Ethene	Ave	14879	13607		319	349	-8.5	30.0
Acetylene	Ave	6280	5274		271	323	-16.0	30.0
Ethane	Ave	15532	15264		367	374	-1.7	30.0
Propane	Ave	15184	14409		520	548	-5.1	30.0
1,1,1-Trifluoroethane	Ave	6303	5603		2710	3050	-11.1	30.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Lab Sample ID: CCV 240-235861/25 Calibration Date: 06/24/2016 20:57
 Instrument ID: ZPID Calib Start Date: 01/18/2016 15:34
 GC Column: HP-PLOT/Q ID: 0.53 (mm) Calib End Date: 01/18/2016 16:53
 Lab File ID: RSK0062425.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.13	1.23
Ethene	1.88	1.83	1.93
Acetylene	1.99	1.94	2.04
Ethane	2.20	2.00	2.40
Propane	4.55	4.50	4.60
1,1,1-Trifluoroethane	3.34	3.24	3.44

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-235546/4
 Matrix: Water Lab File ID: RSK0062304.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 14:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	108		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-235861/4
 Matrix: Water Lab File ID: RSK0062404.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 06/24/2016 14:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235861 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	0.50	U	0.50	0.13
74-84-0	Ethane	0.50	U	0.50	0.14
74-82-8	Methane	0.50	U	0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	110		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-235546/5
 Matrix: Water Lab File ID: RSK0062305.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 14:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	385		0.50	0.13
74-84-0	Ethane	422		0.50	0.14
74-82-8	Methane	196		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	109		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-235861/5
 Matrix: Water Lab File ID: RSK0062405.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 33 (mL) Date Analyzed: 06/24/2016 15:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235861 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	348		0.50	0.13
74-84-0	Ethane	382		0.50	0.14
74-82-8	Methane	176		0.50	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	113		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65988-E-3 MS
 Matrix: Water Lab File ID: RSK0062309.D
 Analysis Method: RSK-175 Date Collected: 06/13/2016 15:08
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 15:28
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	1840		2.5	0.65
74-84-0	Ethane	2020		2.5	0.70
74-82-8	Methane	4910		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	104		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65999-B-3 MS
 Matrix: Water Lab File ID: RSK0062407.D
 Analysis Method: RSK-175 Date Collected: 06/09/2016 00:00
 Sample wt/vol: 33 (mL) Date Analyzed: 06/24/2016 15:50
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235861 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	1850		2.5	0.65
74-84-0	Ethane	2030		2.5	0.70
74-82-8	Methane	5740		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	105		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65988-E-3 MSD
 Matrix: Water Lab File ID: RSK0062310.D
 Analysis Method: RSK-175 Date Collected: 06/13/2016 15:08
 Sample wt/vol: 33 (mL) Date Analyzed: 06/23/2016 15:45
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	1840		2.5	0.65
74-84-0	Ethane	2020		2.5	0.70
74-82-8	Methane	4860		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	103		76-121

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 240-65999-B-3 MSD
 Matrix: Water Lab File ID: RSK0062408.D
 Analysis Method: RSK-175 Date Collected: 06/09/2016 00:00
 Sample wt/vol: 33 (mL) Date Analyzed: 06/24/2016 16:07
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: HP-PLOT/Q ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 235861 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-85-1	Ethene	1820		2.5	0.65
74-84-0	Ethane	2030		2.5	0.70
74-82-8	Methane	6210		2.5	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
420-46-2	1,1,1-Trifluoroethane	103		76-121

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: ZPID Start Date: 01/18/2016 15:34

Analysis Batch Number: 214437 End Date: 01/18/2016 17:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-214437/3 IC		01/18/2016 15:34	1	Z0011803.D	
STD2 240-214437/4 IC		01/18/2016 15:50	1	Z0011804.D	
STD3 240-214437/5 ICRT		01/18/2016 16:06	1	Z0011805.D	
STD4 240-214437/6 IC		01/18/2016 16:21	1	Z0011806.D	
STD5 240-214437/7 IC		01/18/2016 16:37	1	Z0011807.D	
STD6 240-214437/8 IC		01/18/2016 16:53	1	Z0011808.D	
ICV 240-214437/9		01/18/2016 17:08	1	Z0011809.D	

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: ZPID Start Date: 06/23/2016 13:44Analysis Batch Number: 235546 End Date: 06/23/2016 20:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-235546/3		06/23/2016 13:44	1	RSK0062303.D	HP-PLOT/Q 0.53 (mm)
MB 240-235546/4		06/23/2016 14:01	1	RSK0062304.D	HP-PLOT/Q 0.53 (mm)
LCS 240-235546/5		06/23/2016 14:18	1	RSK0062305.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 14:36	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 14:53	5		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 15:10	5		HP-PLOT/Q 0.53 (mm)
240-65988-E-3 MS		06/23/2016 15:28	5	RSK0062309.D	HP-PLOT/Q 0.53 (mm)
240-65988-E-3 MSD		06/23/2016 15:45	5	RSK0062310.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 16:02	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 16:20	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 16:37	1		HP-PLOT/Q 0.53 (mm)
CCV 240-235546/14		06/23/2016 16:54	1	RSK0062314.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 17:12	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 17:29	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 17:46	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 18:04	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 18:21	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 18:38	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/23/2016 18:55	1		HP-PLOT/Q 0.53 (mm)
240-66032-2		06/23/2016 19:13	1	RSK0062322.D	HP-PLOT/Q 0.53 (mm)
240-66032-3		06/23/2016 19:30	1	RSK0062323.D	HP-PLOT/Q 0.53 (mm)
240-66032-4		06/23/2016 19:47	1	RSK0062324.D	HP-PLOT/Q 0.53 (mm)
CCV 240-235546/25		06/23/2016 20:05	1	RSK0062325.D	HP-PLOT/Q 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica CantonJob No.: 240-66032-1

SDG No.: _____

Instrument ID: ZPIDStart Date: 06/24/2016 14:41Analysis Batch Number: 235861End Date: 06/24/2016 21:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 240-235861/3		06/24/2016 14:41	1	RSK0062403.D	HP-PLOT/Q 0.53 (mm)
MB 240-235861/4		06/24/2016 14:58	1	RSK0062404.D	HP-PLOT/Q 0.53 (mm)
LCS 240-235861/5		06/24/2016 15:15	1	RSK0062405.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 15:33	5		HP-PLOT/Q 0.53 (mm)
240-65999-B-3 MS		06/24/2016 15:50	5	RSK0062407.D	HP-PLOT/Q 0.53 (mm)
240-65999-B-3 MSD		06/24/2016 16:07	5	RSK0062408.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 16:24	2		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 16:41	5		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 16:58	5		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 17:15	5		HP-PLOT/Q 0.53 (mm)
240-66032-2		06/24/2016 17:32	5	RSK0062413.D	HP-PLOT/Q 0.53 (mm)
CCV 240-235861/14		06/24/2016 17:49	1	RSK0062414.D	HP-PLOT/Q 0.53 (mm)
240-66032-3		06/24/2016 18:06	5	RSK0062415.D	HP-PLOT/Q 0.53 (mm)
240-66032-4		06/24/2016 18:23	10	RSK0062416.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 18:40	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 18:57	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 19:15	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 19:32	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 19:49	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 20:06	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 20:23	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 20:40	1		HP-PLOT/Q 0.53 (mm)
CCV 240-235861/25		06/24/2016 20:57	1	RSK0062425.D	HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 21:14	1		HP-PLOT/Q 0.53 (mm)
ZZZZZ		06/24/2016 21:31	1		HP-PLOT/Q 0.53 (mm)
CCV 240-235861/28		06/24/2016 21:48	1		HP-PLOT/Q 0.53 (mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton

Job Number: 240-66032-1

SDG No.: _____

Project: MRC Block I GW Sampling

Client Sample ID

NMW-2I-061416

NMW-2S-061416

NMW-3I-061416

OUTFALL-9-061416

Lab Sample ID

240-66032-2

240-66032-3

240-66032-4

240-66032-5

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: NMW-2I-061416

Lab Sample ID: 240-66032-2

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2016 10:17

Reporting Basis: WET

Date Received: 06/15/2016 09:10

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	30000	100	25	ug/L			1	6010C
7439-96-5	Manganese	4200	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: NMW-2S-061416

Lab Sample ID: 240-66032-3

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2016 14:40

Reporting Basis: WET

Date Received: 06/15/2016 09:10

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	110000	100	25	ug/L			1	6010C
7439-96-5	Manganese	4900	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: NMW-3I-061416

Lab Sample ID: 240-66032-4

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2016 12:06

Reporting Basis: WET

Date Received: 06/15/2016 09:10

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	160000	100	25	ug/L			1	6010C
7439-96-5	Manganese	6800	15	5.1	ug/L			1	6010C

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - TOTAL RECOVERABLE

Client Sample ID: OUTFALL-9-061416

Lab Sample ID: 240-66032-5

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2016 14:00

Reporting Basis: WET

Date Received: 06/15/2016 09:10

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	90	100	25	ug/L	J		1	6010C
7439-96-5	Manganese	200	15	5.1	ug/L			1	6010C

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

ICV Source: MT6500ICV_00031 Concentration Units: ug/L

CCV Source: MTICPCCV_00073

Analyte	ICV 240-234992/4 06/17/2016 09:44				CCV 240-234992/18 06/17/2016 10:42				CCV 240-234992/28 06/17/2016 11:27			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	12900		12500	103	26500		25000	106	24600		25000	98
Manganese	1530		1500	102	2080		2000	104	1960		2000	98

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.: 240-66032-1

SDG No.: _____

ICV Source: MT6500ICV_00031 Concentration Units: ug/L

CCV Source: MTICPCCV_00073

Analyte	CCV 240-234992/33 06/17/2016 11:56				CCV 240-234992/45 06/17/2016 13:02							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	25000		25000	100	26000		25000	104				
Manganese	1970		2000	98	2040		2000	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.: 240-66032-1
 SDG No.: _____
 Method: 6010C Instrument ID: I9
 Lab Sample ID: CRI 240-234992/20 Concentration Units: ug/L
 CRQL Check Standard Source: MTTRCRIC_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	210		105	70-130
Manganese	15.0	15.6		104	70-130

Lab Sample ID: CRI 240-234992/111 Concentration Units: ug/L
 CRQL Check Standard Source: MTTRCRIC_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Iron	200	208		104	70-130
Manganese	15.0	16.1		107	70-130

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-234992/5 06/17/2016 09:48		CCB 240-234992/19 06/17/2016 10:45		CCB 240-234992/29 06/17/2016 11:30		CCB 240-234992/34 06/17/2016 12:00	
		Found	C	Found	C	Found	C	Found	C
Iron	100	100	U	100	U	100	U	100	U
Manganese	15	15	U	15	U	15	U	15	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-234992/46 06/17/2016 13:06							
		Found	C	Found	C	Found	C	Found	C
Iron	100	100	U						
Manganese	15	15	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-66032-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-234783/1-A
Instrument Code: I9 Batch No.: 234992

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	100	U		6010C
7439-96-5	Manganese	15	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Lab Sample ID: ICSA 240-234992/8

Instrument ID: I9

Lab File ID: I9061716A.asc

ICS Source: MTRICSAW_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	190820	95
Manganese		1.94	
<i>Aluminum</i>	<i>500000</i>	<i>520900</i>	<i>104</i>
<i>Antimony</i>		<i>-2.05</i>	
<i>Arsenic</i>		<i>1.29</i>	
<i>Barium</i>		<i>-0.161</i>	
<i>Beryllium</i>		<i>-0.0361</i>	
<i>Boron</i>		<i>-6.59</i>	
<i>Cadmium</i>		<i>0.740</i>	
<i>Calcium</i>	<i>500000</i>	<i>483890</i>	<i>97</i>
<i>Chromium</i>		<i>2.94</i>	
<i>Cobalt</i>		<i>-0.389</i>	
<i>Copper</i>		<i>2.63</i>	
<i>Lead</i>		<i>3.29</i>	
<i>Lithium</i>		<i>8.59</i>	
<i>Magnesium</i>	<i>500000</i>	<i>497540</i>	<i>100</i>
<i>Molybdenum</i>		<i>-0.966</i>	
<i>Nickel</i>		<i>4.66</i>	
<i>Potassium</i>		<i>13.5</i>	
<i>Selenium</i>		<i>-2.62</i>	
<i>Silicon</i>		<i>8.97</i>	
<i>Silver</i>		<i>-0.146</i>	
<i>Sodium</i>		<i>151</i>	
<i>Strontium</i>		<i>10.9</i>	
<i>Thallium</i>		<i>-3.87</i>	
<i>Tin</i>		<i>5.26</i>	
<i>Titanium</i>		<i>-0.642</i>	
<i>Vanadium</i>		<i>-3.30</i>	
<i>Zinc</i>		<i>1.81</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Lab Sample ID: ICSAB 240-234992/9

Instrument ID: I9

Lab File ID: I9061716A.asc

ICS Source: MTICPCSABW_00011

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Iron	200000	190940	95
Manganese	500	488	98
<i>Aluminum</i>	<i>500000</i>	<i>515420</i>	<i>103</i>
<i>Antimony</i>	<i>1000</i>	<i>1041</i>	<i>104</i>
<i>Arsenic</i>	<i>1000</i>	<i>1036</i>	<i>104</i>
<i>Barium</i>	<i>500</i>	<i>497</i>	<i>99</i>
<i>Beryllium</i>	<i>500</i>	<i>485</i>	<i>97</i>
<i>Boron</i>	<i>500</i>	<i>507</i>	<i>101</i>
<i>Cadmium</i>	<i>1000</i>	<i>1041</i>	<i>104</i>
<i>Calcium</i>	<i>500000</i>	<i>487120</i>	<i>97</i>
<i>Chromium</i>	<i>500</i>	<i>472</i>	<i>94</i>
<i>Cobalt</i>	<i>500</i>	<i>500</i>	<i>100</i>
<i>Copper</i>	<i>500</i>	<i>528</i>	<i>106</i>
<i>Lead</i>	<i>1000</i>	<i>918</i>	<i>92</i>
<i>Lithium</i>	<i>500</i>	<i>548</i>	<i>110</i>
<i>Magnesium</i>	<i>500000</i>	<i>494760</i>	<i>99</i>
<i>Molybdenum</i>	<i>1000</i>	<i>993</i>	<i>99</i>
<i>Nickel</i>	<i>1000</i>	<i>950</i>	<i>95</i>
<i>Potassium</i>	<i>10000</i>	<i>10308</i>	<i>103</i>
<i>Selenium</i>	<i>1000</i>	<i>1026</i>	<i>103</i>
<i>Silicon</i>	<i>10000</i>	<i>10055</i>	<i>101</i>
<i>Silver</i>	<i>1000</i>	<i>1083</i>	<i>108</i>
<i>Sodium</i>	<i>10000</i>	<i>10527</i>	<i>105</i>
<i>Strontium</i>	<i>1500</i>	<i>1469</i>	<i>98</i>
<i>Thallium</i>	<i>1000</i>	<i>965</i>	<i>96</i>
<i>Tin</i>	<i>500</i>	<i>515</i>	<i>103</i>
<i>Titanium</i>	<i>500</i>	<i>508</i>	<i>102</i>
<i>Vanadium</i>	<i>500</i>	<i>488</i>	<i>98</i>
<i>Zinc</i>	<i>1000</i>	<i>1011</i>	<i>101</i>

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-66023-P-1-B MS
 Lab Name: TestAmerica Canton Job No.: 240-66032-1
 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
Iron	1060	66	J	1000	100	75-125		6010C
Manganese	502	5.8	J	500	99	75-125		6010C

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-66023-P-1-C MSD
 Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Iron	1080	1000	102	75-125	2	20		6010C
Manganese	508	500	100	75-125	1	20		6010C

SDR = Sample Duplicate Result

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

7A-IN
 LAB CONTROL SAMPLE
 METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-234783/2-A

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

Sample Matrix: Water

LCS Source: MTICP1_00052

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	1000	1040		104	80	120		6010C
Manganese	500	507		101	80	120		6010C

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: 240-66023-P-1-A SD ^5

SDG No: _____

Lab Name: TestAmerica Canton

Job No: 240-66032-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample		Serial		% Difference	Q	Method
	Result (I)	C	Result (S)	C			
Iron	66	J	500	U	NC		6010C
Manganese	5.8	J	75	U	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: 240-66032-1

SDG Number: _____

Matrix: Water

Instrument ID: I9

Method: 6010C

MDL Date: 05/06/2016 13:42

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Iron	271.441	100	25
Manganese	257.610	15	5.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-66032-1
SDG Number: _____
Matrix: Water Instrument ID: I9
Method: 6010C XMDL Date: 05/06/2016 13:44

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Iron	271.441	100	25
Manganese	257.610	15	5.1

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-66032-1

SDG No.: _____

ICP-AES Instrument ID: I9 Date: 02/23/2016

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	Tl	V
Aluminum										0.016774					0.022189
Antimony		-0.000066			0.000057			-0.000015							0.002792
Arsenic		0.00002			-0.000415	0.000782			-0.000355	0.002551					
Barium															
Beryllium															0.000029
Boron															
Cadmium			0.010288					-0.000004							
Calcium															
Chromium															
Cobalt													0.002140		
Copper				0.000018	0.000199			0.000009							
Iron															
Lead		-0.000108					0.000101	0.000044			0.000131	0.000064			
Lithium															
Magnesium															
Manganese															
Molybdenum															
Nickel					0.000518			0.000057							
Potassium															
Selenium		-0.000013							0.000338						
Silver															
Sodium															
Strontium															
Thallium		0.000012			0.003074			-0.000019	-0.002934						0.001707
Tin															
Titanium															
Vanadium								0.000038							
Zinc															-0.001092

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-66032-1

SDG No.: _____

Instrument ID: I9

Date: 02/25/2016 13:19

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Iron		500000	6010C
Manganese		15000	6010C

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-234783/1-A	06/16/2016 10:46	234783		50	50
LCS 240-234783/2-A	06/16/2016 10:46	234783		50	50
240-66023-P-1-B MS	06/16/2016 10:46	234783		50	50
240-66023-P-1-C MSD	06/16/2016 10:46	234783		50	50
240-66032-2	06/16/2016 10:46	234783		50	50
240-66032-3	06/16/2016 10:46	234783		50	50
240-66032-4	06/16/2016 10:46	234783		50	50
240-66032-5	06/16/2016 10:46	234783		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Instrument ID: I9

Analysis Method: 6010C

Start Date: 06/17/2016 09:31

End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ICIS 240-234992/1	1		09:31	X	X																										
CALSTD 240-234992/2 IC			09:36	X	X																										
CALSTD 240-234992/3 IC			09:40	X	X																										
ICV 240-234992/4	1		09:44	X	X																										
ICB 240-234992/5	1		09:48	X	X																										
CRI 240-234992/6			09:52																												
ZZZZZZ			09:56																												
ICSA 240-234992/8	1		10:00	X	X																										
ICSAB 240-234992/9	1		10:05	X	X																										
CCV 240-234992/10			10:08																												
CCB 240-234992/11			10:12																												
ZZZZZZ			10:16																												
ZZZZZZ			10:21																												
ZZZZZZ			10:25																												
ZZZZZZ			10:29																												
ZZZZZZ			10:33																												
ZZZZZZ			10:38																												
CCV 240-234992/18	1		10:42	X	X																										
CCB 240-234992/19	1		10:45	X	X																										
CRI 240-234992/20	1		10:53	X	X																										
MB 240-234783/1-A	1	R	10:57	X	X																										
LCS 240-234783/2-A	1	R	11:01	X	X																										
ZZZZZZ			11:05																												
ZZZZZZ			11:09																												
ZZZZZZ			11:13																												
ZZZZZZ			11:17																												
ZZZZZZ			11:21																												
CCV 240-234992/28	1		11:27	X	X																										
CCB 240-234992/29	1		11:30	X	X																										
CCV 240-234992/30			11:35																												
CCB 240-234992/31			11:46																												
ZZZZZZ			11:50																												
CCV 240-234992/33	1		11:56	X	X																										
CCB 240-234992/34	1		12:00	X	X																										
ZZZZZZ			12:22																												
240-66023-P-1-A SD ^5	5	R	12:26	X	X																										
240-66023-P-1-B MS	1	R	12:30	X	X																										
240-66023-P-1-C MSD	1	R	12:33	X	X																										
ZZZZZZ			12:37																												
240-66032-2	1	R	12:41	X	X																										
240-66032-3	1	R	12:45	X	X																										
240-66032-4	1	R	12:50	X	X																										

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
240-66032-5	1	R	12:54	X	X																										
ZZZZZZ			12:58																												
CCV 240-234992/45	1		13:02	X	X																										
CCB 240-234992/46	1		13:06	X	X																										
ZZZZZZ			13:10																												
ZZZZZZ			13:14																												
ZZZZZZ			13:18																												
ZZZZZZ			13:22																												
ZZZZZZ			13:26																												
ZZZZZZ			13:30																												
ZZZZZZ			13:34																												
ZZZZZZ			13:37																												
ZZZZZZ			13:41																												
ZZZZZZ			13:45																												
CCV 240-234992/57			13:49																												
CCB 240-234992/58			13:52																												
ZZZZZZ			13:57																												
ZZZZZZ			14:01																												
ZZZZZZ			14:04																												
ZZZZZZ			14:08																												
ZZZZZZ			14:12																												
ZZZZZZ			14:16																												
ZZZZZZ			14:20																												
ZZZZZZ			14:24																												
ZZZZZZ			14:28																												
ZZZZZZ			14:32																												
CCV 240-234992/69			14:36																												
CCB 240-234992/70			14:40																												
ZZZZZZ			14:44																												
ZZZZZZ			14:48																												
ZZZZZZ			14:52																												
ZZZZZZ			14:55																												
ZZZZZZ			14:59																												
ZZZZZZ			15:03																												
ZZZZZZ			15:08																												
ZZZZZZ			15:12																												
ZZZZZZ			15:16																												
ZZZZZZ			15:20																												
CCV 240-234992/81			15:24																												
CCB 240-234992/82			15:27																												
ZZZZZZ			15:31																												
ZZZZZZ			15:35																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			15:39																												
ZZZZZZ			15:42																												
ZZZZZZ			15:46																												
ZZZZZZ			15:50																												
ZZZZZZ			15:54																												
ZZZZZZ			15:58																												
ZZZZZZ			16:02																												
ZZZZZZ			16:06																												
CCV 240-234992/93			16:10																												
CCB 240-234992/94			16:14																												
ZZZZZZ			16:18																												
ZZZZZZ			16:26																												
ZZZZZZ			16:30																												
ZZZZZZ			16:34																												
ZZZZZZ			16:38																												
ZZZZZZ			16:42																												
ZZZZZZ			16:46																												
ZZZZZZ			16:50																												
ZZZZZZ			16:54																												
ZZZZZZ			16:58																												
CCV 240-234992/105			17:01																												
CCB 240-234992/106			17:05																												
ZZZZZZ			17:09																												
ZZZZZZ			17:13																												
CCV 240-234992/109			17:17																												
CCB 240-234992/110			17:21																												
CRI 240-234992/111		1	17:25	X	X																										
ZZZZZZ			17:29																												
ZZZZZZ			17:33																												
ZZZZZZ			17:37																												
ZZZZZZ			17:41																												
ZZZZZZ			17:45																												
CCV 240-234992/117			17:49																												
CCB 240-234992/118			17:53																												
ZZZZZZ			17:57																												
ZZZZZZ			18:02																												
ZZZZZZ			18:06																												
ZZZZZZ			18:10																												
ZZZZZZ			18:14																												
ZZZZZZ			18:18																												
ZZZZZZ			18:23																												
ZZZZZZ			18:27																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			18:31																												
ZZZZZZ			18:36																												
CCV 240-234992/129			18:40																												
CCB 240-234992/130			18:43																												
ZZZZZZ			18:48																												
ZZZZZZ			18:52																												
ZZZZZZ			18:56																												
ZZZZZZ			19:00																												
ZZZZZZ			19:04																												
ZZZZZZ			19:08																												
ZZZZZZ			19:12																												
ZZZZZZ			19:16																												
ZZZZZZ			19:20																												
ZZZZZZ			19:24																												
CCV 240-234992/141			19:28																												
CCB 240-234992/142			19:32																												
ZZZZZZ			19:36																												
ZZZZZZ			19:40																												
ZZZZZZ			19:44																												
ZZZZZZ			19:48																												
ZZZZZZ			19:53																												
ZZZZZZ			19:57																												
ZZZZZZ			20:01																												
ZZZZZZ			20:05																												
ZZZZZZ			20:09																												
ZZZZZZ			20:13																												
CCV 240-234992/153			20:17																												
CCB 240-234992/154			20:21																												
ZZZZZZ			20:25																												
ZZZZZZ			20:29																												
ZZZZZZ			20:33																												
ZZZZZZ			20:37																												
ZZZZZZ			20:41																												
ZZZZZZ			20:46																												
ZZZZZZ			20:49																												
ZZZZZZ			20:53																												
ZZZZZZ			20:58																												
ZZZZZZ			21:02																												
CCV 240-234992/165			21:06																												
CCB 240-234992/166			21:10																												
ZZZZZZ			21:14																												
ZZZZZZ			21:18																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			21:22																												
ZZZZZZ			21:26																												
ZZZZZZ			21:30																												
ZZZZZZ			21:35																												
ZZZZZZ			21:39																												
ZZZZZZ			21:43																												
ZZZZZZ			21:47																												
ZZZZZZ			21:51																												
CCV 240-234992/177			21:55																												
CCB 240-234992/178			21:59																												
ZZZZZZ			22:03																												
ZZZZZZ			22:08																												
ZZZZZZ			22:12																												
ZZZZZZ			22:16																												
ZZZZZZ			22:20																												
ZZZZZZ			22:24																												
ZZZZZZ			22:28																												
ZZZZZZ			22:32																												
ZZZZZZ			22:36																												
ZZZZZZ			22:40																												
CCV 240-234992/189			22:45																												
CCB 240-234992/190			22:48																												
ZZZZZZ			22:53																												
ZZZZZZ			22:57																												
ZZZZZZ			23:01																												
ZZZZZZ			23:06																												
ZZZZZZ			23:10																												
ZZZZZZ			23:14																												
ZZZZZZ			23:18																												
ZZZZZZ			23:22																												
ZZZZZZ			23:26																												
ZZZZZZ			23:30																												
CCV 240-234992/201			23:34																												
CCB 240-234992/202			23:37																												
ZZZZZZ			23:41																												
ZZZZZZ			23:46																												
ZZZZZZ			23:50																												
ZZZZZZ			23:54																												
ZZZZZZ			23:58																												
ZZZZZZ			00:02																												
ZZZZZZ			00:06																												
ZZZZZZ			00:10																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	Type	Time	Analytes																											
				F	M																										
ZZZZZZ			00:14																												
ZZZZZZ			00:18																												
CCV 240-234992/213			00:22																												
CCB 240-234992/214			00:25																												
ZZZZZZ			00:30																												
ZZZZZZ			00:33																												
ZZZZZZ			00:37																												
ZZZZZZ			00:41																												
ZZZZZZ			00:46																												
ZZZZZZ			00:50																												
ZZZZZZ			00:54																												
ZZZZZZ			00:58																												
ZZZZZZ			01:02																												
ZZZZZZ			01:06																												
CCV 240-234992/225			01:10																												
CCB 240-234992/226			01:14																												
ZZZZZZ			01:18																												
ZZZZZZ			01:22																												
ZZZZZZ			01:26																												
ZZZZZZ			01:31																												
ZZZZZZ			01:35																												
ZZZZZZ			01:39																												
ZZZZZZ			01:43																												
ZZZZZZ			01:47																												
ZZZZZZ			01:51																												
ZZZZZZ			01:56																												
CCV 240-234992/237			02:00																												
CCB 240-234992/238			02:03																												
ZZZZZZ			02:08																												
ZZZZZZ			02:12																												
ZZZZZZ			02:16																												
ZZZZZZ			02:19																												
ZZZZZZ			02:23																												
ZZZZZZ			02:28																												
ZZZZZZ			02:31																												
ZZZZZZ			02:35																												
ZZZZZZ			02:39																												
ZZZZZZ			02:43																												
CCV 240-234992/249			02:47																												
CCB 240-234992/250			02:51																												
ZZZZZZ			02:55																												
ZZZZZZ			02:59																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: I9 Analysis Method: 6010C

Start Date: 06/17/2016 09:31 End Date: 06/18/2016 04:17

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				F	M																										
ZZZZZZ			03:03																												
ZZZZZZ			03:07																												
ZZZZZZ			03:11																												
ZZZZZZ			03:15																												
ZZZZZZ			03:20																												
ZZZZZZ			03:24																												
ZZZZZZ			03:28																												
ZZZZZZ			03:32																												
CCV 240-234992/261			03:36																												
CCB 240-234992/262			03:40																												
ZZZZZZ			03:44																												
ZZZZZZ			03:48																												
ZZZZZZ			03:52																												
ZZZZZZ			03:57																												
ZZZZZZ			04:01																												
ZZZZZZ			04:05																												
ZZZZZZ			04:09																												
CCV 240-234992/270			04:13																												
CCB 240-234992/271			04:17																												

Prep Types: _____
R = Total Recoverable

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Batch Number: 234783 Batch Start Date: 06/16/16 10:46 Batch Analyst: Colosi, Alexander J

Batch Method: 3005A Batch End Date: 06/16/16 18:46

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00058	MTICP1 00052	MTICP2A 00060	MTTMHCL 00113
MB 240-234783/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-234783/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-66023-P-1 MS		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-66023-P-1 MSD		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-66032-I-2	NMW-2I-061416	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-66032-I-3	NMW-2S-061416	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-66032-I-4	NMW-3I-061416	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-66032-F-5	OUTFALL-9-061416	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00089				
MB 240-234783/1		3005A, 6010C		1 mL				
LCS 240-234783/2		3005A, 6010C		1 mL				
240-66023-P-1 MS		3005A, 6010C	R	1 mL				
240-66023-P-1 MSD		3005A, 6010C	R	1 mL				
240-66032-I-2	NMW-2I-061416	3005A, 6010C	R	1 mL				
240-66032-I-3	NMW-2S-061416	3005A, 6010C	R	1 mL				
240-66032-I-4	NMW-3I-061416	3005A, 6010C	R	1 mL				
240-66032-F-5	OUTFALL-9-061416	3005A, 6010C	R	1 mL				

Batch Notes	
Filter Paper ID	9672596
Hot Block ID	HB2
Pipette ID	MP1
Digestion Tube/Cup ID	1509104

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-66032-1

SDG No.: _____

Project: MRC Block I GW Sampling

Client Sample ID

Lab Sample ID

NMW-2I-061416

240-66032-2

NMW-2S-061416

240-66032-3

NMW-3I-061416

240-66032-4

OUTFALL-9-061416

240-66032-5

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: NMW-2I-061416

Lab Sample ID: 240-66032-2

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2016 10:17

Reporting Basis: WET

Date Received: 06/15/2016 09:10

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	74	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	1.6	1.0	0.13	mg/L			1	300.0
	TOC Result 1	0.81	1.0	0.080	mg/L	J		1	9060A
	TOC Result 2	0.82	1.0	0.080	mg/L	J		1	9060A
	TOC Result 3	0.91	1.0	0.080	mg/L	J		1	9060A
	TOC Result 4	0.82	1.0	0.080	mg/L	J		1	9060A
7440-44-0	Total Organic Carbon	0.84	1.0	0.080	mg/L	J		1	9060A
	Total Dissolved Solids	230	10	7.4	mg/L			1	SM 2540C

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: NMW-2S-061416

Lab Sample ID: 240-66032-3

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2016 14:40

Reporting Basis: WET

Date Received: 06/15/2016 09:10

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	170	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	19	1.0	0.13	mg/L			1	300.0
	TOC Result 1	7.8	2.0	0.16	mg/L			2	9060A
	TOC Result 2	7.6	2.0	0.16	mg/L			2	9060A
	TOC Result 3	7.8	2.0	0.16	mg/L			2	9060A
	TOC Result 4	7.6	2.0	0.16	mg/L			2	9060A
7440-44-0	Total Organic Carbon	7.7	2.0	0.16	mg/L			2	9060A
	Total Dissolved Solids	450	10	7.4	mg/L			1	SM 2540C

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: NMW-3I-061416

Lab Sample ID: 240-66032-4

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2016 12:06

Reporting Basis: WET

Date Received: 06/15/2016 09:10

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	140	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	3.4	1.0	0.13	mg/L			1	300.0
	TOC Result 1	9.0	2.0	0.16	mg/L			2	9060A
	TOC Result 2	8.6	2.0	0.16	mg/L			2	9060A
	TOC Result 3	8.9	2.0	0.16	mg/L			2	9060A
	TOC Result 4	8.7	2.0	0.16	mg/L			2	9060A
7440-44-0	Total Organic Carbon	8.8	2.0	0.16	mg/L			2	9060A
	Total Dissolved Solids	680	10	7.4	mg/L			1	SM 2540C

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: OUTFALL-9-061416

Lab Sample ID: 240-66032-5

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2016 14:00

Reporting Basis: WET

Date Received: 06/15/2016 09:10

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Alkalinity	42	5.0	1.9	mg/L			1	2320B-19 97
14808-79-8	Sulfate	260	25	3.3	mg/L			25	300.0
	TOC Result 1	1.3	1.0	0.080	mg/L			1	9060A
	TOC Result 2	0.95	1.0	0.080	mg/L	J		1	9060A
	TOC Result 3	1.1	1.0	0.080	mg/L			1	9060A
	TOC Result 4	0.93	1.0	0.080	mg/L	J		1	9060A
7440-44-0	Total Organic Carbon	1.1	1.0	0.080	mg/L			1	9060A
	Total Dissolved Solids	2900	50	37	mg/L			1	SM 2540C

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
SDG No.: _____
Analyst: LCN Batch Start Date: 06/06/2016
Reporting Units: mg/L Analytical Batch No.: 233335

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
12	ICV	19:48	Sulfate	49.4	50.0	99	90-110		WCICLCS_00531

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Analyst: LCN Batch Start Date: 06/20/2016
 Reporting Units: mg/L Analytical Batch No.: 235181

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
49	CCV	23:44	Sulfate	50.1	50.0	100	90-110		WCICCCV_00690
50	CCB	00:00	Sulfate	1.0				U	
61	CCV	03:01	Sulfate	50.3	50.0	101	90-110		WCICCCV_00690
62	CCB	03:17	Sulfate	1.0				U	
71	CCV	05:45	Sulfate	50.5	50.0	101	90-110		WCICCCV_00690
72	CCB	06:01	Sulfate	1.0				U	

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

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1
 SDG No.: _____
 Analyst: TPH Batch Start Date: 06/23/2016
 Reporting Units: mg/L Analytical Batch No.: 235863

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCVL	11:08	TOC Result 1	4.81	5.00	96	90-110		WC TOC CCVL_00101
			Total Organic Carbon	4.81	5.00	96	90-110		WC TOC CCVL_00101
3	CCB	11:14	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	
14	CCVL	14:29	TOC Result 1	4.77	5.00	95	90-110		WC TOC CCVL_00101
			Total Organic Carbon	4.77	5.00	95	90-110		WC TOC CCVL_00101
15	CCB	14:37	TOC Result 1	1.0				U	
			Total Organic Carbon	1.0				U	

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job No.: 240-66032-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 235191 Date: 06/17/2016 11:02							
2320B-1997	MB 240-235191/5	Alkalinity	5.0	U	mg/L	5.0	1
Batch ID: 235181 Date: 06/21/2016 00:17							
300.0	MB 240-235181/51	Sulfate	1.0	U	mg/L	1.0	1
Batch ID: 235863 Date: 06/23/2016 11:23							
9060A	MB 240-235863/4	TOC Result 1	1.0	U	mg/L	1.0	1
9060A	MB 240-235863/4	Total Organic Carbon	1.0	U	mg/L	1.0	1
Batch ID: 234961 Date: 06/17/2016 10:19							
SM 2540C	MB 240-234961/1	Total Dissolved Solids	10	U	mg/L	10	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 235181 Date: 06/21/2016 01:06											
300.0	240-66023-R-1	Sulfate	30		mg/L						F1
300.0	240-66023-R-1	Sulfate	96.2		mg/L	50.0	133	80-120			F1
MS											
Batch ID: 235863 Date: 06/23/2016 12:05											
9060A	240-66032-2	TOC Result 1	0.81	J	mg/L						
9060A	240-66032-2	TOC Result 1	5.67		mg/L	5.00	97	72-136			
MS											
9060A	240-66032-2	Total Organic Carbon	0.84	J	mg/L						
9060A	240-66032-2	Total Organic Carbon	5.67		mg/L	5.00	97	72-136			
MS											

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

5-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 235181 Date: 06/21/2016 01:22											
300.0	240-66023-R-1	Sulfate	95.8		mg/L	50.0	132	80-120	0	15	F1
MSD											
Batch ID: 235863 Date: 06/23/2016 12:13											
9060A	240-66032-2	TOC Result 1	5.55		mg/L	5.00	95	72-136	2	20	
MSD											
9060A	240-66032-2	Total Organic Carbon	5.55		mg/L	5.00	94	72-136	2	20	
MSD											

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

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 235191 Date: 06/17/2016 13:08								
2320B-1997	OUTFALL-9-061416	240-66032-5	Alkalinity	42	mg/L			
2320B-1997	OUTFALL-9-061416	240-66032-5 DU	Alkalinity	41.5	mg/L	1	20	
Batch ID: 234961 Date: 06/17/2016 10:19								
SM 2540C		240-65979-R-1	Total Dissolved Solids	410	mg/L			
SM 2540C		240-65979-R-1 DU	Total Dissolved Solids	388	mg/L	6	20	

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

7A-IN
 LAB CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 235191 Date: 06/17/2016 10:56											
LCS Source: WCPHENOMINER_00015											
2320B-1 997	LCS 240-235191/4	Alkalinity	374		mg/L	368	102	90-127			
Batch ID: 235181 Date: 06/21/2016 00:33											
LCS Source: WCICLCS_00537											
300.0	LCS 240-235181/52	Sulfate	50.6		mg/L	50.0	101	90-110			
Batch ID: 234961 Date: 06/17/2016 10:19											
LCS Source: WCPHENOV SOLID_00015											
SM 2540C	LCS 240-234961/2	Total Dissolved Solids	530		mg/L	577	92	88-110			

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

7A-IN
 LOW LEVEL CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 235863 Date: 06/23/2016 11:31											
						LCS Source: WC L-LCS_00001					
9060A	LLCS 240-235863/5	TOC Result 1	6.75		mg/L	7.20	94	88-115			
9060A	LLCS 240-235863/5	Total Organic Carbon	6.75		mg/L	7.20	94	88-115			

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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-66032-1

SDG Number: _____

Matrix: Water

Instrument ID: STEVE

Method: 2320B-1997

MDL Date: 07/12/2013 09:18

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity		5	1.9

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-66032-1
SDG Number: _____
Matrix: Water Instrument ID: STEVE
Method: 2320B-1997 XMDL Date: 07/12/2013 09:19

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	1.9

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-66032-1

SDG Number: _____

Matrix: Water

Instrument ID: SIMON

Method: 300.0

MDL Date: 08/12/2014 17:01

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		1	0.13

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-66032-1

SDG Number: _____

Matrix: Water

Instrument ID: SIMON

Method: 300.0

XMDL Date: 08/12/2014 17:02

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		1	0.13

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-66032-1

SDG Number: _____

Matrix: Water

Instrument ID: Clark

Method: 9060A

MDL Date: 04/28/2015 15:58

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Result 1		1	0.08
TOC Result 2		1	0.08
TOC Result 3		1	0.08
TOC Result 4		1	0.08
Total Organic Carbon		1	0.08

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

Job Number: 240-66032-1

SDG Number: _____

Matrix: Water

Instrument ID: Clark

Method: 9060A

XMDL Date: 04/28/2015 15:59

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Result 1		1	0.08
TOC Result 2		1	0.08
TOC Result 3		1	0.08
TOC Result 4		1	0.08
Total Organic Carbon		1	0.08

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-66032-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 2540C MDL Date: 01/28/2010 09:50

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Dissolved Solids		10	7.4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-66032-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 2540C XMDL Date: 01/28/2010 09:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	7.4

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 06/20/2016 10:36 End Date: 06/21/2016 06:01

Lab Sample Id	D/F	T y p e	Time	Analytes																			
				S	O	4																	
CCV 240-235181/1			10:36																				
CCB 240-235181/2			10:52																				
ZZZZZZ			11:09																				
ZZZZZZ			11:25																				
ZZZZZZ			11:42																				
ZZZZZZ			11:58																				
ZZZZZZ			12:14																				
ZZZZZZ			12:31																				
ZZZZZZ			12:47																				
ZZZZZZ			13:04																				
ZZZZZZ			13:20																				
ZZZZZZ			13:37																				
CCV 240-235181/13			13:53																				
CCB 240-235181/14			14:09																				
ZZZZZZ			14:26																				
ZZZZZZ			14:42																				
ZZZZZZ			14:59																				
ZZZZZZ			15:15																				
ZZZZZZ			15:31																				
ZZZZZZ			15:48																				
ZZZZZZ			16:04																				
ZZZZZZ			16:21																				
ZZZZZZ			16:37																				
ZZZZZZ			16:53																				
CCV 240-235181/25			17:10																				
CCB 240-235181/26			17:26																				
ZZZZZZ			17:43																				
ZZZZZZ			17:59																				
ZZZZZZ			18:15																				
ZZZZZZ			18:32																				
ZZZZZZ			18:48																				
ZZZZZZ			19:05																				
ZZZZZZ			19:21																				
ZZZZZZ			19:38																				
ZZZZZZ			19:54																				
ZZZZZZ			20:10																				
CCV 240-235181/37			20:27																				
CCB 240-235181/38			20:43																				
ZZZZZZ			21:00																				
ZZZZZZ			21:16																				
ZZZZZZ			21:32																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: SIMON Analysis Method: 300.0

Start Date: 06/20/2016 10:36 End Date: 06/21/2016 06:01

Lab Sample Id	D/F	Type	Time	Analytes																											
				S	O	4																									
ZZZZZZ			21:49																												
ZZZZZZ			22:05																												
ZZZZZZ			22:22																												
ZZZZZZ			22:38																												
ZZZZZZ			22:54																												
ZZZZZZ			23:11																												
ZZZZZZ			23:27																												
CCV 240-235181/49	1		23:44	X																											
CCB 240-235181/50	1		00:00	X																											
MB 240-235181/51	1	T	00:17	X																											
LCS 240-235181/52	1	T	00:33	X																											
ZZZZZZ			00:49																												
240-66023-R-1 MS	1	T	01:06	X																											
240-66023-R-1 MSD	1	T	01:22	X																											
ZZZZZZ			01:39																												
ZZZZZZ			01:55																												
ZZZZZZ			02:11																												
ZZZZZZ			02:28																												
ZZZZZZ			02:44																												
CCV 240-235181/61	1		03:01	X																											
CCB 240-235181/62	1		03:17	X																											
ZZZZZZ			03:33																												
ZZZZZZ			03:50																												
240-66032-2	1	T	04:06	X																											
240-66032-3	1	T	04:23	X																											
240-66032-4	1	T	04:39	X																											
240-66032-5	25	T	04:55	X																											
ZZZZZZ			05:12																												
ZZZZZZ			05:28																												
CCV 240-235181/71	1		05:45	X																											
CCB 240-235181/72	1		06:01	X																											

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: Clark Analysis Method: 9060A

Start Date: 06/23/2016 10:50 End Date: 06/23/2016 17:17

Lab Sample Id	D/F	Type	Time	Analytes																			
				T O C	T O C	T O C	T O C	T O C															
ZZZZZZ			10:50																				
CCVL 240-235863/2	1		11:08	X	X																		
CCB 240-235863/3	1		11:14	X	X																		
MB 240-235863/4	1	T	11:23	X	X																		
LLCS 240-235863/5	1	T	11:31	X	X																		
240-66032-2	1	T	11:39	X	X	X	X	X															
240-66032-2 MS	2	T	12:05	X	X																		
240-66032-2 MSD	2	T	12:13	X	X																		
240-66032-3	2	T	12:21	X	X	X	X	X															
240-66032-4	2	T	12:48	X	X	X	X	X															
240-66032-5	1	T	13:13	X	X	X	X	X															
ZZZZZZ			13:38																				
ZZZZZZ			14:03																				
CCVL 240-235863/14	1		14:29	X	X																		
CCB 240-235863/15	1		14:37	X	X																		
ZZZZZZ			14:45																				
ZZZZZZ			15:11																				
ZZZZZZ			15:37																				
ZZZZZZ			16:03																				
ZZZZZZ			16:28																				
ZZZZZZ			16:36																				
ZZZZZZ			16:44																				
CCVL 240-235863/23			17:10																				
CCB 240-235863/24			17:17																				

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2540C

Start Date: 06/17/2016 10:19 End Date: 06/17/2016 10:19

Lab Sample Id	D/F	T y p e	Time	Analytes																											
				T D S																											
MB 240-234961/1	1	T	10:19	X																											
LCS 240-234961/2	1	T	10:19	X																											
ZZZZZZ			10:19																												
ZZZZZZ			10:19																												
ZZZZZZ			10:19																												
ZZZZZZ			10:19																												
ZZZZZZ			10:19																												
ZZZZZZ			10:19																												
ZZZZZZ			10:19																												
ZZZZZZ			10:19																												
ZZZZZZ			10:19																												
240-65979-R-1 DU	1	T	10:19	X																											
ZZZZZZ			10:19																												
240-66032-5	1	T	10:19	X																											
240-66032-2	1	T	10:19	X																											
240-66032-3	1	T	10:19	X																											
240-66032-4	1	T	10:19	X																											
ZZZZZZ			10:19																												
ZZZZZZ			10:19																												
ZZZZZZ			10:19																												
ZZZZZZ			10:19																												

Prep Types: _____
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Batch Number: 235191 Batch Start Date: 06/17/16 10:17 Batch Analyst: Burns, Jill

Batch Method: 2320B-1997 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CalcMsg	FinalAmount	WCPHENOMINER 00015		
LCS 240-235191/4		2320B-1997		50 mL	BuretStart2 is blank	50 mL	50 mL		
MB 240-235191/5		2320B-1997		50 mL	BuretStart2 is blank	50 mL			
240-66032-J-2	NMW-2I-061416	2320B-1997	T	50 mL	BuretStart2 is blank	50 mL			
240-66032-J-3	NMW-2S-061416	2320B-1997	T	50 mL	BuretStart2 is blank	50 mL			
240-66032-J-4	NMW-3I-061416	2320B-1997	T	50 mL	BuretStart2 is blank	50 mL			
240-66032-G-5	OUTFALL-9-061416	2320B-1997	T	50 mL	BuretStart2 is blank	50 mL			
240-66032-G-5 DU	OUTFALL-9-061416	2320B-1997	T	50 mL	BuretStart2 is blank	50 mL			

Batch Notes	
pH Buffer 1 ID	2560013
pH Buffer 2 ID	2576496
pH Buffer 3 ID	2560007
pH Buffer 4 ID	2560005
Sulfuric Acid Lot Number	2564942
Nominal Amount Used	50 mL
Probe ID	W121
Normality of First Titrant	.02 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.: 240-66032-1

SDG No.: _____

Batch Number: 233335 Batch Start Date: 06/06/16 16:47 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCAL SOLN 00257	WCICLCS 00531			
STD1 240-233335/2 IC		300.0		5 mL	0.025 mL				
STD2 240-233335/3 IC		300.0		5 mL	0.125 mL				
STD3 240-233335/4 IC		300.0		5 mL	0.25 mL				
STD4 240-233335/5 IC		300.0		5 mL	0.5 mL				
STD5 240-233335/6 ICRT		300.0		5 mL	1.25 mL				
STD6 240-233335/7 IC		300.0		5 mL	2 mL				
STD7 240-233335/8 IC		300.0		5 mL	2.5 mL				
STD8 240-233335/9 IC		300.0		5 mL	3.75 mL				
STD9 240-233335/10 IC		300.0		5 mL	5 mL				
ICV 240-233335/12		300.0		5 mL		5 mL			

Batch Notes	

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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Batch Number: 235181 Batch Start Date: 06/20/16 10:36 Batch Analyst: Nolle, Laura C

Batch Method: 300.0 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	WCICCCV 00690	WCICELUENT 00176	WCICLCS 00537	WCICSOLNA1 00014	WCICSOLNB1 00012
CCV 240-235181/49		300.0		5 mL	5 mL				
CCB 240-235181/50		300.0		5 mL		5 mL			
MB 240-235181/51		300.0		5 mL		5 mL			
LCS 240-235181/52		300.0		5 mL			5 mL		
240-66023-R-1 MS		300.0	T	5 mL				0.1 mL	0.1 mL
240-66023-R-1 MSD		300.0	T	5 mL				0.1 mL	0.1 mL
CCV 240-235181/61		300.0		5 mL	5 mL				
CCB 240-235181/62		300.0		5 mL		5 mL			
240-66032-J-2	NMW-2I-061416	300.0	T	5 mL					
240-66032-J-3	NMW-2S-061416	300.0	T	5 mL					
240-66032-J-4	NMW-3I-061416	300.0	T	5 mL					
240-66032-G-5	OUTFALL-9-061416	300.0	T	5 mL					
CCV 240-235181/71		300.0		5 mL	5 mL				
CCB 240-235181/72		300.0		5 mL		5 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.

300.0

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-66032-1

SDG No.: _____

Batch Number: 235863 Batch Start Date: 06/23/16 10:50 Batch Analyst: Harshman, Tom

Batch Method: 9060A Batch End Date: 06/23/16 17:17

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC L-LCS 00001	WC TOC CCVL 00101		
CCVL 240-235863/2		9060A		40 mL	40 mL		40 mL		
CCB 240-235863/3		9060A		40 mL	40 mL				
MB 240-235863/4		9060A		40 mL	40 mL				
LLCS 240-235863/5		9060A		40 mL	40 mL	40 mL			
240-66032-H-2	NMW-2I-061416	9060A	T	40 mL	40 mL				
240-66032-H-2	NMW-2I-061416	9060A	T	40 mL	40 mL		20 mL		
MS									
240-66032-H-2	NMW-2I-061416	9060A	T	40 mL	40 mL		20 mL		
MSD									
240-66032-G-3	NMW-2S-061416	9060A	T	40 mL	40 mL				
^2									
240-66032-G-4	NMW-3I-061416	9060A	T	40 mL	40 mL				
^2									
240-66032-E-5	OUTFALL-9-061416	9060A	T	40 mL	40 mL				
CCVL 240-235863/14		9060A		40 mL	40 mL		40 mL		
CCB 240-235863/15		9060A		40 mL	40 mL				

Batch Notes	
Phosphoric Acid ID	2586293
Sodium Persulfate ID	2586292

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.: 240-66032-1

SDG No.: _____

Batch Number: 234961 Batch Start Date: 06/17/16 10:19 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	InitialAmount	TareWeight	Weight1	Weight2	WeightOne%Diff
MB 240-234961/1		SM 2540C			100 mL	86.3773 g	86.3768 g	86.3765 g	Pass
LCS 240-234961/2		SM 2540C			100 mL	90.2419 g	90.2951 g	90.2949 g	Pass
240-65979-R-1 DU		SM 2540C	T	700 umhos/cm	100 mL	86.0394 g	86.0787 g	86.0782 g	Pass
240-66032-G-5	OUTFALL-9-061416	SM 2540C	T	6250 umhos/cm	20 mL	87.0199 g	87.0772 g	87.0777 g	Pass
240-66032-J-2	NMW-2I-061416	SM 2540C	T	400 umhos/cm	100 mL	87.2288 g	87.2516 g	87.2520 g	Pass
240-66032-J-3	NMW-2S-061416	SM 2540C	T	800 umhos/cm	100 mL	91.1651 g	91.2099 g	91.2103 g	Pass
240-66032-J-4	NMW-3I-061416	SM 2540C	T	1050 umhos/cm	100 mL	90.0094 g	90.0771 g	90.0774 g	Pass

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3	FinalAmount
MB 240-234961/1		SM 2540C		N/A	N/A	-0.0005 g	-0.0008 g	N/A g	100 mL
LCS 240-234961/2		SM 2540C		N/A	N/A	0.0532 g	0.053 g	N/A g	100 mL
240-65979-R-1 DU		SM 2540C	T	N/A	N/A	0.0393 g	0.0388 g	N/A g	100 mL
240-66032-G-5	OUTFALL-9-061416	SM 2540C	T	N/A	N/A	0.0573 g	0.0578 g	N/A g	100 mL
240-66032-J-2	NMW-2I-061416	SM 2540C	T	N/A	N/A	0.0228 g	0.0232 g	N/A g	100 mL
240-66032-J-3	NMW-2S-061416	SM 2540C	T	N/A	N/A	0.0448 g	0.0452 g	N/A g	100 mL
240-66032-J-4	NMW-3I-061416	SM 2540C	T	N/A	N/A	0.0677 g	0.068 g	N/A g	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue4	CalcMsg	WCPHENOVSOLID 00015			
MB 240-234961/1		SM 2540C		N/A g	OK				
LCS 240-234961/2		SM 2540C		N/A g	OK	100 mL			
240-65979-R-1 DU		SM 2540C	T	N/A g	OK				
240-66032-G-5	OUTFALL-9-061416	SM 2540C	T	N/A g	OK				
240-66032-J-2	NMW-2I-061416	SM 2540C	T	N/A g	OK				
240-66032-J-3	NMW-2S-061416	SM 2540C	T	N/A g	OK				
240-66032-J-4	NMW-3I-061416	SM 2540C	T	N/A g	OK				

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.: 240-66032-1

SDG No.: _____

Batch Number: 234961 Batch Start Date: 06/17/16 10:19 Batch Analyst: Renner, Gabrielle N

Batch Method: SM 2540C Batch End Date: _____

Batch Notes	
Balance ID	B044
Conductivity Meter ID	Myron
Constant Weight (WT2) Date/Time In	06/20/16 12:05
Constant Weight (WT2) Date/Time Out	06/20/16 13:05
Uncorrected CW (Wt2) Temp In	180 Celsius
Uncorrected CW (Wt2) Temp Out	180 Celsius
Date/Time Samples placed in Oven	06/17/16 12:50
Date/Time Samples Removed from Oven	06/20/16 9:30
Filter Paper ID	2555325
Nominal Amount Used	100 mL
Oven ID	006
Thermometer ID	24250
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	103 Celsius
Weight (WT1) Start Date/Time	06/20/16 9:30
Weight (WT1) Date/Time Out	06/20/16 10:30
Uncorrected Weight (WT1) Start Temp	180 Celsius
Uncorrected Weight (WT1) Temp Out	180 Celsius

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.

Subcontract Data

How to Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database and Client Portal

The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 32,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide. Driven by field samples, the database reflects the impacts of common contaminants, geochemical conditions, and site management practices on critical microbial populations.

With your report, you received a passcode enabling you to retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge. When accessing the database, you will be asked to provide background information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations. As with all client information provided to MI, site specific data will be treated as confidential.

Is that low, medium or high?

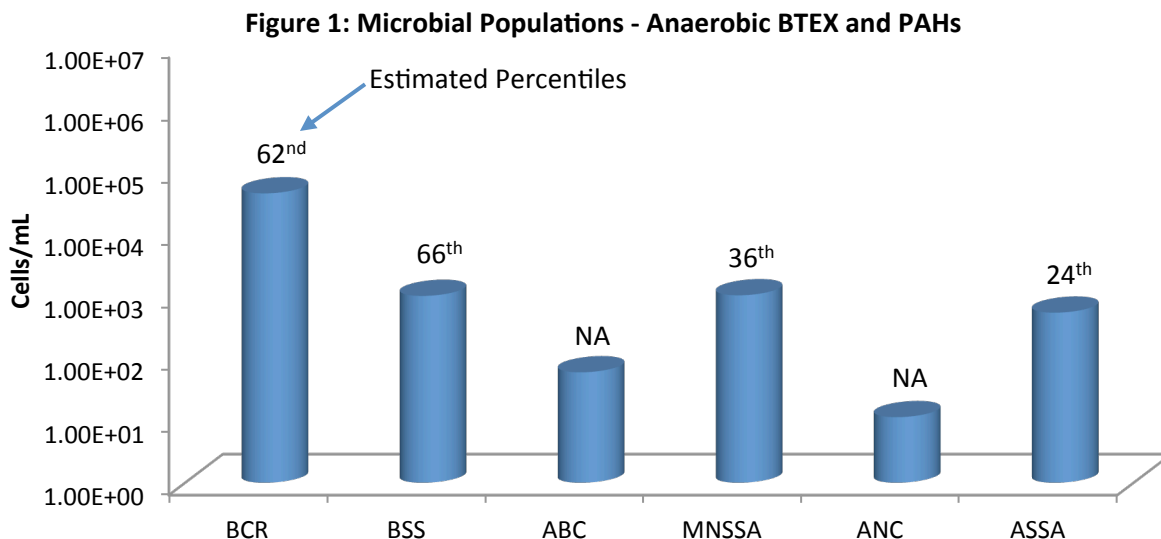
In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. Simply put, qPCR and QuantArray results demonstrating high concentrations of target microorganisms or functional genes suggest in situ selection, enrichment and growth of those specific contaminant degraders and therefore a greater probability that monitored natural attenuation (MNA) or bioremediation will be successful.

Is that a low, medium, or high concentration? The estimated percentile ranks retrieved from the MI Database answer that question by comparing your qPCR and QuantArray results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Using the Estimated Percentile - Interpretation Examples

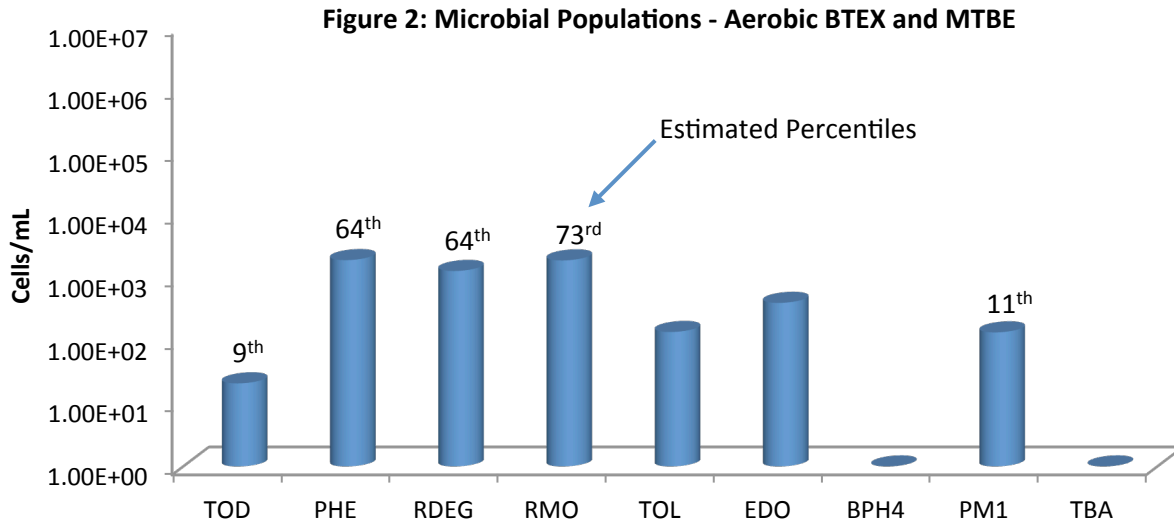
MNA Assessment – Petroleum Hydrocarbon Site:

Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between samples obtained from background and impacted wells. The estimated percentile ranks however provide an additional avenue for comparison and evaluation of treatment options as shown below.



Anaerobic BTEX and PAH Biodegradation (Figure 1):

- With moderate concentrations of functional genes involved in anaerobic BTEX metabolism detected, the QuantArray-Petro® results were encouraging in terms of evaluating biodegradation potential under existing site conditions.
- More specifically, benzylsuccinate synthase (BSS) was detected on the order of nearly 10^3 cells/mL indicating the presence of a substantial population (66th percentile) capable of anaerobic biodegradation of toluene and other alkyl substituted benzenes.
- Naphthyl-2-methylsuccinate synthase (MNSSA) and alkylsuccinate synthase (ASSA) genes were also detected indicating the potential for anaerobic biodegradation of 2-methylnaphthalene and normal alkanes.
- The concentration of MNSSA genes would be considered modest with an estimated percentile of 36th.
- While the percentile rank for MNSSA would be “below average”, a number of additional factors should be considered.
 - First, anaerobic hydrocarbon degraders are less prevalent than aerobic BTEX degraders and overall detection frequencies for many genes involved in anaerobic hydrocarbon biodegradation are less than 50%.
 - Therefore, the detection of genes like BSS, MNSSA, ASSA, anaerobic benzene carboxylase (ABC), and anaerobic naphthalene carboxylase (ANC) even at low concentrations is certainly noteworthy and inherently “better than average”.
 - The estimated percentiles for all assays are based only on samples where the concentration of the target gene was greater than the practical quantitation limit (PQL).
 - For less commonly detected targets like many of the genes involved in anaerobic hydrocarbon biodegradation this is an especially important consideration.
 - Excluding samples where a gene target is below the PQL ensured that the median concentrations of less commonly detected targets would not be unduly biased low by the fact that the gene is not detected in most samples.
- Anaerobic benzene carboxylase (ABC) and naphthalene carboxylase (ANC) genes were also detected indicating the presence of bacterial populations capable of anaerobic biodegradation of benzene and naphthalene.
- For newly identified genes like ABC and ANC, estimated percentile ranks are not yet available due to the limited number of field samples that have been analyzed to date.
- However, like MNSSA and other genes involved in anaerobic hydrocarbon biodegradation, ABC and ANC detection frequencies are relatively low so the detection of these genes even at low concentrations should be considered when evaluating biodegradation potential under existing site conditions.

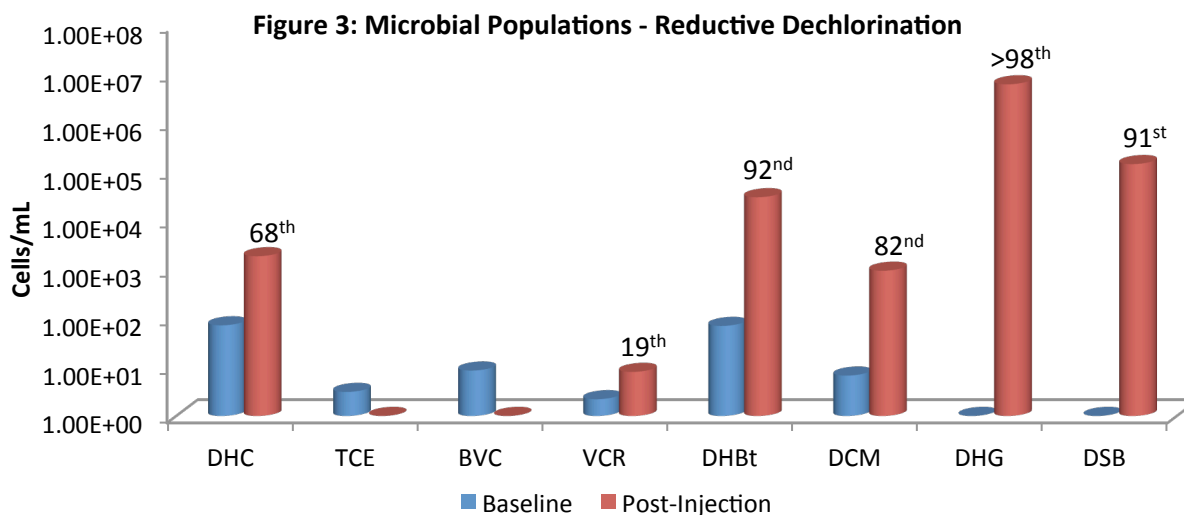


Aerobic BTEX and MTBE Biodegradation (Figure 2):

- With growing evidence that aromatic oxygenases function at low dissolved oxygen concentrations, aerobic BTEX biodegradation pathways should also be evaluated when considering MNA.
- Again, the QuantArray-Petro results were encouraging – genes encoding the first step in multiple pathways for aerobic BTEX biodegradation were detected indicating the presence of a diverse population of aerobic BTEX degraders.
- However, aerobic BTEX degraders are often considered ubiquitous. Therefore answering the question “Is that low, medium or high?” becomes especially important when evaluating aerobic BTEX biodegradation at petroleum hydrocarbon sites.
- In this case, the estimated percentile ranks of the concentrations of toluene/benzene monooxygenase (RMO and RDEG) and phenol hydroxylase (PHE) genes ranged from the 64th to 73rd percentile.
- In other words, the concentrations of RMO, RDEG, and PHE detected in this groundwater sample were greater than the concentrations detected in 64% to 73% of all other groundwater samples where these genes were analyzed and detected above the PQL.
- Aerobic BTEX degraders are common in the environment, but in this sample concentrations of toluene/benzene monooxygenase genes could be viewed as “better than average” when compared to the MI Database.

Biostimulation – Chlorinated Solvent Site:

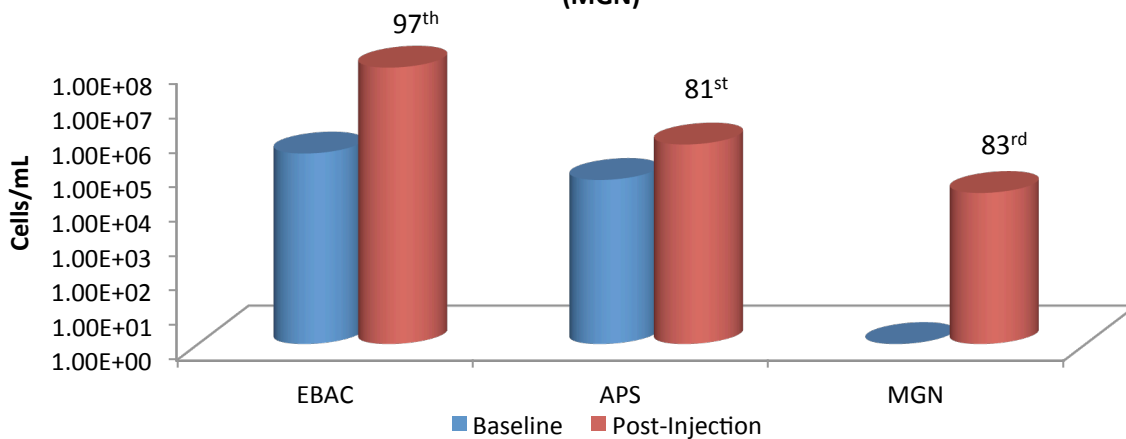
Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between baseline and post-injection monitoring events as shown below (Figure 3). The estimated percentile ranks however provide an additional avenue for comparison and evaluation of remedy performance.



- During the baseline groundwater sampling event, *Dehalococcoides* and vinyl chloride reductase genes were detected indicating the potential for complete reductive dechlorination of PCE and TCE to ethene.
- However, the *Dehalococcoides* concentration was well below the 10^4 cells/mL recommended by Lu et al. (2006) for generally effective rates of reductive dechlorination.
- Based on qPCR results as well as traditional groundwater monitoring, biostimulation with electron donor addition was selected as the site management plan.
- By the first monitoring event after injection, populations of halorespiring bacteria had increased substantially in response to electron donor addition.
 - *Dehalobacter* populations increased by more than two orders of magnitude to post-injection concentrations greater than 10^4 cells/mL (92nd percentile).
 - *Dehalogenimonas* (10^6 cells/mL) and *Desulfitobacterium* (10^5 cells/mL) which had not been detected prior electron donor addition were present at concentrations greater than observed in over 90% of other groundwater samples where these halorespiring bacteria were detected.
- After injection, *Dehalococcoides* populations increased by more than an order of magnitude to a concentration of over 10^3 cells/mL (68th percentile) demonstrating growth of this key group of halorespiring bacteria.
- Despite a substantial increase and a “better than average” concentration, the *Dehalococcoides* population was still below the 10^4 cells/mL threshold and vinyl chloride reductase gene copies were low (19th percentile).
 - In terms of electron donors and acceptors, the metabolic capabilities of *Dehalococcoides* are rather specialized (hydrogen utilizing obligate halorespiring bacteria) so the median concentration is low. With a low median concentration across the database, a “better than average” *Dehalococcoides* concentration in a given sample may not exceed the 10^4 cells/mL threshold established for effective reductive dechlorination (Lu et al. 2006) and ethene production (Microbial Insights, unpublished data).

- In this case, the initial growth of *Dehalococcoides* was substantial but may have been somewhat hindered by competition with sulfate reducing bacteria (Figure 4 below).
 - The baseline population of sulfate reducing bacteria was moderate (10^4 cells/mL; 63rd percentile). Consistent with an observed decreased in dissolved sulfate concentrations, populations of sulfate reducing bacteria increased and were detected at a relatively high concentration (81st percentile) after electron donor addition.
 - After injection, methanogen populations also increased to a relatively high concentration (83rd percentile) suggesting generation of methanogenic conditions.
- With sulfate depletion and generation of highly anaerobic conditions more conducive to reductive dechlorination, *Dehalococcoides* populations may continue to increase and exceed the 10^4 *Dehalococcoides* cells/mL threshold in subsequent monitoring events.
- Overall, QuantArray analysis conclusively demonstrated that electron donor addition stimulated growth of halorespiring bacteria with the estimated percentiles retrieved from the MI Database providing the “low, medium or high” perspective to the observed changes in microbial populations.

Figure 4: Total Bacteria (EBAC), Sulfate Reducing Bacteria (APS) and Methanogens (MGN)



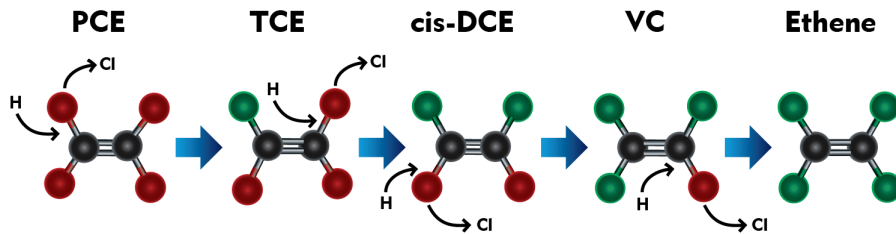
References

Lu, X., J.T. Wilson, and D.H. Kampbell. 2006. Relationship between *Dehalococcoides* DNA in ground water and rates of reductive dechlorination at field scale. *Water Research* 40 no. 16: 3131-3140.

DHC Interpretation

Dehalococcoides 16S rRNA gene (qDHC)

Under anaerobic conditions, tetrachloroethene (PCE) and trichloroethene (TCE) can undergo sequential reductive dechlorination through the daughter products *cis*-dichloroethene (*cis*-DCE) and vinyl chloride to nontoxic ethene (1,2).



While a number of bacterial cultures capable of utilizing PCE and TCE as growth supporting electron acceptors have been isolated (3-7), *Dehalococcoides* spp. may be the most important because they are the only bacterial group that has been isolated to date which is capable of complete reductive dechlorination of PCE to ethene (8). In fact, the presence of *Dehalococcoides* spp. has been associated with complete dechlorination to ethene at sites across North America and Europe (9).

Status	<i>Dehalococcoides</i> spp.	Observation
	$\geq 10^4$ (cells/mL)	Lu et al. proposed that a concentration of 1×10^4 DHC cells/mL could be used as a screening criterion to identify sites where reductive dechlorination will yield a generally useful biodegradation rate (10). Similarly, in an internal study conducted with nearly 1000 groundwater samples obtained from sites across the US, ethene production was observed in approximately 80% of samples in which CENSUS® qDHC results were greater than or equal to 10^4 DHC cells/mL.
	10^1 to $< 10^4$ (cells/mL)	When vinyl chloride reductase genes (See DHC functional genes discussion below) are also detected, complete reductive dechlorination of PCE and TCE to ethene may still occur even with moderate DHC concentrations. When the DHC population is below the 10^4 cells/mL criterion proposed by Lu et al. (10), project managers should carefully consider other site-specific data to determine whether subsurface conditions may be limiting reductive dechlorination. For example, the addition of an electron donor may be able to stimulate DHC growth and enhance anaerobic bioremediation.
	$< 10^1$ (cells/mL)	DHC concentrations are low suggesting that complete reductive dechlorination of PCE and TCE to ethene is unlikely to occur under existing conditions. Enhanced anaerobic bioremediation options (biostimulation or bioaugmentation) may need to be considered.

DHC Functional Genes (*tceA*, *bvcA*, *vcrA*)

A “stall” where daughter products *cis*-DCE and vinyl chloride accumulate can occur at PCE- and TCE-impacted sites especially under MNA conditions. The accumulation of vinyl chloride, generally considered more carcinogenic than the parent compounds, is particularly problematic. Although elevated *Dehalococcoides* concentrations correspond to ethene production in numerous studies, the range of chlorinated ethenes metabolized and cometabolized varies among species and strains within the *Dehalococcoides* genus. For example, *Dehalococcoides ethenogenes* str. 195 metabolizes PCE, TCE, and *cis*-DCE and cometabolizes vinyl chloride (8) to produce ethene. Conversely, *Dehalococcoides* sp. CBDB1 utilizes PCE and TCE but does not cometabolize additional chloroethenes (11). Other *Dehalococcoides* strains, such as BAV1, GT and VS, are known to fully dechlorinate *cis*-DCE and VC to ethene (14,16,19). Quantification of reductive dehalogenase genes is used to more definitively confirm the potential for reductive dechlorination of TCE, *cis*-DCE, and vinyl chloride (12-15).

Functional Gene	Observation
-----------------	-------------

TCE Reductase

***tceA* gene** The *tceA* gene encodes the enzyme responsible for reductive dechlorination of TCE to *cis*-DCE in some strains of *Dehalococcoides*.

Absence of *tceA* does not preclude the potential for reductive dechlorination of TCE in the field since the *tceA* gene is not universally distributed among all DHC and is not present in other microorganisms capable of reductive dechlorination of TCE (e.g. *Dehalobacter*).

Detection of the *tceA* gene provides an additional line of evidence indicating the potential for dechlorination of TCE.

Vinyl Chloride Reductase

***bvcA* gene** The *bvcA* gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of vinyl chloride to ethene by *Dehalococcoides* sp. str. BAV1 (16).

Presence of *bvcA* gene indicates the potential for reductive dechlorination of VC to ethene.

Absence of both *bvcA* and *vcrA* genes suggests VC may accumulate.

An internal study with ~1,000 samples showed ethene production was observed in 80% of the samples that the DHC population was greater than or equal to 10⁴ cells/mL. The *bvcA* gene was detected in over 50% of these samples.

Van Der Zaan et al (17) noted that the *bvcA* gene was the only VC reductase gene detected at three of their sites.

Alfred Spormann’s laboratory at Stanford University (18) reported that the *bvcA* gene was the most abundant and active at the outflow of a PCE fed column study. This section of the column was in the DCE to VC stages of reductive dechlorination thus confirming the importance of the *bvcA* gene for complete reductive dechlorination.

***vcrA* gene** The *vcrA* gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of *cis*-DCE and vinyl chloride by *Dehalococcoides* sp. strain VS (14).

Presence of *vcrA* gene indicates the potential for reductive dechlorination of DCE and/or VC to ethene.

Absence of both *bvcA* and *vcrA* genes suggest VC may accumulate.

As with the *bvcA* gene, detection of the *vcrA* gene is associated with ethene production in internal studies (67%) and vinyl chloride reduction in independent studies (14, 17).

Reporting

Microbial Insights can provide a variety of data packages and reporting levels to suit the needs of any project. Data packages range from simple analytical reports with results only to more complex data packages that include a report narrative, analytical results, QC data, and supporting materials including all raw data and chain-of-custody documentation. The figure below shows our standard report and explains the way values are reported.

Microbial Insights, Inc.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: Company Name	MI Project Number: Unique Laboratory Identifier
Project: Your Project Name	Date Received: Date Samples Arrived

Sample Information

Client Sample ID:	Sample A	Sample B	Sample C
Sample Date:	00/00/0000	00/00/0000	00/00/0000
Units:	cells/mL	cells/mL	cells/mL
Analyst:	Intials	Intials	Intials

Dechlorinating Bacteria

Gene	DHC	Sample A	Sample B	Sample C
<i>Dehalococcoides spp.</i>	DHC	1.84E+05	2.76E+02	2.28E+01 (J)
Functional Genes				
tceA Reductase	TCE	6.00E+01	3.23E+01	<4.00E-01
bvcA Reductase	BVC	1.17E+04	1.81E+01	<4.00E-01
vcrA Reductase	VCR	8.42E+04	1.74E+02	<4.00E-01

"J" value
Result is an estimated value. This data qualifier (flag) is used when the target gene is detected but at a concentration or abundance below the practical quantification limit (PQL).

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL
< = Result not detected

< value
The target gene was not detected at the limit of quantitation (LOQ) reported for that sample.

I = Inhibited

"I" value
QA Procedure indicated that the sample may have exhibited PCR inhibition. Although relatively rare, PCR inhibition can occur due to the presence of metals or humic acids at high concentrations in the sample.

Quality Assurance

Microbial Insights' comprehensive Quality Assurance (QA) Program is the foundation of all laboratory analyses, ensuring that our clients receive high-quality analytical services that are timely, reliable, and meet their intended purpose in a cost effective manner. MI is committed to providing quality data that surpasses regulatory and industry standards, thus enabling the client to make well-informed decisions. MI maintains strict standard operating procedures and QA/QC measures throughout all of the analyses offered. The following Table details specific QA/QC procedures that are used for CENSUS.

QA/QC	Description
Date of Extraction	DNA and RNA extractions are performed the day the samples are received by MI to minimize the possibility of any changes to the microbial community prior to analysis.
Laboratory Method Blanks	An extraction blank (no sample added) is processed alongside each set of field samples from DNA extraction through CENSUS® analysis to ensure that cross contamination has not occurred. Although MI has never experienced this issue, the detection of the CENSUS® target (e.g. <i>Dehalococcoides</i>) in an extraction blank is direct evidence of cross contamination with a sample or contamination of a reagent and would invalidate the results. If this were to occur, MI would re-extract the sample. If not possible to re-extract, MI would contact the client immediately and notate it on the laboratory report.
Laboratory Control Samples (LCS)	A laboratory control sample (LCS) or positive control (target DNA) is included with each CENSUS® plate to confirm amplification and as a continuing calibration check.
Negative Controls	A negative control (no DNA) is included with each CENSUS plate to ensure that cross contamination has not occurred during amplification. As with the extraction blank, detection of CENSUS target (e.g. DHC) in a negative control is direct evidence of contamination and would invalidate the results. If this were to occur, MI would rerun the analysis.

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How to Retrieve and Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database

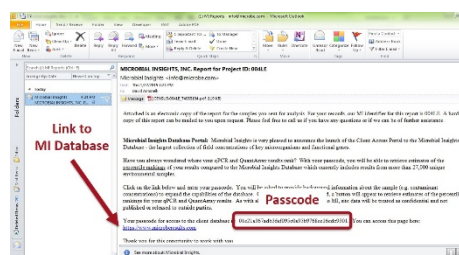
The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 40,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide.

Is that low, medium or high?

In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. The estimated percentile ranks retrieved from the MI Database answer the question “Is that low, medium or high?” by comparing your results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Retrieving Estimated Percentile Ranks

With your report, you were emailed a passcode and link enabling you to login to the Client Portal. Just enter basic information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations and you can retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge.



Well ID	Sample ID	Sample Date	Analysis Method	Run ID	CAS #	Analyte	Concentration	Units	Notes
MW1	MW1Q4	10/28/2014	SW8260B	1	107-06-2	1,2-Dichloroethane	21	UG/L	
MW1	MW1Q4	10/28/2014	SW8260B	1	156-59-2	cis-1,2-Dichloroethene	25	UG/L	
MW1	MW1Q4	10/28/2014	SW8260B	1		trans-1,2-Dichloroethene	5.8	UG/L	
MW1	MW1Q4	10/28/2014	SW8260B	1	127-1				
MW1	MW1Q4	10/28/2014	SW8260B	1	67-66				
MW1	MW1Q4	10/28/2014	SW8260B	1	79-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	107-0				
MW2	MW2Q4	11/6/2014	SW8260B	1	156-5				
MW2	MW2Q4	11/6/2014	SW8260B	1	123-9				
MW2	MW2Q4	11/6/2014	SW8260B	1	127-1				
MW2	MW2Q4	11/6/2014	SW8260B	2	79-01				
MW2	MW2Q4	11/6/2014	SW8260B	1	67-66				
MW2	MW2Q4	11/6/2014	SW8260B	1	75-01				

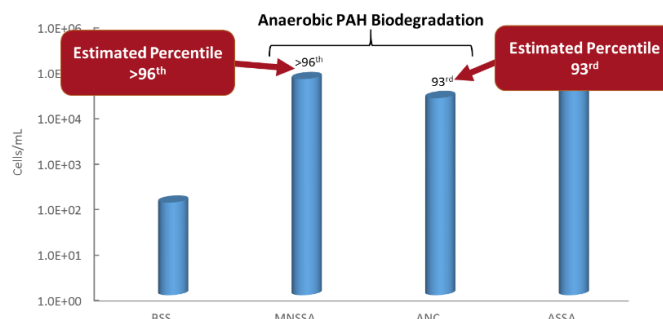
All site specific data will be treated as confidential and uploading is easy.

You can even upload chemical and geochemical data from EDDs. Just save as a Tab Delimited text file.

Example - Using Estimated Percentile for MNA Assessment at an MGP Site

CENSUS® qPCR was performed to quantify anaerobic naphthalene carboxylase (ANC) and naphthyl-2-methylsuccinate synthase (MNSSA) to assess anaerobic biodegradation of naphthalene and methyl-naphthalene under existing site conditions.

- Not only were ANC and MNSSA genes detected, but these functional genes responsible for anaerobic biodegradation of PAHs were present at concentrations “far better than average” based on the estimated percentile ranks.
- Demonstrating high concentrations of ANC and MNSSA gave an additional line of evidence indicating growth substantial populations of anaerobic PAH degraders and suggested a greater probability that monitored natural attenuation (MNA) will be successful.





10515 Research Drive
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133

Client: John McFadden
Test America
4101 Shuffel Street NW
North Canton, OH 44720

Phone:

Fax:

Identifier: 077NF

Date Rec: 06/16/2016

Report Date: 06/21/2016

Client Project #: 24015639

Client Project Name: MRC 2016 GW

Purchase Order #: TA Job #240-66032-1

Analysis Requested: CENSUS

Reviewed By:

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

Client: Test America
Project: MRC 2016 GW

MI Project Number: 077NF
Date Received: 06/16/2016

Sample Information

Client Sample ID: NMW-3I-061416
 (240-66032-4)
Sample Date: 06/14/2016
Units: cells/mL
Analyst: CB

Dechlorinating Bacteria

<i>Dehalococcoides</i>	DHC	9.22E+03
tceA Reductase	TCE	<4.00E-01
BAV1 Vinyl Chloride Reductase	BVC	1.81E+02
Vinyl Chloride Reductase	VCR	5.72E+02
<i>Dehalobacter spp.</i>	DHBt	4.94E+02

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected

Quality Assurance/Quality Control Data

Samples Received 6/16/2016

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	06/16/2016	06/21/2016	0 °C	113%	non-detect	non-detect
BVC	06/16/2016	06/21/2016	0 °C	104%	non-detect	non-detect
DHBt	06/16/2016	06/21/2016	0 °C	101%	non-detect	non-detect
TCE	06/16/2016	06/21/2016	0 °C	109%	non-detect	non-detect
VCR	06/16/2016	06/21/2016	0 °C	105%	non-detect	non-detect

Shipping and Receiving Documents

BALTIMORE

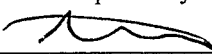
<p>Client Information</p> <p>Client Contact: Tony Apanavage</p> <p>Company: Tetra Tech, Inc.</p> <p>Address: 20251 Century Blvd Suite 200</p> <p>City: Germantown</p> <p>State, Zip: MD, 20874</p> <p>Phone: 301-233-8230(Te)</p> <p>Email: Tony.Apanavage@tetratech.com</p> <p>Project Name: <i>Block I GW Sampling</i></p> <p>Site: <i>Middle River Center</i></p>		<p>Sample Information</p> <p>Lab PM: McFadden, John</p> <p>Phone: <i>301 991-3914</i></p> <p>E-Mail: <i>john.mcfadden@testamericainc.com</i></p> <p>Due Date Requested:</p> <p>TAT Requested (days):</p> <p>PO #: <i>1479970</i></p> <p>WO #: <i>142606489</i></p> <p>Project #: <i>2466432</i></p> <p>SSOW#:</p>		<p>Analysis Requested</p> <p>Chem - Sulfate, Aik, Toc</p> <p>Total Diss Solids, Total Iron, Total Manganese, DHC - Functional genes, dehalococoides, TCE, VC</p>		<p>Carrier Tracking No(s):</p> <p>CDC No: 240-29059-6994.4</p> <p>Page: 4 of 4</p> <p>Job #:</p>	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Performance/MSD (Yes or No)	Special Instructions/Note:
<i>TB-061416</i>	<i>6-14-16</i>	<i>-</i>	<i>G</i>	Water			
<i>Nmw-2I-061416</i>		<i>1017</i>		Water			<i>DHC Ship to Another Lab</i>
<i>Nmw-2s-061416</i>		<i>1440</i>		Water			
<i>Nmw-3I-061416</i>		<i>1206</i>		Water			
<i>Outfall-9-061416</i>		<i>1400</i>	<i>7</i>	Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
<p>Possible Hazard Identification</p> <p><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p>							
<p>Empty Kit Relinquished by:</p> <p>Relinquished by: <i>[Signature]</i></p> <p>Relinquished by: <i>[Signature]</i></p> <p>Relinquished by: <i>[Signature]</i></p>							
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p>							
<p>Method of Shipment:</p> <p>Date/Time Received by: <i>6/14/16 / 1630</i></p> <p>Date/Time Received by: <i>6-15-16 / 910</i></p> <p>Date/Time Received by:</p> <p>Company: <i>Tetra</i></p> <p>Company: <i>TA</i></p> <p>Company:</p>							
<p>Cooler Temperature(s) °C and Other Remarks:</p>							



TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 664037

Client Teton beer Site Name _____
 Cooler Received on 6-15-16 Opened on 6-15-16
 FedEx: 1st Grd UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:


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 See Multiple Cooler-Form
 IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp. 0.4 °C Corrected Cooler Temp. 1.7 °C
 IR GUN #36 (CF +1.0°C) Observed Cooler Temp. 1.7 °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. Are these work share samples? Yes No
 If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HCS74756
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): _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
NMW-2I-061416	240-66032-I-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
NMW-2S-061416	240-66032-I-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
NMW-3I-061416	240-66032-I-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
OUTFALL-9-061416	240-66032-F-5	Plastic 250ml - with Nitric Acid	<2	_____	_____

APPENDIX B—FIELD DATA

APPENDIX B

FIELD DATA



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block E GW Remedy Baseline Sampling
 Project No.: 112IC04770 - 01

Domestic Well Data
 Monitoring Well Data
 Other Well Type:
 QA Sample Type:

Sample ID No.: E-SEMW-11
 Sample Location: SEMW-11
 Sampled By: S. Cameron
 C.O.C. No.: _____
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	1/19/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	11:31:37	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	Peri Pump	Clear	5.85	0.114	10.56	5.5	0.3	0.1	106

PURGE DATA:

Date:	1/19/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump	See Low Flow Purge Data Sheet							
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:	2" PVC								
Total Well Depth	30.3								
Static Water Level	4.82								
One Casing Volume(gal/L):									
Start Purge (hrs)	1035								
End Purge (hrs)	1125								
Total Purge Time	50min								
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vials	Yes
Chem	HNO3	1-500 mL plastic	Yes
Bromide	None	1-500 mL plastic	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD Duplicate ID No.: _____

Signature(s):



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GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block E GW Remedy Baseline Sampling
 Project No.: 112IC04770 - 01

Sample ID No.: E-SEMW-2I

Sample Location: SEMW-2I

Sampled By: S. Cameron

C.O.C. No.: _____

Type of Sample: _____

Low Concentration

High Concentration

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

SAMPLING DATA:

Date:	1/15/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	13:05:05	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	Peri Pump	Clear	4.85	0.036	14.95	9.3	0	0	266

PURGE DATA:

Date:	1/15/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump	See Low Flow Purge Data Sheet							
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:	2" PVC								
Total Well Depth	29.96								
Static Water Level	4.64								
One Casing Volume(gal/L):									
Start Purge (hrs)	1200								
End Purge (hrs)	1310								
Total Purge Time 1hr 10min									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vials	Yes
Chem	HNO3	1-500 mL plastic	Yes
Methane, Ethane, Ethene	HCl	2-40 mL vials	Yes
DHC	None	1-1L plastic	Yes
Bromide	None	1-500 mL plastic	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
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Signature(s):



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GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: Block E GW Remedy Baseline Sampling
Project No.: 112IC04770 - 01

Sample ID No.: E-SEMW-3I

Sample Location: SENW-3I

Sampled By: S. Cameron

C.O.C. No.: _____

Type of Sample: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Low Concentration
- High Concentration

SAMPLING DATA:

Date:	1/15/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	11:38:13	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	Peri Pump	Clear	4.9	0.056	16.24	8.3	1	0	267

PURGE DATA:

Date:	1/15/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump	<h2>See Low Flow Purge Data Sheet</h2>							
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:	2" PVC								
Total Well Depth	29.8								
Static Water Level	4.8								
One Casing Volume(gal/L):									
Start Purge (hrs)	1045								
End Purge (hrs)	1135								
Total Purge Time 50min									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vials	Yes
Bromide	None	1-500 mL plastic	Yes
Chem	HNO3	1-500 mL Plastic	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block E GW Remedy Baseline Sampling
 Project No.: 112IC04770 - 01

Sample ID No.: E-IWE-2

Sample Location: IWE-2

Sampled By: S. Cameron

C.O.C. No.: _____

Type of Sample: _____

Low Concentration

High Concentration

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

SAMPLING DATA:

Date:	1/14/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	12:21:32	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	Peri Pump	Clear	5.67	0	16.21	155	7.21	0	37

PURGE DATA:

Date:	1/14/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump	<h2>See Low Flow Purge Data Sheet</h2>							
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:	4" PVC								
Total Well Depth	33.64								
Static Water Level	3.3								
One Casing Volume(gal/L):									
Start Purge (hrs)	1130								
End Purge (hrs)	1215								
Total Purge Time 1hr 15min									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Bromide	None	1-500 Liter Plastic	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
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Signature(s):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block E GW Remedy Baseline Sampling
 Project No.: 112IC04770 - 01

Domestic Well Data
 Monitoring Well Data
 Other Well Type:
 QA Sample Type:

Sample ID No.: E-IWE-6
 Sample Location: IWE-6
 Sampled By: S. Cameron
 C.O.C. No.: _____
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	1/14/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time:	13:37:28	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method:	Peri Pump	Clear	5.79	0.194	15.87	5.6	0	0.1	216

PURGE DATA:

Date:	1/14/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump								
Monitor Reading (ppm):		See Low Flow Purge Data Sheet							
Well Casing Diameter & Material									
Type:	4" PVC								
Total Well Depth	30.49								
Static Water Level	4.13								
One Casing Volume(gal/L):									
Start Purge (hrs)	1240								
End Purge (hrs)	1340								
Total Purge Time 1hr									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Bromide	None	1-500 mL Plastic	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
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Signature(s):



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GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: Block E GW Remedy Baseline Sampling
Project No.: 112IC04770 - 01

Sample ID No.: E-SEMW-41

Sample Location: SEMW-41

Sampled By: S. Cameron

C.O.C. No.: _____

Type of Sample:

Low Concentration

High Concentration

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

SAMPLING DATA:

Date:	1/20/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	12:00:56	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	Peri Pump	Clear	4.62	0.15	13.89	29.8	0.61	0.1	318

PURGE DATA:

Date:	1/20/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump	<h2>See Low Flow Purge Data Sheet</h2>							
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:	1" PVC								
Total Well Depth	34.56								
Static Water Level	9.09								
One Casing Volume(gal/L):									
Start Purge (hrs)	1005								
End Purge (hrs)	1200								
Total Purge Time 1hr 55 min									
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vial	Yes
MEE	HCl	2-40 mL vials	Yes
Chem	HNO3/None	2-500 mL plastics	Yes
DHC	None	1-1L plastic	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
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Signature(s):



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GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: Block E GW Remedy Baseline Sampling
Project No.: 112IC04770 - 01

Sample ID No.: E-IWE-25

Sample Location: IWE-25

Sampled By: S. Cameron

C.O.C. No.: _____

Type of Sample: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Low Concentration
- High Concentration

SAMPLING DATA:

Date:	1/19/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	12:45:27	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	Peri Pump	Clear	4.85	0.109	11.68	4.4	1.71	0.1	128

PURGE DATA:

Date:	1/19/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump	<h2>See Low Flow Purge Data Sheet</h2>							
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:	4" PVC								
Total Well Depth:	30.61								
Static Water Level:	7.43								
One Casing Volume(gal/L):									
Start Purge (hrs)	1210								
End Purge (hrs)	1245								
Total Purge Time	35min								
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	<i>yej</i>
TOC	H2SO4	2-40 mL vials	<i>yej</i>
MEE	HCl	2-40 mL vials	<i>yej</i>
Chem	HNO3/None	2-500 mL plastics	<i>yej</i>
DHC	None	1-1L plastic	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block E GW Remedy Baseline Sampling
 Project No.: 112IC04770 - 01

Sample ID No.: E-IWE-28

Sample Location: IWE-28

Sampled By: S.Cameron

C.O.C. No.: _____

Type of Sample: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Low Concentration
- High Concentration

SAMPLING DATA:

Date:	1/19/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	14:22:29	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	<u>Peri Pump</u>	<u>Silty Brn</u>	4.08	0	12.83	246	7.57	0	366

PURGE DATA:

Date:	1/19/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	<u>Peri Pump</u>	<h2>See Low Flow Purge Data Sheet</h2>							
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:	<u>4" PVC</u>								
Total Well Depth	<u>30.9</u>								
Static Water Level	<u>8.94</u>								
One Casing Volume(gal/L):									
Start Purge (hrs)	<u>1320</u>								
End Purge (hrs)	<u>1410</u>								
Total Purge Time	<u>50min</u>								
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vial	Yes
MEE	HCl	2-40 mL vials	Yes
Chem	HNO3/None	2-500 mL plastics	Yes
DHC	None	1-1L plastic	Yes

OBSERVATIONS / NOTES:**Circle if Applicable:**

MS/MSD	Duplicate ID No.:
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Signature(s):




GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block E GW Remedy Baseline Sampling
 Project No.: 112IC04770 - 01

Domestic Well Data
 Monitoring Well Data
 Other Well Type:
 QA Sample Type:

Sample ID No.: E-SEMW-5S
 Sample Location: SEMW-5S
 Sampled By: S. Cameron
 C.O.C. No.: _____
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	1/20/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	13:25:38	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	Peri Pump	Clear	5.48	0.258	12.88	37.3	0	0.1	242

PURGE DATA:

Date:	1/20/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump	<h2>See Low Flow Purge Data Sheet</h2>							
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:	1" PVC								
Total Well Depth	22.47								
Static Water Level	8.81								
One Casing Volume(gal/L):									
Start Purge (hrs)	1230								
End Purge (hrs)	1320								
Total Purge Time	50min								
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vials	Yes
Chem	HNO3/None	2-500 mL plastics	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD Duplicate ID No.: _____

Signature(s): 



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block E GW Remedy Baseline Sampling
 Project No.: 112IC04770 - 01
 Sample ID No.: E-SEMW-5I
 Sample Location: SEMW-5I
 Sampled By: S. Cameron
 C.O.C. No.: _____
 Type of Sample: _____
 Low Concentration
 High Concentration

Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____

SAMPLING DATA:

Date:	1/20/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	14:36:19	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	Peri Pump	Sltly Brn	4.64	0.175	11.37	91.5	0	0.1	298

PURGE DATA:

Date:	1/20/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump	See Low Flow Purge Data Sheet							
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:	1" PVC								
Total Well Depth:	34.15								
Static Water Level:	9.02								
One Casing Volume(gal/L):									
Start Purge (hrs)	1340								
End Purge (hrs)	1440								
Total Purge Time	1hr								
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vials	Yes
Chem	HNO3/None	2-500 mL plastics	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):



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GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: Block E GW Remedy Baseline Sampling
Project No.: 112IC04770 - 01

Sample ID No.: E-SEMW-6I
Sample Location: SEMW-6I

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

Sampled By: S. Cameron
C.O.C. No.: _____
Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	1/28/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time:	12:11:33	Clear	5.74	0.276	14.25	40.9	0	0.1	-50
Method:	Peri Pump								

PURGE DATA:

Date:	1/28/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump	<h2>See Low Flow Purge Data Sheet</h2>							
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:	2" PVC								
Total Well Depth	30.2								
Static Water Level	5.34								
One Casing Volume(gal/L):									
Start Purge (hrs)	1125								
End Purge (hrs)	1210								
Total Purge Time	45min								
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vials	Yes
Chem	HNO3	1-500 mL plastic	Yes
Methane, Ethane, Ethene	HCl	2-40 mL vials	Yes
DHC	None	1-1L plastic	Yes
Bromide	None	1-500 mL plastic	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD Duplicate ID No.: _____

Signature(s):



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GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block E GW Remedy Baseline Sampling
Project No.: 112IC04770 - 01

Sample ID No.: E-MW-72B-012816

Sample Location: MW-72B

Sampled By: S. Cameron

C.O.C. No.: _____

Type of Sample: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Low Concentration
- High Concentration

SAMPLING DATA:

Date:	1/28/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	10:25:52	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	Peri Pump	Clear	5.09	0.065	12.58	49.8	0.7	0	173

PURGE DATA:

Date:	1/28/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump	<h2>See Low Flow Purge Data Sheet</h2>							
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:	2" PVC								
Total Well Depth	33.85								
Static Water Level	5.6								
One Casing Volume(gal/L):									
Start Purge (hrs)	925								
End Purge (hrs)	1030								
Total Purge Time	1hr 5 min								
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vials	Yes
Chem	HNO3	1-500 mL plastic	Yes
Methane, Ethane, Ethene	HCl	2-40 mL vials	Yes
DHC	None	1-1L plastic	Yes
Bromide	None	1-500 mL plastic	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
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Signature(s):



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GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: Block E GW Remedy Baseline Sampling
Project No.: 112IC04770 - 01

Sample ID No.: E-MW-74A

Sample Location: MW-74A

Sampled By: S. Cameron

C.O.C. No.: _____

Type of Sample: _____

Low Concentration

High Concentration

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

SAMPLING DATA:

Date:	1/28/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	14:47:03	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	Peri Pump	Silty Brn	5.99	0.639	13.13	60.2	0.9	0.3	168

PURGE DATA:

Date:	1/28/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:	Peri Pump	<h2>See Low Flow Purge Data Sheet</h2>							
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:	4" PVC								
Total Well Depth	18.06								
Static Water Level	7								
One Casing Volume(gal/L):									
Start Purge (hrs)	1405								
End Purge (hrs)	1450								
Total Purge Time	45min								
Total Vol. Purged (gal/L):									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vials	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block E GW Remedy Baseline Sampling
 Project No.: 112IC04770 - 01

Sample ID No.: E-MW-74B
 Sample Location: MW-74B
 Sampled By: S. Cameron

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

C.O.C. No.: _____
 Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	1/28/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time:	13:46:50	Clear	5.61	0.193	13.9	58.8	0.83	0.1	140
Method:	Peri Pump								

PURGE DATA:

Date:	1/28/2016	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other									
Method:	Peri Pump																	
Monitor Reading (ppm):	See Low Flow Purge Data Sheet																	
Well Casing Diameter & Material																		
Type:										4" PVC								
Total Well Depth										32.05								
Static Water Level										7.15								
One Casing Volume(gal/L):																		
Start Purge (hrs)										1240								
End Purge (hrs)										1345								
Total Purge Time										1hr 5 min								
Total Vol. Purged (gal/L):																		

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vials	Yes
Chem	HNO3/None	2-500 mL plastics	Yes
Methane, Ethane, Ethene	HCl	2-40 mL vials	Yes
DHC	None	1-1L plastic	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD Duplicate ID No.: _____

Signature(s):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	MRC Block I	Sample ID No.:	IL-2-012916
Project # / Task:	112IC04770.01	Sample Location:	Block E Inlet
Date:	January 28, 2016	Sampled By:	Mullis/Cameron
<input type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> Other: <input type="text" value="Inlet"/>			

SAMPLING DATA:

Method: Sample Time:

Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (Deg. C)	Turb. (NTU)	DO (mg/L)	Sal. (ppt)	ORP (mV)
Clear	6.46	0.549	10.05	7.1	5.7	0.3	99

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL glass vials	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
MEE	HCl	3-40 mL glass vials	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
TOC	H2SO4	2-40 mL amber vials	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Total Iron + Mang	HNO3	1-500 mL poly	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Alk, Sulf, TDS	Unpres	1-500 mL poly	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Bromide	Unpres	1-500 mL poly	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

OBSERVATIONS / NOTES:

Signature :





Well Information:

Well ID:	<input type="text" value="IL-2"/>	Purge Date:	<input type="text" value="January 29, 2016"/>
Well Diameter (in):	<input type="text"/>	Static Water Level (ft):	<input type="text"/>
Purge Method:	<input type="text" value="Low Flow (peri)"/>	Total Well Depth (ft):	<input type="text"/>

Monitoring Well Inspection:

Condition of Seal: None Good Cracked

Condition of Protective Casing: Good Damaged Loose None

Inner Casing: PVC Steel None

Condition of Inner Casing: Good Cracked/Broken

Well Photograph:



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

Middle River Center
1127204769

WELL ID.:
DATE:

SWMW-4^S-072016
7-20-06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Salinity (% or ppt)	Comments
0927	1.10									
0928	3.40	200	6.04	1.68	41.7	0.91	22.77	-45	0.9	Initial, no color
0937	3.65	100	6.4	1.77	21.0	0.00	21.61	-65	0.9	Slightly cloudy
0939	3.92	100	6.12	1.67	2.1	0.00	20.84	-77	0.9	Clear water
0948	3.95	100	6.09	1.77	0.0	0.00	21.01	-85	0.9	
0952	4.10	100	6.14	1.82	0.0	0.00	20.53	-85	0.9	
1003	4.10	100	6.89	1.83	0.0	0.00	20.95	-85	0.9	
1008	4.10	100	6.08	1.83	0.0	0.00	20.54	-85	0.9	
1013	4.10	100	6.08	1.82	0.0	0.00	20.95	-86	0.9	
Well parameters stabilize										
Sampling begins										

SIGNATURE(S): Walt R



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

Middle River Center
112FC04269

WELL ID.:
DATE:

SWP-5I-071916
7-19-16

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Salinity (% or ppt)	Comments
1359	3.75	200								
1400	4.41	300	6.72	1.37	10.4	4.83	26.32	-123	0.7	Initial, no odor
1405	5.10	300	6.67	1.40	8.3	0.00	22.34	-128	0.7	Slightly cloudy
1410	5.65	200	6.68	1.34	7.7	0.00	22.44	-129	0.7	
1420	5.70	200	6.69	1.34	11.1	0.00	23.79	-129	0.7	
1430	6.70	100	6.69	1.35	19.6	0.00	20.65	-119	0.7	
1440	7.20	100	6.64	1.38	23.3	0.00	19.52	-115	0.7	
1450	8.15	100	6.61	1.40	24.6	0.00	18.67	-110	0.7	
1455	8.20	100	6.61	1.41	25.0	0.00	18.89	-110	0.7	
1500	8.25	100	6.59	1.42	25.4	0.00	18.73	-108	0.7	
Well parameters stabilize										
Sampling begins										

SIGNATURE(S): Walt Pa



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

Middle River Center

WELL ID.:
DATE:

MW-14B-071816
7-18-16

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP (mV)	Salinity (% or ppt)	Comments
0927	5.77	—	—	—	—	—	—	—	—	Initial, no data
0930	5.90	200	6.23	0.133	27.9	0.94	19.61	45	0.1	Cloudy water
0935	5.85	100	6.31	0.116	57.4	0.00	18.05	23	0.1	Slightly cloudy
0940	5.87	100	6.29	0.105	26.0	0.00	17.74	16	0.0	↓
0950	5.88	100	6.28	0.098	13.1	0.00	17.60	-25	0.0	↓
1000	5.99	100	6.32	0.097	9.9	0.00	17.59	-74	0.0	Clean water
1005	↓	100	6.31	0.096	9.8	0.00	17.66	-93	0.0	↓
1010	↓	100	6.31	0.096	9.6	0.00	17.86	-96	0.0	↓
1015	↓	100	6.31	0.096	9.9	0.00	17.82	-103	0.0	↓
Well parameters stabilize										
Sampling begins										

SIGNATURE(S): Wm Pa



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

Middle River Center
1121C04769

WELL ID.:
DATE:

SWMW-1I-072916
7-29-16

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Salinity (% or ppt)	Comments
0929	5.10	—	—	—	—	—	—	—	—	—
0930	5.43	300	6.57	0.471	17.3	0.00	17.95	-100	0.2	Initial, no action
0935	5.50	200	6.60	0.427	16.6	0.00	19.24	-110	0.2	Slightly Cloudy
0940	5.52	200	6.62	0.413	3.6	0.00	18.98	-113	0.2	↓
0950	5.52	200	6.63	0.400	1.8	0.00	18.26	-117	0.2	Clean Water
1000	↓	200	6.65	0.400	5.0	0.00	18.76	-126	0.2	↓
1005	↓	200	6.65	0.402	5.1	0.00	18.80	-127	0.2	↓
1010	↓	200	6.65	0.402	5.2	0.00	18.82	-127	0.2	↓
1025	↓	200	6.65	0.402	5.3	0.00	18.85	-127	0.2	↓
— Wall Phenomenon Stabilize —										
— Sampling Begins —										

SIGNATURE(S): Walt R



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

Middle River Center
112504769

WELL ID.:
DATE:

SNMW-2I-071916
7-19-16

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP (mV)	Salinity (% or ppt)	Comments
1118	4.15	—	—	—	—	—	—	—	—	Initial, no odor Clear water
1119	4.35	300	6.95	6.315	19.6	1.09	28.56	-101	0.1	
1124	4.39	300	6.79	0.234	13.2	0.00	22.06	-97	0.1	
1129	4.40	250	6.76	0.252	11.9	0.00	21.16	-103	0.1	
1139	4.40	250	6.73	0.300	10.7	0.00	20.67	-117	0.1	
1149	↓	250	6.79	0.388	9.2	0.00	20.10	-128	0.2	
1159	↓	250	6.83	0.407	8.8	0.00	20.08	-144	0.2	
1204	↓	250	6.87	0.486	10.1	0.00	19.57	-152	0.2	
1209	↓	250	6.87	0.487	10.2	0.00	19.66	-152	0.2	
1214	↓	250	6.89	0.488	10.8	0.00	19.85	-156	0.2	↓
Well parameter stabilize										
Sampling Begins										

SIGNATURE(S): Walt Pa

Project Site Name:	MRC Block I	Sample ID No.:	MW-81B-012816
Project # / Task:	112IC04770.01	Sample Location:	Block I
Date:	January 28, 2016	Sampled By:	Mullis
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Other: <input type="text"/>			

SAMPLING DATA:

Method: Sample Time:

Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (Deg. C)	Turb. (NTU)	DO (mg/L)	Sal. (ppt)	ORP (mV)
Clear	6.68	0.800	17.13	22.6	0.00	0.4	-120

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL glass vials	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
MEE	HCl	3-40 mL glass vials	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
TOC	H2SO4	2-40 mL amber vials	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Total Iron + Mang	HNO3	1-500 mL poly	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Alk, Sulf, TDS	Unpres	1-500 mL poly	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
DHC	Unpres	1-1L poly	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

OBSERVATIONS / NOTES:

Well needs PVC extension

Signature : 



Well Information:

Well ID:	MW-81B	Purge Date:	January 28, 2016
Well Diameter (in):	2	Static Water Level (ft):	9.61
Purge Method:	Low Flow (peri)	Total Well Depth (ft):	30.20

Monitoring Well Inspection:

Condition of Seal: None Good Cracked

Condition of Protective Casing: Good Damaged Loose None

Inner Casing: PVC Steel None

Condition of Inner Casing: Good Cracked/Broken

Well Photograph:



Project Site Name:	MRC Block I	Sample ID No.:	NMW-11-012816
Project # / Task:	112IC04770.01	Sample Location:	Block I
Date:	January 28, 2016	Sampled By:	Mullis
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Other: <input type="text"/>			

SAMPLING DATA:

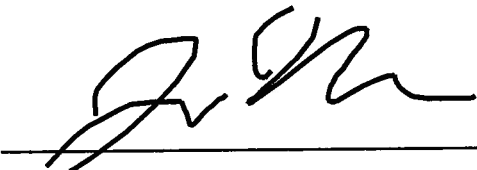
Method: Sample Time:

Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (Deg. C)	Turb. (NTU)	DO (mg/L)	Sal. (ppt)	ORP (mV)
Clear	5.56	0.482	16.71	21.2	0.00	0.2	5

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL glass vials	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
MEE	HCl	3-40 mL glass vials	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
TOC	H2SO4	2-40 mL amber vials	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Total Iron + Mang	HNO3	1-500 mL poly	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Alk, Sulf, TDS	Unpres	1-500 mL poly	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
DHC	Unpres	1-1L poly	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

OBSERVATIONS / NOTES:

Signature : 



Well Information:

Well ID:	NMW-11	Purge Date:	January 28, 2016
Well Diameter (in):	2	Static Water Level (ft):	10.39
Purge Method:	Low Flow (peri)	Total Well Depth (ft):	24.82

Monitoring Well Inspection:

Condition of Seal: None Good Cracked

Condition of Protective Casing: Good Damaged Loose None

Inner Casing: PVC Steel None

Condition of Inner Casing: Good Cracked/Broken

Well Photograph:



Project Site Name:	MRC Block I	Sample ID No.:	NMW-2S-012816
Project # / Task:	112IC04770.01	Sample Location:	Block I
Date:	January 28, 2016	Sampled By:	Mullis
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Other: <input type="text"/>			

SAMPLING DATA:

Method: Sample Time:

Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (Deg. C)	Turb. (NTU)	DO (mg/L)	Sal. (ppt)	ORP (mV)
Brown	6.15	0.753	16.05	625.4	0.00	0.4	-55

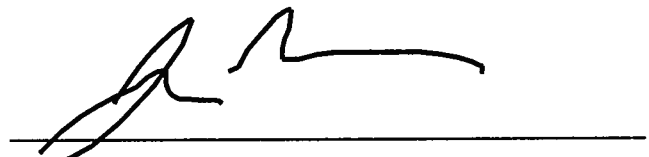
SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected	
VOCs	HCl	3-40 mL glass vials	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
MEE	HCl	3-40 mL glass vials	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
TOC	H ₂ SO ₄	2-40 mL amber vials	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Total Iron + Mang	HNO ₃	1-500 mL poly	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Alk, Sulf, TDS	Unpres	1-500 mL poly	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
DHC	Unpres	1-1L poly	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N

OBSERVATIONS / NOTES:

Well purged dry 3 times and sampled due to limited water in well.

Signature :



**Well Information:**Well ID: Purge Date: Well Diameter (in): Static Water Level (ft): Purge Method: Total Well Depth (ft): **Monitoring Well Inspection:**Condition of Seal: None Good CrackedCondition of Protective Casing: Good Damaged Loose NoneInner Casing: PVC Steel NoneCondition of Inner Casing: Good Cracked/Broken**Well Photograph:**



Project Site Name:	MRC Block I	Sample ID No.:	NMW-21-012816
Project # / Task:	112IC04770.01	Sample Location:	Block I
Date:	January 28, 2016	Sampled By:	Mullis
<input checked="" type="checkbox"/> Monitoring Well		<input type="checkbox"/> Other: <input type="text"/>	

SAMPLING DATA:

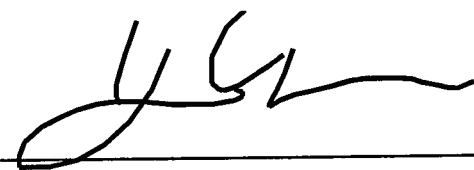
Method: Sample Time:

Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (Deg. C)	Turb. (NTU)	DO (mg/L)	Sal. (ppt)	ORP (mV)
Clear	6.14	0.472	12.62	21.3	0.00	0.2	-61

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected	
VOCs	HCl	3-40 mL glass vials	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
MEE	HCl	3-40 mL glass vials	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
TOC	H2SO4	2-40 mL amber vials	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Total Iron + Mang	HNO3	1-500 mL poly	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Alk, Sulf, TDS	Unpres	1-500 mL poly	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
DHC	Unpres	1-1L poly	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N

OBSERVATIONS / NOTES:

Signature : 



Well Information:

Well ID:	NMW-2I	Purge Date:	January 28, 2016
Well Diameter (in):	1	Static Water Level (ft):	10.26
Purge Method:	Low Flow (peri)	Total Well Depth (ft):	29.56

Monitoring Well Inspection:

Condition of Seal: None Good Cracked

Condition of Protective Casing: Good Damaged Loose None

Inner Casing: PVC Steel None

Condition of Inner Casing: Good Cracked/Broken

Well Photograph:

Project Site Name:	MRC Block I	Sample ID No.:	NMW-3I-012816
Project # / Task:	112IC04770.01	Sample Location:	Block I
Date:	January 28, 2016	Sampled By:	Mullis
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Other: 			

SAMPLING DATA:

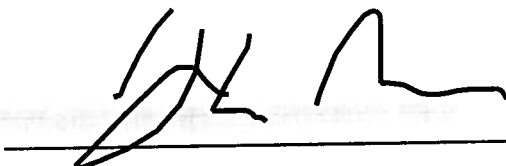
Method: Low Flow Sample Time: 8:15 AM

Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (Deg. C)	Turb. (NTU)	DO (mg/L)	Sal. (ppt)	ORP (mV)
Clear	6.85	1.14	14.90	34.8	0.00	0.6	-132

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL glass vials	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
MEE	HCl	3-40 mL glass vials	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
TOC	H2SO4	2-40 mL amber vials	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Total Iron + Mang	HNO3	1-500 mL poly	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Alk, Sulf, TDS	Unpres	1-500 mL poly	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
DHC	Unpres	1-1L poly	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

OBSERVATIONS / NOTES:

Signature : 



Well Information:

Well ID:

Purge Date:

Well Diameter (in):

Static Water Level (ft):

Purge Method:

Total Well Depth (ft):

Monitoring Well Inspection:

Condition of Seal: None Good Cracked

Condition of Protective Casing: Good Damaged Loose None

Inner Casing: PVC Steel None

Condition of Inner Casing: Good Cracked/Broken

Well Photograph:

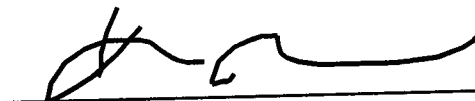


LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: **MRC Block I**
PROJECT NO.: **112IC04770**

WELL ID.: **NMW-3I**
DATE: **January 28, 2016**

Time (Hrs.)	Water Level (Ft. Below TOC)	Flow (mL/Min)	pH (S.U.)	S.C. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (C)	ORP (mV)	Sal. (ppt)
8:15 AM	8.22								
8:20 AM	9.15	200	6.88	1.17	145	0.00	14.93	-133	0.6
8:25 AM	9.28	200	6.83	1.17	45.9	0.00	14.89	-133	0.6
8:30 AM	9.30	200	6.85	1.17	44.1	0.00	14.71	-134	0.6
8:35 AM	9.31	200	6.87	1.17	43.9	0.00	14.65	-135	0.6
8:40 AM	9.34	200	6.89	1.17	38.9	0.00	14.65	-136	0.6
8:45 AM	9.35	200	6.90	1.16	37.5	0.00	14.65	-136	0.6
8:50 AM	9.36	200	6.91	1.15	35.7	0.00	14.75	-136	0.6
8:55 AM	9.36	200	6.83	1.15	34.3	0.00	14.89	-133	0.6
9:00 AM	9.36	200	6.91	1.14	34.1	0.00	14.99	-137	0.6
9:05 AM	9.36	200	6.84	1.14	35.1	0.00	14.84	-132	0.6
9:10 AM	9.36	200	6.85	1.14	34.8	0.00	14.90	-132	0.6

Signature(s): 



Project Site Name:	MRC Block I	Sample ID No.:	OF-9-012916
Project # / Task:	112IC04770.01	Sample Location:	Block I Outfall
Date:	January 28, 2016	Sampled By:	Mullis/Cameron
<input type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> Other: <input type="text" value="Outfall"/>			

SAMPLING DATA:

Method: Sample Time:

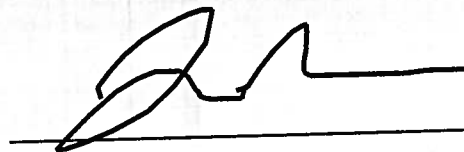
Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (Deg. C)	Turb. (NTU)	DO (mg/L)	Sal. (ppt)	ORP (mV)
Clear	7.83	0.002	6.87	198	8.28	0.0	68

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected	
VOCs	HCl	3-40 mL glass vials	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
MEE	HCl	3-40 mL glass vials	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
TOC	H2SO4	2-40 mL amber vials	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Total Iron + Mang	HNO3	1-500 mL poly	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Alk, Sulf, TDS	Unpres	1-500 mL poly	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Bromide	Unpres	1-500 mL poly	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N

OBSERVATIONS / NOTES:

Signature :





Well Information:

Well ID:	<input type="text" value="OF-9"/>	Purge Date:	<input type="text" value="January 29, 2016"/>
Well Diameter (in):	<input type="text"/>	Static Water Level (ft):	<input type="text"/>
Purge Method:	<input type="text" value="Low Flow (peri)"/>	Total Well Depth (ft):	<input type="text"/>

Monitoring Well Inspection:

Condition of Seal: None Good Cracked

Condition of Protective Casing: Good Damaged Loose None

Inner Casing: PVC Steel None

Condition of Inner Casing: Good Cracked/Broken

Well Photograph:



GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	<u>Block I, Middle River Complex</u>	Sample ID No.:	<u>MW-81B-030916</u>
Project No.:	<u>112IC04770</u>	Sample Location:	<u>Block I</u>
<input type="checkbox"/> Domestic Well Data		Sampled By:	<u>S. Cameron</u>
<input checked="" type="checkbox"/> Monitoring Well Data		C.O.C. No.:	
<input type="checkbox"/> Other Well Type:		Type of Sample:	
<input type="checkbox"/> QA Sample Type:		<input type="checkbox"/> Low Concentration	
		<input type="checkbox"/> High Concentration	

SAMPLING DATA:

Date:	<u>3/9/2016</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Sal
Time:	<u>920</u>	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	%
Method:	<u>Peri Pump</u>	<u>Clear</u>	<u>6.83</u>	<u>0.834</u>	<u>19.89</u>	<u>7.3</u>	<u>2.17</u>	<u>-162</u>	<u>0.4</u>

PURGE DATA:

Date:	<u>3/9/2016</u>	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	TDS
Method:	<u>Peri Pump</u>	See Low Flow Purge Data Sheet							
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:	<u>2" PVC</u>								
Total Well Depth (TD):									
Static Water Level:	<u>9.96</u>								
One Casing Volume(gal/L):									
Start Purge (hrs)	<u>840</u>								
End Purge (hrs)	<u>1920</u>								
Total Purge Time	<u>40</u>								
Total Vol. Purge	<u>2</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
Methane Ethane Ethene	HCl	3-40 mL vials	
TOC	H2SO4	2-40 mL vials	Yes
Anions, Cations, Alkalinity	None	1-1 Liter Plastic	
DHC	None	1-1 Liter Plastic	

OBSERVATIONS / NOTES:

Circle if Applicable:		Signature(s):
<input type="checkbox"/> MS/MSD	Duplicate ID No.:	



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block 1, Middle River Complex Sample ID No.: NMW-11-030916
Project No.: 112IC04770 Sample Location: Block 1
 Domestic Well Data Sampled By: S. Cameron
 Monitoring Well Data C.O.C. No.: _____
 Other Well Type: _____ Type of Sample:
 QA Sample Type: _____ Low Concentration
 High Concentration

SAMPLING DATA:

Date:	3/9/2016	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Sal
Time:	1015	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	%
Method:	Peri Pump	Clear	5.77	0.535	19.43	6.2	0	-31	0.2

PURGE DATA:

Date:	3/9/2016	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	TDS
Method:	Peri Pump	See Low Flow Purge Data Sheet							
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:	2" PVC								
Total Well Depth (TD):									
Static Water Level:	10.42								
One Casing Volume(gal/L):									
Start Purge (hrs)	925								
End Purge (hrs)	1015								
Total Purge Time	50								
Total Vol. Purge	3								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
Methane Ethane Ethene	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vials	Yes
Anions, Cations, Alkalinity	None	1-1 Liter Plastic	Yes
DHC	None	1-1 Liter Plastic	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:		Signature(s): 
MS/MSD	Duplicate ID No.:	



Tetra Tech

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block I, Middle River Complex Sample ID No.: NMW-2S-030916
 Project No.: 112IC04770 Sample Location: Block I
 Domestic Well Data Sampled By: S. Cameron
 Monitoring Well Data C.O.C. No.: _____
 Other Well Type: _____ Type of Sample:
 QA Sample Type: _____ Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Sal
Time:	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	‰
3/9/2016	Cloudy	6.09	0.71	18.74	220	0	-93	0.3
1245								
Method: Peri Pump								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	TDS
3/9/2016								
Method: Peri Pump								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD):								
Static Water Level: 10.8								
One Casing Volume(gal/L):								
Start Purge (hrs): 1050								
End Purge (hrs): 1120								
Total Purge Time: 30								
Total Vol. Purge: 1.5								

See Low Flow Purge Data Sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
Methane Ethane Ethene	HCl	3-40 mL vials	
TOC	H2SO4	2-40 mL vials	Yes
Anions, Cations, Alkalinity	None	1-1 Liter Plastic	
DHC	None	1-1 Liter Plastic	

OBSERVATIONS / NOTES:

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Block I, Middle River Complex
Project No.: 112IC04770

Sample ID No.: NMW-21-030916
Sample Location: Block I
Sampled By: S. Cameron
C.O.C. No.: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Type of Sample:
- Low Concentration
 - High Concentration

SAMPLING DATA:

Date:	3/9/2016	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Sal
Time:	1235	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	%
Method:	Peri Pump	Clear	5.88	0.351	21.54	7.9	0	-56	0.2

PURGE DATA:

Date:	3/9/2016	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	TDS
Method:	Peri Pump	See Low Flow Purge Data Sheet							
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:	1" PVC								
Total Well Depth (TD):									
Static Water Level:	10.75								
One Casing Volume(gal/L):									
Start Purge (hrs)	1125								
End Purge (hrs)	1235								
Total Purge Time	70								
Total Vol. Purge	3								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
Methane Ethane Ethene	HCl	3-40 mL vials	
TOC	H2SO4	2-40 mL vials	Yes
Anions, Cations, Alkalinity	None	1-1 Liter Plastic	
DHC	None	1-1 Liter Plastic	

OBSERVATIONS / NOTES:

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	



GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	<u>Block I, Middle River Complex</u>	Sample ID No.:	<u>NMW-3I-030916</u>
Project No.:	<u>112IC04770</u>	Sample Location:	<u>Block I</u>
<input type="checkbox"/> Domestic Well Data		Sampled By:	<u>S. Cameron</u>
<input checked="" type="checkbox"/> Monitoring Well Data		C.O.C. No.:	
<input type="checkbox"/> Other Well Type:		Type of Sample:	
<input type="checkbox"/> QA Sample Type:		<input type="checkbox"/> Low Concentration	
		<input type="checkbox"/> High Concentration	

SAMPLING DATA:

Date:	<u>3/9/2016</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Sal
Time:	<u>1340</u>	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	‰
Method:	<u>Peri Pump</u>	<u>Clear</u>	<u>6.43</u>	<u>0.873</u>	<u>23</u>	<u>9.4</u>	<u>0</u>	<u>-148</u>	<u>0.4</u>

PURGE DATA:

Date:	<u>3/9/2016</u>	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	TDS
Method:	<u>Peri Pump</u>	See Low Flow Purge Data Sheet							
Monitor Reading (ppm):									
Well Casing Diameter & Material Type:	<u>2" PVC</u>								
Total Well Depth (TD):									
Static Water Lev:	<u>8.45</u>								
One Casing Volume(gal/L):									
Start Purge (hrs)	<u>1300</u>								
End Purge (hrs)	<u>1340</u>								
Total Purge Tim	<u>40</u>								
Total Vol. Purge	<u>2</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40 mL vials	Yes
Methane Ethane Ethene	HCl	3-40 mL vials	Yes
TOC	H2SO4	2-40 mL vials	Yes
Anions, Cations, Alkalinity	None	1-1 Liter Plastic	Yes
DHC	None	1-1 Liter Plastic	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

TestAmerica

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE		PROJECT NO.		PROJECT LOCATION (STATE)		MATRIX TYPE		REQUIRED ANALYSIS						PAGE 1 OF 1			
TAL LAB PROJECT MANAGER		PO NUMBER		CONTRACT NO.		COMPOSITE (C) OR GRAB (G) INDICATE		AQUEOUS (WATER)						STANDARD REPORT DELIVERY			
CLIENT (SITE) PM		CLIENT PHONE		CLIENT FAX		SOLID OR SEMISOLID		NONAQUEOUS LIQUID (OIL, SOLVENT, ...)						DATE DUE			
CLIENT NAME		CLIENT E-MAIL				AIR		HCl Volts						EXPEDITED REPORT DELIVERY (SURCHARGE)			
CLIENT ADDRESS						HCl		MFE						DATE DUE			
COMPANY CONTRACTING THIS WORK (if applicable)						HCl		TUC						NUMBER OF COOLERS SUBMITTED PER SHIPMENT:			
						HCl		Chem-Sulfate						REMARKS			
						HCl		AIR, Total Diss									
						HCl		Total Iron, Tot									
						HCl		Organics									
						HCl		DHC									
SAMPLE DATE		SAMPLE IDENTIFICATION				NUMBER OF CONTAINERS SUBMITTED											
12-16-11		TB-061316				2											
13-11-11		MW-818-061316				3						DHC Ship 1					
15-08-11		MMW-17-061316				3						Another lot					
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RELINQUISHED BY: (SIGNATURE)		DATE		TIME	
[Signature]		6-2-16		1600		[Signature]						[Signature]					
RECEIVED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE)		DATE		TIME	
[Signature]		11/14		2000		[Signature]						[Signature]					

RECEIVED FOR LABORATORY BY: (SIGNATURE) DATE TIME CUSTODY INTACT (YES/NO) CUSTODY SEAL NO. SAVANNAH LOG NO. LABORATORY USE ONLY LABORATORY REMARKS

TestAmerica Canton
 4101 Shuffel Street NW
 North Canton, OH 44720
 Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
 4101 Shuffel Street NW
 North Canton, OH 44720
 Phone (330) 497-9396 Fax (330) 497-0772

Client Information
 Client Contact: Tony Aaenavage
 Company: Tetra Tech Inc
 Address: 20251 Century Blvd Suite 200
 City: Germantown
 State Zip: MD 20874
 Phone: 301-233-8230(Tel)
 Email: Tony.Aaenavage@tetratech.com

Sample Information
 Sample ID: *Mail Room*
 Phone: *301 991-3914*
 Lab PM: MCFadden, John
 E-Mail: john.mcfadden@testamericainc.com

Analysis Requested
 Due Date Requested:
 TAT Requested (days):
 PO #: *4409970*
 W/O #: *4409970*
 Project #: *4409970*
 Project #: *2400042*
 SSOIW:

Field Filtered Sample (Yes or No)
 Perform MS/MSD (Yes or No)
 82099 - *MEE* Report VOCs
 6200-7420-
 TOC
 Chem - Sulfate, Alk,
 Total Diss Solids, Total
 Iron, Total Manganese
 DHC -

Preservation Codes:
 A - HCl
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amelhor
 H - Acetic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsNBZ
 P - Na2OAS
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecylhydrate
 U - Acetone
 V - MCAA
 W - Ph 4.5
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=soli, O=other)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
<i>TB-061416</i>	<i>6-14-16</i>		<i>G</i>	<i>Water</i>						
<i>NMW-2I-061416</i>		<i>1017</i>		<i>Water</i>						<i>DHC Ship to Another Lab</i>
<i>NMW-2S-061416</i>		<i>1440</i>		<i>Water</i>						
<i>NMW-3I-061416</i>		<i>1206</i>		<i>Water</i>						
<i>Outfall-9-061416</i>		<i>1400</i>		<i>Water</i>						

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *[Signature]* Date/Time: *6-14-16 /* Company: *Tetra*

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____

Δ Yes Δ No

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Method of Shipment: _____

Special Instructions/Note: _____

Special Instructions/QC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Dispose By Lab Archive For _____ Months

Cooler Temperature(s) °C and Other Remarks: _____



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Middle River Center
Project No.: _____

Sample ID No.: outfall-9-061316

Sample Location: outfall-9

Sampled By: WP

C.O.C. No.: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Type of Sample:
- Low Concentration
 - High Concentration

SAMPLING DATA:

Date: <u>8-14-16</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Sal
Time: <u>1700</u>	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	%
Method: <u>Grab</u>	<u>Clear</u>	<u>6.03</u>	<u>6.30</u>	<u>28.61</u>	<u>0.0</u>	<u>9.28</u>	<u>24</u>	<u>3.4</u>

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	TDS
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
<u>WALS</u>	<u>HCl</u>	<u>3 - 40 ml VOA</u>	
<u>Tox</u>	<u>H2SO4</u>	<u>6 - 40 ml VOA</u>	
<u>Chem</u>	<u>-</u>	<u>1 - 1L Poly</u>	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s):

Walt Pa



Tetra Tech

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Martin State Airport
Project No.: _____

Sample ID No.: I-NMW-IP-061316

Sample Location: NMW-1E

Sampled By: WP

C.O.C. No.: _____

Type of Sample: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Low Concentration
- High Concentration

SAMPLING DATA:

Date: <u>6-13-16</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Sal
Time: <u>1508</u>	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	%
Method: <u>Peristaltic pump</u>	<u>Clear</u>	<u>5.73</u>	<u>0.525</u>	<u>27.65</u>	<u>0.0</u>	<u>1.18</u>	<u>2</u>	<u>0.3</u>

PURGE DATA:

Date: <u>6-13-16</u>	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	TDS
Method: <u>Peristaltic pump</u>								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material								
Type: <u>2" PVC</u>								
Total Well Depth (TD):								
Static Water Level (WL): <u>9.75</u>								
One Casing Volume(gal/L):								
Start Purge (hrs): <u>1417</u>								
End Purge (hrs): <u>1503</u>								
Total Purge Time (min): <u>46</u>								
Total Vol. Purged (gal/L): <u>2.5</u>								

See low flow purge data sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
<u>VOLS</u>	<u>HCl</u>	<u>3 - 40 ml VOA</u>	<input checked="" type="checkbox"/>
<u>MEE</u>	<u>HCl</u>	<u>3 - 40 ml VOA</u>	<input checked="" type="checkbox"/>
<u>TOC</u>	<u>H2SO4</u>	<u>2 - 40 ml VOA</u>	<input checked="" type="checkbox"/>
<u>Chem</u>	<u>-</u>	<u>1 - 1L Poly</u>	<input checked="" type="checkbox"/>
<u>DHC</u>	<u>-</u>	<u>1 - 1L Poly</u>	<input checked="" type="checkbox"/>

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s):

Walt R



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Middle River Center
Project No.: _____

Sample ID No.: NMW-2E-061416

Sample Location: NMW-2E

Sampled By: VP

C.O.C. No.: _____

Type of Sample: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Low Concentration
- High Concentration

SAMPLING DATA:

Date: <u>6-14-16</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Sal
Time: <u>1017</u>	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	%
Method: <u>Peristaltic pump</u>	<u>Clear</u>	<u>5.70</u>	<u>0.301</u>	<u>22.36</u>	<u>2.41</u>	<u>1.90</u>	<u>9</u>	<u>0.1</u>

PURGE DATA:

Date: <u>6-14-16</u>	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	TDS
Method: <u>Peristaltic pump</u>								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>1" PVC</u>								
Total Well Depth (TD):								
Static Water Level (WL): <u>9.65</u>								
One Casing Volume (gal/L):								
Start Purge (hrs): <u>0926</u>								
End Purge (hrs): <u>1012</u>								
Total Purge Time (min): <u>46</u>								
Total Vol. Purged (gal/L): <u>1.5</u>								

See low flow purge data sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
<u>VOCs</u>	<u>HCl</u>	<u>3 - 40 ml vba</u>	<u>✓</u>
<u>MEE</u>	<u>HCl</u>	<u>3 - 40 ml vba</u>	<u>✓</u>
<u>TOC</u>	<u>H2SO4</u>	<u>2 - 40 ml vba</u>	<u>✓</u>
<u>Chem</u>	<u>-</u>	<u>1 - 1L Poly</u>	<u>✓</u>

OBSERVATIONS / NOTES:

Circle if Applicable:

<u>MS/MSD</u>	Duplicate ID No.: _____	Signature(s): <u>Walt Puz</u>
---------------	-------------------------	-------------------------------



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Middle River Center
Project No.: _____

Sample ID No.: NMW-25-061416

Sample Location: NMW-25

Sampled By: WP

C.O.C. No.: _____

Type of Sample:
 Low Concentration
 High Concentration

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

SAMPLING DATA:

Date: <u>6-14-16</u>	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Sal %
Time: _____	<u>Cloudy</u>	<u>6.18</u>	<u>0.682</u>	<u>24.68</u>	<u>77.3</u>	<u>1.84</u>	<u>-80</u>	<u>0.3</u>
Method: <u>Peristaltic pump</u>								

PURGE DATA:

Date: <u>6-14-16</u>	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	TDS
Method: <u>Peristaltic pump</u>								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" PVC</u>	<u>See low flow purge</u>							
Total Well Depth (TD):	<u>Data Sheet</u>							
Static Water Level (WL): <u>9.90</u>								
One Casing Volume(gal/L):								
Start Purge (hrs): <u>1034</u>								
End Purge (hrs): <u>1055</u>								
Total Purge Time (min): <u>20</u>								
Total Vol. Purged (gal): <u>0.5</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
<u>VOCs</u>	<u>HCl</u>	<u>3 - 40 ml vial</u>	
<u>MIB</u>	<u>HCl</u>	<u>3 - 40 ml vial</u>	
<u>TUC</u>	<u>H2SO4</u>	<u>2 - 40 ml vial</u>	
<u>Chem</u>	<u>_____</u>	<u>1 - 1L Poly</u>	

OBSERVATIONS / NOTES:

Circle if Applicable:

<input type="checkbox"/> MS/MSD	Duplicate ID No.: _____
---------------------------------	-------------------------

Signature(s): Walt R



Tetra Tech

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Middle River Center
Project No.: _____

Sample ID No.: NMW-3I-061400

Sample Location: NMW-3I

Sampled By: WP

C.O.C. No.: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Type of Sample:
- Low Concentration
- High Concentration

SAMPLING DATA:

Date: <u>6-14-16</u>	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Sal
Time: <u>1206</u>	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	%
Method: <u>Peristaltic pump</u>	<u>Clear</u>	<u>6.44</u>	<u>1.06</u>	<u>21.50</u>	<u>3.8</u>	<u>1.68</u>	<u>-132</u>	<u>0.5</u>

PURGE DATA:

Date: <u>6-14-16</u>	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	TDS
Method: <u>Peristaltic pump</u>								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" PVC</u>								
Total Well Depth (TD): _____								
Static Water Level (WL): <u>7.50</u>								
One Casing Volume(gal/L): _____								
Start Purge (hrs): <u>1115</u>								
End Purge (hrs): <u>1201</u>								
Total Purge Time (min): <u>46</u>								
Total Vol. Purged (gal/L): <u>2.0</u>								

See low flow purge data sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
<u>VOCs</u>	<u>HCl</u>	<u>3-40 ml vial</u>	<u>✓</u>
<u>MEE</u>	<u>HCl</u>	<u>3-40 ml vial</u>	<u>✓</u>
<u>TOC</u>	<u>H2SO4</u>	<u>2-40 ml vial</u>	<u>✓</u>
<u>Chem</u>	<u>-</u>	<u>1-1L Poly</u>	<u>✓</u>
<u>DHC</u>	<u>-</u>	<u>1-1L Poly</u>	<u>✓</u>

OBSERVATIONS / NOTES:

Circle if Applicable:		Signature(s): <u>Walt R</u>
<input type="checkbox"/> MS/MSD	Duplicate ID No.: _____	

