Technical Memorandum: March 2012 Surface Water Sampling Results for Frog Mortar Creek Martin State Airport 701 Wilson Point Road Middle River, Maryland

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ACRONYMS

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

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Section 1
Introduction

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc. (Tetra Tech) has prepared this technical memorandum to detail work conducted as part of the *2012 Surface Water Sampling Work Plan* (Tetra Tech, 2012a) for the Dump Road Area (DRA) at Martin State Airport (MSA) in Middle River, Maryland (see Figure 1-1). This technical memorandum presents the results of surface water samples collected from Frog Mortar Creek on March 20, 2012. The sampling objectives were to:

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

This technical memorandum is organized as follows:

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

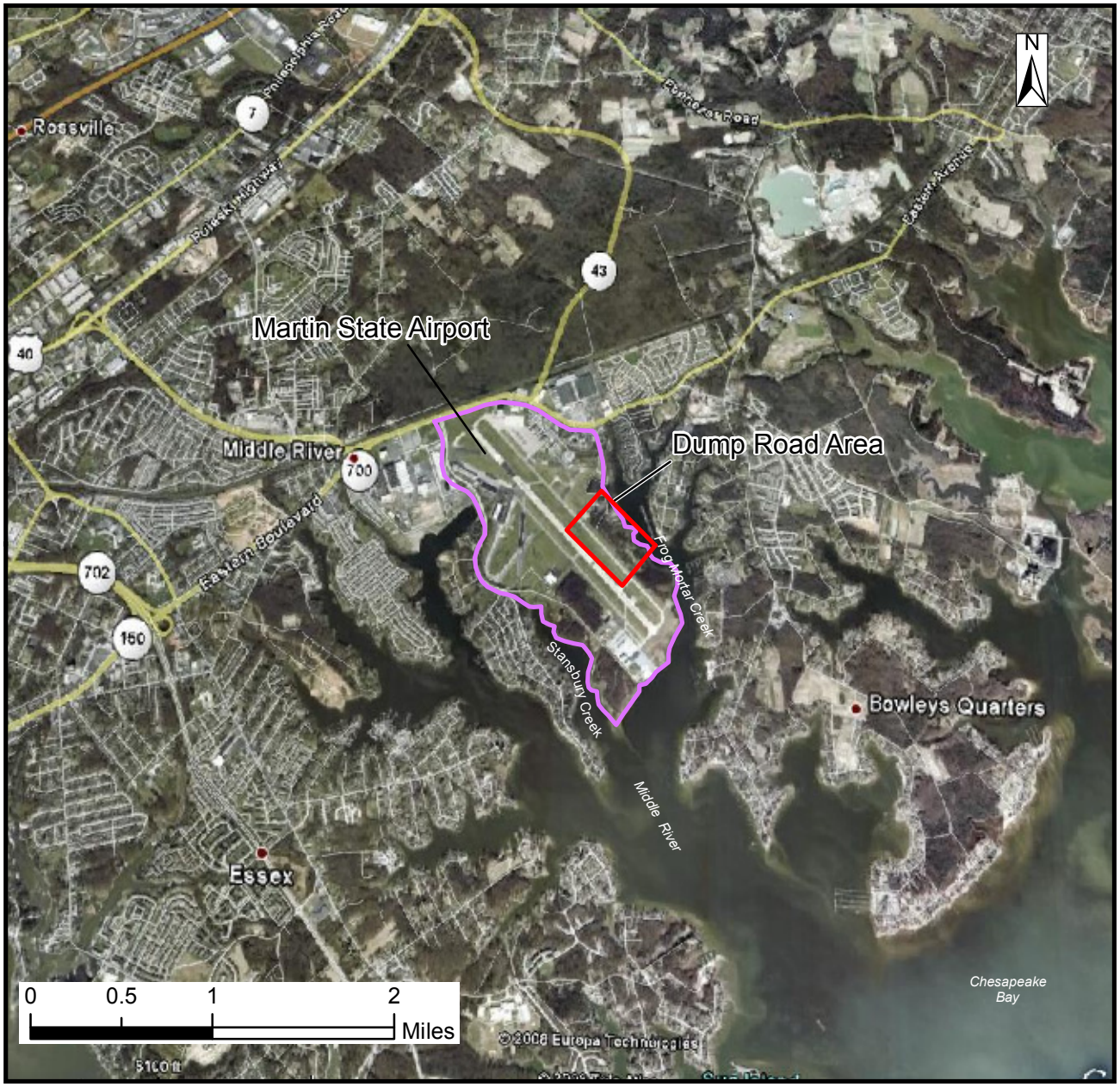
Section 3—Investigation Approach and Methodology: Presents the technical approach of the surface water sampling and describes the field methodology.

Section 4—Results: Presents the investigation findings.

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

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

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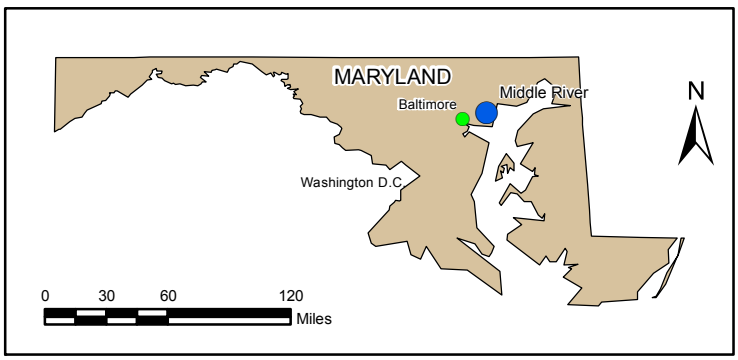


FIGURE 1-1

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

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

DATE MODIFIED:	CREATED BY:
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TETRA TECH

Section 2
Site Background and Previous Investigations

2.1 SITE BACKGROUND

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

During the 1930s through 1960s, three pits were reported to have been used to dump spent battery acid, acid-type strippers, and other acidic solutions in the Dump Road Area. Dredge spoils and construction debris associated with industrial operations were also reported to have been placed in the pits. As part of a Preliminary Assessment (PA) conducted in 1989, Maryland Department of the Environment (MDE) only found two of the three pits during site visits. MDE referred to the two pits as ponds in the PA, which were later named Acid Pit #1 and Pond 1 and Acid Pit #2 and Pond 2 in subsequent studies. Aerial photographs from 1952 and 1957 reviewed during a 1996 DRA investigation showed an open “burial area” or “dump” adjacent to what is now Taxiway Tango.

In July 1991, four drums containing dried zinc chromate paint were uncovered during installation of underground electric cables adjacent to Taxiway Tango, prompting MDE to order additional

studies (MDE, 1992 and 1997). The location of the four excavated drums is shown in Figure 2-2. The Maryland Aviation Administration (MAA), the owner of the airport at that time, removed the drums and conducted environmental studies from 1991–1998, including geophysical surveys to locate and identify buried materials and sampling and chemical analyses of soil, groundwater, surface water, and sediment. These initial investigations identified four areas of concern at MSA: the Taxiway Tango Median Anomaly Area, the Drum Area, two ponds (Pond 1 and Pond 2), and the Petroleum Hydrocarbon Area (Figure 2-2).

From 1999–2009, the Lockheed Martin Corporation (Lockheed Martin), the successor corporate entity of the Glenn L. Martin Aircraft Company, conducted a remedial investigation (RI) of the DRA (Tetra Tech, Inc. [Tetra Tech], 2010a). Lockheed Martin also conducted supplemental RI studies of the DRA in 2010 and 2011 (Tetra Tech 2010b–c, 2011a–c, 2012a–g) to further delineate the extent of chemical impacts in soil, groundwater, and sediment that earlier studies had indicated. Through geophysical surveys, test pits, soil borings, and soil sample chemical analyses, the RI and supplemental studies identified surface and subsurface soil contamination from buried fill material.

The fill material consists of soil, stained soil, and debris, the latter of which is comprised of concrete rubble and disposed industrial items (e.g., batteries, decomposed drums, tires, paint cans, burned items, sludge, buckets, glass, wood, etc.). Volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) (primarily polycyclic aromatic hydrocarbons [PAHs]), and several metals have been detected in soils at concentrations exceeding human health risk screening levels. Chlorinated VOCs (cVOCs) (e.g., trichloroethene [TCE] and its degradation products), petroleum VOCs (e.g., benzene, toluene, ethylbenzene, and xylenes [BTEX]), and metals have been also found in surficial aquifer groundwater at concentrations exceeding Maryland groundwater and drinking water standards. Complete details of the site background, including previous investigations, descriptions of site geology and hydrogeology, and current conditions, are in the RI (Tetra Tech, 2010a).

2.2 PREVIOUS INVESTIGATIONS OF FROG MORTAR CREEK

2.2.1 1997 Investigation

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

SVOCs and cyanide were not detected in these surface water samples at concentrations above the laboratory method detection limits. The only VOC detected (methylene chloride) is considered a common laboratory contaminant. Several SVOCs (primarily PAHs) and metals were detected above laboratory method detection limits in the sediment samples; copper was detected at particularly high concentrations in sediment samples. Several metals also exceeded comparison criteria in surface water samples.

As for SVOCs, the Maryland Environmental Service (MAA's consultant at the time of the investigation) determined that SVOC concentrations in sediment were comparable to background levels found in other sediment samples collected in Chesapeake Bay. MES concluded that these concentrations posed no public health or environmental concerns with respect to surface water or bottom sediment quality. An MDE memorandum of August 20, 1998 (MDE, 1998) reviewed the surface water and sediment data and concluded that the potential risks associated with these exposure concentrations were within the range USEPA considers acceptable.

2.2.2 2004 Investigation

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

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

2.2.3 2007–2008 Investigation

Tetra Tech completed a three-phase investigation of surface water and sediment in Frog Mortar Creek (Tetra Tech, 2009) in 2007–2008. That investigation identified and sampled areas where groundwater discharges into Frog Mortar Creek to assess possible contamination in sediment and surface water and to assess whether contaminants may have historically migrated from the site into Frog Mortar Creek via surface erosion. Sampling locations for the three phases of this investigation are shown in Figures 2-5 through 2-7. The three-phase investigation included the following tasks:

- Phase I—a Trident™ probe identified locations where groundwater discharges to surface water
- Phase II—surface water and shallow sediment was sampled at the locations identified in Phase I as possible groundwater discharge points
- Phase III—deeper sediments were sampled at locations identified in Phase II as possibly affected

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

The 2007–2008 investigation concluded that cVOC groundwater contamination, upon discharge to Frog Mortar Creek, was affecting surface water and sediment at locations adjacent to and east

of the DRA. These locations are within the lateral boundaries of the groundwater plume and known fill area at the DRA. The sample analyses show that:

- the highest concentrations of cVOCs known to be associated with the DRA groundwater plume were detected in sediments adjacent to the site
- the highest detected concentrations of metals were typically found at areas not influenced by the DRA plume
- the highest concentrations of PAHs in Frog Mortar Creek were found north of the site

Several concentrations of metals in surface water exceeded USEPA National Recommended Water Quality Criteria (NRWQC). However, concentrations of these metals are consistent throughout Frog Mortar Creek, and do not appear to be associated with known MSA contaminant sources. In addition, these metals concentrations do not appear to be associated with high levels of potential risk. Most metals appear to be in dissolved form, and not adsorbed to suspended material in the water column.

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

2.2.4 2010 Investigation

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

Sample MSA-SW38 reflects near-shore surface water quality in a locale hydraulically downgradient of the DRA groundwater plume. In that sample, the primary site groundwater contaminants TCE, *cis*-1,2-dichloroethene (*cis*-1,2-DCE), vinyl chloride (VC), and 1,4-dioxane were detected, as well as low concentrations of three other DRA groundwater VOCs: 1,2,4-trichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene. These results indicate that cVOCs in the DRA groundwater plume discharge to Frog Mortar Creek. The vinyl chloride concentration (32 micrograms per liter [µg/L]) detected in the sample exceeded the human health consumption-of-organism criterion.

Other site VOCs (such as benzene, toluene, ethylbenzene, xylene, chlorobenzene, and other chlorobenzene isomers) were not detected in the Frog Mortar Creek surface water samples collected in 2010. Hexavalent chromium was detected in the three surface water samples collected in 2010 at low concentrations. One sample's hexavalent chromium concentration (MSA-SW39) exceeded the human health screening level used for the study.

2.2.5 2011 Investigation

The results of the 2011 Frog Mortar Creek surface water investigation, and its findings, are summarized below:

- Four quarterly rounds of surface water samples were collected in March, June, September, and December 2011. Samples were chemically analyzed to assess concentrations of chemical constituents previously detected in Frog Mortar Creek and to assess the impact to creek surface water quality from a groundwater plume at the DRA. An additional 60 surface water samples were collected from Frog Mortar Creek in August 2011 during two surface water sampling events. These were chemically analyzed to assess variations in surface water chemical concentrations at different depths and at high and low tides.

- Five samples were collected in March near the western shoreline of Frog Mortar Creek. In June, September, and December, three samples were collected along each of nine transects, spaced approximately 350 feet apart, along the western shoreline of Frog Mortar Creek, for a total of 27 surface water samples. Along each transect, one sample was collected near the shoreline ("A" sample), one was collected approximately 50 feet from the shoreline ("B" sample), and one was collected approximately 100 feet from the shoreline ("C" sample). Each sample was collected at approximately one foot below the water surface. Samples were collected in August along five transects and at multiple depths.

- Quarterly Frog Mortar Creek samples were analyzed for VOCs, 1,4-dioxane, perchlorate, filtered and unfiltered metals, and total hexavalent chromium. The March samples were

also analyzed for PAHs, and the June samples were analyzed for SVOCs. August samples were analyzed for VOCs only.

- The data were validated in accordance with the USEPA *Region III Modifications to the National Functional Guidelines for Data Review* and the specifics of the analytical methods used.

- Sampling results were screened against the U.S. Environmental Protection Agency Region 3 Biological Technical Advisory Group (BTAG) ecological freshwater screening benchmarks, and the NRWQC and Maryland Ambient Water Quality Criteria (AWQC) for acute and chronic aquatic organism exposures and human health criteria for aquatic organism consumption.

- VOCs (primarily TCE, *cis*-1,2-DCE, and VC), a SVOC (1,4-dioxane), and metals were detected in the 2011 surface water samples.

- Concentrations of VOCs and 1,4-dioxane were greatest for sampling locations MSA-SW38A and MSA-SW41A, northeast and hydraulically downgradient of the DRA monitoring wells that contain some of the highest concentrations of site-related constituents in groundwater (e.g., wells DMW2S/A/B and DMW5S).

- In general, the concentrations of VOCs and 1,4-dioxane detected n March and December samples were higher than those detected in samples collected during the summer months (June, August, and September). Perchlorate was detected in the December samples only.

- Concentrations of TCE, *cis*-1,2-DCE, and VC generally decrease progressively north and south of the MSA-SW38 and MSA-SW41 transects. 1,4-Dioxane was not detected beyond samples from transects MSA-SW38, MSA-SW40, and MSA-SW41.

- At sampling transects with the highest concentrations of VOCs, TCE, and *cis*-1,2-DCE concentrations were highest near the shoreline, and decrease progressively in samples collected farther from the shoreline. 1,4-Dioxane was predominantly detected in the shoreline, or "A" samples.

- All but six detected VOC concentrations were less than screening criteria. In March 2011, TCE was detected in two shoreline samples (MSA-SW38 and MSA-SW41), vinyl chloride was detected in one shoreline sample (MSA-SW38), and total xylenes, and *meta*- and *para*- xylenes, were detected in sample MSA-SW38. The remaining exceedance was a concentration of TCE detected in a shoreline sample (MSA-SW41A) in December.

- *cis*-1,2-DCE and VC were not detected as far south as TCE during high tide.

- In general, the August 2011 concentrations of TCE, *cis*-1,2-DCE, and VC in samples collected at different depths at any given location show no discernible differences.

- The tidal phase appears to have some influence on detected VOC concentrations, particularly in the samples collected 50 feet from the shore. In general, VOC

concentrations in samples collected in the "B-series," 50 feet from the shore, were greater at low tide than at high tide, irrespective of sampling depth. Low tide VOC concentrations were also greater than high tide concentrations at MSA-SW43, the southernmost transect sampled in August 2011. Conversely, at the near shore surface sampling location MSA-SW38A-1-HT, VOC concentrations were higher at high tide than at low tide. This effect is likely the result of more complex mixing in the very shallow, near shore environment due to tide changes.

- 1,4-Dioxane was detected in seven samples. Although 1,4-dioxane does not have a surface water screening criterion, California has adopted a human health advisory level of 3 µg/L for drinking water and groundwater. All seven detected 1,4-dioxane concentrations in the Frog Mortar Creek samples were less than this health advisory level.

- Perchlorate was detected in only 11 of the December 2011 samples. Although perchlorate does not have a surface water screening criterion, Maryland has a perchlorate groundwater standard of 2.6 µg/L. All perchlorate concentrations in the Frog Mortar Creek samples were less than this standard. The distribution of perchlorate in the December Frog Mortar Creek samples does not appear related to the DRA groundwater plume distribution.

- Concentrations of four dissolved metals (barium, manganese, arsenic, and cadmium) and three total metals (iron, mercury, and selenium) exceeded a screening level in one or more of the 88 surface water samples (five samples for iron and manganese) collected during 2011. However, three of these metals (dissolved cadmium, total mercury, and total selenium) only exceeded their respective screening levels in less than 6% of samples (i.e., one to five samples of 88) collected during the four quarterly sampling rounds.

- Dissolved barium concentrations detected in the June, September, and December sampling rounds are within narrow concentration ranges, typically 2–3 µg/L. The highest dissolved barium concentrations detected were in March (22.2–30 µg/L), followed by the lowest concentrations in June (6.7–7.9 µg/L), with higher concentrations again detected in September (20–21 µg/L) and December (11–13 µg/L). The barium data show no consistent spatial trends, suggesting that these concentrations may be naturally occurring levels for Frog Mortar Creek.

- Dissolved arsenic concentrations for 2011 range from 0.77–3.0 µg/L, and are similar to the dissolved arsenic concentrations (2.2–3.9 µg/L) reported for reference samples (i.e., background locations) collected during the 2007–2008 Frog Mortar Creek investigation (Tetra Tech, 2009).

- Hexavalent chromium was detected in all June and December 2011 samples, but not in the March or September samples. Concentrations detected in December were greater than those for June, which may be, in part, due to higher turbidity in December samples. All hexavalent chromium concentrations detected were less than screening levels. The maximum detected concentration (5.21 µg/L) was in sample MSA-SW41B, collected in December; this concentration is one-half the lowest screening level for hexavalent chromium (11 µg/L). The second highest concentration (0.379 µg/L, at MSA-SW39B) is nearly 30 times less than the lowest screening level. Although strong spatial trends in the

June and December data are not apparent, the maximum concentration of 5.21 µg/L, as well as several of the higher hexavalent chromium concentrations, were collected in the area where the highest VOC concentrations were detected (i.e., sampling transects MSA-SW38 and MSA-SW41 area).

The following sections provide a more detailed description of the 2011 Frog Mortar Creek surface water sampling program.

2.2.5.1 March 2011 Investigation

As a part of the 2011 surface water sampling program, five surface water samples were collected along the western shoreline of Frog Mortar Creek near the DRA on March 3, 2011 (Tetra Tech, 2012d). Sampling locations and chemical analytes exceeding ecological and human health screening criteria are shown in Figure 2-9. All five of the March 2011 surface water samples were collected near the Frog Mortar Creek shoreline from approximately one foot below the water surface. Samples MSA-SW37 and MSA-SW39 were collected north and south of the DRA, respectively.

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

2.2.5.2 June 2011 Investigation

In June 2011, 27 surface water samples were collected along nine surface water sampling transects (MSA-SW37 to MSA-SW45) (Tetra Tech, 2012e). Sampling locations are shown in Figure 2-10. Transects were spaced approximately 350 feet apart, with five of the nine transects co-located with previous (March 2011) sampling locations MSA-SW37, MSA-SW38,

MSA-SW39, MSA-SW40, and MSA-SW41. Along each transect, one sample was collected near the shoreline ("A" sample), one sample was collected approximately 50 feet from the shoreline ("B" sample), and one sample was collected approximately 100 feet from the shoreline ("C" sample). Each sample was collected from approximately one foot below the water surface.

The June 2011 samples were analyzed for VOCs, SVOCs including 1,4-dioxane, filtered and unfiltered metals, hexavalent chromium, and perchlorate. VOCs (primarily TCE, *cis*-1,2-DCE and VC), a few SVOCs, and metals were detected in the June 2011 surface water samples. The detected VOC concentrations were less than their respective screening criteria. Metals exceeding the screening criteria include dissolved arsenic and barium.

The dissolved and total arsenic concentrations were lower than the dissolved arsenic concentrations in reference (background) samples collected in 2007–2008 during the Frog Mortar Creek investigation. Perchlorate and 1,4-dioxane were not detected in the June 2011 surface water samples. SVOCs detected were either attributed to laboratory artifacts (phthalates), or were detected very infrequently, and at concentrations below screening criteria.

Concentrations of VOCs were greatest at sampling location MSA-SW38A, which is northeast and hydraulically downgradient of the DRA monitoring wells that contain some of the highest groundwater concentrations of site-related constituents (i.e., wells DMW2S/A/B and DMW3S/I/D). At most sampling transects, TCE and *cis*-1,2-DCE concentrations were highest near the shoreline; concentrations decreased progressively with increased distance from the shoreline. Concentrations of TCE and *cis*-1,2-DCE decreased progressively north and south of MSA-SW38A-C. However, *cis*-1,2-DCE was not detected as far south as was TCE (i.e., it was not detected at MSA-SW45A-C and MSA-SW39B). The maximum concentration of VC was detected at location MSA-SW38A, with lower concentrations detected in samples collected from transects to the north (MSA-SW40B, MSA-SW42A, and MSA-SW37B). VC was not detected in any surface water samples collected at distances beyond 50 feet from the shoreline.

2.2.5.3 August 2011 Investigation

In August 2011, two additional parameters (depth and tide) were incorporated into the surface water sampling program to assess constituent variations at different depths and at high and low tides. Surface water samples were again collected at three different distances from shoreline

("A," "B," and "C" samples, as in the June 2011 sampling) and at varying depths below the water surface, along five previously sampled transects (Tetra Tech, 2011d). Sixty surface water samples were collected for this study. The August 2011 surface water sampling locations are shown in Figure 2-11; these samples were analyzed for VOCs only.

TCE, *cis*-1,2-DCE, VC, toluene, and acetone were detected in the August 2011 surface water samples, at concentrations similar to those detected in the June 2011 samples. All detected VOC concentrations were less than their respective screening criteria. Also consistent with previous surface water trends, concentrations of VOCs (primarily TCE and *cis*-1,2-DCE) were highest in samples collected along surface water transects MSA-SW38 and MSA-SW40.

These transects are hydraulically downgradient of DRA monitoring wells that contain some of the highest groundwater concentrations of site-related constituents. Concentrations of VOCs, while similar, were slightly higher in the August 2011 samples as compared to those detected in the June 2011 samples. Concentrations of TCE and *cis*-1,2-DCE generally decreased north of MSA-SW40A and south of MSA-SW38A-C. VC and *cis*-1,2-DCE were not detected as far south as TCE during high tide (i.e., only one low concentration was detected, in sample MSA-SW43A-C-HT).

At most sampling transects, TCE and *cis*-1,2-DCE concentrations were highest in the sample collected at or near (50 feet from) the shoreline; concentrations decreased in samples collected 100 feet from the shoreline. Similarly, detected concentrations of VC were generally greatest in near-shore samples, and decreased progressively with increased distance from the shoreline. The maximum concentrations of VC were detected in near-shore samples collected at locations MSA-SW38A (high tide) and MSA-SW40A (low tide); lower concentrations were detected in samples collected from transects to the north (MSA-SW40B, MSA-SW42A, and MSA-SW37B).

VOC concentrations appear to be influenced by the tidal phase, particularly in samples collected 50 feet from the shore. In general, VOC concentrations in samples collected in the "B-series" from 50 feet offshore are greater at low tide than at high tide, irrespective of sampling depth. An exception, however, occurred in the near-shore surface water sample MSA-SW38A-1-HT; VOC concentrations in this sample were higher at high tide than at low tide.

2.2.5.4 September 2011 Investigation

Twenty-eight surface water samples (27 samples and one duplicate sample) were collected from Frog Mortar Creek near the DRA site on September 13, 2011 (Tetra Tech, 2012f). Three samples were collected along each of the nine previously sampled transects, spaced approximately 350 feet apart, along the western shoreline of Frog Mortar Creek. Samples were again collected from approximately one foot below the water surface at three different distances from shoreline ("A," "B," and "C" samples) along each transect, similar to the June 2011 sampling event.

Figure 2-12 shows the September 2011 surface water sampling locations. Samples were analyzed for VOCs by SW846 Method 8260B, for 1,4-dioxane by SW846 Method 8270C, for priority pollutant metals (filtered and unfiltered) by SW846 Methods 6020/7470A, for hexavalent chromium by SW846 Method 218.6, and for perchlorate by U.S. Environmental Protection Agency (USEPA) Method 314. Chlorinated VOCs detected in the samples include TCE, *cis*-1,2-DCE, and VC, the primary cVOCs detected in the DRA groundwater plume west of Frog Mortar Creek. BTEX were also detected in these samples.

TCE was detected in all 28 samples (27 samples and the duplicate sample) at concentrations ranging from 0.44–9.5 µg/L. VC and *cis*-1,2-DCE were detections were similar to those of TCE, but less frequently. *cis*-1,2-DCE was detected in 24 samples at concentrations ranging from 0.32 to 17 µg/L. VC was detected in 16 samples at concentrations ranging from 0.39 to 21 µg/L. All VOCs detected in the September 2011 surface water samples were reported at concentrations less than their respective screening criteria.

Concentrations of TCE were greatest at sampling locations MSA-SW41A and MSA-SW38A (9.5 and 6 µg/L, respectively), northeast and hydraulically downgradient of DRA monitoring wells DMW2S, DMW2A, and DMW5S. These wells contain some of the highest site-related concentrations found in shallow- and intermediate-depth groundwater. As distance from the shore increases in these two transects, TCE concentrations decrease (4.7 and 3.7 µg/L at MSA-SW38B-C; and 3.4 and 1.3 µg/L at MSA-SW41B-C). Similar, but slightly lower, TCE concentrations were detected in samples from MSA-SW40A-B-C (3.4, 4.3, and 2.1 µg/L, respectively) and MSA-SW42A-B-C (2.1, 2.4, and 2.4 µg/L, respectively), north of transects MSA-SW38 and MSA-SW41.

Similar to the March, June, and August 2011 surface water results, a decreasing TCE trend is evident in Frog Mortar Creek samples north and south of the MSA-SW38/MSA-SW41 sampling area. The September 2011 TCE concentrations at MSA-SW38A-B (6 µg/L and 4.7 µg/L) are higher than the June 2011 TCE concentrations (1.7 and 1.5 µg/L), but are still approximately five to six times less than the highest March 2011 TCE concentration (32 µg/L at MSA-SW38). At sampling transects with the highest TCE concentrations (transects MSA-SW38 and MSA-SW41), TCE concentrations are highest near the shoreline and decrease progressively in samples collected farther from the shoreline. Other transects (e.g., transects MSA-SW37, MSA-SW39, and MSA-SW42 through MSA-SW45) show increasing concentrations of TCE with distance from the shoreline.

Concentrations of *cis*-1,2-DCE and VC follow the same patterns as TCE, except that there were fewer detections in samples collected south of MSA-SW41. The maximum 1,2-DCE and VC concentrations (17 µg/L and 21 µg/L, respectively) were both detected at sampling location MSA-SW38A. Similar to TCE, *cis*-1,2-DCE and VC concentrations typically decrease (or are not detected) in samples collected north and south of the highest concentration area (transects MSA-SW38 and MSA-SW41). Concentrations of *cis*-1,2-DCE and VC decreased progressively from the shoreline at transects MSA-SW38, MSA-SW41, and MSA-SW42. Areas where 1,2-DCE and/or VC concentrations increased with distance from the shore occurred in sampling transects MSA-37, MSA-SW43 and MSA-SW45 (for both VC and *cis*-1,2-DCE), and in transect MSA-SW44 (for *cis*-1,2-DCE only).

Toluene, a component of petroleum fuels and a site groundwater contaminant, was detected in seven samples at trace to low concentrations, ranging from an estimated (*J*-qualified; see Section 3.3) 0.14 µg/L to 1.5 µg/L; all detected concentrations were less than screening levels. 1,2,4-Trimethylbenzene, benzene, ethylbenzene, and xylenes were all detected in sample MSA-SW41A (collected near the shore) but not in the "B" or "C" samples (50 feet and 100 feet from shore, respectively) along this transect. Benzene was detected in only one other sample (MSA-SW39A), at a low estimated concentration of 0.14 µg/L.

Acetone was detected in four samples at trace concentrations below screening levels. All acetone results were "*B*-qualified," indicating acetone was in the trip blank. As such, acetone in these four samples does not reflect the samples' true concentrations. In addition, because acetone was

reported at such low concentrations (i.e., at concentrations below the project action level calculated in the validation), and because acetone is a common laboratory contaminant, it is likely not a constituent of the DRA VOC plume. 1,4-Dioxane was detected in only one sample (MSA-SW38A) at a low estimated concentration of 0.85 J µg/L.

Dissolved arsenic and barium were detected in all samples, and, except for one total mercury concentration, are the only metals to exceed surface water screening levels. Detected concentrations of dissolved arsenic and barium range from 1.6 µg/L to 2.4 µg/L and 20 µg/L to 21 µg/L, respectively. Dissolved barium concentrations in all 28 samples exceed the BTAG ecological screening level of 4 µg/L. Dissolved arsenic exceeds the human health consumption-of-organism screening criterion of 1.4 µg/L at all locations. However, the dissolved arsenic concentrations (1.6 to 2.4 µg/L) detected in September 2011 are less than or within the range of dissolved arsenic concentrations (2.2 to 3.9 µg/L) reported for reference (background) samples collected as part of Lockheed Martin's 2007–2008 Frog Mortar Creek investigation (Tetra Tech, 2009).

Total arsenic concentrations, ranging from 2.4 µg/L to 5 µg/L, are also similar to the 2007–2008 reference sample range. The 28 dissolved barium concentrations are similar throughout the sampled area, with detected concentrations occurring within a narrow range of 20 to 21 µg/L. Total barium was detected at similar concentrations, but with a slightly more varied results range: 21 µg/L to 35 µg/L; all but one location had barium concentrations of 21 to 25 µg/L. Barium was not analyzed as part of the 2007–2008 Frog Mortar Creek sampling program; therefore, the results cannot be compared to prior reference (background) concentrations. Only one concentration of total mercury (0.26 µg/L), detected in sample MSA-SW45A, exceeds the BTAG screening benchmark (0.026 µg/L). Neither hexavalent chromium nor perchlorate were detected in the September 2011 surface water samples.

2.2.5.5 December 2011 Investigation

Twenty-eight surface water samples (27 samples and one duplicate sample) were collected from Frog Mortar Creek near the DRA site on December 8, 2011 (Tetra Tech, 2012g). Three samples were again collected along each of the same nine transects, from approximately one foot below the water surface, at three different distances from shoreline ("A," "B," and "C" samples). These

surface water samples were collected as part of an ongoing investigation to assess the effects of the DRA groundwater contaminants on the water quality of Frog Mortar Creek.

The samples were analyzed for VOCs, 1,4-dioxane, total (i.e., unfiltered) metals, dissolved (i.e., filtered) metals, hexavalent chromium, and perchlorate. Several VOCs, 1,4-dioxane, perchlorate, and several metals were detected in the surface water samples. cVOCs detected in the samples included TCE, *cis*-1,2-DCE, 1,1-dichloroethene (1,1-DCE), and VC, which are also the primary cVOCs detected in the DRA groundwater plume. Other VOCs detected with limited occurrence (i.e., in only one or two samples) include the petroleum-related compounds toluene, ethylbenzene, xylenes, and chlorobenzene.

TCE was detected in all 28 samples (27 samples and one duplicate sample) at concentrations ranging from an estimated 0.69*J* to 27 µg/L. cis-1,2-DCE was detected in all but six samples, at concentrations ranging from an estimated 0.41*J* to 21 µg/L. Vinyl chloride was detected less frequently (in only 13 samples), at concentrations ranging from 0.30*J* µg/L to 14 µg/L. However, only one detected TCE concentration (27 µg/L in sample MSA-SW41A) exceeded the VOC screening criteria.

Toluene, ethylbenzene, and xylenes (components of petroleum fuels and site groundwater contaminants) were detected at trace to low concentrations in four samples (MSA-SW38A, MSA-SW41A, MSA-SW42A [ethylbenzene was not detected at MSA-SW42A], and MSA-SW44A). All detected concentrations were below their corresponding screening levels. These three VOCs were detected in samples collected near the shore ("A" samples), but not in the "B" or "C" samples, which were collected 50 feet and 100 feet from shore. Benzene, another common VOC component of petroleum fuels and a site groundwater contaminant, was not detected in these samples. Acetone was detected in one sample at a trace concentration less than screening levels. Acetone is a common laboratory contaminant, and its presence, at a low concentration in only one sample, may indicate a laboratory artifact.

TCE concentrations were greatest in samples from MSA-SW41A, MSA-SW38A, and MSA-SW38B (27 µg/L, 17 µg/L, and 14 µg/L, respectively), northeast to east and hydraulically downgradient of the DRA monitoring wells that contain some of the highest site-related shallow- and intermediate-depth groundwater concentrations (i.e., wells DMW2S, DMW2A, DMW4S/4I,

DMW5S/5I). Generally, TCE concentrations decrease progressively in samples collected north and south of transects MSA-SW38 and MSA-SW41. This trend of decreasing TCE concentrations to the north and south of the MSA-SW38 and MSA-SW41 sampling transects is similar to previous surface water sampling rounds.

Along sampling transects MSA-SW40, MSA-SW38, and MSA-SW41, TCE concentrations were highest near the shoreline, and decrease progressively in samples collected farther from the shoreline. In the other sampling transects, TCE concentrations are relatively consistent. The December 2011 TCE concentrations along sampling transects MSA-SW38 and MSA-SW41 were typically two to three times greater than the TCE concentrations detected at the same locations during September 2011.

The December 2011 surface water concentrations of *cis*-1,2-DCE for near shore samples at transects MSA-SW40, MSA-SW38, MSA-SW41, and MSA-SW43, and the "B" sample at MSA-SW38B, were generally greater than those detected in the September 2011 sampling event. The concentrations and spatial distribution of *cis*-1,2-DCE at the remaining December sampling locations are similar to those seen during the September 2011 surface water sampling event. The two highest *cis*-1,2-DCE concentrations, 21 µg/L and 18 µg/L, were detected at MSA-SW38A and MSA-SW41A, respectively. Concentrations of *cis*-1,2-DCE decrease to the north and south of transects MSA-SW38 and MSA-SW41, and typically decrease with increasing distance from the shoreline.

Vinyl chloride showed spatial distributions and trends similar to TCE and *cis*-1,2-DCE. Consistent with the pattern of cVOC detection seen in past rounds, the maximum VC concentration of 14 µg/L was detected at sampling location MSA-SW38A. During the December 2011 sampling event, VC was more frequently detected in the sampling transects north of the highest concentration area (i.e., MSA-SW40, MSA-SW42, and MSA-SW37) than it was in samples collected farther to the south (i.e., MSA-SW43, MSA-SW44, MSA-SW45, and MSA-SW39). VC concentrations generally decrease with increasing distance from the shoreline, particularly in the highest concentration area (transects MSA-SW38, MSA-SW41, and MSA-SW40). Overall, the pattern of VC concentrations is consistent across the June, August, and September sampling rounds, with the maximum VC concentrations detected at location

MSA-SW38A. The December maximum VC concentration (14 µg/L) is approximately 30% less than the September 2011 maximum concentration (21 µg/L).

1,4-Dioxane was detected in four samples, in the same area as the highest VOC concentrations (transects MSA-SW38, MSA-SW40, and MSA-SW41), at concentrations ranging from 0.51 µg/L at MSA-SW38B to 1.4 µg/L at MSA-SW38A. Three of four 1,4-dioxane detections were in the "A" samples collected near the shoreline (MSA-SW38A, MSA-SW40A, and MSA-SW-41A). The remaining sampling location (MSA-SW38B) is along MSA-SW38, the transect that had the highest concentration of cVOCs. Perchlorate was detected in 11 samples at concentrations ranging from 0.094 µg/L (MSASW44C) to 0.79 µg/L (MSA-SW38C). MSA-SW38 is the location with the highest cVOC concentrations. Except for the maximum concentration from MSA-SW38C, the highest concentrations of perchlorate were detected primarily in near-shore ("A") samples from transects MSA-SW41, MSA-SW43, MSA-SW44, and MSA-SW45; these transects are south of the area of highest cVOC concentrations.

Total arsenic was detected in all samples at concentrations exceeding the screening level for human health, but these concentrations are less than ecological and AWQC criteria. Total arsenic concentrations range from an estimated 1.9*J* µg/L to 4.2 µg/L. All dissolved barium concentrations that were not flagged with a "*B*" validation qualifier exceeded the BTAG ecological screening level of 4 µg/L. All total barium results were flagged with a "*B*" data-validations qualifier, indicating that barium was detected in the laboratory blanks.

Many total cadmium and total lead concentrations exceeded both the AWQC and ecological screening criteria; however, concentrations of both metals are within the same order of magnitude as the criteria and are moderately consistent over the sampling area. None of the dissolved lead, and only four of the dissolved cadmium results exceed screening criteria. Hexavalent chromium was detected in all samples, at concentrations ranging from 0.056 µg/L to 5.21 µg/L. The maximum concentration of hexavalent chromium was detected at MSA-SW41B. If this concentration is excluded, the range of remaining hexavalent concentrations is much narrower, with concentrations from 0.056 µg/L to 0.379 µg/L.

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Main Terminal and Surrounding Features_revised 1 13 12.mxd)
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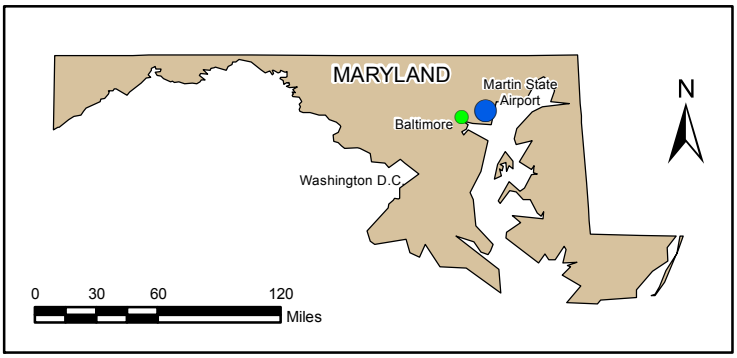


FIGURE 2-1

MARTIN STATE AIRPORT AND SURROUNDING FEATURES

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

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

TETRA TECH

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

AREAS OF CONCERN
DUMP ROAD AND RUNWAY AREA

LEGEND

POND

MARYLAND AIR NATIONAL GUARD BOUNDARY

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

0 60 120 240 Feet

N

DATE MODIFIED: 1/13/12

CREATED BY: MP

TETRA TECH

FIGURE 2-3

1997 SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS

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

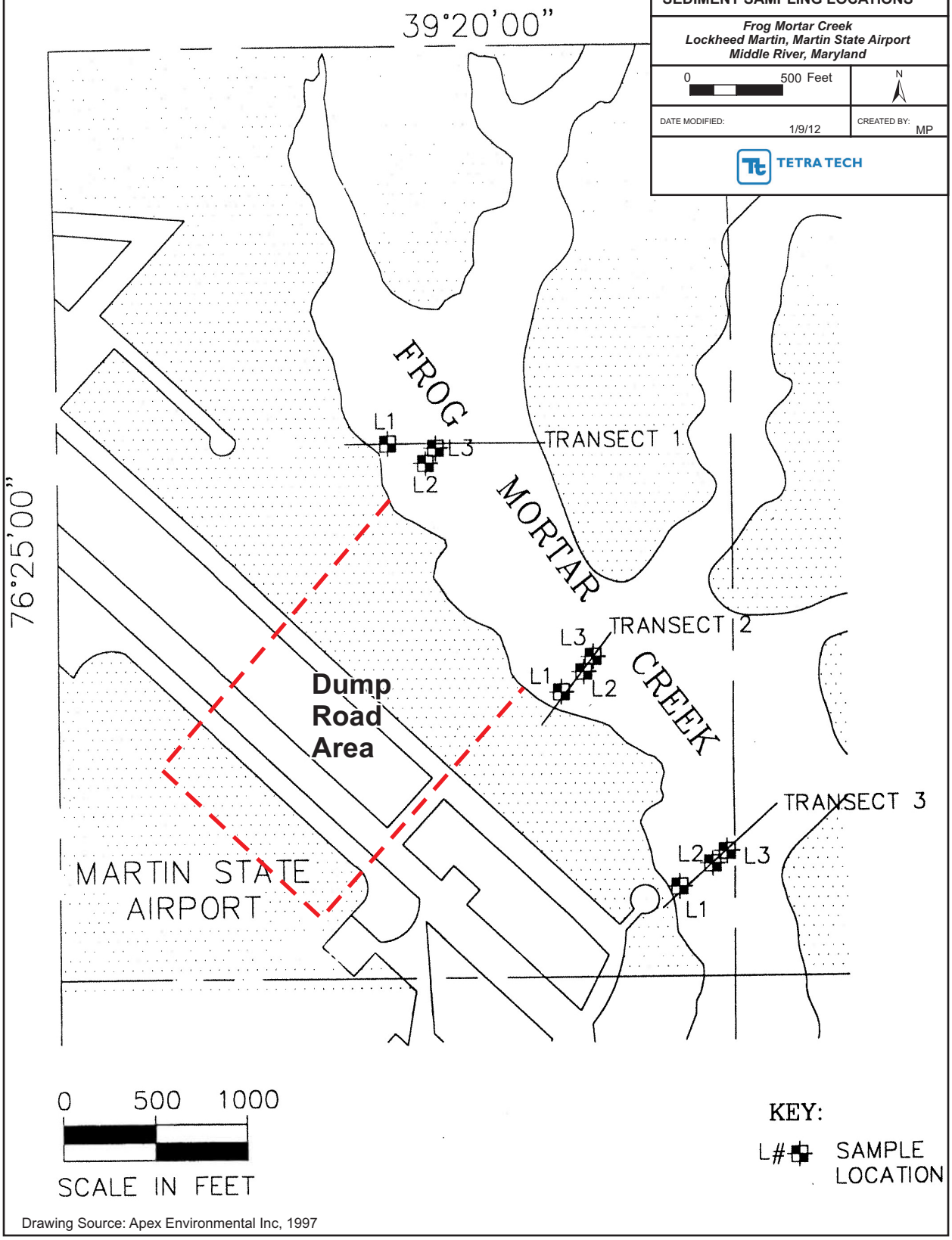
0 500 Feet

N

DATE MODIFIED: 1/9/12

CREATED BY: MP

TETRA TECH



Drawing Source: Apex Environmental Inc, 1997

K:\Graphics\Lockheed\MSA\FMC Sample Locations 1997_revised 1 9 12.cdr

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA 2004 Surface Water and Sediment Samples_revised 1 9 12.mxd)
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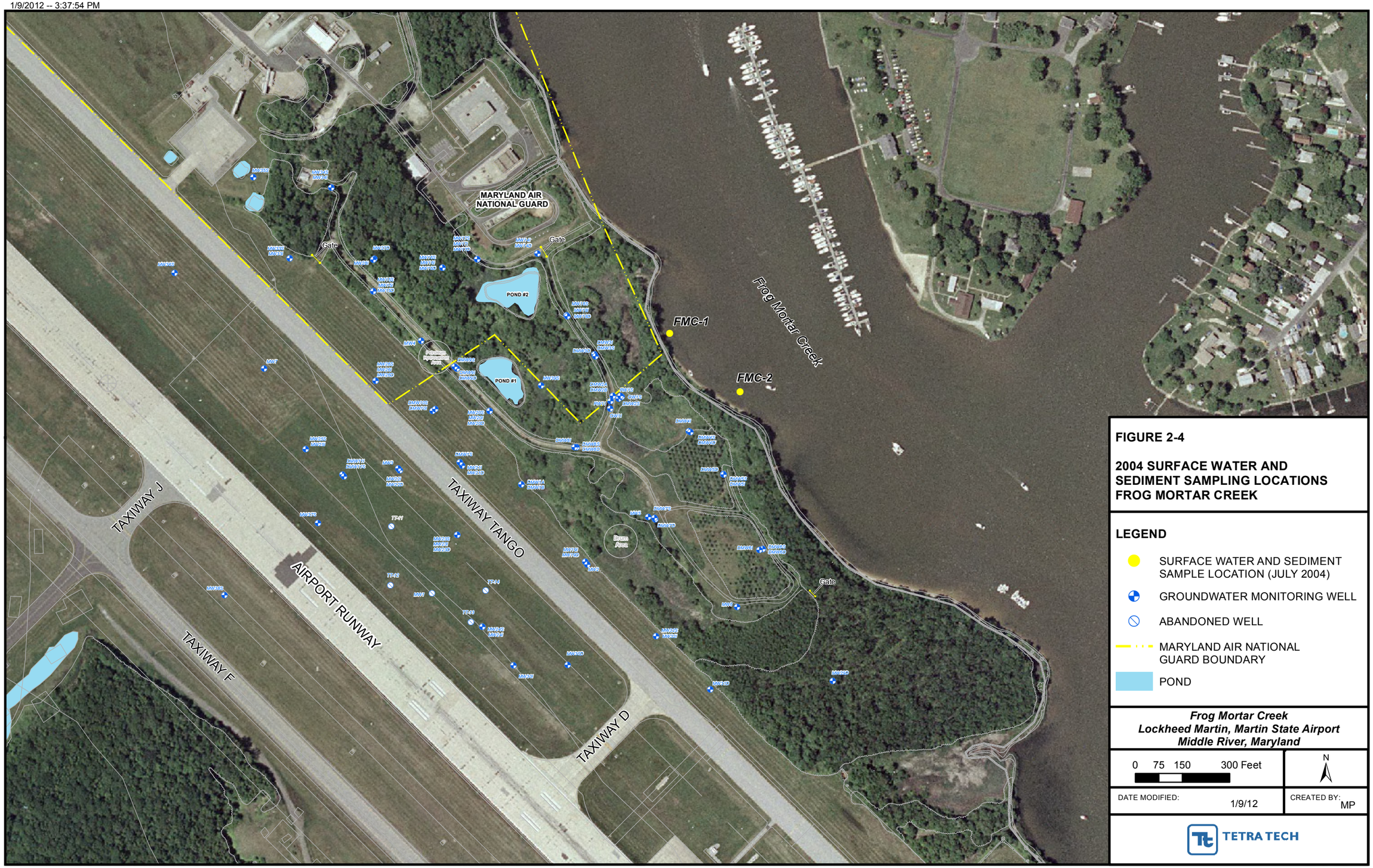


FIGURE 2-4

2004 SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS FROG MORTAR CREEK

LEGEND

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

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

0 75 150 300 Feet

N

DATE MODIFIED: 1/9/12

CREATED BY: MP

TETRA TECH

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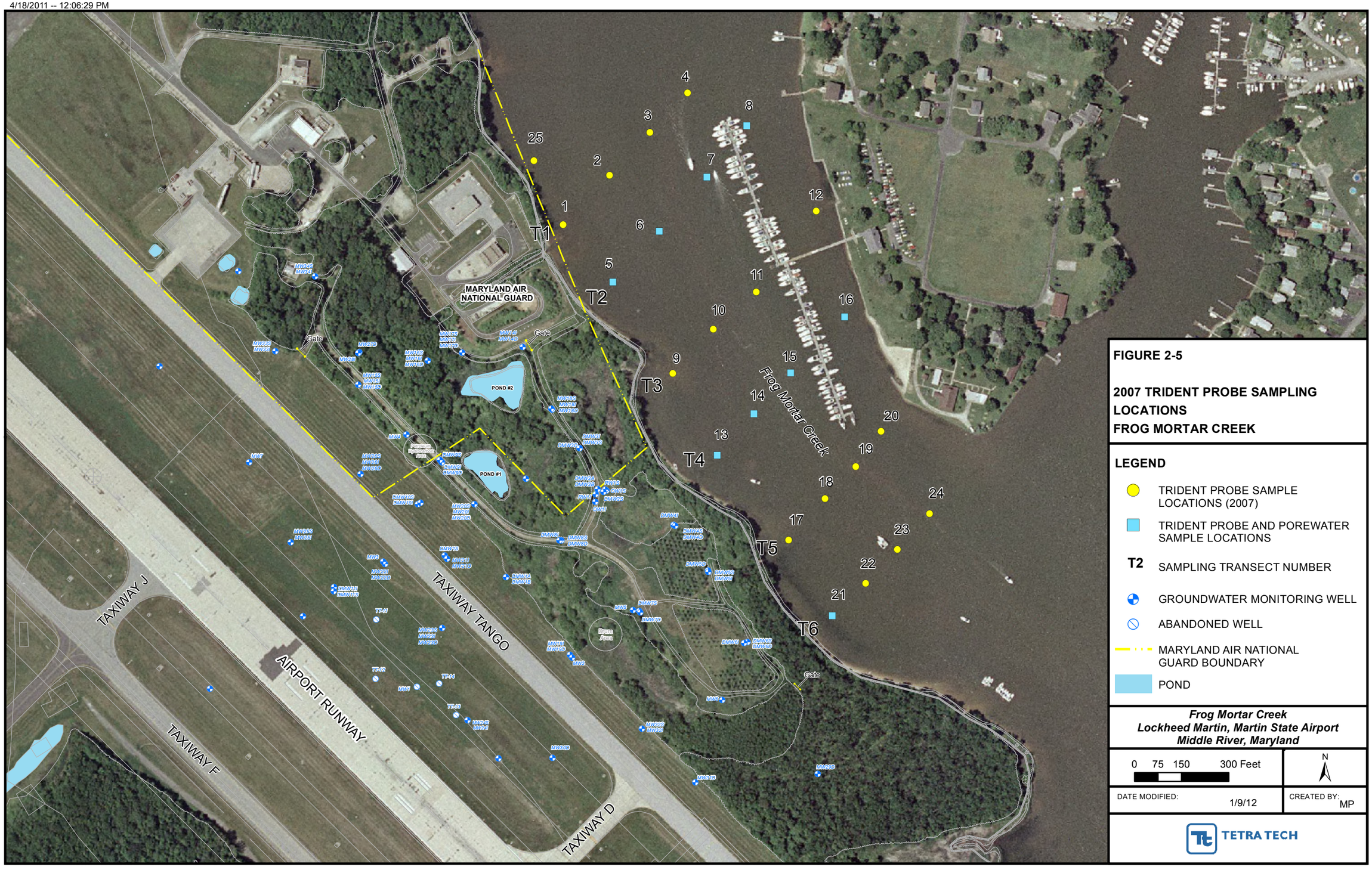


FIGURE 2-5

2007 TRIDENT PROBE SAMPLING LOCATIONS
FROG MORTAR CREEK

LEGEND

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

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

0 75 150 300 Feet

N

DATE MODIFIED: 1/9/12

CREATED BY: MP

TETRA TECH

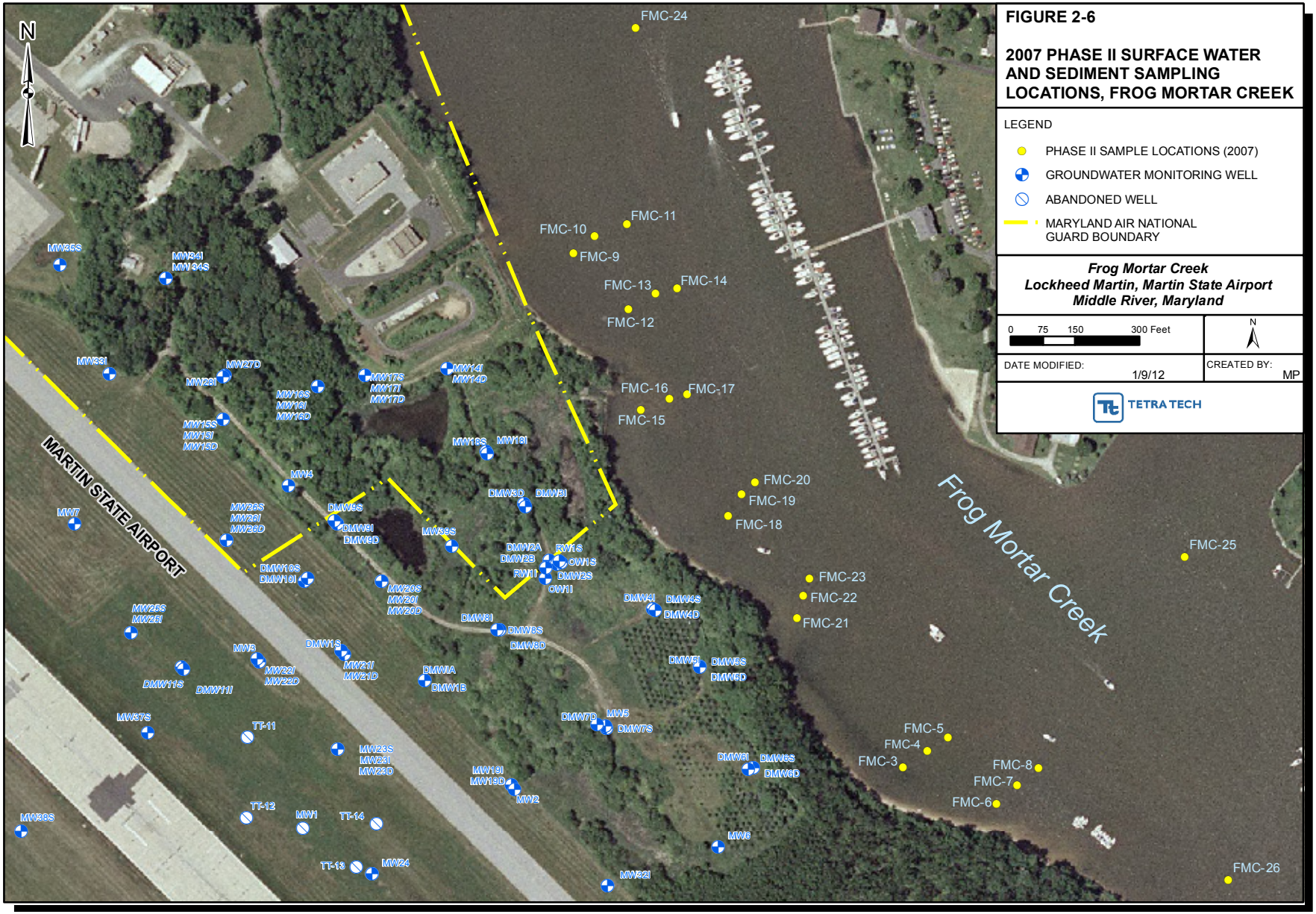


FIGURE 2-6

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

LEGEND

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

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

0 75 150 300 Feet

N

DATE MODIFIED: 1/9/12

CREATED BY: MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\Frog Mortar samples_figure 2-4.mxd) 4/15/2011 -- 4:23:03 PM

FIGURE 2-7

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

LEGEND

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

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

0 100 200 400 Feet

N

DATE MODIFIED: 1/9/12

CREATED BY: MP

TETRA TECH

FMC-27
FMC-28
FMC-29
FMC-30
FMC-31
FMC-32
FMC-33
FMC-10
FMC-09
FMC-13
FMC-12
FMC-16
FMC-15
FMC-19
FMC-18
FMC-22
FMC-21
FMC-34
FMC-35
FMC-36

Frog Mortar Creek

MARTIN STATE AIRPORT

MW34S MW34I MW33S MW33I MW27D MW28I MW16S MW16I MW16D MW13S MW13I MW15D MW4 MW7 MW3S MW9I MW9D MW26S MW26I MW26D DMW10S DMW10I MW25S MW25I MW3 DMW11I DMW11S TT-11 MW22I MW22D DMW1S MW21I MW21D DMW1B DMW1A MW23S MW23I MW23D TT-12 MW1 TT-14 TT-13 MW24S MW24I MW30D MW2 MW17S MW17I MW17D MW14I MW14D DMW3I DMW3S DMW3D DMW3I DMW2A DMW2B RW1S RW1I OW1S DMW2S OW1I MW20S MW20I MW20D DMW8I DMW8S MW19I MW19D MW5 DMW7S DMW7D MW6 MW32S MW32I MW31D MW29D DMW4S DMW4I DMW5I DMW5S DMW6I DMW6S

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7/28/2011 -- 9:19:16 AM



FIGURE 2-8

JULY 2010 SURFACE WATER SAMPLING LOCATIONS

LEGEND

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

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

0 75 150 300 Feet

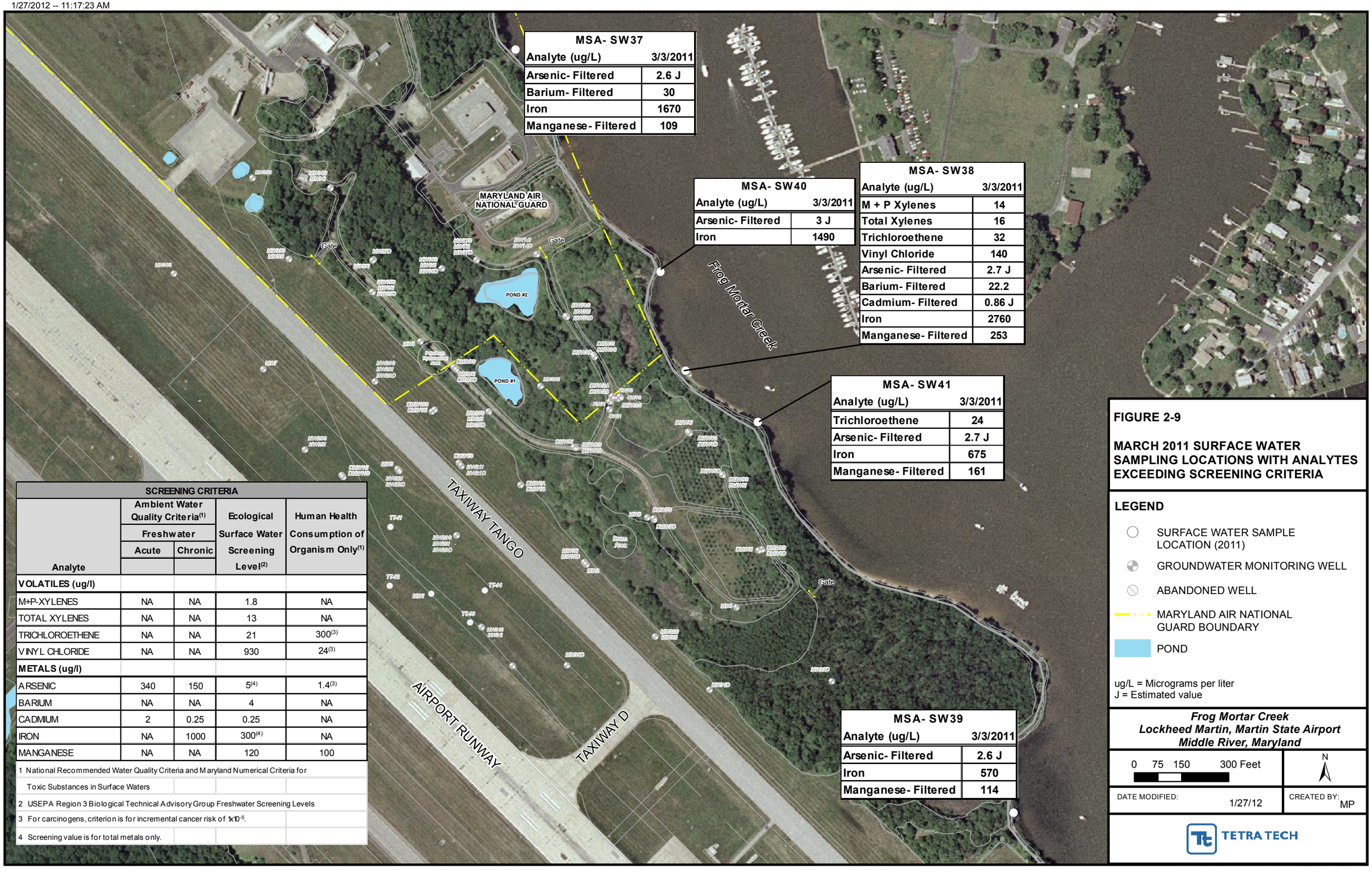
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DATE MODIFIED: 1/9/12

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

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

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

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

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

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

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

2 USEPA Region 3 Biological Technical Advisory Group Freshwater Screening Levels

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

4 Screening value is for total metals only.

FIGURE 2-9

MARCH 2011 SURFACE WATER SAMPLING LOCATIONS WITH ANALYTES EXCEEDING SCREENING CRITERIA

LEGEND

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

ug/L = Micrograms per liter
J = Estimated value

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

0 75 150 300 Feet

N

DATE MODIFIED: 1/27/12

CREATED BY: MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples June_Sept_Dec_2011.mxd)
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FIGURE 2-10

JUNE 2011 SURFACE WATER SAMPLING LOCATIONS

LEGEND

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

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

0 75 150 300 Feet

N

DATE MODIFIED: 1/4/12

CREATED BY: MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples August2011.mxd)
9/12/2011 -- 2:34:00 PM



FIGURE 2-11

AUGUST 2011 SURFACE WATER SAMPLING LOCATIONS

LEGEND

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

"A" 1 foot below surface
"B" 1 foot below surface and 1 foot above bottom
"C" 1 foot below surface, midpoint of water column, and 1 foot above bottom

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

0 75 150 300 Feet

N

DATE MODIFIED: 1/4/12

CREATED BY: MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples September and December2011.mxd)
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SW-37-C
SW-37-B
SW-37-A
SW-42-C
SW-42-B
SW-42-A
SW-40-C
SW-40-B
SW-40-A
SW-38-C
SW-38-B
SW-38-A
SW-41-C
SW-41-B
SW-41-A
SW-43-C
SW-43-B
SW-43-A
SW-44-C
SW-44-B
SW-44-A
SW-45-C
SW-45-B
SW-45-A
SW-39-C
SW-39-B
SW-39-A

MARYLAND AIR NATIONAL GUARD
Parkside Marina
Conrad's Ruth Villa
Frog Mortar Creek
POND #1
POND #2
Gate
Drum Area
TAXIWAY J
TAXIWAY TANGO
AIRPORT RUNWAY
TAXIWAY F
TAXIWAY D

FIGURE 2-12

SEPTEMBER AND DECEMBER 2011 SURFACE WATER SAMPLE LOCATIONS

LEGEND

- DECEMBER 2011 SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 4/27/12

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Section 3
Investigation Approach and Methodology

A review of the 2011 surface water sampling data for Frog Mortar Creek supported additional investigations to assess the extent to which surface water is affected by groundwater discharge from the Dump Road Area (DRA), and to evaluate chemical concentrations with respect to U.S. Environmental Protection Agency (USEPA) or Maryland Department of the Environment (MDE) screening levels and USEPA Ambient Water Quality Criteria (AWQC). Previously, in March and June 2011, site-related groundwater volatile organic compounds (VOCs) trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC) were detected in Frog Mortar Creek surface water samples at concentrations exceeding ecological and/or human health screening criteria. These VOCs were also detected in surface water samples collected from Frog Mortar Creek in August 2011 (the August samples were analyzed for VOCs only). The September and December samples were collected to provide more information regarding the concentration trends identified in previous sampling events.

This is the first of six surface water sampling rounds in 2012. Subsequent quarterly sampling rounds are scheduled for June, September, and December 2012. Additional sampling rounds will be conducted in July and August 2012, due to the increased amount of recreational water activity in the Middle River area during those months. These sampling episodes are part of an ongoing investigation to assess the effects of DRA groundwater contaminants on the water quality of Frog Mortar Creek. The March 2012 sampling locations are shown in Figure 3-1.

3.1 SURFACE WATER SAMPLING

3.1.1 Surface Water Sampling and Chemical Analyses

Forty surface water samples were collected from Frog Mortar Creek near the DRA site on March 20, 2012. Sampling locations are shown in Figure 3-1. Four samples were collected along each of nine transects, spaced approximately 350 feet apart along the western shoreline of Frog

Mortar Creek; these transects are designated as MSA-SW37, MSA-SW38, MSA-SW39, MSA-SW40, MSA-SW41, MSA-SW42, MSA-SW43, MSA-SW44, and MSA-SW45. Four samples were collected along a transect extending out from the eastern shoreline of the creek at 3301 Edwards Lane; this transect is designated EL-SW01 (see Figure 3-1). Along each transect, one sample was collected near the shoreline ("A" sample), one sample was collected approximately 50 feet from the shoreline ("B" sample), one was collected approximately 100 feet from the shoreline ("C" sample), and one was collected approximately 200 feet from the shoreline ("D" sample). Each sample was collected approximately one foot below the water surface.

Samples were analyzed for VOCs by SW846 Method 8260C; for metals (filtered in the laboratory) by SW846 Methods 6010C/7470A; and for hexavalent chromium (filtered in the field) by U.S. Environmental Protection Agency (USEPA) Method 218.6. Analytical parameters are in Table 3-1. Water quality parameters, including temperature, pH, specific conductance, hardness, salinity, turbidity, dissolved oxygen, and oxidation reduction potential, were measured at all surface water sampling locations on both sides of the creek at the time of sampling. In addition, the depth of water at the sampling location and the tidal stage at the time of sampling were recorded. All information was documented on sample log sheets (provided in Appendix A).

Surface water samples were collected as grab samples using direct fill sampling techniques. All samples were collected at a depth of approximately one foot below the water surface. The VOC samples were collected using a stainless steel discrete interval sampler (a "Bacon Bomb Sampler"). The sampler was lowered to approximately one foot below the water surface, the check valve was engaged to allow the sampler to fill, the sampler was brought to the surface, and the water was removed through a valve to fill three laboratory-cleaned, hydrochloric acid-preserved 40-milliliter (mL) sample vials. The discrete interval sampler was cleaned after each use by rinsing with distilled water. Equipment was cleaned after each sample was collected. No decontamination fluids were collected during this sampling event.

For metals samples, a pre-cleaned bottle containing no sample preservatives (e.g., no nitric acid for preserving metal samples, etc.) was submerged approximately one foot below the water surface and allowed to fill. Samples for hexavalent chromium were collected by a different method, using a peristaltic pump and Teflon® tubing, in accordance with USEPA guidance. The tubing inlet was set at the desired sampling depth (approximately one foot below the water

surface) and the tubing was connected to a peristaltic pump. The sample was drawn directly from the desired sampling depth through a disposable 0.45-micron filter and collected in an unpreserved bottle. Metals and hexavalent chromium samples were preserved with nitric acid to the appropriate pH level in the laboratory. Surface water sampling locations were surveyed in the Maryland State Plane North American Datum 1983 (feet) using a handheld global positioning system receiver.

The holding time for hexavalent chromium sample analysis is short: samples must be analyzed within 24 hours of collection. These samples must therefore be expedited to the laboratory so they can be analyzed within the prescribed holding time. Hexavalent chromium samples were collected late in the day and shipped overnight to allow the laboratory sufficient time for analyses. No duplicates were collected during the March 2012 investigation. A trip blank (one per cooler containing VOC samples) was submitted for VOC analysis for quality assurance/quality control purposes.

3.1.2 Documentation

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

3.1.3 Sample Nomenclature and Handling

Surface water samples were identified with a unique sample identification tag. Surface water samples were labeled with an "MSA-SW" prefix, followed by the sample number, the profile location ("A," "B," "C", or "D"), and the six-digit sampling date. For example, a surface water sample collected on March 20, 2012 from MSA-SW37A would be labeled as MSA-SW37A-032012. The trip blank was labeled with a "TB" prefix followed by the sample's six-digit submittal date (e.g., TB-032012).

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

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

3.1.4 Equipment Decontamination

This project required minimal equipment decontamination. The discrete interval sampler was cleaned after each use by rinsing with distilled water. Equipment was cleaned over the water after each sample had been collected. No decontamination fluids were collected during this sampling event. Both dedicated and disposable equipment were used for surface water sampling to reduce decontamination activities.

3.1.5 Waste Management

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

3.2 DATA MANAGEMENT

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

3.2.1 Data Tracking and Control

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

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

During field sampling, the field operations leader forwarded the COC to a designated project assistant (PA) and to the laboratory. The PA confirmed that the COC provided the information required by the work plan. This allowed for early detection of errors made in the field so that adjustments could be made before sample analyses. After successful completion of all requested analyses, the laboratory submitted an electronic deliverable for each sample delivery group. When all electronic deliverables had been received from the laboratory, the PA checked the laboratory submittal to determine whether the laboratory had performed all analyses requested. All requested analyses were performed for this project.

3.2.2 Sample Information

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

3.2.3 Project Data Compilation

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

3.2.4 Geographic Information System

Data management systems for this investigation consist of a relational database and geographic information system (GIS) to manage environmental information pertaining to Martin State Airport (MSA). The relational database stores chemical, geological, hydrogeologic, and other environmental data collected during environmental investigations. The GIS is created from the

relational database and contains subsets of the larger data pool. The GIS allows environmental data to be posted onto base maps to graphically represent project information. Compiled sampling, chemical, and positional data were incorporated into the GIS.

3.3 DATA REVIEW

Data from the laboratory were entered into a sample database and evaluated against risk-based criteria. Data validation (to evaluate data completeness, holding times, calibrations, precision, accuracy, laboratory and field blank contamination, and detection limits) was completed concurrent with the data evaluation. These reviews were based on the *USEPA Region III Modifications to the National Functional Guidelines for Data Review* (USEPA, 1993 and 1994) and the specifics of the analytical methods used. Data from this sampling event consist of surface water sample chemical results. Data validation reports and COC are in Appendix B (on compact disc) as PDF files. Appendix C presents a table of all March 2012 Frog Mortar Creek surface water sample analytical data, including non-detects.

Collectively, these data are acceptable for their intended uses (site characterization and risk assessment), except for data qualified as unreliable. For this validation, the data qualifiers (i.e., flags) listed below were applied to the chemical results presented in this report. These flags appear on the chemical-results tables in Section 4 and in Appendix C.

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

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

L Positive result is considered estimated biased low.

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

UR The result is considered qualitatively or quantitatively unreliable.

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

Occasionally, common laboratory or field contaminants may be detected in samples. Analysis of quality control blanks and other internal laboratory blanks (e.g., method blanks, etc.) determines the significance of the analytical results versus possible laboratory or field contaminants.

Common laboratory contaminants associated with VOCs analyses include acetone, methylene chloride, and 2-butanone.

The *National Functional Guidelines* for contract laboratories requires that any compound, other than common laboratory contaminants, detected in both the sample and an associated blank must be qualified (i.e., "*B*" flag) when the sample concentration is less than five times the blank concentration. For the common laboratory contaminants listed above, results were qualified with a "*B*" flag when the sample concentration was less than 10 times the blank concentration. In addition to the common laboratory contaminants listed above, several common metals were also reported in the blank. Qualified data results are included in the chemical tables and figures in Section 4, and in Appendices B and C.

TABLE 3-1

CHEMICAL ANALYSES FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

	Analyses Performed		
Containter(s): Preservative: Sample ID	VOCs (USEPA 8260B) 3x40 ml glass vials HCl	Dissolved Metals (USEPA 6020/7470A) 500 ml plastic HNO_3	Hexavalent Chromium (USEPA 218.6) 250 ml plastic None
MSA-SW37A	X	X	X
MSA-SW37B	X	X	X
MSA-SW37C	X	X	X
MSA-SW37D	X	X	X
MSA-SW38A	X	X	X
MSA-SW38B	X	X	X
MSA-SW38C	X	X	X
MSA-SW38D	X	X	X
MSA-SW39A	X	X	X
MSA-SW39B	X	X	X
MSA-SW39C	X	X	X
MSA-SW39D	X	X	X
MSA-SW40A	X	X	X
MSA-SW40B	X	X	X
MSA-SW40C	X	X	X
MSA-SW40D	X	X	X
MSA-SW41A	X	X	X
MSA-SW41B	X	X	X
MSA-SW41C	X	X	X
MSA-SW41D	X	X	X
MSA-SW42A	X	X	X
MSA-SW42B	X	X	X
MSA-SW42C	X	X	X
MSA-SW42D	X	X	X
MSA-SW43A	X	X	X
MSA-SW43B	X	X	X
MSA-SW43C	X	X	X
MSA-SW43D	X	X	X
MSA-SW44A	X	X	X
MSA-SW44B	X	X	X
MSA-SW44C	X	X	X
MSA-SW44D	X	X	X
MSA-SW45A	X	X	X
MSA-SW45B	X	X	X
MSA-SW45C	X	X	X
MSA-SW45D	X	X	X
EL-SW01A	X	X	X
EL-SW01B	X	X	X
EL-SW01C	X	X	X
EL-SW01D	X	X	X

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

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples March2012.mxd)
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FIGURE 3-1

MARCH 2012 SURFACE WATER SAMPLING LOCATIONS

LEGEND

- MARCH 2012 SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

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

0 75 150 300 Feet

N

DATE MODIFIED: 4/18/12

CREATED BY: MP

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Section 4
Results

4.1 SURFACE WATER DATA AND SCREENING CRITERIA

Validated surface water chemical data from the surface water samples collected in March 2012 were used to generate a statistical summary table (Table 4-1) and a table summarizing positive detections of chemical analytes (Table 4-2). Samples were analyzed for volatile organic compounds (VOCs), dissolved (i.e., filtered) metals, and hexavalent chromium. Table 4-2, compares surface water sampling results to several applicable screening criteria, including:

- U.S. Environmental Protection Agency (USEPA) Region III Biological Technical Advisory Group (BTAG) Freshwater Screening Benchmarks (USEPA, 2006),
- USEPA National Recommended Water Quality Criteria (NRWQC) for acute and chronic aquatic organism exposures, and NRWQC for human health aquatic organism consumption (USEPA, 2009), and
- State of Maryland Ambient Water Quality Criteria (AWQC) for acute and chronic aquatic organism exposures, and AWQC for human health aquatic-organism consumption (*Code of Maryland Regulations*, 2011).

The NRWQC, AWQC, and most BTAG screening levels for metals represent concentrations of dissolved metals in the water column; therefore, dissolved metals criteria are used to screen against these results. Conversely, the BTAG screening levels for arsenic, iron, mercury, selenium, and thallium are based on the total metals concentration in the water column; therefore, the total metal results for these five metals are used to screen against the BTAG criteria. The NRWQC screening values for select dissolved metals (chromium, copper, lead, nickel, and zinc) were adjusted for hardness based on using a site-specific value of 260 mg/L (the standard default value is standard 100 mg/L).

Gray shading in Table 4-2 indicates a result that exceeds only one surface water screening criterion, and black shading indicates a result that exceeds more than one criterion. Figures 4-1 through 4-3 show the concentrations of trichloroethene (TCE), *cis*-1,2-dichloroethene

(*cis*-1,2-DCE), and vinyl chloride (VC) detected in March 2012 Frog Mortar Creek samples. Appendix C presents the March 2012 analytical data, including non-detect results.

4.2 SURFACE WATER SAMPLING RESULTS

As shown in Tables 4-1 and 4-2, several VOCs and metals were detected in surface water samples. Hexavalent chromium was detected in all 40 samples collected; however, the detected concentrations were all low values, well below screening criteria.

4.2.1 Volatile Organic Compounds

The most frequently detected chlorinated VOCs (cVOCs) in the March 2012 samples include trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC); these three analytes are also the primary cVOCs detected in the Dump Road Area (DRA) groundwater plume. Other VOCs detected with limited occurrence (i.e., in only one or two samples) include acetone, carbon disulfide, chlorobenzene, 1,1-dichloroethene, 1,4-dichlorobenzene, trans-1,2-dichloroethene, and the petroleum-related compounds toluene, ethylbenzene, and xylenes.

Results for TCE, *cis*-1,2-DCE, and VC are shown in Figures 4-1 through 4-3, respectively. As shown in Figure 4-1, TCE was detected in all 40 samples at low concentrations, ranging from 0.49 to 21.0 micrograms per liter (µg/L). As shown in Figure 4-2, cis-1,2-DCE was detected in all 40 samples, at concentrations ranging from 0.41-39 µg/L. Vinyl chloride was detected less frequently (in 34 of 40 samples), at concentrations ranging from 0.24 to 40 µg/L (Figure 4-3). Table 4-2 includes all positively detected surface water concentrations. All cVOC concentrations shown in Table 4-2 are less than their respective screening criteria, with one exception: the vinyl chloride concentration in sample MSA-SW40A (40 µg/L) exceeds its USEPA NRWQC screening criterion for human health consumption of organisms (24 µg/L).

Toluene, a component of petroleum fuels and a site groundwater contaminant, was detected in one sample (MSA-SW40A) at a concentration of 0.71J µg/L. Benzene was not detected in any of the samples. Ethylbenzene and xylenes were both detected in sample MSA-SW40A (near the shore), and xylenes were also detected in MSA-SW40B (50 feet from the shore), but neither was detected in the samples collected 100 feet and 200 feet from shore along this transect. Xylenes were detected in two samples (MSA-SW42A and MSA-SW42B) at estimated concentrations of

0.25J µg/L and 1.0J µg/L, respectively. Acetone was detected in three samples (1.3 µg/L to 2.7J µg/L), and carbon disulfide was detected in two samples (0.4 µg/L and 0.48 µg/L). Acetone is a common laboratory contaminant, and is not a constituent of the DRA VOC plume.

Concentrations of TCE were highest in samples MSA-SW40A and MSA-SW40B (11 µg/L and 21 µg/L, respectively). MSA-SW40 is northeast to east, and slightly hydraulically side-gradient of, the DRA monitoring wells that contain some of the highest concentrations of site-related constituents groundwater (e.g., wells DMW2S, DMW2A, DMW3I). Lower TCE concentrations were detected in samples MSA-SW40C and MSA-SW40D (4.1 µg/L and 1.7 µg/L, respectively), collected farther from shore, but along the same transect. TCE concentrations were mostly below the screening criterion of 5 µg/L throughout the other sampling locations, except for slightly elevated concentrations detected in MSA-SW38A, MSA-SW41A, and MSA-SW42B (7.9 µg/L, 6.2 µg/L, and 10 µg/L, respectively). These samples are from locations both north and south of transect MSA-SW40. TCE was detected at low levels in the Edwards Lane transect, originating from the east bank of the creek, as follows: EL-SW01A (1.0 µg/L), EL-SW01B (1.1 µg/L), EL-SW01-C (1.4 µg/L), and EL-SW01D (1.6 µg/L). These TCE results are consistent with the TCE concentrations detected in samples collected at this location in January 2012.

Generally, TCE concentrations decrease progressively in samples collected north and south of transect MSA-SW40 (see Figure 4-1). Along sampling transects MSA-SW37, MSA-SW42, MSA-SW40, MSA-SW43, MSA-SW44, and MSA-SW-45 TCE concentrations were highest in sampling locations approximately 50 feet from the shoreline and decrease progressively in samples collected farther from the shoreline. Along sampling transects MSA-SW38 and MSA-SW41, the highest concentration was detected in the sample collected closest to the shoreline. TCE concentrations are relatively consistent along each of the other sampling transects. Compared to the concentrations detected during the December 2011 event, the March 2012 TCE concentrations have decreased in transects MSA-SW38 and MSA-SW41, and have increased in transect MSA-SW40.

As shown in Figure 4-2, the two highest *cis*-1,2-DCE concentrations (39 µg/L and 18 µg/L) were detected at MSA-SW40A and MSA-SW41A, respectively. In December 2011, the highest detected concentration of *cis*-1,2-DCE was detected at MSA-SW38A (21 µg/L), between transects MSA-SW40 and MSA-SW41. Concentrations of *cis*-1,2-DCE typically decrease north of transect

MSA-SW40 and south of transect MSA-SW41, except for one slightly elevated concentration detected at MSA-SW37A (10 µg/L). The *cis*-1,2-DCE concentrations typically decrease with increasing distance from the shoreline; the highest detected *cis*-1,2-DCE concentration in four transects, MSA-SW42, MSA-SW43, MSA-SW44, and MSA-SW45, was found in samples collected 50 feet from the shoreline. In transect EL-SW01, along the eastern shoreline, *cis*-1,2-DCE concentrations were similar in all four samples (range is 0.9J µg/L to 1.4 µg/L).

The concentration of *cis*-1,2-DCE in the near-shore samples in transect MSA-SW40 increased significantly in March 2012 (39 µg/L) as compared to the concentrations detected in December 2011 (7.5 µg/L). In transect MSA-SW38, the near-shore concentration of *cis*-1,2-DCE decreased from 21 µg/L (December 2011) to 5.4 µg/L (March 2012). Sample concentrations of *cis*-1,2-DCE remained consistent between December 2011 and March 2012 in the near-shore samples in transect MSA-SW41 (18 µg/L). In the other transects, the March 2012 concentrations of *cis*-1,2-DCE were generally slightly elevated compared to the December 2011 concentrations, with the largest increase (from 0.76*J* µg/L to 10 µg/L) at sampling location MSA-SW37A.

As shown in Figure 4-3, vinyl chloride shows spatial distributions and trends similar to TCE and *cis*-1,2-DCE. Relatively consistent with the pattern of cVOC detection seen in past rounds, and similar to TCE and cis-1,2-DCE in this round, the maximum vinyl chloride concentration (40 µg/L) was detected at sampling location MSA-SW40A. During the December 2011 sampling event, the highest vinyl chloride concentration was detected at MSA-SW38A (14 µg/L). Vinyl chloride was detected at slightly higher concentrations during the current sampling event in the sampling transects north of the highest concentration area (MSA-SW42 and MSA-SW37, both north of MSA-SW40) than it was in the samples collected farther south (MSA-SW38, MSA-SW41, MSA-SW43, MSA-SW44, MSA-SW45, and MSA-SW39). The highest VC concentrations were detected at five of the 10 transects (MSA-SW41, MSA-SW42, MSA-SW43, MSA-SW44, and MSA-SW45) in the samples collected 50 feet offshore.

VC concentrations decrease with increasing distance from the shoreline at three other transects (MSA-SW37, MSA-SW38 and MSA-SW40). At transects MSA-SW39 and EL-SW01, VC was not detected in the two locations closest to shore. At transect MSA-SW39, VC was detected in trace concentrations in the samples collected 100 feet and 200 feet offshore (range 0.24*J* µg/L to 1.1 µg/L).

4.2.2 Metals

During the March 2012 sampling event, dissolved arsenic was detected in two samples (MSA-SW42A and MSA-SW42C) at a concentration (1.5 µg/L) slightly above the human health risk-screening criterion of 1.4 µg/L. In December 2011, dissolved arsenic was detected in all samples at concentrations above the human health screening criteria, but less than the ecological and AWQC criteria, with detections ranging from 1.6 µg/L to 2.4 µg/L. Dissolved barium concentrations (ranging from 25 µg/L to 27 µg/L) exceeded the BTAG ecological screening level (4 µg/L) in all samples. No other metals exceedances were detected in the March 2012 samples.

4.2.3 Hexavalent Chromium

During the March 2012 sampling event, dissolved hexavalent chromium was detected in all samples, but at trace concentrations well below the screening criteria (range is 0.054 µg/L to 0.092 µg/L). All concentrations of hexavalent chromium detected in the March 2012 sampling episode are *L*-qualified, indicating the results are biased low. Hexavalent chromium (total) was detected in all samples collected during the December 2011 sampling event, with the maximum concentration (5.21 µg/L) detected at MSA-SW41B.

TABLE 4-1
STATISTICAL SUMMARY OF ANALYTES DETECTED IN FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

Chemical	Frequency of Detection[1,2]		Mininum Non Detected	Maximum Non Detected	Mininum Detected		Maximum Detected		Sample of Maximum Detected	Mean of All Samples	Mean of Positive Detects	Standard Deviation
	Number	Percent										
VOLATILES (ug/l)												
CIS-1,2-DICHLOROETHENE	40/40	100%	-	-	0.41	J	39		MSA-SW40A-032012	4.268	4.268	6.530
TRICHLOROETHENE	40/40	100%	-	-	0.49	J	21		MSA-SW40B-032012	3.551	3.551	3.643
VINYL CHLORIDE	34/40	85%	0.22	0.22	0.24	J	40		MSA-SW40A-032012	2.194	2.562	6.310
TRANS-1,2-DICHLOROETHENE	10/40	25%	0.19	0.19	0.19	J	0.82	J	MSA-SW41A-032012	0.171	0.399	0.174
M+P-XYLENES	4/40	10%	0.24	0.24	0.25	J	11		MSA-SW40A-032012	0.423	3.148	1.720
ACETONE	3/40	7.5%	1.1	1.1	1.3	J	2.7	J	MSA-SW44A-032012	0.659	2.000	0.418
TOTAL XYLENES	3/40	7.5%	0.28	0.28	0.48	J	13		MSA-SW40A-032012	0.492	4.827	2.034
1,1-DICHLOROETHENE	2/40	5%	0.19	0.19	0.38	J	0.39	J	MSA-SW40A-032012	0.110	0.385	0.064
CARBON DISULFIDE	2/40	5%	0.13	0.13	0.4	J	0.48	J	MSA-SW39A-032012	0.084	0.440	0.083
O-XYLENE	2/40	5%	0.14	0.14	0.15	J	1.9		MSA-SW40A-032012	0.118	1.025	0.289
1,4-DICHLOROBENZENE	1/40	2.5%	0.13	0.13	1.6		1.6		MSA-SW40A-032012	0.103	1.600	0.243
CHLOROBENZENE	1/40	2.5%	0.15	0.15	0.28	J	0.28	J	MSA-SW37A-032012	0.080	0.280	0.032
ETHYLBENZENE	1/40	2.5%	0.17	0.17	1.4		1.4		MSA-SW40A-032012	0.118	1.400	0.208
TOLUENE	1/40	2.5%	0.13	0.13	0.71	J	0.71	J	MSA-SW40A-032012	0.081	0.710	0.102
FILTERED METALS (ug/l)												
ARSENIC	40/40	100%	-	-	0.97	J	1.5	J	MSA-SW42A-032012, MSA-SW42C-032012	1.196	1.196	0.125
BARIUM	40/40	100%	-	-	25		27		MSA-SW38B-032012	25.550	25.550	0.552
COPPER	40/40	100%	-	-	2.7		4		EL-SW01D-032012	3.345	3.345	0.280
NICKEL	40/40	100%	-	-	1.4	J	6.2		MSA-SW44A-032012	2.080	2.080	0.975
ZINC	22/40	55%	4	18	6.2	J	23		MSA-SW41D-032012	8.678	10.995	4.217
VANADIUM	9/40	22.5%	0.44	0.44	0.45	J	0.59	J	EL-SW01C-032012	0.282	0.493	0.118
COBALT	4/40	10%	0.083	0.74	1		3		MSA-SW44A-032012	0.325	2.175	0.673
CHROMIUM	3/40	7.5%	0.71	0.71	0.73	J	1.2	J	MSA-SW40C-032012	0.402	0.977	0.174
SELENIUM	3/40	7.5%	0.57	0.57	0.6	J	0.74	J	MSA-SW37A-032012	0.315	0.680	0.107
BERYLLIUM	2/40	5%	0.2	0.2	0.23	J	0.37	J	MSA-SW42A-032012	0.110	0.300	0.047
LEAD	1/40	2.5%	0.18	0.18	0.2	J	0.2	J	MSA-SW42C-032012	0.093	0.200	0.017

TABLE 4-1
STATISTICAL SUMMARY OF ANALYTES DETECTED IN FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

Chemical	Frequency of Detection[1]		Mininum Non Detected	Maximum Non Detected	Mininum Detected		Maximum Detected		Sample of Maximum Detected	Mean of All Samples	Mean of Positive Detects	Standard Deviation
	Number	Percent										
MISCELLANEOUS PARAMETERS (ug/l)												
HEXAVALENT CHROMIUM	40/40	100%	-	-	0.054	L	0.092	L	MSA-SW41D-032012	0.073	0.073	0.007

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

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

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

J - estimated result

L - result is liased low

Associated Samples

EL-SW01A-032012	MSA-SW39B-032012	MSA-SW42C-032012	MSA-SW45D-032012
EL-SW01B-032012	MSA-SW39C-032012	MSA-SW42D-032012	
EL-SW01C-032012	MSA-SW39D-032012	MSA-SW43A-032012	
EL-SW01D-032012	MSA-SW40A-032012	MSA-SW43B-032012	
MSA-SW37A-032012	MSA-SW40B-032012	MSA-SW43C-032012	
MSA-SW37B-032012	MSA-SW40C-032012	MSA-SW43D-032012	
MSA-SW37C-032012	MSA-SW40D-032012	MSA-SW44A-032012	
MSA-SW37D-032012	MSA-SW41A-032012	MSA-SW44B-032012	
MSA-SW38A-032012	MSA-SW41B-032012	MSA-SW44C-032012	
MSA-SW38B-032012	MSA-SW41C-032012	MSA-SW44D-032012	
MSA-SW38C-032012	MSA-SW41D-032012	MSA-SW45A-032012	
MSA-SW38D-032012	MSA-SW42A-032012	MSA-SW45B-032012	
MSA-SW39A-032012	MSA-SW42B-032012	MSA-SW45C-032012	

TABLE 4-2
CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES- MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID: / LABORATORY ID / SAMPLE DATE / LOCATION	National Recommended and Ambient Water Quality Criteria[1] Freshwater Acute	National Recommended and Ambient Water Quality Criteria[1] Freshwater Chronic	Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only[1]	EL-SW01A-032012 240-9383-37 3/20/2012 EL-SW01A	EL-SW01B-032012 240-9383-38 3/20/2012 EL-SW01B	EL-SW01C-032012 240-9383-39 3/20/2012 EL-SW01C
VOLATILES (ug/l)							
1,1-DICHLOROETHENE	NA	NA	25	7100	--	--	--
1,4-DICHLOROBENZENE	NA	NA	26	190	--	--	--
ACETONE	NA	NA	1500	NA	--	--	--
CARBON DISULFIDE	NA	NA	0.92	NA	--	--	--
CHLOROBENZENE	NA	NA	1.3	1600	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	0.9 J	1	1.2
ETHYLBENZENE	NA	NA	90	2100	--	--	--
M+P-XYLENES	NA	NA	NA	NA	--	--	--
O-XYLENE	NA	NA	NA	NA	--	--	--
TOLUENE	NA	NA	2	15000	--	--	--
TOTAL XYLENES	NA	NA	13	NA	--	--	--
TRANS-1,2-DICHLOROETHENE	NA	NA	970	10000	--	--	--
TRICHLOROETHENE	NA	NA	21	300[3]	1	1.1	1.4
VINYL CHLORIDE	NA	NA	930	24[3]	--	--	0.33 J
FILTERED METALS (ug/l)							
ARSENIC	340	150	5	1.4[3]	1.1 J	1.2 J	1.1 J
BARIUM	NA	NA	4	NA	26	26	26
BERYLLIUM	NA	NA	0.66	NA	--	--	--
CHROMIUM	1246[5]	162[5]	74	NA	--	--	--
COBALT	NA	NA	23	NA	0.1 B	0.11 B	0.096 B
COPPER	33.06[5]	20[5]	9	NA	3.5	3.6	3.6
LEAD	179.6[5]	7[5]	2.5	NA	--	--	--
NICKEL	1051[5]	117[5]	52	4600	1.7 J	2.5	1.6 J
SELENIUM	NA	5	1	4200	--	--	--
VANADIUM	NA	NA	20	NA	--	0.49 J	0.59 J
ZINC	263.3[5]	265[5]	120	26000	8.9 J	9 J	9.1 J
MISCELLANEOUS PARAMETERS (ug/l)							
HEXAVALENT CHROMIUM[4]	16	11	11	NA	0.077 L	0.08 L	0.077 L

TABLE 4-2
CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES- MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	EL-SW01D-032012	MSA-SW37A-032012	MSA-SW37B-032012	MSA-SW37C-032012	MSA-SW37D-032012	MSA-SW38A-032012
LABORATORY ID	240-9383-40	240-9383-1	240-9383-2	240-9383-3	240-9383-4	240-9383-5
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	EL-SW01D	MSA-SW-37A	MSA-SW-37B	MSA-SW-37C	MSA-SW-37D	MSA-SW-38A
VOLATILES (ug/l)						
1,1-DICHLOROETHENE	--	0.38 J	--	--	--	--
1,4-DICHLOROBENZENE	--	--	--	--	--	--
ACETONE	--	--	--	--	--	--
CARBON DISULFIDE	--	--	--	--	--	--
CHLOROBENZENE	--	0.28 J	--	--	--	--
CIS-1,2-DICHLOROETHENE	1.4	10	4.3	2	0.84 J	5.4
ETHYLBENZENE	--	--	--	--	--	--
M+P-XYLENES	--	--	--	--	--	--
O-XYLENE	--	--	--	--	--	--
TOLUENE	--	--	--	--	--	--
TOTAL XYLENES	--	--	--	--	--	--
TRANS-1,2-DICHLOROETHENE	--	--	--	--	--	0.23 J
TRICHLOROETHENE	1.6	2.3	3	1.9	1.3	7.9
VINYL CHLORIDE	0.4 J	8.6	2.4	0.7	0.27 J	1.6
FILTERED METALS (ug/l)						
ARSENIC	1.2 J	1.3 J	1.3 J	1.3 J	1.2 J	1.3 J
BARIUM	26	25	25	25	25	25
BERYLLIUM	--	--	--	--	--	--
CHROMIUM	--	--	1 J	--	--	--
COBALT	0.097 B	0.49 B	0.25 B	0.15 B	0.15 B	0.71 B
COPPER	4	3.4	3.7	3.5	3.6	3.5
LEAD	--	--	--	--	--	--
NICKEL	1.6 J	1.6 J	2.7	1.8 J	1.7 J	2.3
SELENIUM	--	0.74 J	--	--	--	--
VANADIUM	--	--	--	0.51 J	--	0.47 J
ZINC	11 J	11 B	12 B	10 B	12 B	21
MISCELLANEOUS PARAMETERS (ug/l)						
HEXAVALENT CHROMIUM[4]	0.077 L	0.054 L	0.068 L	0.066 L	0.074 L	0.077 L

TABLE 4-2
CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES- MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW38B-032012	MSA-SW38C-032012	MSA-SW38D-032012	MSA-SW39A-032012	MSA-SW39B-032012	MSA-SW39C-032012
LABORATORY ID	240-9383-6	240-9383-7	240-9383-8	240-9383-9	240-9383-10	240-9383-11
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-38B	MSA-SW-38C	MSA-SW-38D	MSA-SW-39A	MSA-SW-39B	MSA-SW-39C
VOLATILES (ug/l)						
1,1-DICHLOROETHENE	--	--	--	--	--	--
1,4-DICHLOROBENZENE	--	--	--	--	--	--
ACETONE	--	--	--	--	--	--
CARBON DISULFIDE	--	--	--	0.48 J	--	--
CHLOROBENZENE	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	3.1	1.8	1.1	0.42 J	0.41 J	0.72 J
ETHYLBENZENE	--	--	--	--	--	--
M+P-XYLENES	--	--	--	--	--	--
O-XYLENE	--	--	--	--	--	--
TOLUENE	--	--	--	--	--	--
TOTAL XYLENES	--	--	--	--	--	--
TRANS-1,2-DICHLOROETHENE	--	--	--	--	--	--
TRICHLOROETHENE	3.9	2.4	1.7	0.59 J	0.49 J	0.94 J
VINYL CHLORIDE	1.3	0.63	0.34 J	--	--	0.24 J
FILTERED METALS (ug/l)						
ARSENIC	1.1 J	1.3 J	1.3 J	1.1 J	1.2 J	1.2 J
BARIUM	27	25	26	26	25	25
BERYLLIUM	--	--	--	--	--	--
CHROMIUM	--	--	--	--	0.73 J	--
COBALT	0.3 B	0.18 B	0.12 B	0.11 B	0.12 B	0.11 B
COPPER	3.4	3.3	3.4	2.7	3.4	2.7
LEAD	--	--	--	--	--	--
NICKEL	1.9 J	1.8 J	1.7 J	1.4 J	2.2	1.4 J
SELENIUM	--	--	--	--	--	--
VANADIUM	--	--	--	--	--	--
ZINC	9.7 B	14 B	11 B	4 B	7.8 B	12 B
MISCELLANEOUS PARAMETERS (ug/l)						
HEXAVALENT CHROMIUM[4]	0.072 L	0.069 L	0.072 L	0.091 L	0.078 L	0.083 L

TABLE 4-2
CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES- MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW39D-032012	MSA-SW40A-032012	MSA-SW40B-032012	MSA-SW40C-032012	MSA-SW40D-032012	MSA-SW41A-032012
LABORATORY ID	240-9383-12	240-9383-13	240-9383-14	240-9383-15	240-9383-16	240-9383-17
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-39D	MSA-SW-40A	MSA-SW-40B	MSA-SW-40C	MSA-SW-40D	MSA-SW-41A
VOLATILES (ug/l)						
1,1-DICHLOROETHENE	--	0.39 J	--	--	--	--
1,4-DICHLOROBENZENE	--	1.6	--	--	--	--
ACETONE	--	--	--	--	--	--
CARBON DISULFIDE	--	--	--	--	--	--
CHLOROBENZENE	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	2.9	39	8.1	5.1	1.2	18
ETHYLBENZENE	--	1.4	--	--	--	--
M+P-XYLENES	--	11	0.48 J	--	--	--
O-XYLENE	--	1.9	--	--	--	--
TOLUENE	--	0.71 J	--	--	--	--
TOTAL XYLENES	--	13	0.48 J	--	--	--
TRANS-1,2-DICHLOROETHENE	--	0.77 J	0.38 J	--	--	0.82 J
TRICHLOROETHENE	4.2	11	21	4.1	1.7	6.2
VINYL CHLORIDE	1.1	40	2.3	2.4	0.35 J	1.2
FILTERED METALS (ug/l)						
ARSENIC	0.98 J	1.2 J	1.1 J	1.3 J	1.2 J	1.1 J
BARIUM	25	26	26	26	26	25
BERYLLIUM	--	--	--	--	--	--
CHROMIUM	--	--	--	1.2 J	--	--
COBALT	0.2 B	1	0.74 B	0.36 B	0.13 B	2.6
COPPER	3.3	3.3	3.2	3.2	3.3	3.4
LEAD	--	--	--	--	--	--
NICKEL	1.7 J	2.1	2.1	2.1	1.7 J	5
SELENIUM	--	--	--	--	--	--
VANADIUM	--	--	--	--	--	--
ZINC	10 B	18 B	15 B	10 B	9.9 B	18 B
MISCELLANEOUS PARAMETERS (ug/l)						
HEXAVALENT CHROMIUM[4]	0.076 L	0.059 L	0.074 L	0.071 L	0.081 L	0.071 L

TABLE 4-2
CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES- MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW41B-032012	MSA-SW41C-032012	MSA-SW41D-032012	MSA-SW42A-032012	MSA-SW42B-032012	MSA-SW42C-032012
LABORATORY ID	240-9383-18	240-9383-19	240-9383-20	240-9383-21	240-9383-22	240-9383-23
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-41B	MSA-SW-41C	MSA-SW-41D	MSA-SW-42A	MSA-SW-42B	MSA-SW-42C
VOLATILES (ug/l)						
1,1-DICHLOROETHENE	--	--	--	--	--	--
1,4-DICHLOROBENZENE	--	--	--	--	--	--
ACETONE	--	--	--	--	--	--
CARBON DISULFIDE	--	--	--	0.4 J	--	--
CHLOROBENZENE	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	5.1	3.3	1.5	7.4	8.7	3.3
ETHYLBENZENE	--	--	--	--	--	--
M+P-XYLENES	--	--	--	0.25 J	0.86 J	--
O-XYLENE	--	--	--	--	0.15 J	--
TOLUENE	--	--	--	--	--	--
TOTAL XYLENES	--	--	--	--	1 J	--
TRANS-1,2-DICHLOROETHENE	--	--	--	0.53 J	0.22 J	--
TRICHLOROETHENE	4.9	3.3	1.7	4	10	3.1
VINYL CHLORIDE	1.5	1.4	0.43 J	3.2	4.2	1.4
FILTERED METALS (ug/l)						
ARSENIC	1 J	1.2 J	1.1 J	1.5 J	1.3 J	1.5 J
BARIUM	25	26	26	25	25	25
BERYLLIUM	--	--	--	0.37 J	0.23 J	--
CHROMIUM	--	--	--	--	--	--
COBALT	0.35 B	0.3 B	0.13 B	0.31 B	0.48 B	0.31 B
COPPER	3.2	3.3	3.9	3.1	2.9	3.5
LEAD	--	--	--	--	--	0.2 J
NICKEL	2	1.8 J	1.7 J	1.7 J	1.8 J	1.9 J
SELENIUM	--	--	--	0.7 J	0.6 J	--
VANADIUM	0.48 J	--	0.45 J	--	--	--
ZINC	15 B	11 B	23	6.5 J	12 J	9.8 J
MISCELLANEOUS PARAMETERS (ug/l)						
HEXAVALENT CHROMIUM[4]	0.072 L	0.065 L	0.092 L	0.07 L	0.072 L	0.07 L

TABLE 4-2
CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES- MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW42D-032012	MSA-SW43A-032012	MSA-SW43B-032012	MSA-SW43C-032012	MSA-SW43D-032012	MSA-SW44A-032012
LABORATORY ID	240-9383-24	240-9383-25	240-9383-26	240-9383-27	240-9383-28	240-9383-29
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-42D	MSA-SW-43A	MSA-SW-43B	MSA-SW-43C	MSA-SW-43D	MSA-SW-44A
VOLATILES (ug/l)						
1,1-DICHLOROETHENE	--	--	--	--	--	--
1,4-DICHLOROBENZENE	--	--	--	--	--	--
ACETONE	--	1.3 J	--	--	--	2.7 J
CARBON DISULFIDE	--	--	--	--	--	--
CHLOROBENZENE	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	2.6	2.1	3.7	3.4	2.8	1.6
ETHYLBENZENE	--	--	--	--	--	--
M+P-XYLENES	--	--	--	--	--	--
O-XYLENE	--	--	--	--	--	--
TOLUENE	--	--	--	--	--	--
TOTAL XYLENES	--	--	--	--	--	--
TRANS-1,2-DICHLOROETHENE	--	0.27 J	0.19 J	--	--	0.24 J
TRICHLOROETHENE	2.4	2.6	3.7	3.5	2.9	2.1
VINYL CHLORIDE	1.3	0.53	1.2	1.2	1.1	--
FILTERED METALS (ug/l)						
ARSENIC	1.4 J	1.1 J	1.2 J	1.2 J	1.2 J	0.97 J
BARIUM	26	25	26	26	26	26
BERYLLIUM	--	--	--	--	--	--
CHROMIUM	--	--	--	--	--	--
COBALT	0.21 B	2.1	0.39 B	0.22 B	0.19 B	3
COPPER	3.2	3.8	3	3.3	3.2	3.6
LEAD	--	--	--	--	--	--
NICKEL	1.7 J	4.6	1.9 J	1.8 J	1.7 J	6.2
SELENIUM	--	--	--	--	--	--
VANADIUM	0.45 J	--	--	--	--	--
ZINC	11 J	13 J	12 J	13 J	9.7 J	15 J
MISCELLANEOUS PARAMETERS (ug/l)						
HEXAVALENT CHROMIUM[4]	0.075 L	0.062 L	0.066 L	0.067 L	0.071 L	0.073 L

TABLE 4-2
CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES- MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW44B-032012	MSA-SW44C-032012	MSA-SW44D-032012	MSA-SW45A-032012	MSA-SW45B-032012	MSA-SW45C-032012	MSA-SW45D-032012
LABORATORY ID	240-9383-30	240-9383-31	240-9383-32	240-9383-33	240-9383-34	240-9383-35	240-9383-36
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-44B	MSA-SW-44C	MSA-SW-44D	MSA-SW-45A	MSA-SW-45B	MSA-SW-45C	MSA-SW-45D
VOLATILES (ug/l)							
1,1-DICHLOROETHENE	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	--	--	--	--	--	--	--
ACETONE	--	--	--	2 J	--	--	--
CARBON DISULFIDE	--	--	--	--	--	--	--
CHLOROBENZENE	--	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	3.3	3.2	2.9	2.6	2.8	0.9 J	0.63 J
ETHYLBENZENE	--	--	--	--	--	--	--
M+P-XYLENES	--	--	--	--	--	--	--
O-XYLENE	--	--	--	--	--	--	--
TOLUENE	--	--	--	--	--	--	--
TOTAL XYLENES	--	--	--	--	--	--	--
TRANS-1,2-DICHLOROETHENE	--	--	--	0.34 J	--	--	--
TRICHLOROETHENE	3.5	3.3	3.1	3.2	3.3	1	0.71 J
VINYL CHLORIDE	1.4	1.2	1.1	0.62	0.91	0.25 J	--
FILTERED METALS (ug/l)							
ARSENIC	1.3 J	1.1 J	1.2 J	1.3 J	1.1 J	1.1 J	1 J
BARIUM	26	26	25	25	25	25	26
BERYLLIUM	--	--	--	--	--	--	--
CHROMIUM	--	--	--	--	--	--	--
COBALT	0.25 B	0.18 B	0.19 B	0.2 B	0.2 B	0.083 B	0.093 B
COPPER	3.2	3.6	3.2	3.3	3.4	3	3.1
LEAD	--	--	--	--	--	--	--
NICKEL	1.8 J	1.7 J	1.7 J	1.8 J	1.8 J	1.5 J	1.5 J
SELENIUM	--	--	--	--	--	--	--
VANADIUM	--	--	0.54 J	0.46 J	--	--	--
ZINC	11 J	11 J	7.6 J	6.2 J	8.3 J	6.5 J	7.3 J
MISCELLANEOUS PARAMETERS (ug/l)							
HEXAVALENT CHROMIUM[4]	0.078 L	0.072 L	0.079 L	0.069 L	0.069 L	0.075 L	0.085 L

TABLE 4-2
CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES- MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

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

2 USEPA Region 3 Biological Technical Advisory Group Freshwater Screening Benchmarks.

3 For carcinogens, criterion is for incremental cancer risk of $1x10^{-5}$.
Gray shading indicates the value exceeds one of the criteria.

4 The hexavalent chromium results were qualified with a L flag due to the samples being analyzed outside of the 24 hour method holding time. The analyses were performed between 24 and 48 hours.

5 Screening criteria adjusted based on using a site specific hardness value of 260 mg/L as opposed to the standard 100 mg/L.

B - Laboratory blank contamination.

J - Positive result is considered estimated.

L - Positive result is considered estimated biased low.

ug/l - micrograms per liter.

NA = Not analyzed or not available.

-- - Not detected at the method detection limit.

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples TCE concentration March2012_contours.mxd) 4/27/2012



FIGURE 4-1

CONCENTRATIONS OF TRICHLOROETHENE (TCE) IN SURFACE WATER SAMPLES, MARCH 2012
FROG MORTAR CREEK

LEGEND

- March 2012 TCE Contours
- MARCH 2012 SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

(1.7) = TCE Concentration
J = Estimated Value
- - = Not Detected

Concentration in micrograms per liter (ug/L)

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

0 75 150 300 Feet

N

DATE MODIFIED: 4/27/12

CREATED BY: MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples CIS 1-2 Dichloroethene Contours March2012.mxd) 4/18/2012



FIGURE 4-2

CONCENTRATIONS OF CIS-1,2-DICHLOROETHENE IN SURFACE WATER SAMPLES, MARCH 2012 FROG MORTAR CREEK

LEGEND

- March 2012 CIS Contours
- MARCH 2012 SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

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

Concentration in micrograms per liter (ug/L)

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

0 75 150 300 Feet

N

DATE MODIFIED: 4/30/12

CREATED BY: LR

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples Vinyl Chloride concentration March2012.mxd)



FIGURE 4-3

CONCENTRATIONS OF VINYL CHLORIDE IN SURFACE WATER SAMPLES, MARCH 2012 FROG MORTAR CREEK

LEGEND

- March 2012 Vinyl Chloride Contours
- MARCH 2012 SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

(1.7) = Vinyl Chloride Concentration
J = Estimated Value
- - = Not Detected

Concentration in micrograms per liter (ug/L)

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

0 75 150 300 Feet

N

DATE MODIFIED: 4/30/12

CREATED BY: LR

TETRA TECH

Section 5
Summary

The following summarizes Lockheed Martin Corporation's (Lockheed Martin's) March 2012 Frog Mortar Creek surface water investigation and findings:

- Forty surface water samples were collected from Frog Mortar Creek on March 20, 2012 and chemically analyzed to assess concentrations of chemical constituents previously detected in Frog Mortar Creek, and to assess creek surface-water quality near the Dump Road Area (DRA).

- Four samples were collected along each of nine transects, spaced approximately 350 feet apart, along the western shoreline of Frog Mortar Creek. In addition, four samples were collected along a transect extending out from a property (3301 Edwards Lane) across Frog Mortar Creek, along the eastern shoreline. The transects are designated MSA-SW37, MSA-SW38, MSA-SW39, MSA-SW40, MSA-SW41, MSA-SW42, MSA-SW43, MSA-SW44, and MSA-SW45, all along the western shoreline of Frog Mortar Creek near the Dump Road Area, and EL-SW01, along the eastern shoreline of Frog Mortar Creek near 3301 Edwards Lane. Along each transect, one sample was collected near the shoreline ("A" sample), one was collected approximately 50 feet from the shoreline ("B" sample), one was collected approximately 100 feet from the shoreline ("C" sample), and one was collected approximately 200 feet from the shoreline ("D" sample). Each sample was collected approximately one foot below the water surface.

- All samples were analyzed for volatile organic compounds (VOCs), filtered metals, and filtered hexavalent chromium.

- The data were validated in accordance with the *U.S. Environmental Protection Agency (USEPA) Region III Modifications to the National Functional Guidelines for Data Review* (USEPA, 1993 and 1994), and the specifics of the analytical methods used.

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

- Volatile organic compounds (primarily trichloroethene [TCE], *cis*-1,2-dichloroethene [*cis*-1,2-DCE] and vinyl chloride [VC]), and metals were detected in the March 2012 surface water samples.

- Concentrations of volatile organic compounds are greatest for sampling locations MSA-SW40A and MSA-SW41A, which are northeast and hydraulically downgradient of the Dump Road Area monitoring wells that contain some of the highest concentrations of site-related constituents in groundwater (e.g., wells DMW2S/A/B and DMW5S).

- The March 2012 volatile organic compound concentrations are higher than the December 2011 concentrations in transect MSA-SW40, and lower in transects MSA-SW38 and MSA-SW41. In March 2012, the highest TCE concentration (21 micrograms per liter [µg/L]) was detected in the MSA-SW40B sample collected 50 feet from the shoreline, while in December 2011, the highest trichloroethene concentrations had been detected in the shoreline samples of transects MSA-SW38 and MSA-SW41, at concentrations of 17 micrograms per liter and 27 micrograms per liter, respectively. *cis*-1,2-Dichloroethene and vinyl chloride concentrations increased significantly at MSA-SW37A and MSA-SW40A, and decreased significantly at MSA-SW38A, when comparing December 2011 and March 2012 results. Generally, concentrations of trichloroethene, *cis*-1,2-dichloroethene, and vinyl chloride decrease progressively north and south of the MSA-SW40 and MSA-SW41 transects, except for slightly elevated concentrations in MSA-SW37 (the northernmost transect); this pattern is similar to the previous rounds of Frog Mortar Creek surface water samples collected in 2011.

- At sampling transects with the highest concentrations of volatile organic compounds (transects MSA-SW40 and MSA-SW41), trichloroethene, *cis*-1,2-dichloroethene, and vinyl chloride concentrations are highest near the shoreline, and decrease progressively in samples collected farther from the shoreline, except for trichloroethene in transect MSA-SW40, where the concentration almost doubled from MSA-SW40A (11 µg/L) to MSA-SW40B (21 µg/L).

- Along sampling transects MSA-SW42 and MSA-SW40, trichloroethene concentrations were highest in the "B" samples, approximately 50 feet from the shoreline, and decrease progressively in samples collected farther from the shoreline. Along sampling transect MSA-SW38, the highest trichloroethene concentration was detected in the "A" sample collected close to the shoreline. Trichloroethene concentrations are relatively consistent along each of the other transects.

- *cis*-1,2-dichloroethene concentrations typically decrease with increasing distance from the shoreline, except for four transects (MSA-SW42, MSA-SW43, MSA-SW44, and MSA-SW45), where the highest *cis*-1,2-dichloroethene concentration was detected in the "B" sample. The *cis*-1,2-dichloroethene concentrations in transect EL-SW01 (along the eastern shoreline) are relatively consistent (range is from 0.9*J* µg/L to 1.4 µg/L).

- The vinyl chloride concentrations follow a similar trend as *cis*-1,2-dichloroethene: the highest concentrations were detected in the "B" samples in five of 10 transects (MSA-SW41, MSA-SW42, MSA-SW43, MSA-SW44, and MSA-SW45), while

concentrations decrease with increasing distance from the shoreline in three other transects (MSA-SW37, MSA-SW38, and MSA-SW40). Vinyl chloride was detected in only the "C" (0.33*J* micrograms per liter) and "D" (0.40*J* micrograms per liter) samples in transect EL-SW01 (along the eastern shoreline) and in the "C" (0. 24*J* micrograms per liter) and "D" (1.1 micrograms per liter) samples in transect MSA-SW39 (the most southern transect in relation to the source area).

- Dissolved hexavalent chromium was detected in the March 2012 surface water samples at trace concentrations, well below its screening criterion, with concentrations ranging from 0.054*L* micrograms per liter to 0.092*L* micrograms per liter. During previous sampling in December 2011, hexavalent chromium was detected in all samples at concentrations ranging up to 5.21 µg/L at Martin State Airport MSA-SW41B. If the maximum concentration at Martin State Airport MSA-SW41B is excluded from the December 2011 data set, then the range of the remaining hexavalent chromium concentrations is much narrower (0.056 micrograms per liter to 0.379 micrograms per liter).

- Metals exceeding screening criteria in the March 2012 Frog Mortar Creek samples include dissolved barium (in all samples) and dissolved arsenic (in two samples). During the previous sampling event (December 2011), dissolved arsenic exceeded its screening criterion in one sample, cadmium exceedances were found in four samples, and barium exceeded its screening level in all samples.

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Section 6
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APPENDIX A—SURFACE WATER SAMPLE LOG SHEETS

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: EL-SW01A -032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS	ORP
Date: 3/20/2012									
Time: 1116									
Depth: 0.5-1'									
Method: Direct Fill	GR/BR	6.39	2.37	15.74	22.1	9.16	1.2	1.52	162

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory DTW~14"

STAFF GAUGE READINGS

TIME	WL
1113	44"
1520	44"

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: EL-SW01B -032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS	ORP
Time: 1126									
Depth: 1'									
Method: Direct Fill	GR/BR	6.59	2.34	15.73	13.1	9.61	1.2	1.50	138

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 4.5'

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: EL-SW01C-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS ORP
Time: 1132								
Depth: 1'								
Method: Direct Fill	GR/BR	6.91	2.34	15.86	6.65	9.38	1.2	1.50 125

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 6.5'

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: EL-SW01D -032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS	ORP
Time: 1139									
Depth: 1'									
Method: Direct Fill	GR/BR	7.00	2.32	15.85	4.20	8.98	1.2	1.49	121

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~7'

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW37A-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS ORP
Time: 1500								
Depth: .5-1'	GR/BR	7.49	2.21	18.70	59.1	8.32	1.1	1.42 130
Method: Direct Fill								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~14"

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW 37B-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~	
Date:	3/20/2012	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	TDS	ORP
Time:	1505									
Depth:	1'	GR/BR	7.49	2.24	17.59	8.90	8.67	1.1	1.43	130
Method:	Direct Fill									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 4'

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW37C-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS	ORP
Time: 1512									
Depth: 1'									
Method: Direct Fill	GR/BR	7.50	2.26	17.26	9.98	8.78	1.2	1.45	131

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 6.5'

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW37D-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS	ORP
Time: 1515									
Depth: 1'									
Method: Direct Fill	GR/BR	754	2.25	17.16	8.50	8.75	1.2	1.44	130

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 77'

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW38A-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS	ORP
Time: 1400									
Depth: 1'									
Method: Direct Fill	GP/~~BR~~	7.33	2.24	17.24	37	8.81	1.1	1.43	130

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 1.5'

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW38B-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~	
Time: 1405	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	TDS	ORP
Depth: 1'									
Method: Direct Fill	GR/BR	7.36	2.25	16.89	30.9	8.85	1.1	1.44	130

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 4.5'

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW38C-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS ORP
Time: 1410								
Depth: 1'	GR/BR	7.41	2.27	16.71	18.9	9.17	1.2	1.46 128
Method: Direct Fill								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered In field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 6'

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW38D-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS	ORP
Time: 1416									
Depth: 1'									
Method: Direct Fill	GR/BR	7.46	2.27	16.58	17.6	9.20	1.2	1.46	127

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 7.7'

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

Sample ID No.: MSA-SW39A-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

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

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~
Date:	3/20/2012	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	TDS ORP
Time:	1146								
Depth:	1'	GR/BR	7.17	2.37	15.78	39.4	9.54	1.2	1.52 112
Method:	Direct Fill								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 2'

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW39B-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS
Time: 1153								
Depth: 1'								
Method: Direct Fill	GR/~~BR~~	7.25	2.38	15.75	12.5	9.52	1.2	1.52

ORP 112

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 3.5'

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW39C-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~	
Time: 1159	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	TDS	ORP
Depth: 1'	GR/BR	7.33	2.36	15.80	7.52	9.42	1.2	1.51	111
Method: Direct Fill									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 4.5'

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW39D-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ TDS	ORP
Time: 1204	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)		
Depth: 1'	GR/BR	7.34	2.30	15.86	14.1	9.14	1.2	1.42	112
Method: Direct Fill									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 7'

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW40A -032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS	ORP
Time: 1420									
Depth: .5-1'									
Method: Direct Fill	GR/BR	7.41	2.20	18.08	44.6	7.80	1.1	1.41	130

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 14"

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW4DB-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ TDS	ORP
Time: 1430	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)		
Depth: 1'	GR/BR	7.39	2.24	17.03	21.0	8.80	1.1	1.43	130
Method: Direct Fill									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 4.5'

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW40C-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS	ORP
Time: 1434									
Depth: 1'									
Method: Direct Fill	GR/BR	7.41	225	17.05	21.8	8.90	1.1	1.44	130

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~ 7'

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other: _____
[] QA Sample Type: _____

Sample ID No.: MSA-SW45C-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.: _____

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS	ORP
Time: 1219									
Depth: 1'	GR/BR	7.40	2.35	16.00	7.02	9.16	1.2	1.50	114
Method: Direct Fill									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~7'

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: MSA Surface Water Sampling
Project No.: 112IC04021

[] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: MSA-SW-5D-032012
Sample Location: Frog Mortar Creek
Sampled By: MB/SC/JR
C.O.C. No.:

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

SAMPLING DATA:

Date: 3/20/2012	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ TDS
Time: 1224								
Depth: 1'								
Method: Direct Fill	GR/BR	7.43	2.35	16.04	14.9	9.29	1.2	1.51

ORP 114

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA	X
Dissolved Metals	none	500 mL plastic	X
Dissolved Hexavalent Chromium	none	500 mL plastic	X

OBSERVATIONS / NOTES:

Hex Chrome filtered in field within 15 minutes of collection

Dissolved Metals filtered in laboratory

DTW ~> 7'

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

APPENDIX B—DATA VALIDATION REPORTS (ON CD)

Tetra Tech **INTERNAL CORRESPONDENCE**

TO: **T. APANAVAGE** **DATE:** **April 23, 2012**

FROM: **MEGAN CARSON** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION- FILTERED HARDNESS**
MSA-FROG MORTAR CREEK
SDG 240-9383-1

SAMPLES: 40/Aqueous/

EL-SW01A-032012	EL-SW01B-032012	EL-SW01C-032012
EL-SW01D-032012	MSA-SW37A-032012	MSA-SW37B-032012
MSA-SW37C-032012	MSA-SW37D-032012	MSA-SW38A-032012
MSA-SW38B-032012	MSA-SW38C-032012	MSA-SW38D-032012
MSA-SW39A-032012	MSA-SW39B-032012	MSA-SW39C-032012
MSA-SW39D-032012	MSA-SW40A-032012	MSA-SW40B-032012
MSA-SW40C-032012	MSA-SW40D-032012	MSA-SW41A-032012
MSA-SW41B-032012	MSA-SW41C-032012	MSA-SW41D-032012
MSA-SW42A-032012	MSA-SW42B-032012	MSA-SW42C-032012
MSA-SW42D-032012	MSA-SW43A-032012	MSA-SW43B-032012
MSA-SW43C-032012	MSA-SW43D-032012	MSA-SW44A-032012
MSA-SW44B-032012	MSA-SW44C-032012	MSA-SW44D-032012
MSA-SW45A-032012	MSA-SW45B-032012	MSA-SW45C-032012
MSA-SW45D-032012		

Overview

The sample set for Martin State Airport, SDG 240-9383-1, consists of forty (40) aqueous environmental samples. This SDG contained no field duplicate pairs.

All samples were analyzed for filtered hardness. The samples were collected by Tetra Tech on March 20th, 2012 and analyzed by Test America. Hardness analyses were conducted using method 2340B.

The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, initial and continuing calibration verification results, laboratory method / preparation blank results, laboratory control sample recoveries, matrix spike recoveries, laboratory duplicate results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems-

- None.

Minor Problems-

- None .

Notes

Hardness results were calculated based on calcium and magnesium results.

Filtered hardness was not indicated to be analyzed on the COC but was requested by the project manager.

The samples were filtered by the lab.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to Region III modifications to the "National Functional Guidelines for Inorganic Data Validation", April 1993. The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech
Megan Carson
Chemist/Data Validator

Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A	=	Lab Blank Contamination
B	=	Field Blank Contamination
C	=	Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01	=	GC/MS Tuning Noncompliance
D	=	MS/MSD Recovery Noncompliance
E	=	LCS/LCSD Recovery Noncompliance
F	=	Lab Duplicate Imprecision
G	=	Field Duplicate Imprecision
H	=	Holding Time Exceedance
I	=	ICP Serial Dilution Noncompliance
J	=	ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K	=	ICP Interference - includes ICS % R Noncompliance
L	=	Instrument Calibration Range Exceedance
M	=	Sample Preservation Noncompliance
N	=	Internal Standard Noncompliance
N01	=	Internal Standard Recovery Noncompliance Dioxins
N02	=	Recovery Standard Noncompliance Dioxins
N03	=	Clean-up Standard Noncompliance Dioxins
O	=	Poor Instrument Performance (i.e., base-time drifting)
P	=	Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q	=	Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R	=	Surrogates Recovery Noncompliance
S	=	Pesticide/PCB Resolution
T	=	% Breakdown Noncompliance for DDT and Endrin
U	=	RPD between columns/detectors >40% for positive results determined via GC/HPLC
V	=	Non-linear calibrations; correlation coefficient $r < 0.995$
W	=	EMPC result
X	=	Signal to noise response drop
Y	=	Percent solids <30%
Z	=	Uncertainty at 2 sigma deviation is less than sample activity
Z1	=	Tentatively Identified Compound considered presumptively present
Z2	=	Tentatively Identified Compound column bleed

PROJ_NO: 04021	NSAMPLE	EL-SW01A-032012			EL-SW01B-032012			EL-SW01C-032012			EL-SW01D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-37			240-9383-38			240-9383-39			240-9383-40		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HARDNESS		280			280			280			290		

PROJ_NO: 04021	NSAMPLE	MSA-SW37A-032012			MSA-SW37B-032012			MSA-SW37C-032012			MSA-SW37D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-1			240-9383-2			240-9383-3			240-9383-4		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HARDNESS		270			280			270			270		

PROJ_NO: 04021	NSAMPLE	MSA-SW38A-032012			MSA-SW38B-032012			MSA-SW38C-032012			MSA-SW38D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-5			240-9383-6			240-9383-7			240-9383-8		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HARDNESS		270			280			280			280		

PROJ_NO: 04021	NSAMPLE	MSA-SW39A-032012			MSA-SW39B-032012			MSA-SW39C-032012			MSA-SW39D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-9			240-9383-10			240-9383-11			240-9383-12		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HARDNESS		290			280			280			280		

PROJ_NO: 04021	NSAMPLE	MSA-SW40A-032012			MSA-SW40B-032012			MSA-SW40C-032012			MSA-SW40D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-13			240-9383-14			240-9383-15			240-9383-16		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HARDNESS		290			280			280			280		

PROJ_NO: 04021	NSAMPLE	MSA-SW41A-032012			MSA-SW41B-032012			MSA-SW41C-032012			MSA-SW41D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-17			240-9383-18			240-9383-19			240-9383-20		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HARDNESS		270			280			280			280		

PROJ_NO: 04021	NSAMPLE	MSA-SW42A-032012			MSA-SW42B-032012			MSA-SW42C-032012			MSA-SW42D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-21			240-9383-22			240-9383-23			240-9383-24		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HARDNESS		260			270			270			280		

PROJ_NO: 04021	NSAMPLE	MSA-SW43A-032012			MSA-SW43B-032012			MSA-SW43C-032012			MSA-SW43D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-25			240-9383-26			240-9383-27			240-9383-28		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HARDNESS		270			280			280			280		

PROJ_NO: 04021	NSAMPLE	MSA-SW44A-032012			MSA-SW44B-032012			MSA-SW44C-032012			MSA-SW44D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-29			240-9383-30			240-9383-31			240-9383-32		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HARDNESS		280			280			280			270		

PROJ_NO: 04021	NSAMPLE	MSA-SW45A-032012			MSA-SW45B-032012			MSA-SW45C-032012			MSA-SW45D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-33			240-9383-34			240-9383-35			240-9383-36		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HARDNESS		280			280			280			290		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: EL-SW01A-032012 Lab Sample ID: 240-9383-37

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 11:16

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: EL-SW01B-032012 Lab Sample ID: 240-9383-38

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 11:26

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: EL-SW01C-032012 Lab Sample ID: 240-9383-39

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 11:32

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: EL-SW01D-032012 Lab Sample ID: 240-9383-40

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 11:39

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	290	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37A-032012 Lab Sample ID: 240-9383-1

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 15:05

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	270	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37B-032012 Lab Sample ID: 240-9383-2

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 15:09

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37C-032012 Lab Sample ID: 240-9383-3

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 15:12

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	270	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37D-032012 Lab Sample ID: 240-9383-4

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 15:15

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	270	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38A-032012 Lab Sample ID: 240-9383-5

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 14:00

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	270	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38B-032012 Lab Sample ID: 240-9383-6

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 14:05

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38C-032012 Lab Sample ID: 240-9383-7

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 14:10

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38D-032012 Lab Sample ID: 240-9383-8

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 14:16

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39A-032012 Lab Sample ID: 240-9383-9

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 11:46

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	290	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39B-032012 Lab Sample ID: 240-9383-10

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 11:55

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39C-032012 Lab Sample ID: 240-9383-11

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 11:59

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39D-032012 Lab Sample ID: 240-9383-12

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 12:04

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40A-032012 Lab Sample ID: 240-9383-13

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 14:20

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	290	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40B-032012 Lab Sample ID: 240-9383-14

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 14:30

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40C-032012 Lab Sample ID: 240-9383-15

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 14:34

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40D-032012 Lab Sample ID: 240-9383-16

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 14:38

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41A-032012 Lab Sample ID: 240-9383-17

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 13:43

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	270	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41B-032012 Lab Sample ID: 240-9383-18

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 13:47

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41C-032012 Lab Sample ID: 240-9383-19

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 13:52

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41D-032012 Lab Sample ID: 240-9383-20

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 13:55

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42A-032012 Lab Sample ID: 240-9383-21

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 14:43

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	260	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42B-032012 Lab Sample ID: 240-9383-22

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 14:49

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	270	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42C-032012 Lab Sample ID: 240-9383-23

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 14:54

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	270	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42D-032012 Lab Sample ID: 240-9383-24

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 15:00

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43A-032012 Lab Sample ID: 240-9383-25

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 12:51

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	270	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43B-032012 Lab Sample ID: 240-9383-26

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 12:56

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43C-032012 Lab Sample ID: 240-9383-27

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 13:00

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43D-032012 Lab Sample ID: 240-9383-28

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 13:04

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44A-032012 Lab Sample ID: 240-9383-29

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 12:30

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44B-032012 Lab Sample ID: 240-9383-30

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 12:36

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44C-032012 Lab Sample ID: 240-9383-31

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 12:40

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44D-032012 Lab Sample ID: 240-9383-32

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 12:45

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	270	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45A-032012 Lab Sample ID: 240-9383-33

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 12:10

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45B-032012 Lab Sample ID: 240-9383-34

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 12:15

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45C-032012 Lab Sample ID: 240-9383-35

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 12:19

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	280	33		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45D-032012 Lab Sample ID: 240-9383-36

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG ID.:

Matrix: Water Date Sampled: 03/20/2012 12:24

Reporting Basis: WET Date Received: 03/21/2012 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness	290	33		mg/L			1	SM 2340B

APPENDIX C

SUPPORT DOCUMENTATION

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	1 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			SDG No.
(301) 528-3021 Phone	TAT if different from Below 3DAY			
(301) 528-3000 FAX	☐ 2 weeks			Sampler:
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
MSA-SW37A-032012	3/20/2012	1505	SW	Water	4	x	x	x	
MSA-SW37B-032012	3/20/2012	1509	SW	Water	4	x	x	x	
MSA-SW37C-032012	3/20/2012	1512	SW	Water	4	x	x	x	
MSA-SW37D-032012	3/20/2012	1515	SW	Water	4	x	x	x	
MSA-SW38A-032012	3/20/2012	1400	SW	Water	4	x	x	x	
MSA-SW38B-032012	3/20/2012	1405	SW	Water	4	x	x	x	
MSA-SW38C-032012	3/20/2012	1410	SW	Water	4	x	x	x	
MSA-SW38D-032012	3/20/2012	1416	SW	Water	4	x	x	x	
MSA-SW39A-032012	3/20/2012	1146	SW	Water	4	x	x	x	
MSA-SW39B-032012	3/20/2012	1155	SW	Water	4	x	x	x	
MSA-SW39C-032012	3/20/2012	1159	SW	Water	4	x	x	x	
MSA-SW39D-032012	3/20/2012	1204	SW	Water	4	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS NEED TO BE FILTERED IN THE LAB**

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Walt Pa	TT ZR	3-20-12/1800		TAWC	3/21/12 10:00am
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

4/05/2012

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	2 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below 3 DAY			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler:
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
MSA-SW40A-032012	3/20/2012	1420	SW	Water	4	x	x	x	
MSA-SW40B-032012	3/20/2012	1430	SW	Water	4	x	x	x	
MSA-SW40C-032012	3/20/2012	1434	SW	Water	4	x	x	x	
MSA-SW40D-032012	3/20/2012	1436	SW	Water	4	x	x	x	
MSA-SW41A-032012	3/20/2012	1343	SW	Water	4	x	x	x	
MSA-SW41B-032012	3/20/2012	1347	SW	Water	4	x	x	x	
MSA-SW41C-032012	3/20/2012	1352	SW	Water	4	x	x	x	
MSA-SW41D-032012	3/20/2012	1355	SW	Water	4	x	x	x	
MSA-SW42A-032012	3/20/2012	1443	SW	Water	4	x	x	x	
MSA-SW42B-032012	3/20/2012	1449	SW	Water	4	x	x	x	
MSA-SW42C-032012	3/20/2012	1454	SW	Water	4	x	x	x	
MSA-SW42D-032012	3/20/2012	1500	SW	Water	4	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS NEED TO BE FILTERED IN THE LAB**

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	IT ~~Test~~ Inc	3-20-12/1800		TT hC	3/21/12 10:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

4/6/2012

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	3 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below 3 DAY			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler:
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
MSA-SW43A-032012	3/20/2012	1251	SW	Water	4	x	x	x	
MSA-SW43B-032012	3/20/2012	1256	SW	Water	4	x	x	x	
MSA-SW43C-032012	3/20/2012	1300	SW	Water	4	x	x	x	
MSA-SW43D-032012	3/20/2012	1304	SW	Water	4	x	x	x	
MSA-SW44A-032012	3/20/2012	1230	SW	Water	4	x	x	x	
MSA-SW44B-032012	3/20/2012	1236	SW	Water	4	x	x	x	
MSA-SW44C-032012	3/20/2012	1240	SW	Water	4	x	x	x	
MSA-SW44D-032012	3/20/2012	1245	SW	Water	4	x	x	x	
MSA-SW45A-032012	3/20/2012	1210	SW	Water	4	x	x	x	
MSA-SW45B-032012	3/20/2012	1215	SW	Water	4	x	x	x	
MSA-SW45C-032012	3/20/2012	1219	SW	Water	4	x	x	x	
MSA-SW45D-032012	3/20/2012	1224	SW	Water	4	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS NEED TO BE FILTERED IN THE LAB**

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TT INC	3-20-12 1800		TAINC	3/21/12 10:00am
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

04/06/2012

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	4 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below 3 DAY			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler:
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
EL-SW01A-032012	3/20/2012	1116	SW	Water	4	x	x	x	
EL-SW01B-032012	3/20/2012	1126	SW	Water	4	x	x	x	
EL-SW01C-032012	3/20/2012	1132	SW	Water	4	x	x	x	
EL-SW01D-032012	3/20/2012	1139	SW	Water	4	x	x	x	
TB-032012	3/20/2012	—	SW	Water	3		x		
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: DISSOLVED METALS NEED TO BE FILTERED IN THE LAB

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TT INC	3-20-12 1630		TANC	3/21/12 10:00Am.
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

CASE NARRATIVE

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Project: MSA Frog Mortar Creek

Report Number: 240-9383-1

REVISED

Revision 4/6/2012: The report was revised to add Dissolved Hardness data.

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

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

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

RECEIPT

The samples were received on 03/21/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.8, 3.6 and 4.8C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MSA-SW37A-032012 (240-9383-1), MSA-SW37B-032012 (240-9383-2), MSA-SW37C-032012 (240-9383-3), MSA-SW37D-032012 (240-9383-4), MSA-SW38A-032012 (240-9383-5), MSA-SW38B-032012 (240-9383-6), MSA-SW38C-032012 (240-9383-7), MSA-SW38D-032012 (240-9383-8), MSA-SW39A-032012 (240-9383-9), MSA-SW39B-032012 (240-9383-10), MSA-SW39C-032012 (240-9383-11), MSA-SW39D-032012 (240-9383-12), MSA-SW40A-032012 (240-9383-13), MSA-SW40B-032012 (240-9383-14), MSA-SW40C-032012 (240-9383-15), MSA-SW40D-032012 (240-9383-16), MSA-SW41A-032012 (240-9383-17), MSA-SW41B-032012 (240-9383-18), MSA-SW41C-032012 (240-9383-19), MSA-SW41D-032012 (240-9383-20), MSA-SW42A-032012 (240-9383-21), MSA-SW42B-032012 (240-9383-22), MSA-SW42C-032012 (240-9383-23), MSA-SW42D-032012 (240-9383-24), MSA-SW43A-032012 (240-9383-25), MSA-SW43B-032012 (240-9383-26), MSA-SW43C-032012 (240-9383-27), MSA-SW43D-032012 (240-9383-28), MSA-SW44A-032012 (240-9383-29), MSA-SW44B-032012 (240-9383-30), MSA-SW44C-032012 (240-9383-31), MSA-SW44D-032012 (240-9383-32), MSA-SW45A-032012 (240-9383-33), MSA-SW45B-032012 (240-9383-34), MSA-SW45C-032012 (240-9383-35), MSA-SW45D-032012 (240-9383-36), EL-SW01A-032012 (240-9383-37), EL-SW01B-032012 (240-9383-38), EL-SW01C-032012 (240-9383-39), EL-SW01D-032012 (240-9383-40) and TB-032012 (240-9383-41) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/22/2012 and 03/23/2012.

Hexachlorobutadiene was detected in method blank MB 240-37611/6 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 "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Methylene Chloride was detected in method blank MB 240-37654/6 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 "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-37839/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample MSA-SW40B-032012MS/MSD (240-9383-14) in batch 240-37654. 2-Hexanone failed the recovery criteria high.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample MSA-SW37A-032012MS/MSD (240-9383-1) in batch 240-37611.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample MSA-SW43D-032012MS/MSD (240-9383-28) in batch 240-37839.

Refer to the QC report for details.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Samples MSA-SW37A-032012 (240-9383-1), MSA-SW37B-032012 (240-9383-2), MSA-SW37C-032012 (240-9383-3), MSA-SW37D-032012 (240-9383-4), MSA-SW38A-032012 (240-9383-5), MSA-SW38B-032012 (240-9383-6), MSA-SW38C-032012 (240-9383-7), MSA-SW38D-032012 (240-9383-8), MSA-SW39A-032012 (240-9383-9), MSA-SW39B-032012 (240-9383-10), MSA-SW39C-032012 (240-9383-11), MSA-SW39D-032012 (240-9383-12), MSA-SW40A-032012 (240-9383-13), MSA-SW40B-032012 (240-9383-14), MSA-SW40C-032012 (240-9383-15), MSA-SW40D-032012 (240-9383-16), MSA-SW41A-032012 (240-9383-17), MSA-SW41B-032012 (240-9383-18), MSA-SW41C-032012 (240-9383-19), MSA-SW41D-032012 (240-9383-20), MSA-SW42A-032012 (240-9383-21), MSA-SW42B-032012 (240-9383-22), MSA-SW42C-032012 (240-9383-23), MSA-SW42D-032012 (240-9383-24), MSA-SW43A-032012 (240-9383-25), MSA-SW43B-032012 (240-9383-26), MSA-SW43C-032012 (240-9383-27), MSA-SW43D-032012 (240-9383-28), MSA-SW44A-032012 (240-9383-29), MSA-SW44B-032012 (240-9383-30), MSA-SW44C-032012 (240-9383-31), MSA-SW44D-032012 (240-9383-32), MSA-SW45A-032012 (240-9383-33), MSA-SW45B-032012 (240-9383-34), MSA-SW45C-032012 (240-9383-35), MSA-SW45D-032012 (240-9383-36), EL-SW01A-032012 (240-9383-37), EL-SW01B-032012 (240-9383-38), EL-SW01C-032012 (240-9383-39) and EL-SW01D-032012 (240-9383-40) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/21/2012 and analyzed on 03/22/2012.

Nickel and Zinc were detected in method blank MB 240-37512/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-37534/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)

Samples MSA-SW37A-032012 (240-9383-1), MSA-SW37B-032012 (240-9383-2), MSA-SW37C-032012 (240-9383-3), MSA-SW37D-032012 (240-9383-4), MSA-SW38A-032012 (240-9383-5), MSA-SW38B-032012 (240-9383-6), MSA-SW38C-032012 (240-9383-7), MSA-SW38D-032012 (240-9383-8), MSA-SW39A-032012 (240-9383-9), MSA-SW39B-032012 (240-9383-10), MSA-SW39C-032012 (240-9383-11), MSA-SW39D-032012 (240-9383-12), MSA-SW40A-032012 (240-9383-13), MSA-SW40B-032012 (240-9383-14), MSA-SW40C-032012 (240-9383-15), MSA-SW40D-032012 (240-9383-16), MSA-SW41A-032012 (240-9383-17), MSA-SW41B-032012 (240-9383-18), MSA-SW41C-032012 (240-9383-19), MSA-SW41D-032012 (240-9383-20), MSA-SW42A-032012 (240-9383-21), MSA-SW42B-032012 (240-9383-22), MSA-SW42C-032012 (240-9383-23), MSA-SW42D-032012 (240-9383-24), MSA-SW43A-032012 (240-9383-25), MSA-SW43B-032012 (240-9383-26), MSA-SW43C-032012 (240-9383-27), MSA-SW43D-032012 (240-9383-28), MSA-SW44A-032012 (240-9383-29), MSA-SW44B-032012 (240-9383-30), MSA-SW44C-032012 (240-9383-31), MSA-SW44D-032012 (240-9383-32), MSA-SW45A-032012 (240-9383-33), MSA-SW45B-032012 (240-9383-34), MSA-SW45C-032012 (240-9383-35), MSA-SW45D-032012 (240-9383-36), EL-SW01A-032012 (240-9383-37), EL-SW01B-032012 (240-9383-38), EL-SW01C-032012 (240-9383-39) and EL-SW01D-032012 (240-9383-40) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 03/21/2012 and analyzed on 03/22/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

DISSOLVED HARDNESS

Samples MSA-SW37A-032012 (240-9383-1), MSA-SW37B-032012 (240-9383-2), MSA-SW37C-032012 (240-9383-3), MSA-SW37D-032012 (240-9383-4), MSA-SW38A-032012 (240-9383-5), MSA-SW38B-032012 (240-9383-6), MSA-SW38C-032012 (240-9383-7), MSA-SW38D-032012 (240-9383-8), MSA-SW39A-032012 (240-9383-9), MSA-SW39B-032012 (240-9383-10), MSA-SW39C-032012 (240-9383-11), MSA-SW39D-032012 (240-9383-12), MSA-SW40A-032012 (240-9383-13), MSA-SW40B-032012 (240-9383-14), MSA-SW40C-032012 (240-9383-15), MSA-SW40D-032012 (240-9383-16), MSA-SW41A-032012 (240-9383-17), MSA-SW41B-032012 (240-9383-18), MSA-SW41C-032012 (240-9383-19), MSA-SW41D-032012 (240-9383-20), MSA-SW42A-032012 (240-9383-21), MSA-SW42B-032012 (240-9383-22), MSA-SW42C-032012 (240-9383-23), MSA-SW42D-032012 (240-9383-24), MSA-SW43A-032012 (240-9383-25), MSA-SW43B-032012 (240-9383-26), MSA-SW43C-032012 (240-9383-27), MSA-SW43D-032012 (240-9383-28), MSA-SW44A-032012 (240-9383-29), MSA-SW44B-032012 (240-9383-30), MSA-SW44C-032012 (240-9383-31), MSA-SW44D-032012 (240-9383-32), MSA-SW45A-032012 (240-9383-33), MSA-SW45B-032012 (240-9383-34), MSA-SW45C-032012 (240-9383-35), MSA-SW45D-032012 (240-9383-36), EL-SW01A-032012 (240-9383-37), EL-SW01B-032012 (240-9383-38), EL-SW01C-032012 (240-9383-39) and EL-SW01D-032012 (240-9383-40) were analyzed for dissolved hardness by calculation in accordance with EPA SW-846 Method 2340B. The samples were prepared on 03/21/2012 and analyzed on 03/22/2012. The hardness calculation was performed on 04/02/2012.

Calcium and magnesium were analyzed in order to perform and report the hardness by calculation.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

TestAmerica North Canton Sample Receipt Form/Narrative **Login # :** 9383

Client Tetra Tech Site Name _____ By: _____ (Signature)

Cooler Received on 3/21/12 Opened on 3/21/12

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

TestAmerica Cooler # _____ Foam Box Client Cooler (Multiple on Back) 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# 1	(CF -2°C)	Sample Temp_____°C	Corrected Temp_____°C
IR GUN# 4G	(CF -1°C)	Sample Temp_____°C	Corrected Temp_____°C
IR GUN# 5G	(CF -1°C)	Sample Temp_____°C	Corrected Temp_____°C
IR GUN# 6Y	(CF -2°C)	Sample Temp_____°C	Corrected Temp_____°C

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

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

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

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 Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

Cooler #	Temp. °C	IR #	Coolant
Client Cooler 1	5.6 = 4.6 2.8 = 1.8 4.6 = 3.6	4G 1	ICE 1

Login Sample Receipt Checklist

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Login Number: 9383

List Source: TestAmerica North Canton

List Number: 1

Creator: Maddux, Ann

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6, 1.8, 3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

MSA-SW388-032012

240-9383-d-6-b, 3/22/2012 11:06:28 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
x		81.606%	0.025	138.900
%RSD		3.649	23.480	0.984
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
x		IM 359000.000	46550.000	12.550
%RSD		IM 0.794	0.998	5.444
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
x		I 0.000	I 14230.000	35450.000
%RSD		I 0.000	I 0.839	0.603
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
x		I 100.792%	103.821%	0.349
%RSD		I 2.173	0.511	0.488
Run	Time	51V	53Cr	
		ppb	ppb	
x		0.139	0.186	7.952
%RSD		270.900	14.420	9.193
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
x		17.570	36.940	0.298
%RSD		0.344	2.580	5.727
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
x		1.872	3.375	9.676
%RSD		6.035	6.103	1.448
Run	Time	72Ge	75As	
		ppb	ppb	
x		96.666%	1.090	0.149
%RSD		0.984	17.080	51.190
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
x		0.249	M 332.200	0.753
%RSD		55.800	M 0.445	1.902
Run	Time	105Pd	107Ag	
		ppb	ppb	
x		0.000	0.002	-0.960
%RSD		0.000	255.900	254.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
x		0.357	97.767%	0.100
%RSD		7.257	0.165	29.100
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
x		0.290	26.510	0.000
%RSD		9.153	0.779	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
x		99.325%	0.167	0.225
%RSD		0.843	6.385	5.105
Run	Time	208Pb	209Bi	
		ppb	ppb	
x		0.082	0.000	
%RSD		3.255	0.000	

reported as 27ug/L

Tetra Tech INC **INTERNAL CORRESPONDENCE**

TO: **T. APANAVAGE** **DATE:** **APRIL 5, 2012**

FROM: **J. KALINYAK** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION - VOC**
MSA FROG MORTAR CREEK SURFACE WATER
SAMPLE DELIVERY GROUP (SDG) 240-9383-1

SAMPLES: 41 / Aqueous / VOC

EL-SW01A-032012	EL-SW01B-032012	EL-SW01C-032012
EL-SW01D-032012	MSA-SW37A-032012	MSA-SW37B-032012
MSA-SW37C-032012	MSA-SW37D-032012	MSA-SW38A-032012
MSA-SW38B-032012	MSA-SW38C-032012	MSA-SW38D-032012
MSA-SW39A-032012	MSA-SW39B-032012	MSA-SW39C-032012
MSA-SW39D-032012	MSA-SW40A-032012	MSA-SW40B-032012
MSA-SW40C-032012	MSA-SW40D-032012	MSA-SW41A-032012
MSA-SW41B-032012	MSA-SW41C-032012	MSA-SW41D-032012
MSA-SW42A-032012	MSA-SW42B-032012	MSA-SW42C-032012
MSA-SW42D-032012	MSA-SW43A-032012	MSA-SW43B-032012
MSA-SW43C-032012	MSA-SW43D-032012	MSA-SW44A-032012
MSA-SW44B-032012	MSA-SW44C-032012	MSA-SW44D-032012
MSA-SW45A-032012	MSA-SW45B-032012	MSA-SW45C-032012
MSA-SW45D-032012	TB-032012	

Overview

The sample set for MSA Frog Mortar Creek Surface Water, SDG 240-9383-1 consisted of forty-one (41) aqueous samples. All samples were analyzed for volatile organic compounds (VOC) as listed above. One (1) trip blank sample was included in the sample delivery group (SDG). No field duplicate sample pairs were included in the SDG.

The samples were collected by Tetra Tech on March 20th, 2012 and analyzed by TestAmerica Inc. All analyses were conducted in accordance with EPA SW-846 Method 8260B, analytical and reporting protocols.

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

Major Problems

- The VOC initial calibration average relative response factor (RRF) on instrument A3UX12 on 02/07/12 and the continuing calibration RRF were less than the minimum criteria of 0.05 for 2-butanone and vinyl acetate affecting samples as listed.

  Affected Samples:

MSA-SW37A-03201	MSA-SW37B-032012	MSA-SW37C-032012
MSA-SW37D-032012	MSA-SW38A-032012	MSA-SW38B-032012
MSA-SW38C-032012	MSA-SW38D-032012	MSA-SW39A-032012

MSA-SW39B-032012 MSA-SW39C-032012 MSA-SW39D-032012
MSA-SW40A-032012
Action: All samples had non-detected results for 2-butanone and vinyl acetate which were qualified rejected, (UR).

- The VOC initial calibration average RRF on 10/31/11 and all of the continuing calibration RRFs were less than the minimum criteria of 0.05 for 2-butanone on instrument A3UX9 affecting samples as listed.

Affected Samples:

EL-SW01A-032012	EL-SW01B-032012	EL-SW01C-032012
EL-SW01D-032012	MSA-SW40B-032012	MSA-SW40C-032012
MSA-SW40D-032012	MSA-SW41A-032012	MSA-SW41B-03201
MSA-SW41C-032012	MSA-SW41D-032012	MSA-SW42A-032012
MSA-SW42B-032012	MSA-SW42C-032012	MSA-SW42D-032012
MSA-SW43A-032012	MSA-SW43B-032012	MSA-SW43C-032012
MSA-SW43D-032012	MSA-SW44A-032012	MSA-SW44B-032012
MSA-SW44C-032012	MSA-SW44D-032012	MSA-SW45A-032012
MSA-SW45B-032012	MSA-SW45C-032012	MSA-SW45D-032012
TB-032012		

Action: All samples had non-detected results for 2-butanone which were qualified rejected, (UR).

- The VOC continuing calibration RRFs were less than the minimum criteria of 0.05 for vinyl acetate on instrument A3UX9 on 03/22/12 @ 11:45 and on 03/23/12 @ 12:41 affecting samples as listed.

Affected Samples:

EL-SW01A-032012	EL-SW01B-032012	EL-SW01C-032012
EL-SW01D-032012	MSA-SW40B-032012	MSA-SW40C-032012
MSA-SW40D-032012	MSA-SW41A-032012	MSA-SW41B-03201
MSA-SW41C-032012	MSA-SW41D-032012	MSA-SW42A-032012
MSA-SW42B-032012	MSA-SW42C-032012	MSA-SW42D-032012
MSA-SW43A-032012	MSA-SW43B-032012	MSA-SW43C-032012
MSA-SW43D-032012	MSA-SW44A-032012	MSA-SW44B-032012
MSA-SW44C-032012	MSA-SW44D-032012	MSA-SW45A-032012
MSA-SW45B-032012	MSA-SW45C-032012	MSA-SW45D-032012
TB-032012		

Action: All samples had non-detected results for vinyl acetate which were qualified rejected, (UR).

- The matrix spike (MS) and the MS duplicate (MSD) percent recoveries (%Rs) were less than the quality control limit at 0% for the three spiked samples MSA-SW37A-03201, MSA-SW40B-032012, and MSA-SW43D-032012. Per EPA SW-846 Chapter 4, "Chemical preservation may be inappropriate for highly reactive compounds... 2-chloroethyl vinyl ether... since it may accelerate loss by polymerization or other rapid chemical reaction". All of the samples were acid preserved which affected the laboratory's ability to quantify 2-chloroethyl vinyl ether as evidenced by the 0%Rs for the spiked samples. Therefore, all SDG 2-chloroethyl vinyl ether non-detected sample results were qualified rejected, (UR).

Minor Problems

- Positive results reported below the quantitation limit but above the method detection limit were qualified as estimated, (J).

- The VOC CCV %Ds were greater than the 20% and greater than the 50% quality control limit for dichlorodifluoromethane for instrument A3UX12 on 03/22/12 @ 12:14 affecting samples as listed below.

  Affected Samples:

MSA-SW37A-03201	MSA-SW37B-032012	MSA-SW37C-032012
MSA-SW37D-032012	MSA-SW38A-032012	MSA-SW38B-032012
MSA-SW38C-032012	MSA-SW38D-032012	MSA-SW39A-032012
MSA-SW39B-032012	MSA-SW39C-032012	MSA-SW39D-032012
MSA-SW40A-032012		

  Action: The sample non-detected dichlorodifluoromethane results were qualified estimated, (UJ).

- The laboratory VOC contaminants were detected in the method blank at the following maximum concentration affecting all samples.

Analytes	Maximum Conc. µg/L	Action Level µg/L
Hexachlorobutadiene [1]	0.541	2.705
Methylene Chloride [2]	0.540	5.400
Hexachlorobutadiene [3]	0.975	4.875
Methylene Chloride [3]	0.493	4.930
n-Butylbenzene [3]	0.412	2.060
sec-Butylbenzene [3]	0.297	1.485
tert-Butylbenzene [3]	0.207	1.035
1,2,3-Trichlorobenzene [3]	0.550	2.750
1,2,4-Trichlorobenzene [3]	0.490	2.450
Hexachlorobutadiene [4]	1.1	5.5
n-Butylbenzene [4]	0.47	2.35
sec-Butylbenzene [4]	0.34	1.70
1,2,4-Trichlorobenzene [4]	0.46	2.30

[1] Method blank MB 240-37611/6 affecting samples MSA-SW37A-032012, MSA-SW37B-032012, MSA-SW37C-032012, MSA-SW37D-032012, MSA-SW38A-032012, MSA-SW38B-032012, MSA-SW38C-032012, MSA-SW38D-032012, MSA-SW39A-032012, MSA-SW39B-032012, MSA-SW39C-032012, MSA-SW39D-032012, and MSA-SW40A-032012.

[2] Method blank MB 240-37654/6 affecting samples MSA-SW40B-032012, MSA-SW40C-032012, MSA-SW40D-032012, MSA-SW41A-032012, MSA-SW41B-032012, MSA-SW41C-032012, MSA-SW41D-032012, MSA-SW42A-032012, MSA-SW42B-032012, MSA-SW42C-032012, MSA-SW42D-032012, MSA-SW43A-032012, MSA-SW43B-032012, and MSA-SW43C-032012.

[3] Method blank MB 240-37839/5 affecting samples MSA-SW43D-032012, TB-032012, MSA-SW44A-032012, MSA-SW44B-032012, MSA-SW44C-032012, MSA-SW44D-032012, MSA-SW45A-032012, MSA-SW45B-032012, MSA-SW45C-032012, MSA-SW45D-032012, EL-SW01A-032012, EL-SW01B-032012, EL-SW01C-032012, and EL-SW01D-032012.

[4] Trip blank TB-032012 contamination affecting all the samples.

An action level of ten times the maximum level for the common laboratory contaminant methylene chloride and five times the maximum level for other laboratory & trip blank contaminants has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. The trip blank sample was not qualified for method blank contamination.

Notes

The VOC CCV %Ds were greater than the 20% and less than the 50% quality control limit for vinyl acetate, bromochloromethane, and 2-hexanone for instrument A3UX12 on 03/22/12 @ 12:14 affecting samples listed.

Affected Samples:

MSA-SW37A-03201	MSA-SW37B-032012	MSA-SW37C-032012
MSA-SW37D-032012	MSA-SW38A-032012	MSA-SW38B-032012
MSA-SW38C-032012	MSA-SW38D-032012	MSA-SW39A-032012
MSA-SW39B-032012	MSA-SW39C-032012	MSA-SW39D-032012
MSA-SW40A-032012		

Action: The sample analytes results were non-detected and were not qualified. The sample vinyl acetate results were qualified for RRF criterion non-compliance and no further validation action was necessary.

The VOC CCV %Ds were greater than the 20% and less than 50% quality control limit for 1,1,2-trichloro-trifluoroethane, 2-hexanone, bromoform, and 1,2-dibromo-3-cloropropane for instrument A3UX9 on 03/22/12 @ 11:21.

Affected Samples:

MSA-SW40B-032012	MSA-SW40C-032012	MSA-SW40D-032012
MSA-SW41A-032012	MSA-SW41B-032012	MSA-SW41C-032012
MSA-SW41D-032012	MSA-SW42A-032012	MSA-SW42B-032012
MSA-SW42C-032012	MSA-SW42D-032012	MSA-SW43A-032012
MSA-SW43B-032012	MSA-SW43C-032012	

Action: The affected sample aforementioned analytes were non-detected and were not qualified.

The VOC CCV %D was greater than the 20% and greater than 50% quality control limit for 1,1,2-trichloro-trifluoroethane, vinyl acetate, 2-hexanone, bromoform, and 1,2,3-trichlorobenzene for instrument A3UX9 on 03/23/12 @ 12:41.

Affected Samples:

MSA-SW43D-032012	TB-032012	MSA-SW44A-032012
MSA-SW44B-032012	MSA-SW44C-032012	MSA-SW44D-032012
MSA-SW45A-032012	MSA-SW45B-032012	MSA-SW45C-032012
MSA-SW45D-032012	EL-SW01A-032012	EL-SW01B-032012
EL-SW01C-032012	EL-SW01D-032012	

Action: The affected sample 1,1,2-trichloro-trifluoroethane, 2-hexanone, bromoform, and 1,2,3-trichlorobenzene results were non-detected and were not qualified. The sample vinyl acetate non-detected results were rejected for the RRF quality control limit non-compliances and no further validation action was necessary.

The MSD %R for 2-hexanone was greater than the quality control limit for spiked sample MSA-SW40B-032012. No validation action was taken as the sample had a non-detected result for 2-hexanone.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Calibration VOC RRF criterion non-compliances led to the rejection of 2-butanone and vinyl acetate non-detected results. MS/MSD %R 0% recoveries and sample acid preservation resulted in the rejection of all non-detected 2-chloroethyl vinyl ether sample results. VOC sample results were qualified for CCV %D quality control limit non-compliances. The VOC sample results were qualified for VOC method blank contamination.

Other Factors Affecting Data Quality: Positive results reported below the quantitation limit but above the method detection limit were qualified as estimated, (J).

The data for these analyses were reviewed with reference to USEPA SW-846 Method 8260B and the Region III EPA Functional Guidelines for Organic Data Validation (9/94).

Tetra Tech
Joseph Kalinyak
Data Validator/Environmental Scientist

TetraTech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

Qualifier Codes:

A	=	Lab Blank Contamination
B	=	Field Blank Contamination
C	=	Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01	=	GC/MS Tuning Noncompliance
D	=	MS/MSD Recovery Noncompliance
E	=	LCS/LCSD Recovery Noncompliance
F	=	Lab Duplicate Imprecision
G	=	Field Duplicate Imprecision
H	=	Holding Time Exceedance
I	=	ICP Serial Dilution Noncompliance
J	=	ICP PDS Recovery Noncompliance; MSA's r < 0.995
K	=	ICP Interference - includes ICS % R Noncompliance
L	=	Instrument Calibration Range Exceedance
M	=	Sample Preservation Noncompliance
N	=	Internal Standard Noncompliance
N01	=	Internal Standard Recovery Noncompliance Dioxins
N02	=	Recovery Standard Noncompliance Dioxins
N03	=	Clean-up Standard Noncompliance Dioxins
O	=	Poor Instrument Performance (i.e., base-time drifting)
P	=	Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q	=	Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R	=	Surrogates Recovery Noncompliance
S	=	Pesticide/PCB Resolution
T	=	% Breakdown Noncompliance for DDT and Endrin
U	=	RPD between columns/detectors >40% for positive results determined via GC/HPLC
V	=	Non-linear calibrations; correlation coefficient r < 0.995
W	=	EMPC result
X	=	Signal to noise response drop
Y	=	Percent solids <30%
Z	=	Uncertainty at 2 sigma deviation is less than sample activity
Z1	=	Tentatively Identified Compound considered presumptively present
Z2	=	Tentatively Identified Compound column bleed

PROJ_NO: 04021	NSAMPLE	EL-SW01A-032012			EL-SW01B-032012			EL-SW01C-032012			EL-SW01D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-37			240-9383-38			240-9383-39			240-9383-40		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	UR	C	0.57	UR	C	0.57	UR	C	0.57	UR	C
2-CHLOROETHYL VINYL ETHER		0.99	UR	D	0.99	UR	D	0.99	UR	D	0.99	UR	D
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.1	U		1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW37A-032012			MSA-SW37B-032012			MSA-SW37C-032012			MSA-SW37D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-1			240-9383-2			240-9383-3			240-9383-4		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.38	J	P	0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	UR	C	0.57	UR	C	0.57	UR	C	0.57	UR	C
2-CHLOROETHYL VINYL ETHER		0.99	UR	D	0.99	UR	D	0.99	UR	D	0.99	UR	D
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.1	U		1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW38A-032012			MSA-SW38B-032012			MSA-SW38C-032012			MSA-SW38D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-5			240-9383-6			240-9383-7			240-9383-8		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	UR	C	0.57	UR	C	0.57	UR	C	0.57	UR	C
2-CHLOROETHYL VINYL ETHER		0.99	UR	D	0.99	UR	D	0.99	UR	D	0.99	UR	D
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.1	U		1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW39A-032012			MSA-SW39B-032012			MSA-SW39C-032012			MSA-SW39D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-9			240-9383-10			240-9383-11			240-9383-12		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	UR	C	0.57	UR	C	0.57	UR	C	0.57	UR	C
2-CHLOROETHYL VINYL ETHER		0.99	UR	D	0.99	UR	D	0.99	UR	D	0.99	UR	D
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.1	U		1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW40A-032012			MSA-SW40B-032012			MSA-SW40C-032012			MSA-SW40D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-13			240-9383-14			240-9383-15			240-9383-16		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.39	J	P	0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.59	B	B	0.41	B	B	0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		1.6			0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	UR	C	0.57	UR	C	0.57	UR	C	0.57	UR	C
2-CHLOROETHYL VINYL ETHER		0.99	UR	D	0.99	UR	D	0.99	UR	D	0.99	UR	D
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.1	U		1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW41A-032012			MSA-SW41B-032012			MSA-SW41C-032012			MSA-SW41D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-17			240-9383-18			240-9383-19			240-9383-20		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	UR	C	0.57	UR	C	0.57	UR	C	0.57	UR	C
2-CHLOROETHYL VINYL ETHER		0.99	UR	D	0.99	UR	D	0.99	UR	D	0.99	UR	D
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.1	U		1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW42A-032012			MSA-SW42B-032012			MSA-SW42C-032012			MSA-SW42D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-21			240-9383-22			240-9383-23			240-9383-24		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	UR	C	0.57	UR	C	0.57	UR	C	0.57	UR	C
2-CHLOROETHYL VINYL ETHER		0.99	UR	D	0.99	UR	D	0.99	UR	D	0.99	UR	D
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.1	U		1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW43A-032012			MSA-SW43B-032012			MSA-SW43C-032012			MSA-SW43D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-25			240-9383-26			240-9383-27			240-9383-28		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	UR	C	0.57	UR	C	0.57	UR	C	0.57	UR	C
2-CHLOROETHYL VINYL ETHER		0.99	UR	D	0.99	UR	D	0.99	UR	D	0.99	UR	D
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.3	J	P	1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW44A-032012			MSA-SW44B-032012			MSA-SW44C-032012			MSA-SW44D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-29			240-9383-30			240-9383-31			240-9383-32		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	UR	C	0.57	UR	C	0.57	UR	C	0.57	UR	C
2-CHLOROETHYL VINYL ETHER		0.99	UR	D	0.99	UR	D	0.99	UR	D	0.99	UR	D
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		2.7	J	P	1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW45A-032012			MSA-SW45B-032012			MSA-SW45C-032012			MSA-SW45D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-33			240-9383-34			240-9383-35			240-9383-36		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	UR	C	0.57	UR	C	0.57	UR	C	0.57	UR	C
2-CHLOROETHYL VINYL ETHER		0.99	UR	D	0.99	UR	D	0.99	UR	D	0.99	UR	D
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		2	J	P	1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: 04021	NSAMPLE	TB-032012
SDG: 240-9383-1	LAB_ID	240-9383-41
FRACTION: OV	SAMP_DATE	3/20/2012
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE	0.23	U	
1,1,1-TRICHLOROETHANE	0.22	U	
1,1,2,2-TETRACHLOROETHANE	0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28	U	
1,1-DICHLOROETHANE	0.15	U	
1,1-DICHLOROETHENE	0.19	U	
1,1-DICHLOROPROPENE	0.13	U	
1,2,3-TRICHLOROBENZENE	0.61	J	P
1,2,3-TRICHLOROPROPANE	0.43	U	
1,2,3-TRIMETHYLBENZENE	0.0059	U	
1,2,4-TRICHLOROBENZENE	0.46	J	P
1,2,4-TRIMETHYLBENZENE	0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.67	U	
1,2-DIBROMOETHANE	0.24	U	
1,2-DICHLOROBENZENE	0.13	U	
1,2-DICHLOROETHANE	0.22	U	
1,2-DICHLOROPROPANE	0.18	U	
1,3-DICHLOROBENZENE	0.14	U	
1,3-DICHLOROPROPANE	0.16	U	
1,4-DICHLOROBENZENE	0.13	U	
2,2-DICHLOROPROPANE	0.13	U	
2-BUTANONE	0.57	UR	C
2-CHLOROETHYL VINYL ETHER	0.99	UR	D
2-CHLOROTOLUENE	0.11	U	
2-HEXANONE	0.41	U	
4-CHLOROTOLUENE	0.18	U	
4-ISOPROPYLTOLUENE	0.3	J	P
4-METHYL-2-PENTANONE	0.32	U	
ACETONE	1.1	U	
BENZENE	0.13	U	
BROMOBENZENE	0.13	U	
BROMOCHLOROMETHANE	0.29	U	
BROMODICHLOROMETHANE	0.15	U	
BROMOFORM	0.64	U	
BROMOMETHANE	0.41	U	

PROJ_NO: 04021	NSAMPLE	EL-SW01A-032012			EL-SW01B-032012			EL-SW01C-032012			EL-SW01D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-37			240-9383-38			240-9383-39			240-9383-40		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.9	J	P	1			1.2			1.4		
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	U		3.9	U		3.9	U		3.9	U	
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		1			1.1			1.4			1.6		
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW37A-032012			MSA-SW37B-032012			MSA-SW37C-032012			MSA-SW37D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-1			240-9383-2			240-9383-3			240-9383-4		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.28	J	P	0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		10			4.3			2			0.84	J	P
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	UJ	C	0.31	UJ	C	0.31	UJ	C	0.31	UJ	C
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.61	B	A	0.41	B	A	0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.35	B	B	0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.14	B	B	0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	U		3.9	U		3.9	U		3.9	U	
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		2.3			3			1.9			1.3		
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW38A-032012			MSA-SW38B-032012			MSA-SW38C-032012			MSA-SW38D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-5			240-9383-6			240-9383-7			240-9383-8		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		5.4			3.1			1.8			1.1		
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	UJ	C	0.31	UJ	C	0.31	UJ	C	0.31	UJ	C
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	U		3.9	U		3.9	U		3.9	U	
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.23	J	P	0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		7.9			3.9			2.4			1.7		
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW39A-032012			MSA-SW39B-032012			MSA-SW39C-032012			MSA-SW39D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-9			240-9383-10			240-9383-11			240-9383-12		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.48	J	P	0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.42	J	P	0.41	J	P	0.72	J	P	2.9		
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	UJ	C	0.31	UJ	C	0.31	UJ	C	0.31	UJ	C
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	U		3.9	U		3.9	U		3.9	U	
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		0.59	J	P	0.49	J	P	0.94	J	P	4.2		
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW40A-032012			MSA-SW40B-032012			MSA-SW40C-032012			MSA-SW40D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-13			240-9383-14			240-9383-15			240-9383-16		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		39			8.1			5.1			1.2		
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	UJ	C	0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		1.4			0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.36	B	B	0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		11			0.48	J	P	0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	B	B	0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		1.9			0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	U		3.9	U		3.9	U		3.9	U	
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.71	J	P	0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		13			0.48	J	P	0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.77	J	P	0.38	J	P	0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		11			21			4.1			1.7		
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW41A-032012			MSA-SW41B-032012			MSA-SW41C-032012			MSA-SW41D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-17			240-9383-18			240-9383-19			240-9383-20		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		18			5.1			3.3			1.5		
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	U		3.9	U		3.9	U		3.9	U	
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.82	J	P	0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		6.2			4.9			3.3			1.7		
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW42A-032012			MSA-SW42B-032012			MSA-SW42C-032012			MSA-SW42D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-21			240-9383-22			240-9383-23			240-9383-24		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.4	J	P	0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		7.4			8.7			3.3			2.6		
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.25	J	P	0.86	J	P	0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.15	J	P	0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	U		3.9	U		3.9	U		3.9	U	
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		1	J	P	0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.53	J	P	0.22	J	P	0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		4			10			3.1			2.4		
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW43A-032012			MSA-SW43B-032012			MSA-SW43C-032012			MSA-SW43D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-25			240-9383-26			240-9383-27			240-9383-28		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		2.1			3.7			3.4			2.8		
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	U		3.9	U		3.9	U		3.9	U	
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.27	J	P	0.19	J	P	0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		2.6			3.7			3.5			2.9		
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW44A-032012			MSA-SW44B-032012			MSA-SW44C-032012			MSA-SW44D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-29			240-9383-30			240-9383-31			240-9383-32		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		1.6			3.3			3.2			2.9		
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.41	B	A	0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	U		3.9	U		3.9	U		3.9	U	
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.24	J	P	0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		2.1			3.5			3.3			3.1		
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04021	NSAMPLE	MSA-SW45A-032012			MSA-SW45B-032012			MSA-SW45C-032012			MSA-SW45D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-33			240-9383-34			240-9383-35			240-9383-36		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		2.6			2.8			0.9	J	P	0.63	J	P
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	U		3.9	U		3.9	U		3.9	U	
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.34	J	P	0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		3.2			3.3			1			0.71	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 04021	NSAMPLE	TB-032012
SDG: 240-9383-1	LAB_ID	240-9383-41
FRACTION: OV	SAMP_DATE	3/20/2012
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
CARBON DISULFIDE	0.13	U	
CARBON TETRACHLORIDE	0.13	U	
CHLOROBENZENE	0.15	U	
CHLORODIBROMOMETHANE	0.18	U	
CHLOROETHANE	0.29	U	
CHLOROFORM	0.16	U	
CHLOROMETHANE	0.3	U	
CIS-1,2-DICHLOROETHENE	0.17	U	
CIS-1,3-DICHLOROPROPENE	0.14	U	
DIBROMOMETHANE	0.28	U	
DICHLORODIFLUOROMETHANE	0.31	U	
DIISOPROPYL ETHER	1.5	U	
ETHYL TERT-BUTYL ETHER	0.11	U	
ETHYLBENZENE	0.17	U	
HEXACHLOROBUTADIENE	1.1		
ISOPROPYLBENZENE	0.13	U	
M+P-XYLENES	0.24	U	
METHYL TERT-BUTYL ETHER	0.17	U	
METHYLENE CHLORIDE	0.33	U	
NAPHTHALENE	0.24	U	
N-BUTYLBENZENE	0.47	J	P
N-PROPYLBENZENE	0.14	U	
O-XYLENE	0.14	U	
SEC-BUTYLBENZENE	0.34	J	P
STYRENE	0.11	U	
TERT-AMYL METHYL ETHER	0.067	U	
TERT-BUTYLBENZENE	0.23	J	P
TERTIARY-BUTYL ALCOHOL	3.9	U	
TETRACHLOROETHENE	0.29	U	
TOLUENE	0.13	U	
TOTAL XYLENES	0.28	U	
TRANS-1,2-DICHLOROETHENE	0.19	U	
TRANS-1,3-DICHLOROPROPENE	0.19	U	
TRICHLOROETHENE	0.17	U	
TRICHLOROFLUOROMETHANE	0.21	U	

PROJ_NO: 04021 SDG: 240-9383-1 FRACTION: OV MEDIA: WATER	NSAMPLE	EL-SW01A-032012			EL-SW01B-032012			EL-SW01C-032012			EL-SW01D-032012		
	LAB_ID	240-9383-37			240-9383-38			240-9383-39			240-9383-40		
	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	UR	C	0.19	UR	C
VINYL CHLORIDE		0.22	U		0.22	U		0.33	J	P	0.4	J	P

PROJ_NO: 04021	NSAMPLE	MSA-SW37A-032012			MSA-SW37B-032012			MSA-SW37C-032012			MSA-SW37D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-1			240-9383-2			240-9383-3			240-9383-4		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	UR	C	0.19	UR	C
VINYL CHLORIDE		8.6			2.4			0.7			0.27	J	P

PROJ_NO: 04021	NSAMPLE	MSA-SW38A-032012			MSA-SW38B-032012			MSA-SW38C-032012			MSA-SW38D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-5			240-9383-6			240-9383-7			240-9383-8		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	UR	C	0.19	UR	C
VINYL CHLORIDE		1.6			1.3			0.63			0.34	J	P

PROJ_NO: 04021	NSAMPLE	MSA-SW39A-032012			MSA-SW39B-032012			MSA-SW39C-032012			MSA-SW39D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-9			240-9383-10			240-9383-11			240-9383-12		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	UR	C	0.19	UR	C
VINYL CHLORIDE		0.22	U		0.22	U		0.24	J	P	1.1		

PROJ_NO: 04021	NSAMPLE	MSA-SW40A-032012			MSA-SW40B-032012			MSA-SW40C-032012			MSA-SW40D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-13			240-9383-14			240-9383-15			240-9383-16		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	UR	C	0.19	UR	C
VINYL CHLORIDE		40			2.3			2.4			0.35	J	P

PROJ_NO: 04021	NSAMPLE	MSA-SW41A-032012			MSA-SW41B-032012			MSA-SW41C-032012			MSA-SW41D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-17			240-9383-18			240-9383-19			240-9383-20		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	UR	C	0.19	UR	C
VINYL CHLORIDE		1.2			1.5			1.4			0.43	J	P

PROJ_NO: 04021	NSAMPLE	MSA-SW42A-032012			MSA-SW42B-032012			MSA-SW42C-032012			MSA-SW42D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-21			240-9383-22			240-9383-23			240-9383-24		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	UR	C	0.19	UR	C
VINYL CHLORIDE		3.2			4.2			1.4			1.3		

PROJ_NO: 04021	NSAMPLE	MSA-SW43A-032012			MSA-SW43B-032012			MSA-SW43C-032012			MSA-SW43D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-25			240-9383-26			240-9383-27			240-9383-28		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	UR	C	0.19	UR	C
VINYL CHLORIDE		0.53			1.2			1.2			1.1		

PROJ_NO: 04021	NSAMPLE	MSA-SW44A-032012			MSA-SW44B-032012			MSA-SW44C-032012			MSA-SW44D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-29			240-9383-30			240-9383-31			240-9383-32		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	UR	C	0.19	UR	C
VINYL CHLORIDE		0.22	U		1.4			1.2			1.1		

PROJ_NO: 04021	NSAMPLE	MSA-SW45A-032012			MSA-SW45B-032012			MSA-SW45C-032012			MSA-SW45D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-33			240-9383-34			240-9383-35			240-9383-36		
FRACTION: OV	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	UR	C	0.19	UR	C
VINYL CHLORIDE		0.62			0.91			0.25	J	P	0.22	U	

PROJ_NO: 04021	NSAMPLE	TB-032012		
SDG: 240-9383-1	LAB_ID	240-9383-41		
FRACTION: OV	SAMP_DATE	3/20/2012		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C
VINYL CHLORIDE		0.22	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01A-032012 Lab Sample ID: 240-9383-37

Matrix: Water Lab File ID: UX930826.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:16

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 22:20

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.90	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01A-032012 Lab Sample ID: 240-9383-37

Matrix: Water Lab File ID: UX930826.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:16

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 22:20

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01A-032012 Lab Sample ID: 240-9383-37

Matrix: Water Lab File ID: UX930826.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:16

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 22:20

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.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		66-117
1868-53-7	Dibromofluoromethane (Surr)	80		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		63-129
2037-26-5	Toluene-d8 (Surr)	86		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01B-032012 Lab Sample ID: 240-9383-38

Matrix: Water Lab File ID: UX930827.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 22:44

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01B-032012 Lab Sample ID: 240-9383-38

Matrix: Water Lab File ID: UX930827.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 22:44

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.1		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01B-032012 Lab Sample ID: 240-9383-38

Matrix: Water Lab File ID: UX930827.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 22:44

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		66-117
1868-53-7	Dibromofluoromethane (Surr)	77		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		63-129
2037-26-5	Toluene-d8 (Surr)	87		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01C-032012 Lab Sample ID: 240-9383-39

Matrix: Water Lab File ID: UX930828.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:32

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 23:08

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.: 37839 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01C-032012 Lab Sample ID: 240-9383-39

Matrix: Water Lab File ID: UX930828.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:32

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 23:08

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.4		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.33	J	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01C-032012 Lab Sample ID: 240-9383-39

Matrix: Water Lab File ID: UX930828.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:32

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 23:08

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.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		63-129
2037-26-5	Toluene-d8 (Surr)	87		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01D-032012 Lab Sample ID: 240-9383-40

Matrix: Water Lab File ID: UX930829.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:39

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 23:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01D-032012 Lab Sample ID: 240-9383-40

Matrix: Water Lab File ID: UX930829.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:39

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 23:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.6		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.40	J	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: EL-SW01D-032012 Lab Sample ID: 240-9383-40

Matrix: Water Lab File ID: UX930829.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:39

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 23:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37A-032012 Lab Sample ID: 240-9383-1

Matrix: Water Lab File ID: UX122969.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:05

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 13:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	0.28	J	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	10		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	0.38	J	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37A-032012 Lab Sample ID: 240-9383-1

Matrix: Water Lab File ID: UX122969.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:05

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 13:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	2.3		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	8.6		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37A-032012 Lab Sample ID: 240-9383-1

Matrix: Water Lab File ID: UX122969.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:05

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 13:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		66-117
1868-53-7	Dibromofluoromethane (Surr)	118		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		63-129
2037-26-5	Toluene-d8 (Surr)	105		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37B-032012 Lab Sample ID: 240-9383-2

Matrix: Water Lab File ID: UX122981.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:09

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 18:44

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	4.3		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37B-032012 Lab Sample ID: 240-9383-2

Matrix: Water Lab File ID: UX122981.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:09

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 18:44

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	0.61	J B	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	0.35	J	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	0.14	J	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	3.0		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	2.4		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37B-032012 Lab Sample ID: 240-9383-2

Matrix: Water Lab File ID: UX122981.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:09

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 18:44

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		66-117
1868-53-7	Dibromofluoromethane (Surr)	114		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		63-129
2037-26-5	Toluene-d8 (Surr)	101		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37C-032012 Lab Sample ID: 240-9383-3

Matrix: Water Lab File ID: UX122982.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:12

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	2.0		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37C-032012 Lab Sample ID: 240-9383-3

Matrix: Water Lab File ID: UX122982.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:12

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	0.41	J B	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.9		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.70		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37C-032012 Lab Sample ID: 240-9383-3

Matrix: Water Lab File ID: UX122982.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:12

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		66-117
1868-53-7	Dibromofluoromethane (Surr)	113		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		63-129
2037-26-5	Toluene-d8 (Surr)	105		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37D-032012 Lab Sample ID: 240-9383-4

Matrix: Water Lab File ID: UX122983.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:15

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:33

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.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.84	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37D-032012 Lab Sample ID: 240-9383-4

Matrix: Water Lab File ID: UX122983.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:15

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:33

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.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.3		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.27	J	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW37D-032012 Lab Sample ID: 240-9383-4

Matrix: Water Lab File ID: UX122983.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:15

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:33

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.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		66-117
1868-53-7	Dibromofluoromethane (Surr)	113		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		63-129
2037-26-5	Toluene-d8 (Surr)	104		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38A-032012 Lab Sample ID: 240-9383-5

Matrix: Water Lab File ID: UX122984.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:00

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 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.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	5.4		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38A-032012 Lab Sample ID: 240-9383-5

Matrix: Water Lab File ID: UX122984.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:00

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 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.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.23	J	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	7.9		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.6		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38A-032012 Lab Sample ID: 240-9383-5

Matrix: Water Lab File ID: UX122984.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:00

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 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.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		66-117
1868-53-7	Dibromofluoromethane (Surr)	109		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		63-129
2037-26-5	Toluene-d8 (Surr)	100		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38B-032012 Lab Sample ID: 240-9383-6

Matrix: Water Lab File ID: UX122985.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:05

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:22

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	3.1		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38B-032012 Lab Sample ID: 240-9383-6

Matrix: Water Lab File ID: UX122985.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:05

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:22

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	3.9		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.3		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38B-032012 Lab Sample ID: 240-9383-6

Matrix: Water Lab File ID: UX122985.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:05

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:22

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		66-117
1868-53-7	Dibromofluoromethane (Surr)	114		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		63-129
2037-26-5	Toluene-d8 (Surr)	105		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38C-032012 Lab Sample ID: 240-9383-7

Matrix: Water Lab File ID: UX122986.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:10

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.8		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38C-032012 Lab Sample ID: 240-9383-7

Matrix: Water Lab File ID: UX122986.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:10

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	2.4		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.63		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38C-032012 Lab Sample ID: 240-9383-7

Matrix: Water Lab File ID: UX122986.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:10

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:46

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		66-117
1868-53-7	Dibromofluoromethane (Surr)	121		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		63-129
2037-26-5	Toluene-d8 (Surr)	103		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38D-032012 Lab Sample ID: 240-9383-8

Matrix: Water Lab File ID: UX122987.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:16

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:11

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38D-032012 Lab Sample ID: 240-9383-8

Matrix: Water Lab File ID: UX122987.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:16

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:11

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.7		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.34	J	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW38D-032012 Lab Sample ID: 240-9383-8

Matrix: Water Lab File ID: UX122987.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:16

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:11

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		66-117
1868-53-7	Dibromofluoromethane (Surr)	111		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		63-129
2037-26-5	Toluene-d8 (Surr)	113		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39A-032012 Lab Sample ID: 240-9383-9

Matrix: Water Lab File ID: UX122988.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:46

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	0.48	J	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.42	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39A-032012 Lab Sample ID: 240-9383-9

Matrix: Water Lab File ID: UX122988.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:46

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.59	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39A-032012 Lab Sample ID: 240-9383-9

Matrix: Water Lab File ID: UX122988.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:46

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		66-117
1868-53-7	Dibromofluoromethane (Surr)	115		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		63-129
2037-26-5	Toluene-d8 (Surr)	99		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39B-032012 Lab Sample ID: 240-9383-10

Matrix: Water Lab File ID: UX122989.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:55

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:59

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.: 37611 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39B-032012 Lab Sample ID: 240-9383-10

Matrix: Water Lab File ID: UX122989.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:55

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:59

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.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.49	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39B-032012 Lab Sample ID: 240-9383-10

Matrix: Water Lab File ID: UX122989.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:55

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:59

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.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		66-117
1868-53-7	Dibromofluoromethane (Surr)	117		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		63-129
2037-26-5	Toluene-d8 (Surr)	108		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39C-032012 Lab Sample ID: 240-9383-11

Matrix: Water Lab File ID: UX122990.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:59

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:23

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.72	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39C-032012 Lab Sample ID: 240-9383-11

Matrix: Water Lab File ID: UX122990.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:59

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:23

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.94	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.24	J	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39C-032012 Lab Sample ID: 240-9383-11

Matrix: Water Lab File ID: UX122990.D

Analysis Method: 8260B Date Collected: 03/20/2012 11:59

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:23

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		66-117
1868-53-7	Dibromofluoromethane (Surr)	116		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		63-129
2037-26-5	Toluene-d8 (Surr)	104		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39D-032012 Lab Sample ID: 240-9383-12

Matrix: Water Lab File ID: UX122991.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:04

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	2.9		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39D-032012 Lab Sample ID: 240-9383-12

Matrix: Water Lab File ID: UX122991.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:04

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	4.2		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.1		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW39D-032012 Lab Sample ID: 240-9383-12

Matrix: Water Lab File ID: UX122991.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:04

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		66-117
1868-53-7	Dibromofluoromethane (Surr)	118		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		63-129
2037-26-5	Toluene-d8 (Surr)	105		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40A-032012 Lab Sample ID: 240-9383-13

Matrix: Water Lab File ID: UX122992.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:20

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 23:12

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.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	39		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.6		1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	0.39	J	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.4		1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40A-032012 Lab Sample ID: 240-9383-13

Matrix: Water Lab File ID: UX122992.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:20

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 23:12

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.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	11		2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.9		1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	0.71	J	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.77	J	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	0.59	J	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	11		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	40		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40A-032012 Lab Sample ID: 240-9383-13

Matrix: Water Lab File ID: UX122992.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:20

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 23:12

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.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	13		2.0	0.28

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40B-032012 Lab Sample ID: 240-9383-14

Matrix: Water Lab File ID: UX93055.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:30

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 13:22

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	8.1		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40B-032012 Lab Sample ID: 240-9383-14

Matrix: Water Lab File ID: UX93055.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:30

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 13:22

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	0.48	J	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.38	J	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	0.41	J	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	21		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	2.3		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40B-032012 Lab Sample ID: 240-9383-14

Matrix: Water Lab File ID: UX93055.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:30

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 13:22

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.48	J	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40C-032012 Lab Sample ID: 240-9383-15

Matrix: Water Lab File ID: UX93066.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:34

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 17:50

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	5.1		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40C-032012 Lab Sample ID: 240-9383-15

Matrix: Water Lab File ID: UX93066.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:34

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 17:50

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	0.36	J	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	0.12	J	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	4.1		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	2.4		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40C-032012 Lab Sample ID: 240-9383-15

Matrix: Water Lab File ID: UX93066.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:34

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 17:50

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.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40D-032012 Lab Sample ID: 240-9383-16

Matrix: Water Lab File ID: UX93067.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:38

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 18:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40D-032012 Lab Sample ID: 240-9383-16

Matrix: Water Lab File ID: UX93067.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:38

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 18:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.7		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.35	J	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW40D-032012 Lab Sample ID: 240-9383-16

Matrix: Water Lab File ID: UX93067.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:38

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 18:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		63-129
2037-26-5	Toluene-d8 (Surr)	89		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41A-032012 Lab Sample ID: 240-9383-17

Matrix: Water Lab File ID: UX93068.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:43

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 18:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	18		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41A-032012 Lab Sample ID: 240-9383-17

Matrix: Water Lab File ID: UX93068.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:43

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 18:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.82	J	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	6.2		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.2		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41A-032012 Lab Sample ID: 240-9383-17

Matrix: Water Lab File ID: UX93068.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:43

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 18:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	80		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		63-129
2037-26-5	Toluene-d8 (Surr)	89		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41B-032012 Lab Sample ID: 240-9383-18

Matrix: Water Lab File ID: UX93069.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:47

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:04

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	5.1		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41B-032012 Lab Sample ID: 240-9383-18

Matrix: Water Lab File ID: UX93069.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:47

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:04

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	4.9		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.5		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41B-032012 Lab Sample ID: 240-9383-18

Matrix: Water Lab File ID: UX93069.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:47

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:04

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.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41C-032012 Lab Sample ID: 240-9383-19

Matrix: Water Lab File ID: UX93070.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:52

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:28

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	3.3		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41C-032012 Lab Sample ID: 240-9383-19

Matrix: Water Lab File ID: UX93070.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:52

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:28

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	3.3		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.4		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41C-032012 Lab Sample ID: 240-9383-19

Matrix: Water Lab File ID: UX93070.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:52

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:28

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.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41D-032012 Lab Sample ID: 240-9383-20

Matrix: Water Lab File ID: UX93071.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:55

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41D-032012 Lab Sample ID: 240-9383-20

Matrix: Water Lab File ID: UX93071.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:55

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.7		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.43	J	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW41D-032012 Lab Sample ID: 240-9383-20

Matrix: Water Lab File ID: UX93071.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:55

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 19:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129
2037-26-5	Toluene-d8 (Surr)	87		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42A-032012 Lab Sample ID: 240-9383-21

Matrix: Water Lab File ID: UX93072.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:43

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:16

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	0.40	J	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	7.4		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42A-032012 Lab Sample ID: 240-9383-21

Matrix: Water Lab File ID: UX93072.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:43

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:16

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	0.25	J	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.53	J	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	4.0		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	3.2		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42A-032012 Lab Sample ID: 240-9383-21

Matrix: Water Lab File ID: UX93072.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:43

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:16

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.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129
2037-26-5	Toluene-d8 (Surr)	89		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42B-032012 Lab Sample ID: 240-9383-22

Matrix: Water Lab File ID: UX93073.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:49

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	8.7		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42B-032012 Lab Sample ID: 240-9383-22

Matrix: Water Lab File ID: UX93073.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:49

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	0.86	J	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	0.15	J	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.22	J	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	10		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	4.2		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42B-032012 Lab Sample ID: 240-9383-22

Matrix: Water Lab File ID: UX93073.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:49

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 20:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	1.0	J	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		66-117
1868-53-7	Dibromofluoromethane (Surr)	78		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42C-032012 Lab Sample ID: 240-9383-23

Matrix: Water Lab File ID: UX93074.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:54

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:04

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	3.3		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42C-032012 Lab Sample ID: 240-9383-23

Matrix: Water Lab File ID: UX93074.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:54

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:04

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	3.1		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.4		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42C-032012 Lab Sample ID: 240-9383-23

Matrix: Water Lab File ID: UX93074.D

Analysis Method: 8260B Date Collected: 03/20/2012 14:54

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:04

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.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42D-032012 Lab Sample ID: 240-9383-24

Matrix: Water Lab File ID: UX93075.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:00

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:28

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	2.6		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42D-032012 Lab Sample ID: 240-9383-24

Matrix: Water Lab File ID: UX93075.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:00

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:28

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	2.4		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.3		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW42D-032012 Lab Sample ID: 240-9383-24

Matrix: Water Lab File ID: UX93075.D

Analysis Method: 8260B Date Collected: 03/20/2012 15:00

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:28

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.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		63-129
2037-26-5	Toluene-d8 (Surr)	89		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43A-032012 Lab Sample ID: 240-9383-25

Matrix: Water Lab File ID: UX93076.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:51

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:53

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.3	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	2.1		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43A-032012 Lab Sample ID: 240-9383-25

Matrix: Water Lab File ID: UX93076.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:51

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:53

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.27	J	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	2.6		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.53		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43A-032012 Lab Sample ID: 240-9383-25

Matrix: Water Lab File ID: UX93076.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:51

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 21:53

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.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		66-117
1868-53-7	Dibromofluoromethane (Surr)	77		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		63-129
2037-26-5	Toluene-d8 (Surr)	87		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43B-032012 Lab Sample ID: 240-9383-26

Matrix: Water Lab File ID: UX93077.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:56

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:17

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	3.7		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43B-032012 Lab Sample ID: 240-9383-26

Matrix: Water Lab File ID: UX93077.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:56

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:17

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.19	J	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	3.7		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.2		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43B-032012 Lab Sample ID: 240-9383-26

Matrix: Water Lab File ID: UX93077.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:56

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:17

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43C-032012 Lab Sample ID: 240-9383-27

Matrix: Water Lab File ID: UX93078.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:00

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:41

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	3.4		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43C-032012 Lab Sample ID: 240-9383-27

Matrix: Water Lab File ID: UX93078.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:00

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:41

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	3.5		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.2		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43C-032012 Lab Sample ID: 240-9383-27

Matrix: Water Lab File ID: UX93078.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:00

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 22:41

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		66-117
1868-53-7	Dibromofluoromethane (Surr)	81		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43D-032012 Lab Sample ID: 240-9383-28

Matrix: Water Lab File ID: UX930807.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:04

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 14:37

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	2.8		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43D-032012 Lab Sample ID: 240-9383-28

Matrix: Water Lab File ID: UX930807.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:04

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 14:37

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	2.9		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.1		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW43D-032012 Lab Sample ID: 240-9383-28

Matrix: Water Lab File ID: UX930807.D

Analysis Method: 8260B Date Collected: 03/20/2012 13:04

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 14:37

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.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	78		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		63-129
2037-26-5	Toluene-d8 (Surr)	87		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44A-032012 Lab Sample ID: 240-9383-29

Matrix: Water Lab File ID: UX930818.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:30

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 19:06

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	2.7	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.6		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44A-032012 Lab Sample ID: 240-9383-29

Matrix: Water Lab File ID: UX930818.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:30

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 19:06

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	0.41	J B	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.24	J	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	2.1		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44A-032012 Lab Sample ID: 240-9383-29

Matrix: Water Lab File ID: UX930818.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:30

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 19:06

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		66-117
1868-53-7	Dibromofluoromethane (Surr)	80		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44B-032012 Lab Sample ID: 240-9383-30

Matrix: Water Lab File ID: UX930819.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:36

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 19:30

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	3.3		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44B-032012 Lab Sample ID: 240-9383-30

Matrix: Water Lab File ID: UX930819.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:36

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 19:30

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	3.5		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.4		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44B-032012 Lab Sample ID: 240-9383-30

Matrix: Water Lab File ID: UX930819.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:36

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 19:30

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.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		63-129
2037-26-5	Toluene-d8 (Surr)	89		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44C-032012 Lab Sample ID: 240-9383-31

Matrix: Water Lab File ID: UX930820.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:40

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 19:55

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	3.2		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44C-032012 Lab Sample ID: 240-9383-31

Matrix: Water Lab File ID: UX930820.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:40

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 19:55

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	3.3		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.2		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44C-032012 Lab Sample ID: 240-9383-31

Matrix: Water Lab File ID: UX930820.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:40

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 19:55

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.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		66-117
1868-53-7	Dibromofluoromethane (Surr)	80		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44D-032012 Lab Sample ID: 240-9383-32

Matrix: Water Lab File ID: UX930821.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:45

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 20:19

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	2.9		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44D-032012 Lab Sample ID: 240-9383-32

Matrix: Water Lab File ID: UX930821.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:45

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 20:19

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	3.1		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.1		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW44D-032012 Lab Sample ID: 240-9383-32

Matrix: Water Lab File ID: UX930821.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:45

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 20:19

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	80		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129
2037-26-5	Toluene-d8 (Surr)	89		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45A-032012 Lab Sample ID: 240-9383-33

Matrix: Water Lab File ID: UX930822.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:10

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 20:43

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	2.0	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	2.6		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45A-032012 Lab Sample ID: 240-9383-33

Matrix: Water Lab File ID: UX930822.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:10

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 20:43

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.34	J	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	3.2		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.62		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45A-032012 Lab Sample ID: 240-9383-33

Matrix: Water Lab File ID: UX930822.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:10

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 20:43

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		66-117
1868-53-7	Dibromofluoromethane (Surr)	80		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		63-129
2037-26-5	Toluene-d8 (Surr)	87		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45B-032012 Lab Sample ID: 240-9383-34

Matrix: Water Lab File ID: UX930823.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:15

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 21:08

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	2.8		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45B-032012 Lab Sample ID: 240-9383-34

Matrix: Water Lab File ID: UX930823.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:15

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 21:08

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	3.3		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.91		0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45B-032012 Lab Sample ID: 240-9383-34

Matrix: Water Lab File ID: UX930823.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:15

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 21:08

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.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	80		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129
2037-26-5	Toluene-d8 (Surr)	89		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45C-032012 Lab Sample ID: 240-9383-35

Matrix: Water Lab File ID: UX930824.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:19

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 21:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.90	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45C-032012 Lab Sample ID: 240-9383-35

Matrix: Water Lab File ID: UX930824.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:19

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 21:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.25	J	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45C-032012 Lab Sample ID: 240-9383-35

Matrix: Water Lab File ID: UX930824.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:19

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 21:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		66-117
1868-53-7	Dibromofluoromethane (Surr)	79		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45D-032012 Lab Sample ID: 240-9383-36

Matrix: Water Lab File ID: UX930825.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:24

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 21:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.63	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45D-032012 Lab Sample ID: 240-9383-36

Matrix: Water Lab File ID: UX930825.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:24

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 21:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.71	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: MSA-SW45D-032012 Lab Sample ID: 240-9383-36

Matrix: Water Lab File ID: UX930825.D

Analysis Method: 8260B Date Collected: 03/20/2012 12:24

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 21:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	81		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: TB-032012 Lab Sample ID: 240-9383-41

Matrix: Water Lab File ID: UX930817.D

Analysis Method: 8260B Date Collected: 03/20/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 18:42

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: TB-032012 Lab Sample ID: 240-9383-41

Matrix: Water Lab File ID: UX930817.D

Analysis Method: 8260B Date Collected: 03/20/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 18:42

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.1	B	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	0.47	J B	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	0.30	J	1.0	0.12
135-98-8	sec-Butylbenzene	0.34	J B	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	0.23	J B	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.61	J B	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	0.46	J B	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: TB-032012 Lab Sample ID: 240-9383-41

Matrix: Water Lab File ID: UX930817.D

Analysis Method: 8260B Date Collected: 03/20/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 18:42

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	81		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

APPENDIX C

SUPPORT DOCUMENTATION

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
MF	UG/L	MSA-SW43D-032012	240-9383-28	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW41C-032012	240-9383-19	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW43B-032012	240-9383-26	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW43A-032012	240-9383-25	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW42D-032012	240-9383-24	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW42C-032012	240-9383-23	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW42B-032012	240-9383-22	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW42A-032012	240-9383-21	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW41D-032012	240-9383-20	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW43C-032012	240-9383-27	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW44D-032012	240-9383-32	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
OV	UG/L	MSA-SW43B-032012	240-9383-26	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW41C-032012	240-9383-19	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW43A-032012	240-9383-25	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW42D-032012	240-9383-24	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW42C-032012	240-9383-23	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW42B-032012	240-9383-22	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW41D-032012	240-9383-20	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	MSA-SW42A-032012	240-9383-21	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW43C-032012	240-9383-27	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW43D-032012	240-9383-28	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	MSA-SW44A-032012	240-9383-29	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	MSA-SW44B-032012	240-9383-30	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	MSA-SW44C-032012	240-9383-31	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	MSA-SW44D-032012	240-9383-32	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	MSA-SW45A-032012	240-9383-33	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	MSA-SW41B-032012	240-9383-18	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW45C-032012	240-9383-35	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	MSA-SW38B-032012	240-9383-6	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW45D-032012	240-9383-36	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	MSA-SW45B-032012	240-9383-34	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	MSA-SW38C-032012	240-9383-7	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	TB-032012	240-9383-41	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	EL-SW01A-032012	240-9383-37	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	EL-SW01B-032012	240-9383-38	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	EL-SW01C-032012	240-9383-39	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	EL-SW01D-032012	240-9383-40	NM	3/20/2012	3/23/2012	3/23/2012	3	0	3
OV	UG/L	MSA-SW37A-032012	240-9383-1	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW37B-032012	240-9383-2	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW37C-032012	240-9383-3	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW38D-032012	240-9383-8	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW38A-032012	240-9383-5	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW41A-032012	240-9383-17	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW39A-032012	240-9383-9	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW39B-032012	240-9383-10	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW39C-032012	240-9383-11	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW39D-032012	240-9383-12	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW40A-032012	240-9383-13	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW40B-032012	240-9383-14	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW40C-032012	240-9383-15	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW40D-032012	240-9383-16	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW37D-032012	240-9383-4	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	1 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below 3DAY			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			Sampler:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
MSA-SW37A-032012	3/20/2012	1505	SW	Water	4	x	x	x	
MSA-SW37B-032012	3/20/2012	1509	SW	Water	4	x	x	x	
MSA-SW37C-032012	3/20/2012	1512	SW	Water	4	x	x	x	
MSA-SW37D-032012	3/20/2012	1515	SW	Water	4	x	x	x	
MSA-SW38A-032012	3/20/2012	1400	SW	Water	4	x	x	x	
MSA-SW38B-032012	3/20/2012	1405	SW	Water	4	x	x	x	
MSA-SW38C-032012	3/20/2012	1410	SW	Water	4	x	x	x	
MSA-SW38D-032012	3/20/2012	1416	SW	Water	4	x	x	x	
MSA-SW39A-032012	3/20/2012	1146	SW	Water	4	x	x	x	
MSA-SW39B-032012	3/20/2012	1155	SW	Water	4	x	x	x	
MSA-SW39C-032012	3/20/2012	1159	SW	Water	4	x	x	x	
MSA-SW39D-032012	3/20/2012	1204	SW	Water	4	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS NEED TO BE FILTERED IN THE LAB**

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Walt Pa	TT INC	3-20-12/1800		TAL	3/21/12 10:00AM
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

3/22/2012

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	2 of 4 COCs
20251 Century Blvd, Suite 200	**Analysis Turnaround Time**			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below 3 DAY			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler:
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
MSA-SW40A-032012	3/20/2012	1420	SW	Water	4	x	x	x	
MSA-SW40B-032012	3/20/2012	1430	SW	Water	4	x	x	x	
MSA-SW40C-032012	3/20/2012	1434	SW	Water	4	x	x	x	
MSA-SW40D-032012	3/20/2012	1436	SW	Water	4	x	x	x	
MSA-SW41A-032012	3/20/2012	1343	SW	Water	4	x	x	x	
MSA-SW41B-032012	3/20/2012	1347	SW	Water	4	x	x	x	
MSA-SW41C-032012	3/20/2012	1352	SW	Water	4	x	x	x	
MSA-SW41D-032012	3/20/2012	1355	SW	Water	4	x	x	x	
MSA-SW42A-032012	3/20/2012	1443	SW	Water	4	x	x	x	
MSA-SW42B-032012	3/20/2012	1449	SW	Water	4	x	x	x	
MSA-SW42C-032012	3/20/2012	1459	SW	Water	4	x	x	x	
MSA-SW42D-032012	3/20/2012	1500	SW	Water	4	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS NEED TO BE FILTERED IN THE LAB**

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[illegible] 3/21/2012	TT ~~Test~~ Inc	3-20-12 1800	[illegible]	TT NC	3/21/12 10:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No: 3 of 4 COCs
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	
20251 Century Blvd, Suite 200	**Analysis Turnaround Time**			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below 3 DAY			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler:
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
MSA-SW43A-032012	3/20/2012	1251	SW	Water	4	x	x	x	
MSA-SW43B-032012	3/20/2012	1256	SW	Water	4	x	x	x	
MSA-SW43C-032012	3/20/2012	1300	SW	Water	4	x	x	x	
MSA-SW43D-032012	3/20/2012	1304	SW	Water	4	x	x	x	
MSA-SW44A-032012	3/20/2012	1230	SW	Water	4	x	x	x	
MSA-SW44B-032012	3/20/2012	1236	SW	Water	4	x	x	x	
MSA-SW44C-032012	3/20/2012	1240	SW	Water	4	x	x	x	
MSA-SW44D-032012	3/20/2012	1245	SW	Water	4	x	x	x	
MSA-SW45A-032012	3/20/2012	1210	SW	Water	4	x	x	x	
MSA-SW45B-032012	3/20/2012	1215	SW	Water	4	x	x	x	
MSA-SW45C-032012	3/20/2012	1219	SW	Water	4	x	x	x	
MSA-SW45D-032012	3/20/2012	1224	SW	Water	4	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS NEED TO BE FILTERED IN THE LAB**

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

3/21/2012 3-20-12 1800 3/21/12 10:00am

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	4 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			SDG No.
(301) 528-3021 Phone	TAT if different from Below 3 DAY			
(301) 528-3000 FAX	☐ 2 weeks			Sampler:
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
EL-SW01A-032012	3/20/2012	1116	SW	Water	4	x	x	x	
EL-SW01B-032012	3/20/2012	1126	SW	Water	4	x	x	x	
EL-SW01C-032012	3/20/2012	1132	SW	Water	4	x	x	x	
EL-SW01D-032012	3/20/2012	1139	SW	Water	4	x	x	x	
TB-032012	3/20/2012	—	SW	Water	3		x		
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS NEED TO BE FILTERED IN THE LAB**

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

TestAmerica North Canton Sample Receipt Form/Narrative **Login # : 9383**

Client Tetra Tech Site Name _____ By: _____ (Signature)

Cooler Received on 3/21/12 Opened on 3/21/12

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

TestAmerica Cooler # _____ Foam Box Client Cooler (Multiple on Back) 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# 1	(CF -2°C)	Sample Temp_____°C	Corrected Temp_____°C
IR GUN# 4G	(CF -1°C)	Sample Temp_____°C	Corrected Temp_____°C
IR GUN# 5G	(CF -1°C)	Sample Temp_____°C	Corrected Temp_____°C
IR GUN# 6Y	(CF -2°C)	Sample Temp_____°C	Corrected Temp_____°C

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

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

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

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 Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Login Number: 9383
List Number: 1
Creator: Maddux, Ann

List Source: TestAmerica North Canton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6, 1.8, 3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CASE NARRATIVE

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Project: MSA Frog Mortar Creek

Report Number: 240-9383-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

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

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

RECEIPT

The samples were received on 03/21/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.8, 3.6 and 4.8C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MSA-SW37A-032012 (240-9383-1), MSA-SW37B-032012 (240-9383-2), MSA-SW37C-032012 (240-9383-3), MSA-SW37D-032012 (240-9383-4), MSA-SW38A-032012 (240-9383-5), MSA-SW38B-032012 (240-9383-6), MSA-SW38C-032012 (240-9383-7), MSA-SW38D-032012 (240-9383-8), MSA-SW39A-032012 (240-9383-9), MSA-SW39B-032012 (240-9383-10), MSA-SW39C-032012 (240-9383-11), MSA-SW39D-032012 (240-9383-12), MSA-SW40A-032012 (240-9383-13), MSA-SW40B-032012 (240-9383-14), MSA-SW40C-032012 (240-9383-15), MSA-SW40D-032012 (240-9383-16), MSA-SW41A-032012 (240-9383-17), MSA-SW41B-032012 (240-9383-18), MSA-SW41C-032012 (240-9383-19), MSA-SW41D-032012 (240-9383-20), MSA-SW42A-032012 (240-9383-21), MSA-SW42B-032012 (240-9383-22), MSA-SW42C-032012 (240-9383-23), MSA-SW42D-032012 (240-9383-24), MSA-SW43A-032012 (240-9383-25), MSA-SW43B-032012 (240-9383-26), MSA-SW43C-032012 (240-9383-27), MSA-SW43D-032012 (240-9383-28), MSA-SW44A-032012 (240-9383-29), MSA-SW44B-032012 (240-9383-30), MSA-SW44C-032012 (240-9383-31), MSA-SW44D-032012 (240-9383-32), MSA-SW45A-032012 (240-9383-33), MSA-SW45B-032012 (240-9383-34), MSA-SW45C-032012 (240-9383-35), MSA-SW45D-032012 (240-9383-36), EL-SW01A-032012 (240-9383-37), EL-SW01B-032012 (240-9383-38), EL-SW01C-032012 (240-9383-39), EL-SW01D-032012 (240-9383-40) and TB-032012 (240-9383-41) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/22/2012 and 03/23/2012.

Hexachlorobutadiene was detected in method blank MB 240-37611/6 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 "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Methylene Chloride was detected in method blank MB 240-37654/6 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 "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-37839/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above

the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample MSA-SW40B-032012MS/MSD (240-9383-14) in batch 240-37654. 2-Hexanone failed the recovery criteria high.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample MSA-SW37A-032012MS/MSD (240-9383-1) in batch 240-37611.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample MSA-SW43D-032012MS/MSD (240-9383-28) in batch 240-37839.

Refer to the QC report for details.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Samples MSA-SW37A-032012 (240-9383-1), MSA-SW37B-032012 (240-9383-2), MSA-SW37C-032012 (240-9383-3), MSA-SW37D-032012 (240-9383-4), MSA-SW38A-032012 (240-9383-5), MSA-SW38B-032012 (240-9383-6), MSA-SW38C-032012 (240-9383-7), MSA-SW38D-032012 (240-9383-8), MSA-SW39A-032012 (240-9383-9), MSA-SW39B-032012 (240-9383-10), MSA-SW39C-032012 (240-9383-11), MSA-SW39D-032012 (240-9383-12), MSA-SW40A-032012 (240-9383-13), MSA-SW40B-032012 (240-9383-14), MSA-SW40C-032012 (240-9383-15), MSA-SW40D-032012 (240-9383-16), MSA-SW41A-032012 (240-9383-17), MSA-SW41B-032012 (240-9383-18), MSA-SW41C-032012 (240-9383-19), MSA-SW41D-032012 (240-9383-20), MSA-SW42A-032012 (240-9383-21), MSA-SW42B-032012 (240-9383-22), MSA-SW42C-032012 (240-9383-23), MSA-SW42D-032012 (240-9383-24), MSA-SW43A-032012 (240-9383-25), MSA-SW43B-032012 (240-9383-26), MSA-SW43C-032012 (240-9383-27), MSA-SW43D-032012 (240-9383-28), MSA-SW44A-032012 (240-9383-29), MSA-SW44B-032012 (240-9383-30), MSA-SW44C-032012 (240-9383-31), MSA-SW44D-032012 (240-9383-32), MSA-SW45A-032012 (240-9383-33), MSA-SW45B-032012 (240-9383-34), MSA-SW45C-032012 (240-9383-35), MSA-SW45D-032012 (240-9383-36), EL-SW01A-032012 (240-9383-37), EL-SW01B-032012 (240-9383-38), EL-SW01C-032012 (240-9383-39) and EL-SW01D-032012 (240-9383-40) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/21/2012 and analyzed on 03/22/2012.

Nickel and Zinc were detected in method blank MB 240-37512/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-37534/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)

Samples MSA-SW37A-032012 (240-9383-1), MSA-SW37B-032012 (240-9383-2), MSA-SW37C-032012 (240-9383-3), MSA-SW37D-032012 (240-9383-4), MSA-SW38A-032012 (240-9383-5), MSA-SW38B-032012 (240-9383-6), MSA-SW38C-032012 (240-9383-7), MSA-SW38D-032012 (240-9383-8), MSA-SW39A-032012 (240-9383-9), MSA-SW39B-032012 (240-9383-10), MSA-SW39C-032012 (240-9383-11), MSA-SW39D-032012 (240-9383-12), MSA-SW40A-032012 (240-9383-13), MSA-SW40B-032012 (240-9383-14), MSA-SW40C-032012 (240-9383-15), MSA-SW40D-032012 (240-9383-16), MSA-SW41A-032012 (240-9383-17), MSA-SW41B-032012 (240-9383-18), MSA-SW41C-032012 (240-9383-19), MSA-SW41D-032012 (240-9383-20), MSA-SW42A-032012 (240-9383-21), MSA-SW42B-032012 (240-9383-22), MSA-SW42C-032012 (240-9383-23), MSA-SW42D-032012 (240-9383-24), MSA-SW43A-032012 (240-9383-25), MSA-SW43B-032012 (240-9383-26), MSA-SW43C-032012 (240-9383-27), MSA-SW43D-032012 (240-9383-28), MSA-SW44A-032012 (240-9383-29), MSA-SW44B-032012 (240-9383-30), MSA-SW44C-032012 (240-9383-31), MSA-SW44D-032012 (240-9383-32), MSA-SW45A-032012 (240-9383-33), MSA-SW45B-032012 (240-9383-34), MSA-SW45C-032012 (240-9383-35), MSA-SW45D-032012 (240-9383-36), EL-SW01A-032012 (240-9383-37), EL-SW01B-032012 (240-9383-38), EL-SW01C-032012 (240-9383-39) and EL-SW01D-032012 (240-9383-40) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 03/21/2012 and analyzed on 03/22/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-9383-1	MSA-SW37A-032012	Water	03/20/2012 1505	03/21/2012 1000
240-9383-2	MSA-SW37B-032012	Water	03/20/2012 1509	03/21/2012 1000
240-9383-3	MSA-SW37C-032012	Water	03/20/2012 1512	03/21/2012 1000
240-9383-4	MSA-SW37D-032012	Water	03/20/2012 1515	03/21/2012 1000
240-9383-5	MSA-SW38A-032012	Water	03/20/2012 1400	03/21/2012 1000
240-9383-6	MSA-SW38B-032012	Water	03/20/2012 1405	03/21/2012 1000
240-9383-7	MSA-SW38C-032012	Water	03/20/2012 1410	03/21/2012 1000
240-9383-8	MSA-SW38D-032012	Water	03/20/2012 1416	03/21/2012 1000
240-9383-9	MSA-SW39A-032012	Water	03/20/2012 1146	03/21/2012 1000
240-9383-10	MSA-SW39B-032012	Water	03/20/2012 1155	03/21/2012 1000
240-9383-11	MSA-SW39C-032012	Water	03/20/2012 1159	03/21/2012 1000
240-9383-12	MSA-SW39D-032012	Water	03/20/2012 1204	03/21/2012 1000
240-9383-13	MSA-SW40A-032012	Water	03/20/2012 1420	03/21/2012 1000
240-9383-14	MSA-SW40B-032012	Water	03/20/2012 1430	03/21/2012 1000
240-9383-15	MSA-SW40C-032012	Water	03/20/2012 1434	03/21/2012 1000
240-9383-16	MSA-SW40D-032012	Water	03/20/2012 1438	03/21/2012 1000
240-9383-17	MSA-SW41A-032012	Water	03/20/2012 1343	03/21/2012 1000
240-9383-18	MSA-SW41B-032012	Water	03/20/2012 1347	03/21/2012 1000
240-9383-19	MSA-SW41C-032012	Water	03/20/2012 1352	03/21/2012 1000
240-9383-20	MSA-SW41D-032012	Water	03/20/2012 1355	03/21/2012 1000
240-9383-21	MSA-SW42A-032012	Water	03/20/2012 1443	03/21/2012 1000
240-9383-22	MSA-SW42B-032012	Water	03/20/2012 1449	03/21/2012 1000
240-9383-23	MSA-SW42C-032012	Water	03/20/2012 1454	03/21/2012 1000
240-9383-24	MSA-SW42D-032012	Water	03/20/2012 1500	03/21/2012 1000
240-9383-25	MSA-SW43A-032012	Water	03/20/2012 1251	03/21/2012 1000
240-9383-26	MSA-SW43B-032012	Water	03/20/2012 1256	03/21/2012 1000
240-9383-27	MSA-SW43C-032012	Water	03/20/2012 1300	03/21/2012 1000
240-9383-28	MSA-SW43D-032012	Water	03/20/2012 1304	03/21/2012 1000
240-9383-29	MSA-SW44A-032012	Water	03/20/2012 1230	03/21/2012 1000
240-9383-30	MSA-SW44B-032012	Water	03/20/2012 1236	03/21/2012 1000
240-9383-31	MSA-SW44C-032012	Water	03/20/2012 1240	03/21/2012 1000
240-9383-32	MSA-SW44D-032012	Water	03/20/2012 1245	03/21/2012 1000
240-9383-33	MSA-SW45A-032012	Water	03/20/2012 1210	03/21/2012 1000
240-9383-34	MSA-SW45B-032012	Water	03/20/2012 1215	03/21/2012 1000
240-9383-35	MSA-SW45C-032012	Water	03/20/2012 1219	03/21/2012 1000
240-9383-36	MSA-SW45D-032012	Water	03/20/2012 1224	03/21/2012 1000
240-9383-37	EL-SW01A-032012	Water	03/20/2012 1116	03/21/2012 1000
240-9383-38	EL-SW01B-032012	Water	03/20/2012 1126	03/21/2012 1000
240-9383-39	EL-SW01C-032012	Water	03/20/2012 1132	03/21/2012 1000
240-9383-40	EL-SW01D-032012	Water	03/20/2012 1139	03/21/2012 1000
240-9383-41	TB-032012	Water	03/20/2012 0000	03/21/2012 1000

METHOD SUMMARY

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Priority Pollutants	TAL NC	SW846 8260B	
Purge and Trap	TAL NC		SW846 5030B
Metals (ICP/MS)	TAL NC	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL NC		SW846 3005A
Sample Filtration	TAL NC		FILTRATION
Mercury (CVAA)	TAL NC	SW846 7470A	
Preparation, Mercury	TAL NC		SW846 7470A
Sample Filtration	TAL NC		FILTRATION

Lab References:

TAL NC = TestAmerica North Canton

Method References:

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

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Method 8260B

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

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab File ID: BFB1767.D BFB Injection Date: 02/07/2012

Instrument ID: A3UX12 BFB Injection Time: 19:19

Analysis Batch No.: 33074

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	43.6	
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	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	73.0	
175	5.0 - 9.0 % of mass 174	5.8	(7.9)1
176	95.0 - 101.0 % of mass 174	69.6	(95.3)1
177	5.0 - 9.0 % of mass 176	4.7	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-33074/4	UX122177.D	02/07/2012	20:19
	STD8260 240-33074/5	UX122178.D	02/07/2012	20:43
	STD8260 240-33074/6	UX122179.D	02/07/2012	21:09
	STD8260 240-33074/7	UX122180.D	02/07/2012	21:34
	STD8260 240-33074/8	UX122181.D	02/07/2012	21:58
	STD8260 240-33074/9	UX122182.D	02/07/2012	22:23
	STDA9 240-33074/10	UX122183.D	02/07/2012	22:48
	STDA9 240-33074/11	UX122184.D	02/07/2012	23:13
	STDA9 240-33074/12	UX122185.D	02/07/2012	23:38
	STDA9 240-33074/13	UX122186.D	02/08/2012	00:03
	STDA9 240-33074/14	UX122187.D	02/08/2012	00:29
	ICV 240-33074/15	UX122188.D	02/08/2012	00:54

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19 Calibration End Date: 02/07/2012 22:23 Calibration ID: 6865

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-33074/4	UX122177.D
Level 2	STD8260 240-33074/5	UX122178.D
Level 3	STD8260 240-33074/6	UX122179.D
Level 4	STD8260 240-33074/7	UX122180.D
Level 5	STD8260 240-33074/8	UX122181.D
Level 6	STD8260 240-33074/9	UX122182.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	0.1630	0.1529	0.1358	0.1607	0.1745	Ave		0.1574				9.1		15.0			
Chloromethane	0.3331 0.2369	0.2670	0.2268	0.2588	0.2564	Ave		0.2632			0.1000	14.0		15.0			
Vinyl chloride	0.3098 0.3082	0.3159	0.2929	0.3237	0.3326	Ave		0.3139				4.4		15.0			
Bromomethane	0.1786 0.1827	0.1761	0.1658	0.1753	0.1861	Ave		0.1774				3.9		15.0			
Chloroethane	0.2010 0.1993	0.1840	0.1891	0.2071	0.2093	Ave		0.1983				5.0		15.0			
Trichlorofluoromethane	0.2797	0.1786	0.2288	0.2770	0.2950	Lin1	-0.135	0.2838							0.9970		0.9900
~~Acrolein~~	0.0212	0.0240	0.0195	0.0222	0.0200	Ave		~~0.0214~~				8.4		15.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2024	0.1932	0.1905	0.1670	0.2135	Ave		0.1933				8.9		15.0			
1,1-Dichloroethene	0.3433 0.3787	0.3698	0.3556	0.3520	0.3988	Ave		0.3664				5.5		15.0			
Acetone OK OK AVG >0.05	0.0475	0.2237	0.0549	0.0519	0.0513	Lin1	0.3437	0.0450							0.9970		0.9900
Iodomethane	0.3897 0.3584	0.3624	0.3460	0.3536	0.3691	Ave		0.3632				4.2		15.0			
Carbon disulfide	0.7843 0.7808	0.7511	0.7650	0.7581	0.8179	Ave		0.7762				3.1		15.0			
~~Acetonitrile~~	0.0240	0.0339	0.0242	0.0256	0.0228	Lin1	0.1042	~~0.0236~~							0.9990		0.9900
Methyl acetate	0.1385	0.2115	0.1337	0.1518	0.1334	Lin1	0.1437	0.1367							0.9980		0.9900
Methylene Chloride	0.2923	0.4190	0.3066	0.2974	0.2984	Lin1	0.1289	0.2921							1.0000		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19 Calibration End Date: 02/07/2012 22:23 Calibration ID: 6865

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
~~tert-Butyl alcohol~~	0.0216 0.0160	0.0152	0.0137	0.0180	0.0143	Lin1	0.0316	~~0.0156~~							0.9930		0.9900
Acrylonitrile	0.1113 0.0710	0.0727	0.0638	0.0726	0.0650	Lin1	0.0276	0.0687							0.9970		0.9900
Methyl tert-butyl ether	0.7371 0.6136	0.5773	0.5542	0.6286	0.5813	Ave		0.6154				11.0		15.0			
trans-1,2-Dichloroethene	0.3008 0.2850	0.2627	0.2877	0.2803	0.2930	Ave		0.2849				4.5		15.0			
Hexane	0.2146 0.1757	0.1787	0.1736	0.1362	0.1803	Ave		0.1765				14.0		15.0			
1,1-Dichloroethane	0.3970 0.3552	0.3508	0.3496	0.3533	0.3608	Ave		0.3611			0.1000	5.0		15.0			
Vinyl acetate AVG <0.05	0.0328	0.0280	0.0312	0.0316	0.0324	Ave		0.0312				6.1		15.0			
2,2-Dichloropropane	0.1840 0.1587	0.1536	0.1680	0.1627	0.1647	Ave		0.1653				6.3		15.0			
2-Butanone AVG <0.05	0.0328 0.0223	0.0223	0.0186	0.0233	0.0205	Lin1	0.0063	0.0216							0.9960		0.9900
cis-1,2-Dichloroethene	0.2728 0.3051	0.3285	0.3115	0.3057	0.3052	Ave		0.3048				5.9		15.0			
Bromochloromethane	0.2035 0.1724	0.1813	0.1664	0.1942	0.1718	Ave		0.1816				8.0		15.0			
~~Tetrahydrofuran~~	0.0510	0.0893	0.0413	0.0578	0.0457	Lin1	0.0338	~~0.0490~~							0.9900		0.9900
Chloroform	0.3749 0.3445	0.3595	0.3477	0.3332	0.3419	Ave		0.3503				4.2		15.0			
1,1,1-Trichloroethane	0.2477 0.2369	0.2084	0.2278	0.2184	0.2314	Ave		0.2285				6.0		15.0			
Cyclohexane	0.3370 0.2837	0.3015	0.2702	0.2373	0.2897	Ave		0.2866				12.0		15.0			
1,1-Dichloropropene	0.2557 0.2719	0.2436	0.2650	0.2561	0.2777	Ave		0.2617				4.7		15.0			
Carbon tetrachloride	0.1486 0.1860	0.1560	0.1699	0.1613	0.1823	Ave		0.1673				8.8		15.0			
1,2-Dichloroethane	0.2562 0.2581	0.2642	0.2399	0.2537	0.2537	Ave		0.2543				3.2		15.0			
Benzene	0.9727 0.8870	0.9302	0.8629	0.8552	0.8734	Ave		0.8969				5.1		15.0			
Trichloroethene	0.2160 0.2155	0.2270	0.2071	0.2124	0.2141	Ave		0.2154				3.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19 Calibration End Date: 02/07/2012 22:23 Calibration ID: 6865

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylcyclohexane	0.2163 0.1781	0.1847	0.1749	0.1377	0.1852	Ave		0.1795				14.0		15.0			
1,2-Dichloropropane	0.1847 0.2137	0.2262	0.2033	0.2145	0.2137	Ave		0.2093				6.7		15.0			
~~1,4-Dioxane~~	0.0021 0.0024	0.0017	0.0020	0.0025	0.0023	Ave		~~0.0022~~				13.0		15.0			
Dibromomethane	0.1351 0.1271	0.1251	0.1244	0.1255	0.1242	Ave		0.1269				3.3		15.0			
Bromodichloromethane	0.2803 0.2601	0.2544	0.2432	0.2538	0.2588	Ave		0.2584				4.7		15.0			
2-Chloroethyl vinyl ether	0.1459 0.1373	0.1221	0.1207	0.1323	0.1290	Ave		0.1312				7.2		15.0			
cis-1,3-Dichloropropene	0.3651 0.3684	0.3460	0.3457	0.3567	0.3661	Ave		0.3580				2.8		15.0			
4-Methyl-2-pentanone	0.2432 0.1588	0.1822	0.1345	0.1651	0.1438	Lin1	0.0681	0.1532							0.9960		0.9900
Toluene	1.2795 1.2309	1.1940	1.2234	1.1698	1.2374	Ave		1.2225				3.1		15.0			
trans-1,3-Dichloropropene	0.4659 0.4363	0.4232	0.4110	0.4202	0.4246	Ave		0.4302				4.5		15.0			
Ethyl methacrylate	0.4091 0.3893	0.3684	0.3489	0.3752	0.3580	Ave		0.3748				5.8		15.0			
1,1,2-Trichloroethane	0.2861 0.2451	0.2476	0.2378	0.2452	0.2383	Ave		0.2500				7.3		15.0			
Tetrachloroethene	0.2942 0.2371	0.2219	0.2230	0.2042	0.2416	Ave		0.2370				13.0		15.0			
1,3-Dichloropropane	0.4622 0.4694	0.4349	0.4555	0.4674	0.4642	Ave		0.4589				2.8		15.0			
2-Hexanone	0.1847 0.1483	0.1753	0.1291	0.1505	0.1342	Ave		0.1537				14.0		15.0			
Dibromochloromethane	0.2270 0.2541	0.2093	0.2319	0.2424	0.2475	Ave		0.2354				6.9		15.0			
1,2-Dibromoethane	0.2824 0.2519	0.2547	0.2523	0.2495	0.2440	Ave		0.2558				5.3		15.0			
Chlorobenzene	0.8558 0.8072	0.8081	0.7929	0.7663	0.8116	Ave		0.8070			0.3000	3.6		15.0			
1,1,1,2-Tetrachloroethane	0.2489 0.2614	0.2620	0.2362	0.2425	0.2588	Ave		0.2517				4.3		15.0			
Ethylbenzene	0.3442 0.3905	0.3377	0.3858	0.3614	0.3893	Ave		0.3681				6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19 Calibration End Date: 02/07/2012 22:23 Calibration ID: 6865

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
m-Xylene & p-Xylene	0.4724 0.5028	0.4770	0.4858	0.4598	0.4949	Ave		0.4821				3.2		15.0			
o-Xylene	0.5224 0.4985	0.4971	0.4996	0.4656	0.4994	Ave		0.4971				3.7		15.0			
Styrene	0.9362 0.9463	0.9496	0.9074	0.8729	0.9485	Ave		0.9268				3.3		15.0			
Bromoform	 0.1626	0.1571	0.1452	0.1532	0.1548	Ave		0.1546			0.1000	4.1		15.0			
Isopropylbenzene	1.0046 1.1487	1.1015	1.1243	1.0267	1.1519	Ave		1.0929				5.8		15.0			
1,1,2,2-Tetrachloroethane	0.9790 0.8175	0.8333	0.7705	0.8157	0.7403	Ave		0.8260			0.3000	10.0		15.0			
Bromobenzene	0.8614 0.7567	0.7407	0.7867	0.7198	0.7534	Ave		0.7698				6.5		15.0			
1,2,3-Trichloropropane	0.2559 0.2610	0.2410	0.2353	0.2608	0.2355	Ave		0.2482				5.0		15.0			
trans-1,4-Dichloro-2-butene	 0.2368	0.2516	0.2198	0.2272	0.2206	Ave		0.2312				5.8		15.0			
n-Propylbenzene	0.6082 0.7027	0.6887	0.7070	0.6213	0.6927	Ave		0.6701				6.5		15.0			
2-Chlorotoluene	0.7388 0.6464	0.5601	0.6604	0.6013	0.6342	Ave		0.6402				9.4		15.0			
1,3,5-Trimethylbenzene	2.2498 2.2431	2.0365	2.2253	1.9629	2.1834	Ave		2.1502				5.6		15.0			
4-Chlorotoluene	0.6971 0.6998	0.6516	0.6946	0.6579	0.6992	Ave		0.6834				3.3		15.0			
tert-Butylbenzene	1.7318 1.8665	1.7590	1.8288	1.6050	1.8294	Ave		1.7701				5.4		15.0			
1,2,4-Trimethylbenzene	2.2814 2.3203	2.2868	2.3104	2.0977	2.2776	Ave		2.2624				3.6		15.0			
sec-Butylbenzene	2.3725 2.7238	2.5627	2.6859	2.3321	2.6793	Ave		2.5594				6.6		15.0			
1,3-Dichlorobenzene	1.3785 1.3089	1.3083	1.3201	1.2398	1.3073	Ave		1.3105				3.4		15.0			
p-Isopropyltoluene	1.9362 2.2936	2.1326	2.2278	1.9853	2.2451	Ave		2.1368				6.9		15.0			
1,4-Dichlorobenzene	1.5718 1.3709	1.3465	1.3980	1.2771	1.3433	Ave		1.3846				7.2		15.0			
n-Butylbenzene	1.8636 2.0225	2.0343	1.9669	1.7509	2.0400	Ave		1.9464				6.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19 Calibration End Date: 02/07/2012 22:23 Calibration ID: 6865

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	1.2736 1.2755	1.2404	1.2688	1.1998	1.2484	Ave		1.2511				2.3		15.0			
1,2-Dibromo-3-Chloropropane	0.1355	0.1112	0.1103	0.1312	0.1208	Ave		0.1218				9.4		15.0			
1,3,5-Trichlorobenzene	0.8515 0.8057	0.9239	0.7892	0.7395	0.7851	Ave		0.8158				7.9		15.0			
1,2,4-Trichlorobenzene	0.6778 0.6656	0.6516	0.5777	0.6335	0.6165	Ave		0.6371				5.7		15.0			
Hexachlorobutadiene	0.3902 0.3026	0.3201	0.3000	0.2619	0.2906	Ave		0.3109				14.0		15.0			
Naphthalene	1.6967 1.5465	1.2844	1.2198	1.5495	1.3099	Ave		1.4345				13.0		15.0			
1,2,3-Trichlorobenzene	0.4296 0.4542	0.4027	0.3454	0.4495	0.3853	Ave		0.4111				10.0		15.0			
Dibromofluoromethane (Surr)	0.1924	0.2050	0.1886	0.2238	0.1908	Ave		0.2001				7.3		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2318	0.2346	0.1982	0.2734	0.2236	Ave		0.2323				12.0		15.0			
Toluene-d8 (Surr)	1.0896	1.1248	1.0875	1.2038	1.0652	Ave		1.1142				4.9		15.0			
4-Bromofluorobenzene (Surr)	0.4203	0.4638	0.4337	0.4477	0.4215	Ave		0.4374				4.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19 Calibration End Date: 02/07/2012 22:23 Calibration ID: 6865

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-33074/4	UX122177.D
Level 2	STD8260 240-33074/5	UX122178.D
Level 3	STD8260 240-33074/6	UX122179.D
Level 4	STD8260 240-33074/7	UX122180.D
Level 5	STD8260 240-33074/8	UX122181.D
Level 6	STD8260 240-33074/9	UX122182.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	965983	11179	101345	229222	506051	80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	12176 1404030	19524	169200	369124	743335	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	11322 1826432	23102	218572	461692	964384	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	6528 1082476	12880	123695	250133	539434	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	7345 1181115	13455	141099	295407	606732	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Lin1	1657528	13058	170738	395120	855190	80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	1256640	17535	145539	316712	580856	800	10.0	100	200	400
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	1199165	14131	142177	238231	619049	80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethene	FB	Ave	12549 2243897	27042	265345	502165	1156144	0.500 80.0	1.00	10.0	20.0	40.0
Acetone	FB	Lin1	562527	32714	81926	147952	297372	160	2.00	20.0	40.0	80.0
Iodomethane	FB	Ave	14243 2123672	26501	258194	504375	1070173	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	28665 4626786	54928	570835	1081395	2371299	0.500 80.0	1.00	10.0	20.0	40.0
Acetonitrile	FB	Lin1	1420141	24758	180277	365862	660390	800	10.0	100	200	400
Methyl acetate	FB	Lin1	1642043	30935	199475	432996	773594	160	2.00	20.0	40.0	80.0
Methylene Chloride	FB	Lin1	1732279	30642	228745	424208	865252	80.0	1.00	10.0	20.0	40.0
tert-Butyl alcohol	FB	Lin1	15814 1899255	22209	204085	512118	830664	10.0 1600	20.0	200	400	800

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19 Calibration End Date: 02/07/2012 22:23 Calibration ID: 6865

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
Acrylonitrile	FB	Lin1	8137 840951	10639	95173	207062	377171	1.00 160	2.00	20.0	40.0	80.0
Methyl tert-butyl ether	FB	Ave	26939 3636074	42218	413517	896766	1685265	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	10994 1688890	19213	214676	399788	849538	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	7842 1041110	13070	129527	194247	522750	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	14510 2104727	25656	260820	503932	1046157	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	 194231	2046	23287	45111	94047	 80.0	1.00	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	6725 940592	11232	125383	232042	477637	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone	FB	Lin1	2397 264101	3256	27770	66571	118915	1.00 160	2.00	20.0	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	9972 1808144	24022	232399	436092	884813	0.500 80.0	1.00	10.0	20.0	40.0
Bromochloromethane	FB	Ave	7439 1021894	13260	124124	277007	498024	0.500 80.0	1.00	10.0	20.0	40.0
Tetrahydrofuran	FB	Lin1	 302453	6530	30837	82400	132397	 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	13704 2041501	26291	259453	475298	991303	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	9053 1403976	15243	169969	311613	670925	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	12317 1680952	22050	201612	338576	839993	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	9346 1611091	17813	197737	365258	805227	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5432 1102271	11408	126756	230079	528428	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	9363 1529308	19319	179037	361929	735392	0.500 80.0	1.00	10.0	20.0	40.0
Benzene	FB	Ave	35550 5255971	68025	643858	1219988	2532076	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	7893 1277232	16601	154527	303019	620685	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	7906 1055637	13510	130510	196469	537000	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	6750 1266639	16542	151665	305950	619541	0.500 80.0	1.00	10.0	20.0	40.0

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19 Calibration End Date: 02/07/2012 22:23 Calibration ID: 6865

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	FB	Ave	3872 707461	6300	74377	177958	329863	25.0 4000	50.0	500	1000	2000
Dibromomethane	FB	Ave	4936 752925	9150	92793	179008	359963	0.500 80.0	1.00	10.0	20.0	40.0
Bromodichloromethane	FB	Ave	10244 1541367	18602	181453	362110	750321	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	10667 1626828	17864	180170	377562	747926	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	13343 2183175	25304	257959	508810	1061521	0.500 80.0	1.00	10.0	20.0	40.0
4-Methyl-2-pentanone	FB	Lin1	17778 1882615	26651	200691	471128	833943	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	35396 5544214	64883	671221	1299299	2711883	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	12890 1965167	22995	225469	466698	930532	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl methacrylate	CBZ	Ave	11317 1753549	20018	191443	416788	784625	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	7916 1103890	13454	130444	272368	522325	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	8139 1068019	12056	122322	226830	529416	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	12788 2114313	23632	249879	519162	1017425	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	10217 1336305	19054	141640	334272	588331	1.00 160	2.00	20.0	40.0	80.0
Dibromochloromethane	CBZ	Ave	6281 1144595	11373	127220	269214	542471	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromoethane	CBZ	Ave	7813 1134751	13839	138417	277136	534668	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	23677 3635636	43911	434999	851106	1778644	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	6886 1177509	14239	129596	269349	567291	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	9523 1758791	18352	211645	401386	853152	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	26138 4529549	51834	533082	1021507	2169295	1.00 160	2.00	20.0	40.0	80.0
o-Xylene	CBZ	Ave	14453 2245303	27014	274097	517113	1094540	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	25901 4262120	51600	497837	969519	2078848	0.500 80.0	1.00	10.0	20.0	40.0

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19 Calibration End Date: 02/07/2012 22:23 Calibration ID: 6865

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	732585	8537	79672	170176	339173	80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	27793 5173651	59855	616841	1140324	2524510	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	11521 1572158	19869	177688	393018	714033	0.500 80.0	1.00	10.0	20.0	40.0
Bromobenzene	DCB	Ave	10137 1455203	17662	181436	346832	726608	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichloropropane	DCB	Ave	3011 501953	5746	54262	125669	227133	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	455437	5999	50683	109465	212739	80.0	1.00	10.0	20.0	40.0
n-Propylbenzene	DCB	Ave	7157 1351372	16421	163057	299372	668067	0.500 80.0	1.00	10.0	20.0	40.0
2-Chlorotoluene	DCB	Ave	8694 1243030	13356	152295	289714	611687	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	26475 4313698	48561	513209	945802	2105906	0.500 80.0	1.00	10.0	20.0	40.0
4-Chlorotoluene	DCB	Ave	8203 1345815	15538	160197	316990	674327	0.500 80.0	1.00	10.0	20.0	40.0
tert-Butylbenzene	DCB	Ave	20379 3589440	41943	421765	773345	1764461	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	26847 4462185	54529	532832	1010762	2196704	0.500 80.0	1.00	10.0	20.0	40.0
sec-Butylbenzene	DCB	Ave	27919 5238258	61109	619420	1123719	2584185	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	16222 2517160	31196	304431	597413	1260902	0.500 80.0	1.00	10.0	20.0	40.0
p-Isopropyltoluene	DCB	Ave	22785 4410787	50851	513786	956582	2165433	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dichlorobenzene	DCB	Ave	18497 2636318	32107	322403	615385	1295592	0.500 80.0	1.00	10.0	20.0	40.0
n-Butylbenzene	DCB	Ave	21931 3889472	48509	453618	843638	1967532	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	14987 2452993	29577	292609	578118	1204087	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	260487	2651	25442	63217	116502	80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCB	Ave	10020 1549395	22031	181999	356338	757268	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	7976 1279975	15538	133236	305247	594596	0.500 80.0	1.00	10.0	20.0	40.0

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 20:19 Calibration End Date: 02/07/2012 22:23 Calibration ID: 6865

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
Hexachlorobutadiene	DCB	Ave	4592 581843	7633	69190	126206	280263	0.500 80.0	1.00	10.0	20.0	40.0
Naphthalene	DCB	Ave	19967 2974178	30627	281317	746623	1263407	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCB	Ave	5056 873489	9602	79651	216586	371659	0.500 80.0	1.00	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	1140324	14989	140737	319279	553246	80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	1373484	17159	147860	389987	648268	80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	4907740	61120	596628	1337030	2334566	80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	1892953	25201	237949	497236	923696	80.0	1.00	10.0	20.0	40.0

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 22:48 Calibration End Date: 02/08/2012 00:29 Calibration ID: 6868

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-33074/10	UX122183.D
Level 2	STDA9 240-33074/11	UX122184.D
Level 3	STDA9 240-33074/12	UX122185.D
Level 4	STDA9 240-33074/13	UX122186.D
Level 5	STDA9 240-33074/14	UX122187.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								
Dichlorofluoromethane	0.4218	0.4512	0.4283	0.4578	0.4660	Ave		0.4450				4.3		15.0			
Ethyl ether	0.1470	0.1560	0.1564	0.1671	0.1603	Ave		0.1573				4.6		15.0			
3-Chloro-1-propene	0.1124	0.1137	0.1106	0.1152	0.1178	Ave		0.1139				2.4		15.0			
Diisopropyl ether	0.1845	0.1854	0.1778	0.1915	0.1940	Ave		0.1866				3.4		15.0			
2-Chloro-1,3-butadiene	0.2444	0.2787	0.2684	0.2987	0.2932	Ave		0.2767				7.8		15.0			
Ethyl-t-butyl ether (ETBE)	0.6502	0.6029	0.5687	0.6324	0.6174	Ave		0.6143				5.0		15.0			
Ethyl acetate	0.1709	0.1369	0.1360	0.1529	0.1389	Ave		0.1471				10.0		15.0			
Propionitrile	0.0198	0.0241	0.0228	0.0256	0.0232	Ave		0.0231				9.2		15.0			
Methacrylonitrile	0.0960	0.0990	0.0972	0.1076	0.0993	Ave		0.0998				4.5		15.0			
Isobutyl alcohol	0.0069	0.0050	0.0054	0.0061	0.0056	Ave		0.0058				12.0		15.0			
Tert-amyl-methyl ether (TAME)	0.6033	0.5718	0.5545	0.6103	0.6058	Ave		0.5891				4.2		15.0			
n-Heptane	0.0107	0.0319	0.0349	0.0401	0.0421	Lin1	-0.031	0.0408							0.9950		0.9900
n-Butanol	0.0060	0.0056	0.0056	0.0066	0.0062	Ave		0.0060				6.9		15.0			
Methyl methacrylate	0.1745	0.1432	0.1431	0.1561	0.1464	Ave		0.1526				8.7		15.0			
2-Nitropropane	0.0316	0.0251	0.0255	0.0283	0.0265	Ave		0.0274				9.7		15.0			
n-Butyl acetate	0.3761	0.3079	0.3151	0.3550	0.3269	Ave		0.3362				8.5		15.0			
Cyclohexanone	0.0294	0.0278	0.0197	0.0239	0.0282	Ave		0.0250				16.0	*	15.0			
1,2,3-Trimethylbenzene	2.2419	2.2082	2.0039	2.2556	2.2920	Ave		2.2003				5.2		15.0			
2-Methylnaphthalene	0.1662	0.1377	0.2342	0.3585	0.2812	Ave		0.2355				38.0	*	15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 33074

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2012 22:48 Calibration End Date: 02/08/2012 00:29 Calibration ID: 6868

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-33074/10	UX122183.D
Level 2	STDA9 240-33074/11	UX122184.D
Level 3	STDA9 240-33074/12	UX122185.D
Level 4	STDA9 240-33074/13	UX122186.D
Level 5	STDA9 240-33074/14	UX122187.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorofluoromethane	FB	Ave	30691	326393	619206	1347985	2672725	1.00	10.0	20.0	40.0	80.0
Ethyl ether	FB	Ave	10698	112845	226061	491923	919257	1.00	10.0	20.0	40.0	80.0
3-Chloro-1-propene	FB	Ave	8182	82241	159883	339331	675391	1.00	10.0	20.0	40.0	80.0
Diisopropyl ether	FB	Ave	67116	670646	1285479	2819317	5561626	5.00	50.0	100	200	400
2-Chloro-1,3-butadiene	FB	Ave	17781	201651	388000	879419	1681559	1.00	10.0	20.0	40.0	80.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	47314	436208	822297	1861983	3540930	1.00	10.0	20.0	40.0	80.0
Ethyl acetate	FB	Ave	24872	198072	393140	900274	1592822	2.00	20.0	40.0	80.0	160
Propionitrile	FB	Ave	2887	34879	65911	150789	265904	2.00	20.0	40.0	80.0	160
Methacrylonitrile	FB	Ave	6984	71642	140603	316683	569707	1.00	10.0	20.0	40.0	80.0
Isobutyl alcohol	CBZ	Ave	7473	55012	118606	268155	493635	20.0	200	400	800	1600
Tert-amyl-methyl ether (TAME)	FB	Ave	43902	413661	801652	1796920	3474032	1.00	10.0	20.0	40.0	80.0
n-Heptane	FB	Lin1	1358	23066	50485	117988	241486	1.00	10.0	20.0	40.0	80.0
n-Butanol	CBZ	Ave	6494	61403	123160	291968	540041	20.0	200	400	800	1600
Methyl methacrylate	FB	Ave	12694	103568	206881	459771	839502	1.00	10.0	20.0	40.0	80.0
2-Nitropropane	FB	Ave	4601	36326	73834	166888	304024	2.00	20.0	40.0	80.0	160
n-Butyl acetate	CBZ	Ave	40685	336277	693298	1572251	2859570	2.00	20.0	40.0	80.0	160
Cyclohexanone	DCB	Ave	7020	63350	94921	228504	540958	10.0	100	200	400	800
1,2,3-Trimethylbenzene	DCB	Ave	53571	502504	967685	2157153	4397279	1.00	10.0	20.0	40.0	80.0
2-Methylnaphthalene	DCB	Ave	7944	62650	226145	685688	1079010	2.00	20.0	40.0	80.0	160

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: ICV 240-33074/15 Calibration Date: 02/08/2012 00:54

Instrument ID: A3UX12 Calib Start Date: 02/07/2012 20:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2012 22:23

Lab File ID: UX122188.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1574	0.1692		21.5	20.0	7.5	50.0
Chloromethane	Ave	0.2632	0.2739	0.1000	20.8	20.0	4.1	50.0
Vinyl chloride	Ave	0.3139	0.3135		20.0	20.0	-0.1	20.0
Bromomethane	Ave	0.1774	0.1698		19.1	20.0	-4.3	50.0
Chloroethane	Ave	0.1983	0.1944		19.6	20.0	-2.0	50.0
Trichlorofluoromethane	Lin1		0.2929		21.1	20.0	5.5	50.0
Acrolein	Ave	0.0214	0.0384		108	60.0	79.8*	50.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1933	0.2221		23.0	20.0	14.9	50.0
1,1-Dichloroethene	Ave	0.3664	0.4054		22.1	20.0	10.6	20.0
Acetone	Lin1		0.0543		40.6	40.0	1.5	50.0
Iodomethane	Ave	0.3632	0.3757		20.7	20.0	3.4	50.0
Carbon disulfide	Ave	0.7762	0.7965		20.5	20.0	2.6	50.0
Acetonitrile	Lin1		0.0256		60.7	60.0	1.2	50.0
Methyl acetate	Lin1		0.1372		19.0	20.0	-5.0	50.0
Methylene Chloride	Lin1		0.3132		21.0	20.0	5.0	50.0
tert-Butyl alcohol	Lin1		0.0183		467	400	16.7	50.0
Acrylonitrile	Lin1		0.0765		66.4	60.0	10.7	50.0
Methyl tert-butyl ether	Ave	0.6154	0.6332		20.6	20.0	2.9	50.0
trans-1,2-Dichloroethene	Ave	0.2849	0.2992		21.0	20.0	5.0	50.0
Hexane	Ave	0.1765	0.1810		20.5	20.0	2.6	20.0
1,1-Dichloroethane	Ave	0.3611	0.3771	0.1000	20.9	20.0	4.4	50.0
Vinyl acetate	Ave	0.0312	0.0542		34.7	20.0	73.5*	50.0
2,2-Dichloropropane	Ave	0.1653	0.1655		20.0	20.0	0.1	50.0
2-Butanone	Lin1		0.0234		42.9	40.0	7.3	50.0
cis-1,2-Dichloroethene	Ave	0.3048	0.3122		20.5	20.0	2.4	50.0
Bromochloromethane	Ave	0.1816	0.1748		19.3	20.0	-3.7	50.0
Tetrahydrofuran	Lin1		0.0523		20.7	20.0	3.5	50.0
Chloroform	Ave	0.3503	0.3651		20.8	20.0	4.2	20.0
1,1,1-Trichloroethane	Ave	0.2285	0.2277		19.9	20.0	-0.3	50.0
Cyclohexane	Ave	0.2866	0.2753		19.2	20.0	-3.9	50.0
1,1-Dichloropropene	Ave	0.2617	0.2731		20.9	20.0	4.4	50.0
Carbon tetrachloride	Ave	0.1673	0.1766		21.1	20.0	5.5	50.0
1,2-Dichloroethane	Ave	0.2543	0.2648		20.8	20.0	4.1	50.0
Benzene	Ave	0.8969	0.8696		19.4	20.0	-3.0	50.0
Trichloroethene	Ave	0.2154	0.2144		19.9	20.0	-0.4	50.0
Methylcyclohexane	Ave	0.1795	0.1650		18.4	20.0	-8.1	50.0
1,2-Dichloropropane	Ave	0.2093	0.2178		20.8	20.0	4.0	20.0
Dibromomethane	Ave	0.1269	0.1324		20.9	20.0	4.3	50.0
Bromodichloromethane	Ave	0.2584	0.2544		19.7	20.0	-1.5	50.0
2-Chloroethyl vinyl ether	Ave	0.1312	0.1413		21.5	20.0	7.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: ICV 240-33074/15 Calibration Date: 02/08/2012 00:54

Instrument ID: A3UX12 Calib Start Date: 02/07/2012 20:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2012 22:23

Lab File ID: UX122188.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
cis-1,3-Dichloropropene	Ave	0.3580	0.3448		19.3	20.0	-3.7	50.0
4-Methyl-2-pentanone	Lin1		0.1714		44.3	40.0	10.8	50.0
Toluene	Ave	1.223	1.217		19.9	20.0	-0.5	20.0
trans-1,3-Dichloropropene	Ave	0.4302	0.4304		20.0	20.0	0.0	50.0
1,1,2-Trichloroethane	Ave	0.2500	0.2492		19.9	20.0	-0.3	50.0
Tetrachloroethene	Ave	0.2370	0.2279		19.2	20.0	-3.8	50.0
1,3-Dichloropropane	Ave	0.4589	0.4792		20.9	20.0	4.4	50.0
2-Hexanone	Ave	0.1537	0.1607		41.8	40.0	4.5	50.0
Dibromochloromethane	Ave	0.2354	0.2245		19.1	20.0	-4.6	50.0
1,2-Dibromoethane	Ave	0.2558	0.2585		20.2	20.0	1.1	50.0
Chlorobenzene	Ave	0.8070	0.8029	0.3000	19.9	20.0	-0.5	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2517	0.2443		19.4	20.0	-2.9	50.0
Ethylbenzene	Ave	0.3681	0.3810		20.7	20.0	3.5	20.0
m-Xylene & p-Xylene	Ave	0.4821	0.4747		39.4	40.0	-1.5	50.0
o-Xylene	Ave	0.4971	0.4838		19.5	20.0	-2.7	50.0
Styrene	Ave	0.9268	0.9264		20.0	20.0	-0.0	50.0
Bromoform	Ave	0.1546	0.1439	0.1000	18.6	20.0	-6.9	50.0
Isopropylbenzene	Ave	1.093	1.096		20.1	20.0	0.3	50.0
1,1,2,2-Tetrachloroethane	Ave	0.8260	0.7638	0.3000	18.5	20.0	-7.5	50.0
Bromobenzene	Ave	0.7698	0.7017		18.2	20.0	-8.8	50.0
1,2,3-Trichloropropane	Ave	0.2482	0.2560		20.6	20.0	3.1	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2312	0.2149		37.2	40.0	-7.0	50.0
n-Propylbenzene	Ave	0.6701	0.6308		18.8	20.0	-5.9	50.0
2-Chlorotoluene	Ave	0.6402	0.5835		18.2	20.0	-8.9	50.0
1,3,5-Trimethylbenzene	Ave	2.150	1.957		18.2	20.0	-9.0	50.0
4-Chlorotoluene	Ave	0.6834	0.6460		18.9	20.0	-5.5	50.0
tert-Butylbenzene	Ave	1.770	1.626		18.4	20.0	-8.1	50.0
1,2,4-Trimethylbenzene	Ave	2.262	2.039		18.0	20.0	-9.9	50.0
sec-Butylbenzene	Ave	2.559	2.273		17.8	20.0	-11.2	50.0
1,3-Dichlorobenzene	Ave	1.310	1.202		18.3	20.0	-8.3	50.0
p-Isopropyltoluene	Ave	2.137	2.018		18.9	20.0	-5.6	50.0
1,4-Dichlorobenzene	Ave	1.385	1.257		18.2	20.0	-9.2	50.0
n-Butylbenzene	Ave	1.946	1.729		17.8	20.0	-11.2	50.0
1,2-Dichlorobenzene	Ave	1.251	1.157		18.5	20.0	-7.5	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1218	0.1240		20.4	20.0	1.8	50.0
1,2,4-Trichlorobenzene	Ave	0.6371	0.5481		17.2	20.0	-14.0	50.0
Hexachlorobutadiene	Ave	0.3109	0.2588		16.7	20.0	-16.7	50.0
Naphthalene	Ave	1.434	1.435		20.0	20.0	0.0	50.0
1,2,3-Trichlorobenzene	Ave	0.4111	0.3983		19.4	20.0	-3.1	50.0
Dibromofluoromethane (Surr)	Ave	0.2001	0.2190		21.9	20.0	9.4	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2323	0.2433		20.9	20.0	4.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: ICV 240-33074/15 Calibration Date: 02/08/2012 00:54

Instrument ID: A3UX12 Calib Start Date: 02/07/2012 20:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2012 22:23

Lab File ID: UX122188.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene-d8 (Surr)	Ave	1.114	1.228		22.1	20.0	10.3	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4374	0.4605		21.1	20.0	5.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: ICV 240-33074/15 Calibration Date: 02/08/2012 00:54

Instrument ID: A3UX12 Calib Start Date: 02/07/2012 22:48

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/08/2012 00:29

Lab File ID: UX122188.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl ether	Ave	0.1573	0.1810		23.0	20.0	15.0	50.0
Diisopropyl ether	Ave	0.1866	0.1986		21.3	20.0	6.4	50.0
Isobutyl alcohol	Ave	0.0058	0.0070		1200	1000	19.8	50.0
Cyclohexanone	Ave	0.0258	0.0235		365	400	-8.8	50.0
1,2,3-Trimethylbenzene	Ave	2.200	2.230		20.3	20.0	1.3	50.0

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab File ID: BFB1813.D BFB Injection Date: 03/22/2012

Instrument ID: A3UX12 BFB Injection Time: 11:19

Analysis Batch No.: 37611

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.6	
75	30.0 - 60.0 % of mass 95	45.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.2	(0.3)1
174	50.0 - 120.00 % of mass 95	81.8	
175	5.0 - 9.0 % of mass 174	6.6	(8.1)1
176	95.0 - 101.0 % of mass 174	82.0	(100.3)1
177	5.0 - 9.0 % of mass 176	5.6	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-37611/2	UX122964.D	03/22/2012	11:49
	CCV 240-37611/3	UX122965.D	03/22/2012	12:14
	LCS 240-37611/4	UX122966.D	03/22/2012	12:38
	MB 240-37611/6	UX122968.D	03/22/2012	13:27
MSA-SW37A-032012	240-9383-1	UX122969.D	03/22/2012	13:52
MSA-SW37A-032012 MS	240-9383-1 MS	UX122978.D	03/22/2012	17:31
MSA-SW37A-032012 MSD	240-9383-1 MSD	UX122979.D	03/22/2012	17:55
MSA-SW37B-032012	240-9383-2	UX122981.D	03/22/2012	18:44
MSA-SW37C-032012	240-9383-3	UX122982.D	03/22/2012	19:09
MSA-SW37D-032012	240-9383-4	UX122983.D	03/22/2012	19:33
MSA-SW38A-032012	240-9383-5	UX122984.D	03/22/2012	19:58
MSA-SW38B-032012	240-9383-6	UX122985.D	03/22/2012	20:22
MSA-SW38C-032012	240-9383-7	UX122986.D	03/22/2012	20:46
MSA-SW38D-032012	240-9383-8	UX122987.D	03/22/2012	21:11
MSA-SW39A-032012	240-9383-9	UX122988.D	03/22/2012	21:35
MSA-SW39B-032012	240-9383-10	UX122989.D	03/22/2012	21:59
MSA-SW39C-032012	240-9383-11	UX122990.D	03/22/2012	22:23
MSA-SW39D-032012	240-9383-12	UX122991.D	03/22/2012	22:47
MSA-SW40A-032012	240-9383-13	UX122992.D	03/22/2012	23:12

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCVIS 240-37611/2 Calibration Date: 03/22/2012 11:49

Instrument ID: A3UX12 Calib Start Date: 02/07/2012 20:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2012 22:23

Lab File ID: UX122964.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1574	0.3210		40.8	20.0	104.0*	50.0
Chloromethane	Ave	0.2632	0.2865	0.1000	21.8	20.0	8.9	50.0
Vinyl chloride	Ave	0.3139	0.3240		20.6	20.0	3.2	20.0
Bromomethane	Ave	0.1774	0.2042		23.0	20.0	15.1	50.0
Chloroethane	Ave	0.1983	0.2144		21.6	20.0	8.1	50.0
Trichlorofluoromethane	Lin1		0.3242		23.3	20.0	16.5	50.0
~~Acrolein~~	Ave	0.0214	~~0.0274~~		256	200	~~28.1~~	50.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1933	0.2286		23.7	20.0	18.3	50.0
1,1-Dichloroethene	Ave	0.3664	0.3589		19.6	20.0	-2.0	20.0
Acetone	Lin1		0.0458		33.1	40.0	-17.3	50.0
Iodomethane	Ave	0.3632	0.4089		22.5	20.0	12.6	50.0
Carbon disulfide	Ave	0.7762	0.7522		19.4	20.0	-3.1	50.0
Acetonitrile	Lin1		0.0205		169	200	-15.4	50.0
~~Methyl acetate~~	Lin1		0.1113		31.5	40.0	~~-21.3~~	50.0
Methylene Chloride	Lin1		0.2682		17.9	20.0	-10.5	50.0
tert-Butyl alcohol	Lin1		0.0137		348	400	-13.0	50.0
Acrylonitrile	Lin1		0.0640		36.9	40.0	-7.8	50.0
Methyl tert-butyl ether	Ave	0.6154	0.5720		18.6	20.0	-7.1	50.0
trans-1,2-Dichloroethene	Ave	0.2849	0.2572		18.1	20.0	-9.7	50.0
~~Hexane~~	Ave	0.1765	0.1407		15.9	20.0	~~-20.3~~	20.0
1,1-Dichloroethane	Ave	0.3611	0.3200	0.1000	17.7	20.0	-11.4	50.0
Vinyl acetate	Ave	0.0312	0.0375		24.0	20.0	20.2	50.0
2,2-Dichloropropane	Ave	0.1653	0.1453		17.6	20.0	-12.1	50.0
2-Butanone	Lin1		0.0210		38.5	40.0	-3.8	50.0
cis-1,2-Dichloroethene	Ave	0.3048	0.2694		17.7	20.0	-11.6	50.0
Bromochloromethane	Ave	0.1816	0.1445		15.9	20.0	-20.4	50.0
~~Tetrahydrofuran~~	Lin1		~~0.0369~~		15.2	20.0	~~-24.0~~	50.0
Chloroform	Ave	0.3503	0.3288		18.8	20.0	-6.1	20.0
1,1,1-Trichloroethane	Ave	0.2285	0.2371		20.8	20.0	3.8	50.0
Cyclohexane	Ave	0.2866	0.2395		16.7	20.0	-16.4	50.0
1,1-Dichloropropene	Ave	0.2617	0.2565		19.6	20.0	-2.0	50.0
Carbon tetrachloride	Ave	0.1673	0.1824		21.8	20.0	9.0	50.0
1,2-Dichloroethane	Ave	0.2543	0.2467		19.4	20.0	-3.0	50.0
Benzene	Ave	0.8969	0.8050		18.0	20.0	-10.2	50.0
Trichloroethene	Ave	0.2154	0.2273		21.1	20.0	5.5	50.0
Methylcyclohexane	Ave	0.1795	0.1451		16.2	20.0	-19.2	50.0
1,2-Dichloropropane	Ave	0.2093	0.1784		17.0	20.0	-14.8	20.0
~~1,4-Dioxane~~	Ave	0.0022	~~0.0022~~		1020	1000	1.7	50.0
Dibromomethane	Ave	0.1269	0.1400		22.1	20.0	10.3	50.0
Bromodichloromethane	Ave	0.2584	0.2338		18.1	20.0	-9.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCVIS 240-37611/2 Calibration Date: 03/22/2012 11:49

Instrument ID: A3UX12 Calib Start Date: 02/07/2012 20:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2012 22:23

Lab File ID: UX122964.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloroethyl vinyl ether	Ave	0.1312	0.1135		34.6	40.0	-13.5	50.0
cis-1,3-Dichloropropene	Ave	0.3580	0.3011		16.8	20.0	-15.9	50.0
4-Methyl-2-pentanone	Lin1		0.1304		33.6	40.0	-16.0	50.0
Toluene	Ave	1.223	1.139		18.6	20.0	-6.9	20.0
trans-1,3-Dichloropropene	Ave	0.4302	0.3523		16.4	20.0	-18.1	50.0
Ethyl methacrylate	Ave	0.3748	0.2751		14.7	20.0	-26.6	50.0
1,1,2-Trichloroethane	Ave	0.2500	0.2404		19.2	20.0	-3.9	50.0
Tetrachloroethene	Ave	0.2370	0.2311		19.5	20.0	-2.5	50.0
1,3-Dichloropropane	Ave	0.4589	0.4271		18.6	20.0	-6.9	50.0
2-Hexanone	Ave	0.1537	0.1135		29.5	40.0	-26.1	50.0
Dibromochloromethane	Ave	0.2354	0.2096		17.8	20.0	-11.0	50.0
1,2-Dibromoethane	Ave	0.2558	0.2466		19.3	20.0	-3.6	50.0
Chlorobenzene	Ave	0.8070	0.7747	0.3000	19.2	20.0	-4.0	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2517	0.2229		17.7	20.0	-11.4	50.0
Ethylbenzene	Ave	0.3681	0.3830		20.8	20.0	4.0	20.0
m-Xylene & p-Xylene	Ave	0.4821	0.4650		38.6	40.0	-3.6	50.0
o-Xylene	Ave	0.4971	0.4618		18.6	20.0	-7.1	50.0
Styrene	Ave	0.9268	0.8717		18.8	20.0	-6.0	50.0
Bromoform	Ave	0.1546	0.1255	0.1000	16.2	20.0	-18.8	50.0
Isopropylbenzene	Ave	1.093	1.061		19.4	20.0	-2.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.8260	0.7242	0.3000	17.5	20.0	-12.3	50.0
Bromobenzene	Ave	0.7698	0.7355		19.1	20.0	-4.5	50.0
1,2,3-Trichloropropane	Ave	0.2482	0.2561		20.6	20.0	3.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2312	0.1586		13.7	20.0	-31.4	50.0
n-Propylbenzene	Ave	0.6701	0.6361		19.0	20.0	-5.1	50.0
2-Chlorotoluene	Ave	0.6402	0.5913		18.5	20.0	-7.6	50.0
1,3,5-Trimethylbenzene	Ave	2.150	1.897		17.6	20.0	-11.8	50.0
4-Chlorotoluene	Ave	0.6834	0.6720		19.7	20.0	-1.7	50.0
tert-Butylbenzene	Ave	1.770	1.680		19.0	20.0	-5.1	50.0
1,2,4-Trimethylbenzene	Ave	2.262	1.957		17.3	20.0	-13.5	50.0
sec-Butylbenzene	Ave	2.559	2.311		18.1	20.0	-9.7	50.0
1,3-Dichlorobenzene	Ave	1.310	1.240		18.9	20.0	-5.4	50.0
p-Isopropyltoluene	Ave	2.137	2.012		18.8	20.0	-5.8	50.0
1,4-Dichlorobenzene	Ave	1.385	1.292		18.7	20.0	-6.7	50.0
n-Butylbenzene	Ave	1.946	1.691		17.4	20.0	-13.1	50.0
1,2-Dichlorobenzene	Ave	1.251	1.241		19.8	20.0	-0.8	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1218	0.1078		17.7	20.0	-11.5	50.0
1,3,5-Trichlorobenzene	Ave	0.8158	0.7531		18.5	20.0	-7.7	50.0
1,2,4-Trichlorobenzene	Ave	0.6371	0.6254		19.6	20.0	-1.8	50.0
Hexachlorobutadiene	Ave	0.3109	0.2759		17.7	20.0	-11.3	50.0
Naphthalene	Ave	1.434	1.432		20.0	20.0	-0.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCVIS 240-37611/2 Calibration Date: 03/22/2012 11:49

Instrument ID: A3UX12 Calib Start Date: 02/07/2012 20:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2012 22:23

Lab File ID: UX122964.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichlorobenzene	Ave	0.4111	0.4226		20.6	20.0	2.8	50.0
Dibromofluoromethane (Surr)	Ave	0.2001	0.2309		23.1	20.0	15.4	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2323	0.2575		22.2	20.0	10.8	50.0
Toluene-d8 (Surr)	Ave	1.114	1.155		20.7	20.0	3.7	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4374	0.4329		19.8	20.0	-1.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCV 240-37611/3 Calibration Date: 03/22/2012 12:14

Instrument ID: A3UX12 Calib Start Date: 02/07/2012 22:48

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/08/2012 00:29

Lab File ID: UX122965.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorofluoromethane	Ave	0.4450	0.4490		20.2	20.0	0.9	50.0
Ethyl ether	Ave	0.1573	0.1432		18.2	20.0	-9.0	50.0
3-Chloro-1-propene	Ave	0.1139	0.1075		18.9	20.0	-5.7	50.0
Diisopropyl ether	Ave	0.1866	0.1811		97.1	100	-2.9	50.0
2-Chloro-1,3-butadiene	Ave	0.2767	0.2653		19.2	20.0	-4.1	50.0
Ethyl-t-butyl ether (ETBE)	Ave	0.6143	0.5445		17.7	20.0	-11.4	50.0
Ethyl acetate	Ave	0.1471	0.1169		31.8	40.0	-20.6	50.0
Propionitrile	Ave	0.0231	0.0202		35.0	40.0	-12.6	50.0
Methacrylonitrile	Ave	0.0998	0.0831		16.7	20.0	-16.7	50.0
Isobutyl alcohol	Ave	0.0058	0.0028		192	400	-52.0*	50.0
Tert-amyl-methyl ether (TAME)	Ave	0.5891	0.5374		18.2	20.0	-8.8	50.0
n-Heptane	Lin1		0.0377		19.2	20.0	-4.0	50.0
n-Butanol	Ave	0.0060	0.0023		154	400	-61.5*	50.0
Methyl methacrylate	Ave	0.1526	0.1172		15.4	20.0	-23.2	50.0
2-Nitropropane	Ave	0.0274	0.0138		20.1	40.0	-49.8	50.0
Cyclohexanone	Ave	0.0258	0.0262		203	200	1.4	50.0
1,2,3-Trimethylbenzene	Ave	2.200	2.078		18.9	20.0	-5.6	50.0
2-Methylnaphthalene	Ave	0.2355	0.2285		38.8	40.0	-3.0	50.0

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab File ID: UX122968.D Lab Sample ID: MB 240-37611/6

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

Instrument ID: A3UX12 Date Analyzed: 03/22/2012 13:27

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

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-37611/4	UX122966.D	03/22/2012 12:38
MSA-SW37A-032012	240-9383-1	UX122969.D	03/22/2012 13:52
MSA-SW37A-032012 MS	240-9383-1 MS	UX122978.D	03/22/2012 17:31
MSA-SW37A-032012 MSD	240-9383-1 MSD	UX122979.D	03/22/2012 17:55
MSA-SW37B-032012	240-9383-2	UX122981.D	03/22/2012 18:44
MSA-SW37C-032012	240-9383-3	UX122982.D	03/22/2012 19:09
MSA-SW37D-032012	240-9383-4	UX122983.D	03/22/2012 19:33
MSA-SW38A-032012	240-9383-5	UX122984.D	03/22/2012 19:58
MSA-SW38B-032012	240-9383-6	UX122985.D	03/22/2012 20:22
MSA-SW38C-032012	240-9383-7	UX122986.D	03/22/2012 20:46
MSA-SW38D-032012	240-9383-8	UX122987.D	03/22/2012 21:11
MSA-SW39A-032012	240-9383-9	UX122988.D	03/22/2012 21:35
MSA-SW39B-032012	240-9383-10	UX122989.D	03/22/2012 21:59
MSA-SW39C-032012	240-9383-11	UX122990.D	03/22/2012 22:23
MSA-SW39D-032012	240-9383-12	UX122991.D	03/22/2012 22:47
MSA-SW40A-032012	240-9383-13	UX122992.D	03/22/2012 23:12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-37611/6

Matrix: Water Lab File ID: UX122968.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 13:27

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.: 37611 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-37611/6

Matrix: Water Lab File ID: UX122968.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 13:27

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.: 37611 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	0.541	J	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-37611/6

Matrix: Water Lab File ID: UX122968.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 13:27

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.: 37611 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		66-117
1868-53-7	Dibromofluoromethane (Surr)	111		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		63-129
2037-26-5	Toluene-d8 (Surr)	102		74-115

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX122966.D

Lab ID: LCS 240-37611/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	29.9	75	43-136	
Benzene	20.0	17.8	89	83-112	
Bromobenzene	20.0	18.1	91	76-115	
Bromochloromethane	20.0	15.5	78	77-120	
Bromodichloromethane	20.0	18.3	92	72-121	
Bromoform	20.0	15.3	77	40-131	
Bromomethane	20.0	19.4	97	11-185	
2-Butanone	40.0	35.1	88	60-126	
Carbon disulfide	20.0	18.1	91	62-142	
Carbon tetrachloride	20.0	21.8	109	66-128	
Chlorobenzene	20.0	18.6	93	85-110	
Chloroethane	20.0	18.0	90	25-153	
2-Chloroethyl vinyl ether	20.0	16.6	83	52-131	
Chloroform	20.0	18.5	93	79-117	
Chloromethane	20.0	16.3	82	44-126	
2-Chlorotoluene	20.0	18.3	92	76-116	
4-Chlorotoluene	20.0	18.4	92	77-115	
cis-1,2-Dichloroethene	20.0	17.1	86	80-113	
cis-1,3-Dichloropropene	20.0	15.8	79	61-115	
Dibromochloromethane	20.0	16.8	84	64-119	
1,2-Dibromo-3-Chloropropane	20.0	19.0	95	42-136	
1,2-Dibromoethane	20.0	18.0	90	79-113	
Dibromomethane	20.0	21.2	106	81-120	
1,2-Dichlorobenzene	20.0	19.3	97	81-110	
1,3-Dichlorobenzene	20.0	18.3	92	80-110	
1,4-Dichlorobenzene	20.0	18.3	92	82-110	
Dichlorodifluoromethane	20.0	20.9	105	19-129	
1,1-Dichloroethane	20.0	17.6	88	82-115	
1,2-Dichloroethane	20.0	18.9	95	71-127	
1,1-Dichloroethene	20.0	19.3	97	78-131	
1,2-Dichloropropane	20.0	17.1	86	81-115	
1,3-Dichloropropane	20.0	17.1	86	79-116	
2,2-Dichloropropane	20.0	17.7	89	50-129	
1,1-Dichloropropene	20.0	18.9	95	83-114	
Diisopropyl ether	20.0	19.5	98	77-118	
Ethylbenzene	20.0	18.5	93	83-112	
Hexachlorobutadiene	20.0	17.6	88	36-134	
2-Hexanone	40.0	30.2	76	55-133	
Isopropylbenzene	20.0	18.1	91	75-114	
Methylene Chloride	20.0	17.3	87	66-131	
4-Methyl-2-pentanone	40.0	32.5	81	63-128	
Methyl tert-butyl ether	20.0	18.0	90	52-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX122966.D

Lab ID: LCS 240-37611/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	40.0	36.3	91	83-113	
Naphthalene	20.0	19.8	99	32-141	
n-Butylbenzene	20.0	17.1	86	66-125	
n-Propylbenzene	20.0	18.3	92	74-121	
o-Xylene	20.0	17.9	90	83-113	
p-Isopropyltoluene	20.0	18.6	93	74-120	
sec-Butylbenzene	20.0	17.4	87	70-117	
Styrene	20.0	18.1	91	79-114	
tert-Butyl alcohol	400	355	89	70-130	
tert-Butylbenzene	20.0	17.7	89	71-115	
1,1,1,2-Tetrachloroethane	20.0	16.7	84	72-116	
1,1,2,2-Tetrachloroethane	20.0	17.1	86	68-118	
Tetrachloroethene	20.0	18.5	93	79-114	
Toluene	20.0	17.5	88	84-111	
trans-1,2-Dichloroethene	20.0	17.6	88	83-117	
trans-1,3-Dichloropropene	20.0	15.2	76	58-117	
1,2,3-Trichlorobenzene	20.0	21.1	106	54-126	
1,2,4-Trichlorobenzene	20.0	18.3	92	48-135	
1,1,1-Trichloroethane	20.0	20.8	104	74-118	
Trichloroethene	20.0	19.6	98	76-117	
Trichlorofluoromethane	20.0	23.6	118	49-157	
1,2,3-Trichloropropane	20.0	19.8	99	73-129	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.9	120	74-151	
1,2,3-Trimethylbenzene	20.0	19.0	95	70-130	
1,2,4-Trimethylbenzene	20.0	17.1	86	76-120	
Vinyl acetate	20.0	23.7	119	46-161	
Vinyl chloride	20.0	17.4	87	53-127	
Xylenes, Total	60.0	54.2	90	83-112	

Column to be used to flag recovery and RPD values

FORM III 8260B

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab File ID: BFB1885.D BFB Injection Date: 10/31/2011

Instrument ID: A3UX9 BFB Injection Time: 17:28

Analysis Batch No.: 21323

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	49.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.2	(0.3)1
174	50.0 - 120.00 % of mass 95	91.5	
175	5.0 - 9.0 % of mass 174	6.9	(7.5)1
176	95.0 - 101.0 % of mass 174	89.5	(97.8)1
177	5.0 - 9.0 % of mass 176	5.4	(6.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-21323/3	UX90533.D	10/31/2011	17:54
	STD8260 240-21323/4	UX90534.D	10/31/2011	18:18
	STD8260 240-21323/5	UX90535.D	10/31/2011	18:42
	STD8260 240-21323/6	UX90536.D	10/31/2011	19:06
	STD8260 240-21323/7	UX90537.D	10/31/2011	19:31
	STD8260 240-21323/8	UX90538.D	10/31/2011	19:56
	STDA9 240-21323/9	UX90539.D	10/31/2011	20:23
	STDA9 240-21323/10	UX90540.D	10/31/2011	20:47
	STDA9 240-21323/11	UX90541.D	10/31/2011	21:13
	STDA9 240-21323/12	UX90542.D	10/31/2011	21:40
	STDA9 240-21323/13	UX90543.D	10/31/2011	22:06
	ICV 240-21323/15	UX90545.D	10/31/2011	22:56

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-21323/3	UX90533.D
Level 2	STD8260 240-21323/4	UX90534.D
Level 3	STD8260 240-21323/5	UX90535.D
Level 4	STD8260 240-21323/6	UX90536.D
Level 5	STD8260 240-21323/7	UX90537.D
Level 6	STD8260 240-21323/8	UX90538.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	0.3390	0.2710	0.3417	0.3101	0.3551	Ave		0.3234				10.0		15.0			
Chloromethane	0.3309 0.2413	0.2541	0.2729	0.2519	0.2603	Ave		0.2686			0.1000	12.0		15.0			
Vinyl chloride	0.3487 0.3244	0.2738	0.3361	0.3160	0.3338	Ave		0.3221				8.1		15.0			
Bromomethane	0.2527	0.2238	0.2151	0.2078	0.2396	Ave		0.2278				8.0		15.0			
Chloroethane	0.2034 0.2186	0.1949	0.1967	0.1921	0.2080	Ave		0.2023				4.9		15.0			
Trichlorofluoromethane	0.4421 0.5020	0.3818	0.4752	0.4492	0.5060	Ave		0.4594				10.0		15.0			
~~Acrolein~~	0.0364 0.0346	0.0378	0.0323	0.0315	0.0348	Ave		~~0.0346~~				7.0		15.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2696 0.2998	0.3057	0.2575	0.2851	0.3109	Ave		0.2881				7.4		15.0			
1,1-Dichloroethene	0.3979 0.4703	0.4327	0.4309	0.4463	0.4763	Ave		0.4424				6.5		15.0			
Acetone	0.0611	0.1756	0.0648	0.0591	0.0637	Lin1	0.2185	0.0589							0.9980		0.9900
Iodomethane	0.5315 0.4974	0.5204	0.4748	0.4757	0.5146	Ave		0.5024				4.7		15.0			
Carbon disulfide	0.8416 0.8810	0.7973	0.8113	0.8250	0.8958	Ave		0.8420				4.6		15.0			
~~Acetonitrile~~	0.0225	0.0344	0.0236	0.0230	0.0241	Lin1	0.1158	0.0228							0.9990		0.9900
Methyl acetate	0.2387 0.1523	0.2112	0.1491	0.1458	0.1518	Lin1	0.0937	0.1499							0.9990		0.9900
Methylene Chloride	0.3116	0.4294	0.3208	0.3027	0.3211	Ave		0.3371				15.0		15.0			

Note: The ml coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
~~tert-Butyl alcohol~~	0.0223 0.0201	0.0204	0.0198	0.0205	0.0207	Ave		~~0.0206~~				4.3		15.0			
Acrylonitrile	0.1040 0.0825	0.0840	0.0773	0.0785	0.0863	Ave		0.0855				11.0		15.0			
Methyl tert-butyl ether	0.8969 0.8168	0.7950	0.7443	0.7529	0.8161	Ave		0.8037				6.9		15.0			
trans-1,2-Dichloroethene	0.3403 0.3336	0.3430	0.3150	0.3132	0.3416	Ave		0.3311				4.1		15.0			
Hexane	0.2417 0.2224	0.1870	0.1716	0.1933	0.2245	Ave		0.2068				13.0		15.0			
1,1-Dichloroethane	0.4348 0.4017	0.4325	0.3876	0.3724	0.4247	Ave		0.4089			0.1000	6.3		15.0			
Vinyl acetate	0.0589	0.0668	0.0513	0.0513	0.0588	Ave		0.0574				11.0		15.0			
cis-1,2-Dichloroethene	0.3975 0.3416	0.4035	0.3352	0.3211	0.3433	Ave		0.3570				9.7		15.0			
2,2-Dichloropropane	0.1478 0.1868	0.1914	0.1812	0.1818	0.1955	Ave		0.1807				9.4		15.0			
2-Butanone AVG<0.05	0.0601 0.0292	0.0557	0.0284	0.0271	0.0301	Lin1	0.0367	0.0287							0.9970		0.9900
Bromochloromethane	0.2012 0.1778	0.1820	0.1751	0.1701	0.1808	Ave		0.1812				5.9		15.0			
Tetrahydrofuran	0.0540	0.0755	0.0514	0.0536	0.0560	Lin1	0.0178	0.0539							0.9990		0.9900
Chloroform	0.4760 0.4722	0.5039	0.4450	0.4408	0.4828	Ave		0.4701				5.1		15.0			
1,1,1-Trichloroethane	0.2653 0.3260	0.3068	0.3000	0.3064	0.3412	Ave		0.3076				8.4		15.0			
Cyclohexane	0.2973 0.3295	0.3255	0.2739	0.3097	0.3406	Ave		0.3128				7.8		15.0			
1,1-Dichloropropene	0.2900 0.3508	0.3131	0.3230	0.3300	0.3585	Ave		0.3276				7.7		15.0			
Carbon tetrachloride	0.2782 0.3033	0.2251	0.2426	0.2597	0.3074	Ave		0.2694				12.0		15.0			
Benzene	1.0923 1.0786	1.0399	0.9973	0.9919	1.0933	Ave		1.0489				4.4		15.0			
1,2-Dichloroethane	0.3333 0.3712	0.3708	0.3544	0.3455	0.3787	Ave		0.3590				4.9		15.0			
Trichloroethene	0.3200 0.3201	0.3116	0.2861	0.2918	0.3281	Ave		0.3096				5.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylcyclohexane	0.2138 0.2232	0.2300	0.1825	0.1962	0.2273	Ave		0.2122				9.0		15.0			
1,2-Dichloropropane	0.2498 0.2294	0.2445	0.2178	0.2127	0.2352	Ave		0.2316				6.3		15.0			
~~1,4-Dioxane~~	0.0030 0.0033	0.0036	0.0028	0.0032	0.0034	Ave		~~0.0032~~				8.9		15.0			
Dibromomethane	0.2050 0.2017	0.2069	0.1892	0.1928	0.2042	Ave		0.2000				3.6		15.0			
Bromodichloromethane	0.3667 0.3518	0.3341	0.3135	0.3134	0.3590	Ave		0.3397				6.8		15.0			
2-Chloroethyl vinyl ether	0.1440 0.1556	0.1368	0.1379	0.1388	0.1564	Ave		0.1449				6.2		15.0			
cis-1,3-Dichloropropene	0.4189 0.4224	0.3875	0.3706	0.3848	0.4207	Ave		0.4008				5.6		15.0			
4-Methyl-2-pentanone	0.1738 0.1852	0.1915	0.1651	0.1686	0.1854	Ave		0.1783				5.9		15.0			
Toluene	1.4095 1.5939	1.5091	1.4133	1.3801	1.6344	Ave		1.4901				7.1		15.0			
trans-1,3-Dichloropropene	0.4373 0.4977	0.4575	0.4244	0.4187	0.5077	Ave		0.4572				8.3		15.0			
Ethyl methacrylate	0.3084 0.4243	0.3048	0.3435	0.3467	0.4264	Ave		0.3590				15.0		15.0			
1,1,2-Trichloroethane	0.2971 0.3080	0.3160	0.2891	0.2802	0.3187	Ave		0.3015				5.1		15.0			
Tetrachloroethene	0.3898 0.3915	0.3934	0.3602	0.3579	0.4104	Ave		0.3839				5.4		15.0			
1,3-Dichloropropane	0.5924 0.5397	0.5249	0.4934	0.4903	0.5550	Ave		0.5326				7.3		15.0			
2-Hexanone	0.1485 0.1621	0.1403	0.1437	0.1434	0.1610	Ave		0.1498				6.3		15.0			
Dibromochloromethane	0.3196 0.3611	0.3235	0.2999	0.3051	0.3589	Ave		0.3280				8.0		15.0			
1,2-Dibromoethane	0.3286 0.3334	0.3057	0.3097	0.2965	0.3401	Ave		0.3190				5.5		15.0			
Chlorobenzene	1.1239 1.0602	1.0840	0.9894	0.9479	1.1016	Ave		1.0512			0.3000	6.5		15.0			
1,1,1,2-Tetrachloroethane	0.3646 0.3655	0.3523	0.3189	0.3012	0.3660	Ave		0.3448				8.1		15.0			
Ethylbenzene	0.5177 0.5585	0.5185	0.4880	0.4922	0.5758	Ave		0.5251				6.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
m-Xylene & p-Xylene	0.6173 0.7252	0.5777	0.5995	0.6235	0.7323	Ave		0.6459				10.0		15.0			
o-Xylene	0.6556 0.6901	0.6525	0.5960	0.6016	0.7039	Ave		0.6499				6.8		15.0			
Styrene	1.0127 1.2749	0.9778	1.0316	1.0480	1.2606	Ave		1.1009				12.0		15.0			
Bromoform	0.2505	0.2402	0.1990	0.1991	0.2455	Ave		0.2269			0.1000	11.0		15.0			
Isopropylbenzene	1.3564 1.7000	1.4302	1.3843	1.4096	1.7113	Ave		1.4986				11.0		15.0			
1,1,2,2-Tetrachloroethane	0.7245 0.7349	0.7831	0.6781	0.6682	0.7218	Ave		0.7184			0.3000	5.8		15.0			
Bromobenzene	0.8308 0.8694	0.8715	0.8204	0.7857	0.8579	Ave		0.8393				4.0		15.0			
1,2,3-Trichloropropane	0.3124 0.2758	0.2973	0.2604	0.2622	0.2695	Ave		0.2796				7.5		15.0			
trans-1,4-Dichloro-2-butene	0.2092	0.2294	0.1687	0.1738	0.1950	Ave		0.1952				13.0		15.0			
n-Propylbenzene	0.8440 0.7863	0.7178	0.6672	0.7080	0.7912	Ave		0.7524				8.7		15.0			
2-Chlorotoluene	0.7963 0.7319	0.6561	0.6857	0.6545	0.7378	Ave		0.7104				7.8		15.0			
1,3,5-Trimethylbenzene	2.1800 2.4917	2.0710	2.0946	2.1358	2.3994	Ave		2.2288				7.8		15.0			
4-Chlorotoluene	0.8013 0.8068	0.8052	0.7272	0.7067	0.8006	Ave		0.7747				5.8		15.0			
tert-Butylbenzene	2.0433 2.1733	1.9376	1.8420	1.8666	2.1382	Ave		2.0002				7.0		15.0			
1,2,4-Trimethylbenzene	2.5517 2.6031	2.3472	2.2230	2.2538	2.5289	Ave		2.4179				6.8		15.0			
sec-Butylbenzene	2.2182 2.9174	2.4377	2.4133	2.4683	2.8067	Ave		2.5436				10.0		15.0			
1,3-Dichlorobenzene	1.6128 1.5994	1.5213	1.4402	1.4239	1.5593	Ave		1.5262				5.2		15.0			
p-Isopropyltoluene	2.1072 2.6401	2.0613	2.1269	2.1814	2.5122	Ave		2.2715				11.0		15.0			
1,4-Dichlorobenzene	1.8181 1.6665	1.7273	1.5228	1.4692	1.6446	Ave		1.6414				7.8		15.0			
n-Butylbenzene	1.6760 2.1173	1.6481	1.6886	1.7568	2.0629	Ave		1.8249				11.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	1.5662 1.5704	1.5759	1.4489	1.4088	1.5415	Ave		1.5186				4.7		15.0			
1,2-Dibromo-3-Chloropropane	0.1819	0.2017	0.1517	0.1601	0.1652	Ave		0.1721				12.0		15.0			
1,3,5-Trichlorobenzene	1.2400 1.0468	1.0697	0.9519	0.9236	1.0306	Ave		1.0438				11.0		15.0			
1,2,4-Trichlorobenzene	1.0289 0.9740	1.1397	0.9100	0.8611	0.9225	Ave		0.9727				10.0		15.0			
Hexachlorobutadiene	0.6003 0.4138	0.4429	0.4030	0.3757	0.4046	Lin1	0.0683	0.4037							0.9990		0.9900
Naphthalene	2.6756 2.7639	2.6504	2.4577	2.4326	2.4612	Ave		2.5736				5.5		15.0			
1,2,3-Trichlorobenzene	1.0287 0.8202	0.9418	0.8493	0.8041	0.7635	Ave		0.8679				11.0		15.0			
Dibromofluoromethane (Surr)	0.2709	0.3226	0.2605	0.2478	0.2828	Ave		0.2769				10.0		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3235	0.4022	0.3027	0.2976	0.3246	Ave		0.3301				13.0		15.0			
Toluene-d8 (Surr)	1.4118	1.5148	1.2827	1.2098	1.4431	Ave		1.3724				9.0		15.0			
4-Bromofluorobenzene (Surr)	0.5221	0.5936	0.4756	0.4578	0.5478	Ave		0.5194				11.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-21323/3	UX90533.D
Level 2	STD8260 240-21323/4	UX90534.D
Level 3	STD8260 240-21323/5	UX90535.D
Level 4	STD8260 240-21323/6	UX90536.D
Level 5	STD8260 240-21323/7	UX90537.D
Level 6	STD8260 240-21323/8	UX90538.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	2284862	21148	268710	489574	1142834	80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	13108 1626691	19825	214608	397631	837630	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	13813 2186605	21363	264349	498891	1074214	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	1703108	17460	169131	328039	771283	80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	8056 1473828	15206	154668	303326	669495	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	17513 3383983	29790	373706	709199	1628554	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	14417 2333107	29530	254067	496621	1121056	5.00 800	10.0	100	200	400
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	10681 2020939	23854	202514	450136	1000514	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethene	FB	Ave	15760 3170123	33767	338828	704560	1533107	0.500 80.0	1.00	10.0	20.0	40.0
Acetone	FB	Lin1	824313	27405	101971	186648	409818	160	2.00	20.0	40.0	80.0
Iodomethane	FB	Ave	21054 3352989	40606	373385	750993	1656106	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	33339 5938606	62217	638031	1302486	2883133	0.500 80.0	1.00	10.0	20.0	40.0
Acetonitrile	FB	Lin1	1520023	26847	185790	363041	774902	800	10.0	100	200	400
Methyl acetate	FB	Lin1	18911 2053711	32966	234553	460251	977144	1.00 160	2.00	20.0	40.0	80.0
Methylene Chloride	FB	Ave	2100184	33503	252318	477948	1033450	80.0	1.00	10.0	20.0	40.0
tert-Butyl alcohol	FB	Ave	17672 2703781	31887	310996	648498	1335643	10.0 1600	20.0	200	400	800

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

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
Acrylonitrile	FB	Ave	8243 1112683	13107	121632	247939	555652	1.00 160	2.00	20.0	40.0	80.0
Methyl tert-butyl ether	FB	Ave	35528 5506019	62032	585295	1188638	2626757	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	13481 2248493	26761	247707	494486	1099366	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	9575 1498986	14594	134943	305235	722651	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	17222 2707664	33751	304788	587930	1366847	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	396828	5216	40345	81046	189339	80.0	1.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	15746 2302720	31488	263619	506934	1104989	0.500 80.0	1.00	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	5854 1259187	14936	142472	286983	629161	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone	FB	Lin1	4758 394201	8699	44598	85697	193841	1.00 160	2.00	20.0	40.0	80.0
Bromochloromethane	FB	Ave	7970 1198674	14204	137675	268610	582035	0.500 80.0	1.00	10.0	20.0	40.0
Tetrahydrofuran	FB	Lin1	364266	5889	40452	84601	180323	80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	18857 3182966	39319	349938	695869	1553915	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	10509 2197201	23940	235892	483639	1098039	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	11777 2221311	25401	215418	488912	1096288	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	11489 2364705	24430	254001	521047	1153742	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	11019 2044517	17568	190787	409982	989360	0.500 80.0	1.00	10.0	20.0	40.0
Benzene	FB	Ave	43269 7270822	81142	784268	1565918	3518818	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	13202 2501902	28933	278717	545385	1218834	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	12677 2158056	24315	224977	460701	1056087	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	8470 1504421	17944	143525	309707	731605	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	9897 1546126	19081	171316	335724	756871	0.500 80.0	1.00	10.0	20.0	40.0

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	FB	Ave	5855 1107216	13955	110079	250102	542844	25.0 4000	50.0	500	1000	2000
Dibromomethane	FB	Ave	8119 1359757	16148	148758	304392	657187	0.500 80.0	1.00	10.0	20.0	40.0
Bromodichloromethane	FB	Ave	14527 2371514	26068	246506	494766	1155333	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	11407 2097301	21356	216944	438200	1006734	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	16595 2847183	30235	291425	607441	1354134	0.500 80.0	1.00	10.0	20.0	40.0
4-Methyl-2-pentanone	FB	Ave	13770 2497443	29883	259733	532481	1193135	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	45277 8753684	94939	899368	1832668	4198743	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	14047 2733091	28783	270103	555986	1304157	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl methacrylate	CBZ	Ave	9906 2330334	19174	218573	460444	1095379	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	9545 1691602	19879	183954	372083	818668	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	12521 2150188	24750	229255	475201	1054188	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	19028 2963994	33019	314009	651023	1425803	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	9542 1780305	17651	182893	380732	827227	1.00 160	2.00	20.0	40.0	80.0
Dibromochloromethane	CBZ	Ave	10265 1983303	20349	190828	405139	922086	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromoethane	CBZ	Ave	10557 1831195	19234	197067	393762	873776	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	36103 5822537	68193	629629	1258732	2830017	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	11711 2007458	22165	202921	399974	940325	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	16631 3067500	32618	310555	653608	1479277	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	39659 7965383	72682	763021	1655855	3762472	1.00 160	2.00	20.0	40.0	80.0
o-Xylene	CBZ	Ave	21061 3790133	41047	379262	798861	1808160	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	32530 7001883	61513	656462	1391679	3238535	0.500 80.0	1.00	10.0	20.0	40.0

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	1375614	15110	126650	264417	630748	80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	43572 9336639	89973	880920	1871739	4396131	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	12067 2282651	26139	237646	493024	1089241	0.500 80.0	1.00	10.0	20.0	40.0
Bromobenzene	DCB	Ave	13836 2700517	29091	287519	579703	1294646	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichloropropane	DCB	Ave	5203 856752	9924	91245	193427	406694	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	649871	7658	59117	128200	294225	80.0	1.00	10.0	20.0	40.0
n-Propylbenzene	DCB	Ave	14057 2442270	23958	233811	522368	1194015	0.500 80.0	1.00	10.0	20.0	40.0
2-Chlorotoluene	DCB	Ave	13262 2273287	21901	240295	482904	1113328	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	36307 7739260	69128	734046	1575899	3620842	0.500 80.0	1.00	10.0	20.0	40.0
4-Chlorotoluene	DCB	Ave	13345 2505958	26878	254856	521465	1208187	0.500 80.0	1.00	10.0	20.0	40.0
tert-Butylbenzene	DCB	Ave	34031 6750324	64676	645504	1377243	3226613	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	42498 8085283	78345	779030	1662962	3816240	0.500 80.0	1.00	10.0	20.0	40.0
sec-Butylbenzene	DCB	Ave	36944 9061575	81367	845732	1821230	4235496	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	26861 4967935	50779	504706	1050582	2353125	0.500 80.0	1.00	10.0	20.0	40.0
p-Isopropyltoluene	DCB	Ave	35095 8200267	68802	745346	1609507	3791048	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dichlorobenzene	DCB	Ave	30280 5176078	57655	533664	1084022	2481751	0.500 80.0	1.00	10.0	20.0	40.0
n-Butylbenzene	DCB	Ave	27914 6576318	55010	591769	1296212	3113041	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	26084 4877700	52603	507749	1039433	2326206	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	564959	6734	53164	118103	249339	80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCB	Ave	20652 3251504	35704	333574	681454	1555193	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	17136 3025172	38042	318913	635385	1392079	0.500 80.0	1.00	10.0	20.0	40.0

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 17:54 Calibration End Date: 10/31/2011 19:56 Calibration ID: 4930

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
Hexachlorobutadiene	DCB	Lin1	9998 1285313	14782	141218	277238	610607	0.500 80.0	1.00	10.0	20.0	40.0
Naphthalene	DCB	Ave	44562 8584902	88467	861287	1794840	3714036	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCB	Ave	17133 2547658	31435	297617	593310	1152157	0.500 80.0	1.00	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	1825827	25174	204842	391172	910053	80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	2180781	31381	238055	469790	1044746	80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	7753578	95298	816280	1606426	3707222	80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	2867497	37342	302689	607929	1407305	80.0	1.00	10.0	20.0	40.0

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 20:23 Calibration End Date: 10/31/2011 22:06 Calibration ID: 4933

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-21323/9	UX90539.D
Level 2	STDA9 240-21323/10	UX90540.D
Level 3	STDA9 240-21323/11	UX90541.D
Level 4	STDA9 240-21323/12	UX90542.D
Level 5	STDA9 240-21323/13	UX90543.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								
Dichlorofluoromethane	0.5259	0.4705	0.4871	0.4937	0.4872	Ave		0.4929				4.1		15.0			
Ethyl ether	0.2016	0.1759	0.1851	0.1897	0.1826	Ave		0.1870				5.1		15.0			
3-Chloro-1-propene	0.2615	0.2177	0.1984	0.1864	0.1653	Lin1	0.1295	0.1751							0.9930		0.9900
Diisopropyl ether	0.2506	0.2224	0.2323	0.2467	0.2515	Ave		0.2407				5.3		15.0			
2-Chloro-1,3-butadiene	0.2850	0.3020	0.3236	0.3467	0.3499	Ave		0.3214				8.7		15.0			
Ethyl-t-butyl ether (ETBE)	0.6929	0.6185	0.6475	0.7009	0.7068	Ave		0.6733				5.7		15.0			
Ethyl acetate	0.2190	0.1583	0.1754	0.1771	0.1770	Ave		0.1814				12.0		15.0			
~~Propionitrile~~	0.0319	0.0267	0.0290	0.0289	0.0291	Ave		~~0.0291~~				6.4		15.0			
Methacrylonitrile	0.1128	0.1112	0.1097	0.1148	0.1120	Ave		0.1121				1.7		15.0			
~~Isobutyl alcohol~~	0.0082	0.0059	0.0073	0.0072	0.0068	Ave		~~0.0071~~				12.0		15.0			
Tert-amyl-methyl ether (TAME)	0.7063	0.6339	0.6732	0.7077	0.7235	Ave		0.6889				5.2		15.0			
n-Heptane	0.6640	0.1480	0.1314	0.1210	0.1163	Lin1	0.5425	0.1073							0.9980		0.9900
~~n-Butanol~~	0.0068	0.0056	0.0065	0.0066	0.0064	Ave		~~0.0064~~				7.6		15.0			
Methyl methacrylate	0.2043	0.1576	0.1629	0.1680	0.1708	Ave		0.1727				11.0		15.0			
~~2-Nitropropane~~	0.0408	0.0297	0.0323	0.0353	0.0354	Ave		~~0.0347~~				12.0		15.0			
n-Butyl acetate	0.3244	0.3080	0.3537	0.3693	0.3680	Ave		0.3447				7.9		15.0			
~~Cyclohexanone~~	0.0250	0.0206	0.0227	0.0213	0.0209	Ave		~~0.0221~~				8.2		15.0			
1,2,3-Trimethylbenzene	2.3517	2.2462	2.4894	2.5321	2.6289	Ave		2.4497				6.2		15.0			
2-Methylnaphthalene	1.0950	1.2009	1.3691	1.5194	1.4805	Ave		1.3330				14.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1 Analy Batch No.: 21323

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/31/2011 20:23 Calibration End Date: 10/31/2011 22:06 Calibration ID: 4933

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-21323/9	UX90539.D
Level 2	STDA9 240-21323/10	UX90540.D
Level 3	STDA9 240-21323/11	UX90541.D
Level 4	STDA9 240-21323/12	UX90542.D
Level 5	STDA9 240-21323/13	UX90543.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorofluoromethane	FB	Ave	41491	369199	778507	1591344	3191992	1.00	10.0	20.0	40.0	80.0
Ethyl ether	FB	Ave	15908	138045	295836	611559	1196215	1.00	10.0	20.0	40.0	80.0
3-Chloro-1-propene	FB	Linl	20628	170811	317069	600867	1083006	1.00	10.0	20.0	40.0	80.0
Diisopropyl ether	FB	Ave	98855	872716	1856477	3975550	8237376	5.00	50.0	100	200	400
2-Chloro-1,3-butadiene	FB	Ave	22487	236958	517092	1117318	2292518	1.00	10.0	20.0	40.0	80.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	54664	485337	1034737	2259033	4630345	1.00	10.0	20.0	40.0	80.0
Ethyl acetate	FB	Ave	34550	248454	560769	1141321	2319425	2.00	20.0	40.0	80.0	160
Propionitrile	FB	Ave	5041	41921	92716	186097	381296	2.00	20.0	40.0	80.0	160
Methacrylonitrile	FB	Ave	8900	87252	175313	369996	733555	1.00	10.0	20.0	40.0	80.0
Isobutyl alcohol	CBZ	Ave	10416	74070	183529	367555	717989	20.0	200	400	800	1600
Tert-amyl-methyl ether (TAME)	FB	Ave	55728	497443	1075846	2281135	4739573	1.00	10.0	20.0	40.0	80.0
n-Heptane	FB	Linl	52389	116157	210058	389934	761997	1.00	10.0	20.0	40.0	80.0
n-Butanol	CBZ	Ave	8664	69810	164612	339531	684449	20.0	200	400	800	1600
Methyl methacrylate	FB	Ave	16120	123694	260288	541513	1118896	1.00	10.0	20.0	40.0	80.0
2-Nitropropane	FB	Ave	6440	46660	103146	227659	463599	2.00	20.0	40.0	80.0	160
n-Butyl acetate	CBZ	Ave	41230	386760	893387	1893009	3912212	2.00	20.0	40.0	80.0	160
Cyclohexanone	DCB	Ave	8446	69893	151384	305846	607002	10.0	100	200	400	800
1,2,3-Trimethylbenzene	DCB	Ave	79463	763863	1660420	3628424	7625939	1.00	10.0	20.0	40.0	80.0
2-Methylnaphthalene	DCB	Ave	74001	816784	1826269	4354373	8589338	2.00	20.0	40.0	80.0	160

Curve Type Legend:

Ave = Average ISTD
Linl = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: ICV 240-21323/15 Calibration Date: 10/31/2011 22:56

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 19:56

Lab File ID: UX90545.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3234	0.2750		17.0	20.0	-15.0	50.0
Chloromethane	Ave	0.2686	0.2450	0.1000	18.2	20.0	-8.8	50.0
Vinyl chloride	Ave	0.3221	0.2937		18.2	20.0	-8.8	20.0
Bromomethane	Ave	0.2278	0.1967		17.3	20.0	-13.6	50.0
Chloroethane	Ave	0.2023	0.1820		18.0	20.0	-10.0	50.0
Trichlorofluoromethane	Ave	0.4594	0.5166		22.5	20.0	12.5	50.0
Acrolein	Ave	0.0346	0.0407		70.5	60.0	17.6	50.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2881	0.3175		22.0	20.0	10.2	50.0
1,1-Dichloroethene	Ave	0.4424	0.4839		21.9	20.0	9.4	20.0
Acetone	Lin1		0.0623		38.6	40.0	-3.5	50.0
Iodomethane	Ave	0.5024	0.5076		20.2	20.0	1.0	50.0
Carbon disulfide	Ave	0.8420	0.8637		20.5	20.0	2.6	50.0
Acetonitrile	Lin1		0.0266		64.9	60.0	8.2	50.0
Methyl acetate	Lin1		0.1422		18.3	20.0	-8.5	50.0
Methylene Chloride	Ave	0.3371	0.3149		18.7	20.0	-6.6	50.0
tert-Butyl alcohol	Ave	0.0206	0.0229		445	400	11.1	50.0
Acrylonitrile	Ave	0.0855	0.0833		58.5	60.0	-2.6	50.0
Methyl tert-butyl ether	Ave	0.8037	0.7777		19.4	20.0	-3.2	50.0
trans-1,2-Dichloroethene	Ave	0.3311	0.3254		19.7	20.0	-1.7	50.0
Hexane	Ave	0.2068	0.2255		21.8	20.0	9.0	20.0
1,1-Dichloroethane	Ave	0.4089	0.4042	0.1000	19.8	20.0	-1.2	50.0
Vinyl acetate	Ave	0.0574	0.0644		22.4	20.0	12.1	50.0
2,2-Dichloropropane	Ave	0.1807	0.1836		20.3	20.0	1.6	50.0
2-Butanone	Lin1		0.0263		35.4	40.0	-11.5	50.0
cis-1,2-Dichloroethene	Ave	0.3570	0.3232		18.1	20.0	-9.5	50.0
Bromochloromethane	Ave	0.1812	0.1763		19.5	20.0	-2.7	50.0
Tetrahydrofuran	Lin1		0.0538		19.6	20.0	-2.0	50.0
Chloroform	Ave	0.4701	0.4691		20.0	20.0	-0.2	20.0
1,1,1-Trichloroethane	Ave	0.3076	0.3098		20.1	20.0	0.7	50.0
Cyclohexane	Ave	0.3128	0.3176		20.3	20.0	1.5	50.0
1,1-Dichloropropene	Ave	0.3276	0.3380		20.6	20.0	3.2	50.0
Carbon tetrachloride	Ave	0.2694	0.2676		19.9	20.0	-0.7	50.0
Benzene	Ave	1.049	1.023		19.5	20.0	-2.5	50.0
1,2-Dichloroethane	Ave	0.3590	0.3551		19.8	20.0	-1.1	50.0
Trichloroethene	Ave	0.3096	0.3033		19.6	20.0	-2.0	50.0
Methylcyclohexane	Ave	0.2122	0.2122		20.0	20.0	0.0	50.0
1,2-Dichloropropane	Ave	0.2316	0.2241		19.4	20.0	-3.2	20.0
Dibromomethane	Ave	0.2000	0.2007		20.1	20.0	0.3	50.0
Bromodichloromethane	Ave	0.3397	0.3163		18.6	20.0	-6.9	50.0
2-Chloroethyl vinyl ether	Ave	0.1449	0.1421		19.6	20.0	-2.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: ICV 240-21323/15 Calibration Date: 10/31/2011 22:56

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 19:56

Lab File ID: UX90545.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
cis-1,3-Dichloropropene	Ave	0.4008	0.3550		17.7	20.0	-11.4	50.0
4-Methyl-2-pentanone	Ave	0.1783	0.1773		39.8	40.0	-0.6	50.0
Toluene	Ave	1.490	1.486		19.9	20.0	-0.3	20.0
trans-1,3-Dichloropropene	Ave	0.4572	0.4421		19.3	20.0	-3.3	50.0
1,1,2-Trichloroethane	Ave	0.3015	0.2884		19.1	20.0	-4.4	50.0
Tetrachloroethene	Ave	0.3839	0.3750		19.5	20.0	-2.3	50.0
1,3-Dichloropropane	Ave	0.5326	0.5064		19.0	20.0	-4.9	50.0
2-Hexanone	Ave	0.1498	0.1536		41.0	40.0	2.5	50.0
Dibromochloromethane	Ave	0.3280	0.3051		18.6	20.0	-7.0	50.0
1,2-Dibromoethane	Ave	0.3190	0.3091		19.4	20.0	-3.1	50.0
Chlorobenzene	Ave	1.051	1.010	0.3000	19.2	20.0	-3.9	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3448	0.3084		17.9	20.0	-10.5	50.0
Ethylbenzene	Ave	0.5251	0.5284		20.1	20.0	0.6	20.0
m-Xylene & p-Xylene	Ave	0.6459	0.6394		39.6	40.0	-1.0	50.0
o-Xylene	Ave	0.6499	0.6377		19.6	20.0	-1.9	50.0
Styrene	Ave	1.101	1.108		20.1	20.0	0.6	50.0
Bromoform	Ave	0.2269	0.2045	0.1000	18.0	20.0	-9.9	50.0
Isopropylbenzene	Ave	1.499	1.500		20.0	20.0	0.0	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7184	0.6819	0.3000	19.0	20.0	-5.1	50.0
Bromobenzene	Ave	0.8393	0.8142		19.4	20.0	-3.0	50.0
1,2,3-Trichloropropane	Ave	0.2796	0.2732		19.5	20.0	-2.3	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1952	0.1748		35.8	40.0	-10.5	50.0
n-Propylbenzene	Ave	0.7524	0.7638		20.3	20.0	1.5	50.0
2-Chlorotoluene	Ave	0.7104	0.7020		19.8	20.0	-1.2	50.0
1,3,5-Trimethylbenzene	Ave	2.229	2.245		20.1	20.0	0.7	50.0
4-Chlorotoluene	Ave	0.7747	0.7449		19.2	20.0	-3.8	50.0
tert-Butylbenzene	Ave	2.000	1.963		19.6	20.0	-1.9	50.0
1,2,4-Trimethylbenzene	Ave	2.418	2.345		19.4	20.0	-3.0	50.0
sec-Butylbenzene	Ave	2.544	2.619		20.6	20.0	2.9	50.0
1,3-Dichlorobenzene	Ave	1.526	1.485		19.5	20.0	-2.7	50.0
p-Isopropyltoluene	Ave	2.272	2.382		21.0	20.0	4.8	50.0
1,4-Dichlorobenzene	Ave	1.641	1.591		19.4	20.0	-3.1	50.0
n-Butylbenzene	Ave	1.825	1.940		21.3	20.0	6.3	50.0
1,2-Dichlorobenzene	Ave	1.519	1.515		20.0	20.0	-0.2	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1721	0.1570		18.2	20.0	-8.8	50.0
1,2,4-Trichlorobenzene	Ave	0.9727	0.8980		18.5	20.0	-7.7	50.0
Hexachlorobutadiene	Lin1		0.3926		19.3	20.0	-3.5	50.0
Naphthalene	Ave	2.574	2.550		19.8	20.0	-0.9	50.0
1,2,3-Trichlorobenzene	Ave	0.8679	0.8723		20.1	20.0	0.5	50.0
Dibromofluoromethane (Surr)	Ave	0.2769	0.2442		17.6	20.0	-11.8	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3301	0.2844		17.2	20.0	-13.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: ICV 240-21323/15 Calibration Date: 10/31/2011 22:56

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 19:56

Lab File ID: UX90545.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene-d8 (Surr)	Ave	1.372	1.256		18.3	20.0	-8.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5194	0.4660		17.9	20.0	-10.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: ICV 240-21323/15 Calibration Date: 10/31/2011 22:56

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 20:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 22:06

Lab File ID: UX90545.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl ether	Ave	0.1870	0.1974		21.1	20.0	5.6	50.0
Diisopropyl ether	Ave	0.2407	0.2373		19.7	20.0	-1.4	50.0
Isobutyl alcohol	Ave	0.0071	0.0069		981	1000	-1.9	50.0
Cyclohexanone	Ave	0.0221	0.0179		323	400	-19.3	50.0
1,2,3-Trimethylbenzene	Ave	2.450	2.507		20.5	20.0	2.3	50.0

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab File ID: BFB1996.D BFB Injection Date: 03/22/2012

Instrument ID: A3UX9 BFB Injection Time: 10:56

Analysis Batch No.: 37654

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.3	
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	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	89.4	
175	5.0 - 9.0 % of mass 174	6.7	(7.5)1
176	95.0 - 101.0 % of mass 174	86.7	(97.0)1
177	5.0 - 9.0 % of mass 176	5.3	(6.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-37654/2	UX93050.D	03/22/2012	11:21
	CCV 240-37654/3	UX93051.D	03/22/2012	11:45
	LCS 240-37654/4	UX93052.D	03/22/2012	12:09
	MB 240-37654/6	UX93054.D	03/22/2012	12:58
MSA-SW40B-032012	240-9383-14	UX93055.D	03/22/2012	13:22
MSA-SW40B-032012 MS	240-9383-14 MS	UX93063.D	03/22/2012	16:37
MSA-SW40B-032012 MSD	240-9383-14 MSD	UX93064.D	03/22/2012	17:02
MSA-SW40C-032012	240-9383-15	UX93066.D	03/22/2012	17:50
MSA-SW40D-032012	240-9383-16	UX93067.D	03/22/2012	18:15
MSA-SW41A-032012	240-9383-17	UX93068.D	03/22/2012	18:39
MSA-SW41B-032012	240-9383-18	UX93069.D	03/22/2012	19:04
MSA-SW41C-032012	240-9383-19	UX93070.D	03/22/2012	19:28
MSA-SW41D-032012	240-9383-20	UX93071.D	03/22/2012	19:52
MSA-SW42A-032012	240-9383-21	UX93072.D	03/22/2012	20:16
MSA-SW42B-032012	240-9383-22	UX93073.D	03/22/2012	20:40
MSA-SW42C-032012	240-9383-23	UX93074.D	03/22/2012	21:04
MSA-SW42D-032012	240-9383-24	UX93075.D	03/22/2012	21:28
MSA-SW43A-032012	240-9383-25	UX93076.D	03/22/2012	21:53
MSA-SW43B-032012	240-9383-26	UX93077.D	03/22/2012	22:17
MSA-SW43C-032012	240-9383-27	UX93078.D	03/22/2012	22:41

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCVIS 240-37654/2 Calibration Date: 03/22/2012 11:21

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 19:56

Lab File ID: UX93050.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3234	0.3482		21.5	20.0	7.7	50.0
Chloromethane	Ave	0.2686	0.2900	0.1000	21.6	20.0	8.0	50.0
Vinyl chloride	Ave	0.3221	0.3097		19.2	20.0	-3.9	20.0
Bromomethane	Ave	0.2278	0.2028		17.8	20.0	-11.0	50.0
Chloroethane	Ave	0.2023	0.2074		20.5	20.0	2.5	50.0
Trichlorofluoromethane	Ave	0.4594	0.4151		18.1	20.0	-9.6	50.0
~~Acrolein~~	Ave	0.0346	~~0.0304~~		211	200	5.3	50.0
1,1-Dichloroethene	Ave	0.4424	0.4094		18.5	20.0	-7.5	20.0
Acetone	Lin1		0.0607		37.5	40.0	-6.3	50.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2881	0.2292		15.9	20.0	-20.4	50.0
Iodomethane	Ave	0.5024	0.4257		16.9	20.0	-15.3	50.0
Carbon disulfide	Ave	0.8420	0.7501		17.8	20.0	-10.9	50.0
~~Acetonitrile~~	Lin1		~~0.0245~~		210	200	5.1	50.0
Methyl acetate	Lin1		0.1677		44.1	40.0	10.3	50.0
Methylene Chloride	Ave	0.3371	0.3185		18.9	20.0	-5.5	50.0
~~tert-Butyl alcohol~~	Ave	0.0206	~~0.0194~~		375	400	-6.1	50.0
Acrylonitrile	Ave	0.0855	0.0890		41.6	40.0	4.1	50.0
Methyl tert-butyl ether	Ave	0.8037	0.7634		19.0	20.0	-5.0	50.0
trans-1,2-Dichloroethene	Ave	0.3311	0.3158		19.1	20.0	-4.6	50.0
Hexane	Ave	0.2068	0.2048		19.8	20.0	-0.9	20.0
1,1-Dichloroethane	Ave	0.4089	0.3974	0.1000	19.4	20.0	-2.8	50.0
Vinyl acetate	Ave	0.0574	0.0479		16.7	20.0	-16.6	50.0
2-Butanone	Lin1		0.0314		42.5	40.0	6.3	50.0
cis-1,2-Dichloroethene	Ave	0.3570	0.3379		18.9	20.0	-5.4	50.0
2,2-Dichloropropane	Ave	0.1807	0.1912		21.2	20.0	5.8	50.0
Bromochloromethane	Ave	0.1812	0.1799		19.9	20.0	-0.7	50.0
Tetrahydrofuran	Lin1		0.0606		22.2	20.0	11.0	50.0
Chloroform	Ave	0.4701	0.4074		17.3	20.0	-13.3	20.0
1,1,1-Trichloroethane	Ave	0.3076	0.3072		20.0	20.0	-0.1	50.0
Cyclohexane	Ave	0.3128	0.3084		19.7	20.0	-1.4	50.0
1,1-Dichloropropene	Ave	0.3276	0.3254		19.9	20.0	-0.7	50.0
Carbon tetrachloride	Ave	0.2694	0.2613		19.4	20.0	-3.0	50.0
Benzene	Ave	1.049	1.009		19.2	20.0	-3.8	50.0
1,2-Dichloroethane	Ave	0.3590	0.3386		18.9	20.0	-5.7	50.0
Trichloroethene	Ave	0.3096	0.2812		18.2	20.0	-9.2	50.0
Methylcyclohexane	Ave	0.2122	0.1944		18.3	20.0	-8.4	50.0
1,2-Dichloropropane	Ave	0.2316	0.2276		19.7	20.0	-1.7	20.0
~~1,4-Dioxane~~	Ave	0.0032	~~0.0030~~		941	1000	-5.9	50.0
Dibromomethane	Ave	0.2000	0.1804		18.0	20.0	-9.8	50.0
Bromodichloromethane	Ave	0.3397	0.2936		17.3	20.0	-13.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCVIS 240-37654/2 Calibration Date: 03/22/2012 11:21

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 19:56

Lab File ID: UX93050.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloroethyl vinyl ether	Ave	0.1449	0.1584		43.7	40.0	9.3	50.0
cis-1,3-Dichloropropene	Ave	0.4008	0.3690		18.4	20.0	-7.9	50.0
4-Methyl-2-pentanone	Ave	0.1783	0.2059		46.2	40.0	15.5	50.0
Toluene	Ave	1.490	1.459		19.6	20.0	-2.1	20.0
trans-1,3-Dichloropropene	Ave	0.4572	0.4350		19.0	20.0	-4.9	50.0
Ethyl methacrylate	Ave	0.3590	0.4099		22.8	20.0	14.2	50.0
1,1,2-Trichloroethane	Ave	0.3015	0.2985		19.8	20.0	-1.0	50.0
Tetrachloroethene	Ave	0.3839	0.3348		17.4	20.0	-12.8	50.0
1,3-Dichloropropane	Ave	0.5326	0.5371		20.2	20.0	0.9	50.0
2-Hexanone	Ave	0.1498	0.1902		50.8	40.0	26.9	50.0
Dibromochloromethane	Ave	0.3280	0.2648		16.1	20.0	-19.3	50.0
1,2-Dibromoethane	Ave	0.3190	0.3049		19.1	20.0	-4.4	50.0
Chlorobenzene	Ave	1.051	0.9822	0.3000	18.7	20.0	-6.6	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3448	0.2866		16.6	20.0	-16.9	50.0
Ethylbenzene	Ave	0.5251	0.4818		18.4	20.0	-8.2	20.0
m-Xylene & p-Xylene	Ave	0.6459	0.6166		38.2	40.0	-4.5	50.0
o-Xylene	Ave	0.6499	0.6008		18.5	20.0	-7.6	50.0
Styrene	Ave	1.101	1.091		19.8	20.0	-0.9	50.0
Bromoform	Ave	0.2269	0.1563	0.1000	13.8	20.0	-31.1	50.0
Isopropylbenzene	Ave	1.499	1.403		18.7	20.0	-6.4	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7184	0.7940	0.3000	22.1	20.0	10.5	50.0
Bromobenzene	Ave	0.8393	0.8519		20.3	20.0	1.5	50.0
1,2,3-Trichloropropane	Ave	0.2796	0.2942		21.0	20.0	5.2	50.0
~~trans-1,4-Dichloro-2-butene~~	Ave	0.1952	0.1545		15.8	20.0	~~-20.8~~	50.0
n-Propylbenzene	Ave	0.7524	0.7321		19.5	20.0	-2.7	50.0
2-Chlorotoluene	Ave	0.7104	0.6970		19.6	20.0	-1.9	50.0
1,3,5-Trimethylbenzene	Ave	2.229	2.274		20.4	20.0	2.0	50.0
4-Chlorotoluene	Ave	0.7747	0.7537		19.5	20.0	-2.7	50.0
tert-Butylbenzene	Ave	2.000	1.960		19.6	20.0	-2.0	50.0
1,2,4-Trimethylbenzene	Ave	2.418	2.391		19.8	20.0	-1.1	50.0
sec-Butylbenzene	Ave	2.544	2.675		21.0	20.0	5.2	50.0
1,3-Dichlorobenzene	Ave	1.526	1.453		19.0	20.0	-4.8	50.0
p-Isopropyltoluene	Ave	2.272	2.313		20.4	20.0	1.8	50.0
1,4-Dichlorobenzene	Ave	1.641	1.559		19.0	20.0	-5.0	50.0
n-Butylbenzene	Ave	1.825	1.949		21.4	20.0	6.8	50.0
1,2-Dichlorobenzene	Ave	1.519	1.452		19.1	20.0	-4.4	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1721	0.1348		15.7	20.0	-21.7	50.0
1,3,5-Trichlorobenzene	Ave	1.044	0.9373		18.0	20.0	-10.2	50.0
1,2,4-Trichlorobenzene	Ave	0.9727	0.8530		17.5	20.0	-12.3	50.0
Hexachlorobutadiene	Lin1		0.3967		19.5	20.0	-2.5	50.0
Naphthalene	Ave	2.574	2.214		17.2	20.0	-14.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCVIS 240-37654/2 Calibration Date: 03/22/2012 11:21

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 19:56

Lab File ID: UX93050.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichlorobenzene	Ave	0.8679	0.7222		16.6	20.0	-16.8	50.0
Dibromofluoromethane (Surr)	Ave	0.2769	0.2266		16.4	20.0	-18.2	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3301	0.2776		16.8	20.0	-15.9	50.0
Toluene-d8 (Surr)	Ave	1.372	1.226		17.9	20.0	-10.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5194	0.4592		17.7	20.0	-11.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCV 240-37654/3 Calibration Date: 03/22/2012 11:45

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 20:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 22:06

Lab File ID: UX93051.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorofluoromethane	Ave	0.4929	0.4897		19.9	20.0	-0.7	50.0
Ethyl ether	Ave	0.1870	0.1910		20.4	20.0	2.2	50.0
3-Chloro-1-propene	Lin1		0.2633		29.3	20.0	46.5	50.0
Diisopropyl ether	Ave	0.2407	0.2354		97.8	100	-2.2	50.0
2-Chloro-1,3-butadiene	Ave	0.3214	0.3413		21.2	20.0	6.2	50.0
Ethyl-t-butyl ether (ETBE)	Ave	0.6733	0.7442		22.1	20.0	10.5	50.0
Ethyl acetate	Ave	0.1814	0.2031		44.8	40.0	12.0	50.0
Propionitrile	Ave	0.0291	0.0320		43.9	40.0	9.8	50.0
Methacrylonitrile	Ave	0.1121	0.1315		23.5	20.0	17.3	50.0
Isobutyl alcohol	Ave	0.0071	0.0076		430	400	7.5	50.0
Tert-amyl-methyl ether (TAME)	Ave	0.6889	0.7091		20.6	20.0	2.9	50.0
n-Heptane	Lin1		0.1222		17.7	20.0	-11.5	50.0
n-Butanol	Ave	0.0064	0.0067		418	400	4.4	50.0
Methyl methacrylate	Ave	0.1727	0.1910		22.1	20.0	10.6	50.0
2-Nitropropane	Ave	0.0347	0.0330		38.0	40.0	-5.0	50.0
Cyclohexanone	Ave	0.0221	0.0470		426	200	112.9*	50.0
1,2,3-Trimethylbenzene	Ave	2.450	2.370		19.4	20.0	-3.2	50.0
2-Methylnaphthalene	Ave	1.333	0.6226		18.7	40.0	-53.3*	50.0

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab File ID: UX93054.D Lab Sample ID: MB 240-37654/6

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

Instrument ID: A3UX9 Date Analyzed: 03/22/2012 12:58

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 240-37654/4	UX93052.D	03/22/2012 12:09
MSA-SW40B-032012	240-9383-14	UX93055.D	03/22/2012 13:22
MSA-SW40B-032012 MS	240-9383-14 MS	UX93063.D	03/22/2012 16:37
MSA-SW40B-032012 MSD	240-9383-14 MSD	UX93064.D	03/22/2012 17:02
MSA-SW40C-032012	240-9383-15	UX93066.D	03/22/2012 17:50
MSA-SW40D-032012	240-9383-16	UX93067.D	03/22/2012 18:15
MSA-SW41A-032012	240-9383-17	UX93068.D	03/22/2012 18:39
MSA-SW41B-032012	240-9383-18	UX93069.D	03/22/2012 19:04
MSA-SW41C-032012	240-9383-19	UX93070.D	03/22/2012 19:28
MSA-SW41D-032012	240-9383-20	UX93071.D	03/22/2012 19:52
MSA-SW42A-032012	240-9383-21	UX93072.D	03/22/2012 20:16
MSA-SW42B-032012	240-9383-22	UX93073.D	03/22/2012 20:40
MSA-SW42C-032012	240-9383-23	UX93074.D	03/22/2012 21:04
MSA-SW42D-032012	240-9383-24	UX93075.D	03/22/2012 21:28
MSA-SW43A-032012	240-9383-25	UX93076.D	03/22/2012 21:53
MSA-SW43B-032012	240-9383-26	UX93077.D	03/22/2012 22:17
MSA-SW43C-032012	240-9383-27	UX93078.D	03/22/2012 22:41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-37654/6

Matrix: Water Lab File ID: UX93054.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 12:58

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.: 37654 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-37654/6

Matrix: Water Lab File ID: UX93054.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 12:58

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.: 37654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	0.540	J	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-37654/6

Matrix: Water Lab File ID: UX93054.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/22/2012 12:58

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.: 37654 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	78		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		63-129
2037-26-5	Toluene-d8 (Surr)	89		74-115

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX93052.D

Lab ID: LCS 240-37654/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	32.7	82	43-136	
Benzene	20.0	18.5	93	83-112	
Bromobenzene	20.0	18.3	92	76-115	
Bromochloromethane	20.0	18.7	94	77-120	
Bromodichloromethane	20.0	16.4	82	72-121	
Bromoform	20.0	13.2	66	40-131	
Bromomethane	20.0	15.2	76	11-185	
2-Butanone	40.0	38.1	95	60-126	
Carbon disulfide	20.0	16.9	85	62-142	
Carbon tetrachloride	20.0	18.4	92	66-128	
Chlorobenzene	20.0	17.7	89	85-110	
Chloroethane	20.0	18.2	91	25-153	
2-Chloroethyl vinyl ether	20.0	20.7	104	52-131	
Chloroform	20.0	16.3	82	79-117	
Chloromethane	20.0	16.7	84	44-126	
2-Chlorotoluene	20.0	17.9	90	76-116	
4-Chlorotoluene	20.0	18.2	91	77-115	
cis-1,2-Dichloroethene	20.0	17.5	88	80-113	
cis-1,3-Dichloropropene	20.0	16.9	85	61-115	
Dibromochloromethane	20.0	15.4	77	64-119	
1,2-Dibromo-3-Chloropropane	20.0	15.0	75	42-136	
1,2-Dibromoethane	20.0	18.6	93	79-113	
Dibromomethane	20.0	17.8	89	81-120	
1,2-Dichlorobenzene	20.0	17.8	89	81-110	
1,3-Dichlorobenzene	20.0	18.0	90	80-110	
1,4-Dichlorobenzene	20.0	17.3	87	82-110	
Dichlorodifluoromethane	20.0	11.9	60	19-129	
1,1-Dichloroethane	20.0	18.6	93	82-115	
1,2-Dichloroethane	20.0	18.5	93	71-127	
1,1-Dichloroethene	20.0	18.6	93	78-131	
1,2-Dichloropropane	20.0	19.0	95	81-115	
1,3-Dichloropropane	20.0	19.3	97	79-116	
2,2-Dichloropropane	20.0	20.2	101	50-129	
1,1-Dichloropropene	20.0	19.0	95	83-114	
Diisopropyl ether	20.0	18.7	94	77-118	
Ethylbenzene	20.0	17.5	88	83-112	
Hexachlorobutadiene	20.0	17.7	89	36-134	
2-Hexanone	40.0	49.0	123	55-133	
Isopropylbenzene	20.0	17.9	90	75-114	
Methylene Chloride	20.0	17.8	89	66-131	
4-Methyl-2-pentanone	40.0	43.8	110	63-128	
Methyl tert-butyl ether	20.0	18.2	91	52-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX93052.D

Lab ID: LCS 240-37654/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	40.0	36.0	90	83-113	
Naphthalene	20.0	15.8	79	32-141	
n-Butylbenzene	20.0	19.8	99	66-125	
n-Propylbenzene	20.0	17.8	89	74-121	
o-Xylene	20.0	18.0	90	83-113	
p-Isopropyltoluene	20.0	19.6	98	74-120	
sec-Butylbenzene	20.0	19.1	96	70-117	
Styrene	20.0	19.1	96	79-114	
tert-Butyl alcohol	400	404	101	70-130	
tert-Butylbenzene	20.0	17.9	90	71-115	
1,1,1,2-Tetrachloroethane	20.0	16.1	81	72-116	
1,1,2,2-Tetrachloroethane	20.0	20.3	102	68-118	
Tetrachloroethene	20.0	16.9	85	79-114	
Toluene	20.0	18.8	94	84-111	
trans-1,2-Dichloroethene	20.0	18.5	93	83-117	
trans-1,3-Dichloropropene	20.0	17.9	90	58-117	
1,2,3-Trichlorobenzene	20.0	15.6	78	54-126	
1,2,4-Trichlorobenzene	20.0	15.8	79	48-135	
1,1,1-Trichloroethane	20.0	18.1	91	74-118	
Trichloroethene	20.0	17.2	86	76-117	
Trichlorofluoromethane	20.0	17.6	88	49-157	
1,2,3-Trichloropropane	20.0	19.9	100	73-129	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	16.7	84	74-151	
1,2,3-Trimethylbenzene	20.0	18.8	94	70-130	
1,2,4-Trimethylbenzene	20.0	18.0	90	76-120	
Vinyl acetate	20.0	16.0	80	46-161	
Vinyl chloride	20.0	16.5	83	53-127	
Xylenes, Total	60.0	54.0	90	83-112	

Column to be used to flag recovery and RPD values

FORM III 8260B

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab File ID: BFB1997.D BFB Injection Date: 03/23/2012

Instrument ID: A3UX9 BFB Injection Time: 12:16

Analysis Batch No.: 37839

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.3	
75	30.0 - 60.0 % of mass 95	46.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.2	(0.3)1
174	50.0 - 120.00 % of mass 95	92.3	
175	5.0 - 9.0 % of mass 174	7.5	(8.1)1
176	95.0 - 101.0 % of mass 174	90.4	(98.0)1
177	5.0 - 9.0 % of mass 176	5.2	(5.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-37839/2	UX930803.D	03/23/2012	12:41
	CCV 240-37839/3	UX930804.D	03/23/2012	13:05
	LCS 240-37839/4	UX930805.D	03/23/2012	13:29
	MB 240-37839/5	UX930806.D	03/23/2012	13:54
MSA-SW43D-032012	240-9383-28	UX930807.D	03/23/2012	14:37
MSA-SW43D-032012 MS	240-9383-28 MS	UX930815.D	03/23/2012	17:53
MSA-SW43D-032012 MSD	240-9383-28 MSD	UX930816.D	03/23/2012	18:17
TB-032012	240-9383-41	UX930817.D	03/23/2012	18:42
MSA-SW44A-032012	240-9383-29	UX930818.D	03/23/2012	19:06
MSA-SW44B-032012	240-9383-30	UX930819.D	03/23/2012	19:30
MSA-SW44C-032012	240-9383-31	UX930820.D	03/23/2012	19:55
MSA-SW44D-032012	240-9383-32	UX930821.D	03/23/2012	20:19
MSA-SW45A-032012	240-9383-33	UX930822.D	03/23/2012	20:43
MSA-SW45B-032012	240-9383-34	UX930823.D	03/23/2012	21:08
MSA-SW45C-032012	240-9383-35	UX930824.D	03/23/2012	21:32
MSA-SW45D-032012	240-9383-36	UX930825.D	03/23/2012	21:56
EL-SW01A-032012	240-9383-37	UX930826.D	03/23/2012	22:20
EL-SW01B-032012	240-9383-38	UX930827.D	03/23/2012	22:44
EL-SW01C-032012	240-9383-39	UX930828.D	03/23/2012	23:08
EL-SW01D-032012	240-9383-40	UX930829.D	03/23/2012	23:32

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCVIS 240-37839/2 Calibration Date: 03/23/2012 12:41

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 19:56

Lab File ID: UX930803.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3234	0.3237		20.0	20.0	0.1	50.0
Chloromethane	Ave	0.2686	0.2840	0.1000	21.2	20.0	5.8	50.0
Vinyl chloride	Ave	0.3221	0.3106		19.3	20.0	-3.6	20.0
Bromomethane	Ave	0.2278	0.2168		19.0	20.0	-4.8	50.0
Chloroethane	Ave	0.2023	0.2070		20.5	20.0	2.3	50.0
Trichlorofluoromethane	Ave	0.4594	0.4153		18.1	20.0	-9.6	50.0
~~Acrolein~~	Ave	0.0346	~~0.0319~~		185	200	-7.7	50.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2881	0.2276		15.8	20.0	-21.0	50.0
1,1-Dichloroethene	Ave	0.4424	0.4067		18.4	20.0	-8.1	20.0
Acetone	Lin1		0.0590		36.3	40.0	-9.3	50.0
Iodomethane	Ave	0.5024	0.4241		16.9	20.0	-15.6	50.0
Carbon disulfide	Ave	0.8420	0.7392		17.6	20.0	-12.2	50.0
~~Acetonitrile~~	Lin1		~~0.0205~~		175	200	-12.4	50.0
Methyl acetate	Lin1		0.1557		40.9	40.0	2.3	50.0
Methylene Chloride	Ave	0.3371	0.3181		18.9	20.0	-5.6	50.0
~~tert-Butyl alcohol~~	Ave	0.0206	~~0.0170~~		330	400	-17.5	50.0
Acrylonitrile	Ave	0.0855	0.0828		38.8	40.0	-3.1	50.0
Methyl tert-butyl ether	Ave	0.8037	0.6878		17.1	20.0	-14.4	50.0
trans-1,2-Dichloroethene	Ave	0.3311	0.3119		18.8	20.0	-5.8	50.0
Hexane	Ave	0.2068	0.1910		18.5	20.0	-7.6	20.0
1,1-Dichloroethane	Ave	0.4089	0.3811	0.1000	18.6	20.0	-6.8	50.0
Vinyl acetate	Ave	0.0574	0.0456		15.9	20.0	-20.6	50.0
2,2-Dichloropropane	Ave	0.1807	0.1785		19.7	20.0	-1.3	50.0
2-Butanone	Lin1		0.0301		40.6	40.0	1.5	50.0
cis-1,2-Dichloroethene	Ave	0.3570	0.3251		18.2	20.0	-8.9	50.0
Bromochloromethane	Ave	0.1812	0.1785		19.7	20.0	-1.5	50.0
Tetrahydrofuran	Lin1		0.0589		21.5	20.0	7.5	50.0
Chloroform	Ave	0.4701	0.4086		17.4	20.0	-13.1	20.0
1,1,1-Trichloroethane	Ave	0.3076	0.2897		18.8	20.0	-5.8	50.0
Cyclohexane	Ave	0.3128	0.2865		18.3	20.0	-8.4	50.0
1,1-Dichloropropene	Ave	0.3276	0.3135		19.1	20.0	-4.3	50.0
Carbon tetrachloride	Ave	0.2694	0.2505		18.6	20.0	-7.0	50.0
Benzene	Ave	1.049	0.9894		18.9	20.0	-5.7	50.0
1,2-Dichloroethane	Ave	0.3590	0.3247		18.1	20.0	-9.5	50.0
Trichloroethene	Ave	0.3096	0.2813		18.2	20.0	-9.2	50.0
~~Methylcyclohexane~~	Ave	0.2122	0.1626		15.3	20.0	~~-23.4~~	50.0
1,2-Dichloropropane	Ave	0.2316	0.2186		18.9	20.0	-5.6	20.0
~~1,4-Dioxane~~	Ave	0.0032	~~0.0021~~		658	1000	~~-34.3~~	50.0
Dibromomethane	Ave	0.2000	0.1844		18.4	20.0	-7.8	50.0
Bromodichloromethane	Ave	0.3397	0.2895		17.0	20.0	-14.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCVIS 240-37839/2 Calibration Date: 03/23/2012 12:41

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 19:56

Lab File ID: UX930803.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloroethyl vinyl ether	Ave	0.1449	0.1580		43.6	40.0	9.1	50.0
cis-1,3-Dichloropropene	Ave	0.4008	0.3529		17.6	20.0	-11.9	50.0
4-Methyl-2-pentanone	Ave	0.1783	0.2011		45.1	40.0	12.8	50.0
Toluene	Ave	1.490	1.432		19.2	20.0	-3.9	20.0
trans-1,3-Dichloropropene	Ave	0.4572	0.4146		18.1	20.0	-9.3	50.0
Ethyl methacrylate	Ave	0.3590	0.4152		23.1	20.0	15.7	50.0
1,1,2-Trichloroethane	Ave	0.3015	0.2977		19.7	20.0	-1.3	50.0
Tetrachloroethene	Ave	0.3839	0.3345		17.4	20.0	-12.9	50.0
1,3-Dichloropropane	Ave	0.5326	0.5250		19.7	20.0	-1.4	50.0
2-Hexanone	Ave	0.1498	0.1826		48.8	40.0	21.9	50.0
Dibromochloromethane	Ave	0.3280	0.2683		16.4	20.0	-18.2	50.0
1,2-Dibromoethane	Ave	0.3190	0.3010		18.9	20.0	-5.7	50.0
Chlorobenzene	Ave	1.051	0.9537	0.3000	18.1	20.0	-9.3	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3448	0.2832		16.4	20.0	-17.9	50.0
Ethylbenzene	Ave	0.5251	0.4907		18.7	20.0	-6.6	20.0
m-Xylene & p-Xylene	Ave	0.6459	0.6004		37.2	40.0	-7.1	50.0
o-Xylene	Ave	0.6499	0.5983		18.4	20.0	-7.9	50.0
Styrene	Ave	1.101	1.079		19.6	20.0	-2.0	50.0
Bromoform	Ave	0.2269	0.1617	0.1000	14.3	20.0	-28.7	50.0
Isopropylbenzene	Ave	1.499	1.374		18.3	20.0	-8.3	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7184	0.7617	0.3000	21.2	20.0	6.0	50.0
Bromobenzene	Ave	0.8393	0.8029		19.1	20.0	-4.3	50.0
1,2,3-Trichloropropane	Ave	0.2796	0.2854		20.4	20.0	2.1	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1952	0.0929		9.51	20.0	-52.4	50.0
n-Propylbenzene	Ave	0.7524	0.7048		18.7	20.0	-6.3	50.0
2-Chlorotoluene	Ave	0.7104	0.6569		18.5	20.0	-7.5	50.0
1,3,5-Trimethylbenzene	Ave	2.229	2.087		18.7	20.0	-6.4	50.0
4-Chlorotoluene	Ave	0.7747	0.7240		18.7	20.0	-6.5	50.0
tert-Butylbenzene	Ave	2.000	1.856		18.6	20.0	-7.2	50.0
1,2,4-Trimethylbenzene	Ave	2.418	2.230		18.4	20.0	-7.8	50.0
sec-Butylbenzene	Ave	2.544	2.459		19.3	20.0	-3.3	50.0
1,3-Dichlorobenzene	Ave	1.526	1.400		18.3	20.0	-8.3	50.0
p-Isopropyltoluene	Ave	2.272	2.189		19.3	20.0	-3.6	50.0
1,4-Dichlorobenzene	Ave	1.641	1.500		18.3	20.0	-8.6	50.0
n-Butylbenzene	Ave	1.825	1.824		20.0	20.0	-0.0	50.0
1,2-Dichlorobenzene	Ave	1.519	1.423		18.7	20.0	-6.3	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1721	0.1405		16.3	20.0	-18.4	50.0
1,3,5-Trichlorobenzene	Ave	1.044	0.9130		17.5	20.0	-12.5	50.0
1,2,4-Trichlorobenzene	Ave	0.9727	0.8077		16.6	20.0	-17.0	50.0
Hexachlorobutadiene	Lin1		0.3643		17.9	20.0	-10.5	50.0
Naphthalene	Ave	2.574	2.098		16.3	20.0	-18.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCVIS 240-37839/2 Calibration Date: 03/23/2012 12:41

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 17:54

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 19:56

Lab File ID: UX930803.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichlorobenzene	Ave	0.8679	0.6768		15.6	20.0	-22.0	50.0
Dibromofluoromethane (Surr)	Ave	0.2769	0.2226		16.1	20.0	-19.6	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3301	0.2819		17.1	20.0	-14.6	50.0
Toluene-d8 (Surr)	Ave	1.372	1.229		17.9	20.0	-10.4	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5194	0.4640		17.9	20.0	-10.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCV 240-37839/3 Calibration Date: 03/23/2012 13:05

Instrument ID: A3UX9 Calib Start Date: 10/31/2011 20:23

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/31/2011 22:06

Lab File ID: UX930804.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorofluoromethane	Ave	0.4929	0.4991		20.3	20.0	1.3	50.0
Ethyl ether	Ave	0.1870	0.1929		20.6	20.0	3.2	50.0
3-Chloro-1-propene	Lin1		0.2545		28.3	20.0	41.5	50.0
Diisopropyl ether	Ave	0.2407	0.2327		96.7	100	-3.3	50.0
2-Chloro-1,3-butadiene	Ave	0.3214	0.3340		20.8	20.0	3.9	50.0
Ethyl-t-butyl ether (ETBE)	Ave	0.6733	0.6909		20.5	20.0	2.6	50.0
Ethyl acetate	Ave	0.1814	0.1977		43.6	40.0	9.0	50.0
Propionitrile	Ave	0.0291	0.0305		41.9	40.0	4.8	50.0
Methacrylonitrile	Ave	0.1121	0.1273		22.7	20.0	13.6	50.0
Isobutyl alcohol	Ave	0.0071	0.0073		415	400	3.8	50.0
Tert-amyl-methyl ether (TAME)	Ave	0.6889	0.6975		20.2	20.0	1.2	50.0
n-Heptane	Lin1		0.1227		17.8	20.0	-11.0	50.0
n-Butanol	Ave	0.0064	0.0065		404	400	1.0	50.0
Methyl methacrylate	Ave	0.1727	0.2010		23.3	20.0	16.4	50.0
2-Nitropropane	Ave	0.0347	0.0324		37.4	40.0	-6.5	50.0
Cyclohexanone	Ave	0.0221	0.0613		554	200	177.2*	50.0
1,2,3-Trimethylbenzene	Ave	2.450	2.314		18.9	20.0	-5.6	50.0
2-Methylnaphthalene	Ave	1.333	0.6879		20.6	40.0	48.4	50.0

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab File ID: UX930806.D Lab Sample ID: MB 240-37839/5

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

Instrument ID: A3UX9 Date Analyzed: 03/23/2012 13:54

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 240-37839/4	UX930805.D	03/23/2012 13:29
MSA-SW43D-032012	240-9383-28	UX930807.D	03/23/2012 14:37
MSA-SW43D-032012 MS	240-9383-28 MS	UX930815.D	03/23/2012 17:53
MSA-SW43D-032012 MSD	240-9383-28 MSD	UX930816.D	03/23/2012 18:17
TB-032012	240-9383-41	UX930817.D	03/23/2012 18:42
MSA-SW44A-032012	240-9383-29	UX930818.D	03/23/2012 19:06
MSA-SW44B-032012	240-9383-30	UX930819.D	03/23/2012 19:30
MSA-SW44C-032012	240-9383-31	UX930820.D	03/23/2012 19:55
MSA-SW44D-032012	240-9383-32	UX930821.D	03/23/2012 20:19
MSA-SW45A-032012	240-9383-33	UX930822.D	03/23/2012 20:43
MSA-SW45B-032012	240-9383-34	UX930823.D	03/23/2012 21:08
MSA-SW45C-032012	240-9383-35	UX930824.D	03/23/2012 21:32
MSA-SW45D-032012	240-9383-36	UX930825.D	03/23/2012 21:56
EL-SW01A-032012	240-9383-37	UX930826.D	03/23/2012 22:20
EL-SW01B-032012	240-9383-38	UX930827.D	03/23/2012 22:44
EL-SW01C-032012	240-9383-39	UX930828.D	03/23/2012 23:08
EL-SW01D-032012	240-9383-40	UX930829.D	03/23/2012 23:32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-37839/5

Matrix: Water Lab File ID: UX930806.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 13:54

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.: 37839 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-37839/5

Matrix: Water Lab File ID: UX930806.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 13:54

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.: 37839 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	0.975	J	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	0.493	J	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	0.412	J	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	0.297	J	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	0.207	J	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.550	J	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	0.490	J	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-37839/5

Matrix: Water Lab File ID: UX930806.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/23/2012 13:54

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.: 37839 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		66-117
1868-53-7	Dibromofluoromethane (Surr)	80		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		63-129
2037-26-5	Toluene-d8 (Surr)	87		74-115

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX930805.D

Lab ID: LCS 240-37839/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	37.9	95	43-136	
Benzene	20.0	19.3	97	83-112	
Bromobenzene	20.0	19.3	97	76-115	
Bromochloromethane	20.0	19.2	96	77-120	
Bromodichloromethane	20.0	17.3	87	72-121	
Bromoform	20.0	14.7	74	40-131	
Bromomethane	20.0	16.1	81	11-185	
2-Butanone	40.0	38.7	97	60-126	
Carbon disulfide	20.0	17.6	88	62-142	
Carbon tetrachloride	20.0	19.1	96	66-128	
Chlorobenzene	20.0	18.1	91	85-110	
Chloroethane	20.0	18.1	91	25-153	
2-Chloroethyl vinyl ether	20.0	20.5	103	52-131	
Chloroform	20.0	17.4	87	79-117	
Chloromethane	20.0	16.5	83	44-126	
2-Chlorotoluene	20.0	19.0	95	76-116	
4-Chlorotoluene	20.0	18.8	94	77-115	
cis-1,2-Dichloroethene	20.0	18.2	91	80-113	
cis-1,3-Dichloropropene	20.0	16.9	85	61-115	
Dibromochloromethane	20.0	16.2	81	64-119	
1,2-Dibromo-3-Chloropropane	20.0	16.9	85	42-136	
1,2-Dibromoethane	20.0	18.8	94	79-113	
Dibromomethane	20.0	19.1	96	81-120	
1,2-Dichlorobenzene	20.0	18.9	95	81-110	
1,3-Dichlorobenzene	20.0	18.7	94	80-110	
1,4-Dichlorobenzene	20.0	18.1	91	82-110	
Dichlorodifluoromethane	20.0	10.9	55	19-129	
1,1-Dichloroethane	20.0	19.2	96	82-115	
1,2-Dichloroethane	20.0	18.6	93	71-127	
1,1-Dichloroethene	20.0	18.9	95	78-131	
1,2-Dichloropropane	20.0	19.4	97	81-115	
1,3-Dichloropropane	20.0	19.8	99	79-116	
2,2-Dichloropropane	20.0	20.5	103	50-129	
1,1-Dichloropropene	20.0	19.4	97	83-114	
Diisopropyl ether	20.0	19.3	97	77-118	
Ethylbenzene	20.0	18.6	93	83-112	
Hexachlorobutadiene	20.0	18.6	93	36-134	
2-Hexanone	40.0	50.7	127	55-133	
Isopropylbenzene	20.0	18.5	93	75-114	
Methylene Chloride	20.0	18.6	93	66-131	
4-Methyl-2-pentanone	40.0	43.9	110	63-128	
Methyl tert-butyl ether	20.0	18.0	90	52-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX930805.D

Lab ID: LCS 240-37839/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	40.0	37.2	93	83-113	
Naphthalene	20.0	16.8	84	32-141	
n-Butylbenzene	20.0	20.7	104	66-125	
n-Propylbenzene	20.0	18.6	93	74-121	
o-Xylene	20.0	18.5	93	83-113	
p-Isopropyltoluene	20.0	20.2	101	74-120	
sec-Butylbenzene	20.0	19.9	100	70-117	
Styrene	20.0	19.7	99	79-114	
tert-Butyl alcohol	400	436	109	70-130	
tert-Butylbenzene	20.0	18.5	93	71-115	
1,1,1,2-Tetrachloroethane	20.0	17.0	85	72-116	
1,1,2,2-Tetrachloroethane	20.0	21.4	107	68-118	
Tetrachloroethene	20.0	17.5	88	79-114	
Toluene	20.0	19.3	97	84-111	
trans-1,2-Dichloroethene	20.0	18.9	95	83-117	
trans-1,3-Dichloropropene	20.0	18.5	93	58-117	
1,2,3-Trichlorobenzene	20.0	16.7	84	54-126	
1,2,4-Trichlorobenzene	20.0	16.6	83	48-135	
1,1,1-Trichloroethane	20.0	18.6	93	74-118	
Trichloroethene	20.0	17.9	90	76-117	
Trichlorofluoromethane	20.0	18.0	90	49-157	
1,2,3-Trichloropropane	20.0	21.0	105	73-129	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	17.2	86	74-151	
1,2,3-Trimethylbenzene	20.0	19.6	98	70-130	
1,2,4-Trimethylbenzene	20.0	18.8	94	76-120	
Vinyl acetate	20.0	16.7	84	46-161	
Vinyl chloride	20.0	16.2	81	53-127	
Xylenes, Total	60.0	55.7	93	83-112	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ~~UX122978.D~~

Lab ID: 240-9383-1 MS Client ID: MSA-SW37A-032012 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	40.0	5.0 U	32.3	81	33-145	
Benzene	20.0	1.0 U	17.6	88	72-121	
Bromobenzene	20.0	1.0 U	19.0	95	71-116	
Bromochloromethane	20.0	1.0 U	14.9	75	73-121	
Bromodichloromethane	20.0	1.0 U	17.6	88	67-120	
Bromoform	20.0	1.0 U	13.9	70	32-128	
Bromomethane	20.0	1.0 U	21.1	106	10-186	
2-Butanone	40.0	5.0 U	40.1	100	54-129	
Carbon disulfide	20.0	1.0 U	18.6	93	57-147	
Carbon tetrachloride	20.0	1.0 U	20.6	103	59-129	
Chlorobenzene	20.0	0.28 J	18.6	92	80-110	
Chloroethane	20.0	1.0 U	19.4	97	21-165	
2-Chloroethyl vinyl ether	20.0	10 U	10 U	0	10-150	F
Chloroform	20.0	1.0 U	17.9	90	76-118	
Chloromethane	20.0	1.0 U	16.8	84	33-132	
2-Chlorotoluene	20.0	1.0 U	18.9	95	69-117	
4-Chlorotoluene	20.0	1.0 U	18.8	94	71-116	
cis-1,2-Dichloroethene	20.0	10	25.9	79	70-120	
cis-1,3-Dichloropropene	20.0	1.0 U	15.7	79	51-110	
Dibromochloromethane	20.0	1.0 U	16.7	84	56-118	
1,2-Dibromo-3-Chloropropane	20.0	5.0 U	22.1	111	32-139	
1,2-Dibromoethane	20.0	1.0 U	18.9	95	74-113	
Dibromomethane	20.0	1.0 U	21.3	107	77-121	
1,2-Dichlorobenzene	20.0	1.0 U	20.1	101	75-111	
1,3-Dichlorobenzene	20.0	1.0 U	19.4	97	73-110	
1,4-Dichlorobenzene	20.0	1.0 U	19.1	96	75-110	
Dichlorodifluoromethane	20.0	1.0 U	21.3	107	17-128	
1,1-Dichloroethane	20.0	1.0 U	17.3	87	79-116	
1,2-Dichloroethane	20.0	1.0 U	19.5	98	68-129	
1,1-Dichloroethene	20.0	0.38 J	19.6	96	74-135	
1,2-Dichloropropane	20.0	1.0 U	17.2	86	78-115	
1,3-Dichloropropane	20.0	1.0 U	18.2	91	74-118	
2,2-Dichloropropane	20.0	1.0 U	16.3	82	38-127	
1,1-Dichloropropene	20.0	1.0 U	19.3	97	80-114	
Diisopropyl ether	20.0	5.0 U	19.1	96	73-118	
Ethylbenzene	20.0	1.0 U	18.4	92	75-116	
Hexachlorobutadiene	20.0	1.0 U	18.0	90	27-132	
2-Hexanone	40.0	5.0 U	32.9	82	47-139	
Isopropylbenzene	20.0	1.0 U	17.5	88	68-116	
Methylene Chloride	20.0	1.0 U	18.2	91	63-128	
4-Methyl-2-pentanone	40.0	5.0 U	34.7	87	56-131	
Methyl tert-butyl ether	20.0	5.0 U	19.2	96	46-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX122978.D

Lab ID: 240-9383-1 MS Client ID: MSA-SW37A-032012 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	40.0	2.0 U	36.3	91	75-117	
Naphthalene	20.0	1.0 U	24.8	124	15-158	
n-Butylbenzene	20.0	1.0 U	17.5	88	56-127	
n-Propylbenzene	20.0	1.0 U	18.4	92	64-124	
o-Xylene	20.0	1.0 U	17.3	87	76-116	
p-Isopropyltoluene	20.0	1.0 U	19.5	98	64-122	
sec-Butylbenzene	20.0	1.0 U	17.9	90	60-119	
Styrene	20.0	1.0 U	17.5	88	✓71-117	
tert-Butyl alcohol	400	20 U	438	109	70-130	
tert-Butylbenzene	20.0	1.0 U	19.3	97	61-119	
1,1,1,2-Tetrachloroethane	20.0	1.0 U	15.7	79	64-118	
1,1,2,2-Tetrachloroethane	20.0	1.0 U	17.7	89	63-122	
Tetrachloroethene	20.0	1.0 U	18.5	93	70-117	
Toluene	20.0	1.0 U	17.8	89	78-114	
trans-1,2-Dichloroethene	20.0	1.0 U	17.8	89	80-119	
trans-1,3-Dichloropropene	20.0	1.0 U	14.9	75	46-116	
1,2,3-Trichlorobenzene	20.0	1.0 U	24.2	121	45-129	
1,2,4-Trichlorobenzene	20.0	1.0 U	21.5	108	38-138	
1,1,1-Trichloroethane	20.0	1.0 U	19.7	99	68-121	
Trichloroethene	20.0	2.3	22.3	100	66-120	
Trichlorofluoromethane	20.0	1.0 U	24.6	123	46-157	
1,2,3-Trichloropropane	20.0	1.0 U	21.0	105	67-132	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	1.0 U	23.6	118	70-152	
1,2,3-Trimethylbenzene	20.0	5.0 U	19.8	99	70-130	
1,2,4-Trimethylbenzene	20.0	1.0 U	17.6	88	67-124	
Vinyl acetate	20.0	2.0 U	22.0	110	43-157	
Vinyl chloride	20.0	8.6	26.0	87	✓49-130	
Xylenes, Total	60.0	2.0 U	53.6	89	76-116	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX122979.D

Lab ID: 240-9383-1 MSD Client ID: MSA-SW37A-032012 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	40.0	31.7	79	2	30	33-145	
Benzene	20.0	16.9	85	4	30	72-121	
Bromobenzene	20.0	18.3	92	4	30	71-116	
Bromochloromethane	20.0	15.1	76	1	30	73-121	
Bromodichloromethane	20.0	17.7	89	1	30	67-120	
Bromoform	20.0	14.8	74	6	30	32-128	
Bromomethane	20.0	20.4	102	3	30	10-186	
2-Butanone	40.0	37.3	93	7	30	54-129	
Carbon disulfide	20.0	18.2	91	2	30	57-147	
Carbon tetrachloride	20.0	20.8	104	1	30	59-129	
Chlorobenzene	20.0	18.5	91	1	30	80-110	
Chloroethane	20.0	18.7	94	4	30	21-165	
2-Chloroethyl vinyl ether	20.0	10 U	0	NC	30	10-150	F
Chloroform	20.0	18.3	92	2	30	76-118	
Chloromethane	20.0	17.0	85	1	30	33-132	
2-Chlorotoluene	20.0	17.6	88	7	30	69-117	
4-Chlorotoluene	20.0	18.6	93	1	30	71-116	
cis-1,2-Dichloroethene	20.0	26.3	81	2	30	70-120	
cis-1,3-Dichloropropene	20.0	15.6	78	1	30	51-110	
Dibromochloromethane	20.0	16.0	80	4	30	56-118	
1,2-Dibromo-3-Chloropropane	20.0	21.4	107	3	30	32-139	
1,2-Dibromoethane	20.0	18.5	93	2	30	74-113	
Dibromomethane	20.0	21.3	107	0	30	77-121	
1,2-Dichlorobenzene	20.0	19.1	96	5	30	75-111	
1,3-Dichlorobenzene	20.0	18.2	91	6	30	73-110	
1,4-Dichlorobenzene	20.0	18.2	91	5	30	75-110	
Dichlorodifluoromethane	20.0	20.3	102	5	30	17-128	
1,1-Dichloroethane	20.0	17.5	88	1	30	79-116	
1,2-Dichloroethane	20.0	19.0	95	3	30	68-129	
1,1-Dichloroethene	20.0	19.7	97	1	30	74-135	
1,2-Dichloropropane	20.0	17.0	85	1	30	78-115	
1,3-Dichloropropane	20.0	18.2	91	0	30	74-118	
2,2-Dichloropropane	20.0	16.8	84	3	30	38-127	
1,1-Dichloropropene	20.0	18.2	91	6	30	80-114	
Diisopropyl ether	20.0	19.4	97	2	30	73-118	
Ethylbenzene	20.0	18.7	94	2	30	75-116	
Hexachlorobutadiene	20.0	17.9	90	1	30	27-132	
2-Hexanone	40.0	31.4	79	5	30	47-139	
Isopropylbenzene	20.0	17.3	87	1	30	68-116	
Methylene Chloride	20.0	17.8	89	2	30	63-128	
4-Methyl-2-pentanone	40.0	33.0	83	5	30	56-131	
Methyl tert-butyl ether	20.0	18.9	95	2	30	46-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX122979.D

Lab ID: 240-9383-1 MSD Client ID: MSA-SW37A-032012 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m-Xylene & p-Xylene	40.0	34.7	87	5	30	75-117	
Naphthalene	20.0	23.1	116	7	30	15-158	
n-Butylbenzene	20.0	17.5	88	0	30	56-127	
n-Propylbenzene	20.0	17.8	89	3	30	64-124	
o-Xylene	20.0	17.6	88	2	30	76-116	
p-Isopropyltoluene	20.0	18.6	93	5	30	64-122	
sec-Butylbenzene	20.0	17.6	88	2	30	60-119	
Styrene	20.0	17.2	86	2	30	71-117	
tert-Butyl alcohol	400	405	101	8	30	70-130	
tert-Butylbenzene	20.0	17.9	90	8	30	61-119	
1,1,1,2-Tetrachloroethane	20.0	16.0	80	2	30	64-118	
1,1,2,2-Tetrachloroethane	20.0	17.2	86	3	30	63-122	
Tetrachloroethene	20.0	18.1	91	2	30	70-117	
Toluene	20.0	17.6	88	1	30	78-114	
trans-1,2-Dichloroethene	20.0	17.6	88	1	30	80-119	
trans-1,3-Dichloropropene	20.0	15.5	78	4	30	46-116	
1,2,3-Trichlorobenzene	20.0	25.4	127	5	30	45-129	
1,2,4-Trichlorobenzene	20.0	19.8	99	8	30	38-138	
1,1,1-Trichloroethane	20.0	20.0	100	2	30	68-121	
Trichloroethene	20.0	21.5	96	4	30	66-120	
Trichlorofluoromethane	20.0	23.3	117	5	30	46-157	
1,2,3-Trichloropropane	20.0	20.2	101	4	30	67-132	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	23.7	119	0	30	70-152	
1,2,3-Trimethylbenzene	20.0	18.9	95	5	30	70-130	
1,2,4-Trimethylbenzene	20.0	17.0	85	3	30	67-124	
Vinyl acetate	20.0	22.4	112	2	30	43-157	
Vinyl chloride	20.0	26.3	88	1	30	49-130	
Xylenes, Total	60.0	52.3	87	2	30	76-116	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX93063.D

Lab ID: 240-9383-14 MS Client ID: MSA-SW40B-032012 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	40.0	5.0 U	45.6	114	33-145	
Benzene	20.0	1.0 U	18.3	92	72-121	
Bromobenzene	20.0	1.0 U	17.8	89	71-116	
Bromochloromethane	20.0	1.0 U	19.2	96	73-121	
Bromodichloromethane	20.0	1.0 U	15.6	78	67-120	
Bromoform	20.0	1.0 U	11.9	60	32-128	
Bromomethane	20.0	1.0 U	15.2	76	10-186	
2-Butanone	40.0	5.0 U	41.3	103	54-129	
Carbon disulfide	20.0	1.0 U	16.3	82	57-147	
Carbon tetrachloride	20.0	1.0 U	17.3	87	59-129	
Chlorobenzene	20.0	1.0 U	17.4	87	80-110	
Chloroethane	20.0	1.0 U	17.9	90	21-165	
2-Chloroethyl vinyl ether	20.0	10 U	10 U	0	10-150	F
Chloroform	20.0	1.0 U	16.9	85	76-118	
Chloromethane	20.0	1.0 U	16.5	83	33-132	
2-Chlorotoluene	20.0	1.0 U	17.1	86	69-117	
4-Chlorotoluene	20.0	1.0 U	17.5	88	71-116	
cis-1,2-Dichloroethene	20.0	8.1	26.0	90	70-120	
cis-1,3-Dichloropropene	20.0	1.0 U	16.0	80	51-110	
Dibromochloromethane	20.0	1.0 U	13.5	68	56-118	
1,2-Dibromo-3-Chloropropane	20.0	5.0 U	14.8	74	32-139	
1,2-Dibromoethane	20.0	1.0 U	17.9	90	74-113	
Dibromomethane	20.0	1.0 U	17.9	90	77-121	
1,2-Dichlorobenzene	20.0	1.0 U	17.4	87	75-111	
1,3-Dichlorobenzene	20.0	1.0 U	17.1	86	73-110	
1,4-Dichlorobenzene	20.0	1.0 U	16.9	85	75-110	
Dichlorodifluoromethane	20.0	1.0 U	11.5	58	17-128	
1,1-Dichloroethane	20.0	1.0 U	19.2	96	79-116	
1,2-Dichloroethane	20.0	1.0 U	18.9	95	68-129	
1,1-Dichloroethene	20.0	1.0 U	18.0	90	74-135	
1,2-Dichloropropane	20.0	1.0 U	19.0	95	78-115	
1,3-Dichloropropane	20.0	1.0 U	19.2	96	74-118	
2,2-Dichloropropane	20.0	1.0 U	19.5	98	38-127	
1,1-Dichloropropene	20.0	1.0 U	19.0	95	80-114	
Diisopropyl ether	20.0	5.0 U	18.5	93	73-118	
Ethylbenzene	20.0	1.0 U	17.7	89	75-116	
Hexachlorobutadiene	20.0	1.0 U	16.6	83	27-132	
2-Hexanone	40.0	5.0 U	52.7	132	47-139	
Isopropylbenzene	20.0	1.0 U	16.9	85	68-116	
Methylene Chloride	20.0	1.0 U	17.3	87	63-128	
4-Methyl-2-pentanone	40.0	5.0 U	47.4	119	56-131	
Methyl tert-butyl ether	20.0	5.0 U	18.0	90	46-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX93063.D

Lab ID: 240-9383-14 MS Client ID: MSA-SW40B-032012 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	40.0	0.48 J	35.4	87	75-117	
Naphthalene	20.0	1.0 U	17.2	86	15-158	
n-Butylbenzene	20.0	1.0 U	18.5	93	56-127	
n-Propylbenzene	20.0	1.0 U	17.3	87	64-124	
o-Xylene	20.0	1.0 U	17.5	88	76-116	
p-Isopropyltoluene	20.0	1.0 U	17.9	90	64-122	
sec-Butylbenzene	20.0	1.0 U	18.0	90	60-119	
Styrene	20.0	1.0 U	17.2	86	71-117	
tert-Butyl alcohol	400	20 U	468	117	70-130	
tert-Butylbenzene	20.0	1.0 U	17.4	87	61-119	
1,1,1,2-Tetrachloroethane	20.0	1.0 U	14.8	74	64-118	
1,1,2,2-Tetrachloroethane	20.0	1.0 U	20.7	104	63-122	
Tetrachloroethene	20.0	1.0 U	16.2	81	70-117	
Toluene	20.0	1.0 U	18.3	92	78-114	
trans-1,2-Dichloroethene	20.0	0.38 J	18.2	89	80-119	
trans-1,3-Dichloropropene	20.0	1.0 U	16.4	82	46-116	
1,2,3-Trichlorobenzene	20.0	1.0 U	16.1	81	45-129	
1,2,4-Trichlorobenzene	20.0	0.41 J	15.8	77	38-138	
1,1,1-Trichloroethane	20.0	1.0 U	18.3	92	68-121	
Trichloroethene	20.0	21	37.5	85	66-120	
Trichlorofluoromethane	20.0	1.0 U	17.6	88	46-157	
1,2,3-Trichloropropane	20.0	1.0 U	19.7	99	67-132	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	1.0 U	17.5	88	70-152	
1,2,3-Trimethylbenzene	20.0	5.0 U	17.9	90	70-130	
1,2,4-Trimethylbenzene	20.0	1.0 U	16.7	84	67-124	
Vinyl acetate	20.0	2.0 U	15.6	78	43-157	
Vinyl chloride	20.0	2.3	18.7	82	49-130	
Xylenes, Total	60.0	0.48 J	52.9	87	76-116	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX93064.D

Lab ID: 240-9383-14 MSD Client ID: MSA-SW40B-032012 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	40.0	42.8	107	6	30	33-145	
Benzene	20.0	18.8	94	3	30	72-121	
Bromobenzene	20.0	19.3	97	8	30	71-116	
Bromochloromethane	20.0	19.8	99	3	30	73-121	
Bromodichloromethane	20.0	16.9	85	8	30	67-120	
Bromoform	20.0	13.3	67	11	30	32-128	
Bromomethane	20.0	15.8	79	4	30	10-186	
2-Butanone	40.0	45.0	113	9	30	54-129	
Carbon disulfide	20.0	17.3	87	6	30	57-147	
Carbon tetrachloride	20.0	18.5	93	7	30	59-129	
Chlorobenzene	20.0	18.5	93	6	30	80-110	
Chloroethane	20.0	18.6	93	4	30	21-165	
2-Chloroethyl vinyl ether	20.0	10 U	0	NC	30	10-150	F
Chloroform	20.0	17.3	87	2	30	76-118	
Chloromethane	20.0	16.7	84	1	30	33-132	
2-Chlorotoluene	20.0	18.3	92	7	30	69-117	
4-Chlorotoluene	20.0	18.2	91	4	30	71-116	
cis-1,2-Dichloroethene	20.0	26.7	93	3	30	70-120	
cis-1,3-Dichloropropene	20.0	17.0	85	6	30	51-110	
Dibromochloromethane	20.0	15.0	75	11	30	56-118	
1,2-Dibromo-3-Chloropropane	20.0	17.7	89	18	30	32-139	
1,2-Dibromoethane	20.0	19.4	97	8	30	74-113	
Dibromomethane	20.0	18.8	94	5	30	77-121	
1,2-Dichlorobenzene	20.0	18.3	92	5	30	75-111	
1,3-Dichlorobenzene	20.0	18.4	92	7	30	73-110	
1,4-Dichlorobenzene	20.0	17.6	88	4	30	75-110	
Dichlorodifluoromethane	20.0	11.8	59	3	30	17-128	
1,1-Dichloroethane	20.0	19.7	99	3	30	79-116	
1,2-Dichloroethane	20.0	19.0	95	1	30	68-129	
1,1-Dichloroethene	20.0	18.4	92	2	30	74-135	
1,2-Dichloropropane	20.0	20.0	100	5	30	78-115	
1,3-Dichloropropane	20.0	20.3	102	6	30	74-118	
2,2-Dichloropropane	20.0	20.4	102	5	30	38-127	
1,1-Dichloropropene	20.0	19.8	99	4	30	80-114	
Diisopropyl ether	20.0	19.2	96	4	30	73-118	
Ethylbenzene	20.0	18.2	91	3	30	75-116	
Hexachlorobutadiene	20.0	17.6	88	6	30	27-132	
2-Hexanone	40.0	56.0	140	6	30	47-139	F
Isopropylbenzene	20.0	17.9	90	6	30	68-116	
Methylene Chloride	20.0	18.5	93	7	30	63-128	
4-Methyl-2-pentanone	40.0	49.6	124	5	30	56-131	
Methyl tert-butyl ether	20.0	18.9	95	5	30	46-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX93064.D

Lab ID: 240-9383-14 MSD Client ID: MSA-SW40B-032012 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m-Xylene & p-Xylene	40.0	37.0	91	4	30	75-117	
Naphthalene	20.0	18.3	92	6	30	15-158	
n-Butylbenzene	20.0	19.8	99	7	30	56-127	
n-Propylbenzene	20.0	18.4	92	6	30	64-124	
o-Xylene	20.0	18.3	92	4	30	76-116	
p-Isopropyltoluene	20.0	19.1	96	6	30	64-122	
sec-Butylbenzene	20.0	19.3	97	7	30	60-119	
Styrene	20.0	17.6	88	2	30	71-117	
tert-Butyl alcohol	400	489	122	4	30	70-130	
tert-Butylbenzene	20.0	18.1	91	4	30	61-119	
1,1,1,2-Tetrachloroethane	20.0	15.7	79	6	30	64-118	
1,1,2,2-Tetrachloroethane	20.0	22.0	110	6	30	63-122	
Tetrachloroethene	20.0	17.2	86	6	30	70-117	
Toluene	20.0	19.2	96	5	30	78-114	
trans-1,2-Dichloroethene	20.0	19.0	93	4	30	80-119	
trans-1,3-Dichloropropene	20.0	18.3	92	11	30	46-116	
1,2,3-Trichlorobenzene	20.0	17.4	87	8	30	45-129	
1,2,4-Trichlorobenzene	20.0	17.5	85	10	30	38-138	
1,1,1-Trichloroethane	20.0	18.8	94	3	30	68-121	
Trichloroethene	20.0	37.3	84	1	30	66-120	
Trichlorofluoromethane	20.0	18.2	91	3	30	46-157	
1,2,3-Trichloropropane	20.0	22.1	111	11	30	67-132	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	17.7	89	1	30	70-152	
1,2,3-Trimethylbenzene	20.0	19.0	95	6	30	70-130	
1,2,4-Trimethylbenzene	20.0	17.4	87	4	30	67-124	
Vinyl acetate	20.0	16.4	82	5	30	43-157	
Vinyl chloride	20.0	19.0	84	2	30	49-130	
Xylenes, Total	60.0	55.3	91	4	30	76-116	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX930815.D

Lab ID: 240-9383-28 MS Client ID: MSA-SW43D-032012 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	40.0	5.0 U	43.7	109	33-145	
Benzene	20.0	1.0 U	19.4	97	72-121	
Bromobenzene	20.0	1.0 U	20.0	100	71-116	
Bromochloromethane	20.0	1.0 U	19.7	99	73-121	
Bromodichloromethane	20.0	1.0 U	17.6	88	67-120	
Bromoform	20.0	1.0 U	14.8	74	32-128	
Bromomethane	20.0	1.0 U	16.0	80	10-186	
2-Butanone	40.0	5.0 U	43.4	109	54-129	
Carbon disulfide	20.0	1.0 U	17.5	88	57-147	
Carbon tetrachloride	20.0	1.0 U	19.3	97	59-129	
Chlorobenzene	20.0	1.0 U	18.7	94	80-110	
Chloroethane	20.0	1.0 U	18.0	90	21-165	
2-Chloroethyl vinyl ether	20.0	10 U	10 U	0	10-150	F
Chloroform	20.0	1.0 U	17.3	87	76-118	
Chloromethane	20.0	1.0 U	16.0	80	33-132	
2-Chlorotoluene	20.0	1.0 U	18.6	93	69-117	
4-Chlorotoluene	20.0	1.0 U	18.7	94	71-116	
cis-1,2-Dichloroethene	20.0	2.8	21.2	92	70-120	
cis-1,3-Dichloropropene	20.0	1.0 U	17.0	85	51-110	
Dibromochloromethane	20.0	1.0 U	16.5	83	56-118	
1,2-Dibromo-3-Chloropropane	20.0	5.0 U	17.5	88	32-139	
1,2-Dibromoethane	20.0	1.0 U	19.4	97	74-113	
Dibromomethane	20.0	1.0 U	19.4	97	77-121	
1,2-Dichlorobenzene	20.0	1.0 U	18.7	94	75-111	
1,3-Dichlorobenzene	20.0	1.0 U	18.6	93	73-110	
1,4-Dichlorobenzene	20.0	1.0 U	18.2	91	75-110	
Dichlorodifluoromethane	20.0	1.0 U	10.4	52	17-128	
1,1-Dichloroethane	20.0	1.0 U	19.4	97	79-116	
1,2-Dichloroethane	20.0	1.0 U	18.8	94	68-129	
1,1-Dichloroethene	20.0	1.0 U	19.0	95	74-135	
1,2-Dichloropropane	20.0	1.0 U	19.6	98	78-115	
1,3-Dichloropropane	20.0	1.0 U	20.2	101	74-118	
2,2-Dichloropropane	20.0	1.0 U	19.8	99	38-127	
1,1-Dichloropropene	20.0	1.0 U	19.6	98	80-114	
Diisopropyl ether	20.0	5.0 U	18.9	95	73-118	
Ethylbenzene	20.0	1.0 U	18.3	92	75-116	
Hexachlorobutadiene	20.0	1.0 U	17.7	89	27-132	
2-Hexanone	40.0	5.0 U	52.7	132	47-139	
Isopropylbenzene	20.0	1.0 U	18.1	91	68-116	
Methylene Chloride	20.0	1.0 U	17.8	89	63-128	
4-Methyl-2-pentanone	40.0	5.0 U	47.3	118	56-131	
Methyl tert-butyl ether	20.0	5.0 U	19.2	96	46-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX930815.D

Lab ID: 240-9383-28 MS Client ID: MSA-SW43D-032012 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	40.0	2.0 U	37.1	93	75-117	
Naphthalene	20.0	1.0 U	17.6	88	15-158	
n-Butylbenzene	20.0	1.0 U	20.0	100	56-127	
n-Propylbenzene	20.0	1.0 U	18.7	94	64-124	
o-Xylene	20.0	1.0 U	18.4	92	76-116	
p-Isopropyltoluene	20.0	1.0 U	19.2	96	64-122	
sec-Butylbenzene	20.0	1.0 U	19.2	96	60-119	
Styrene	20.0	1.0 U	19.6	98	71-117	
tert-Butyl alcohol	400	20 U	454	113	70-130	
tert-Butylbenzene	20.0	1.0 U	18.0	90	61-119	
1,1,1,2-Tetrachloroethane	20.0	1.0 U	16.8	84	64-118	
1,1,2,2-Tetrachloroethane	20.0	1.0 U	21.8	109	63-122	
Tetrachloroethene	20.0	1.0 U	17.8	89	70-117	
Toluene	20.0	1.0 U	19.5	98	78-114	
trans-1,2-Dichloroethene	20.0	1.0 U	18.9	95	80-119	
trans-1,3-Dichloropropene	20.0	1.0 U	18.3	92	46-116	
1,2,3-Trichlorobenzene	20.0	1.0 U	16.7	84	45-129	
1,2,4-Trichlorobenzene	20.0	1.0 U	16.8	84	38-138	
1,1,1-Trichloroethane	20.0	1.0 U	18.6	93	68-121	
Trichloroethene	20.0	2.9	20.5	88	66-120	
Trichlorofluoromethane	20.0	1.0 U	17.8	89	46-157	
1,2,3-Trichloropropane	20.0	1.0 U	21.2	106	67-132	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	1.0 U	17.1	86	70-152	
1,2,3-Trimethylbenzene	20.0	5.0 U	19.1	96	70-130	
1,2,4-Trimethylbenzene	20.0	1.0 U	18.2	91	67-124	
Vinyl acetate	20.0	2.0 U	17.1	86	43-157	
Vinyl chloride	20.0	1.1	17.0	80	49-130	
Xylenes, Total	60.0	2.0 U	55.5	93	76-116	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX930816.D

Lab ID: 240-9383-28 MSD Client ID: MSA-SW43D-032012 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	40.0	41.4	104	5	30	33-145	
Benzene	20.0	19.8	99	2	30	72-121	
Bromobenzene	20.0	19.7	99	2	30	71-116	
Bromochloromethane	20.0	19.8	99	1	30	73-121	
Bromodichloromethane	20.0	17.8	89	1	30	67-120	
Bromoform	20.0	15.2	76	3	30	32-128	
Bromomethane	20.0	16.2	81	1	30	10-186	
2-Butanone	40.0	41.3	103	5	30	54-129	
Carbon disulfide	20.0	18.4	92	5	30	57-147	
Carbon tetrachloride	20.0	20.4	102	6	30	59-129	
Chlorobenzene	20.0	18.6	93	1	30	80-110	
Chloroethane	20.0	18.5	93	3	30	21-165	
2-Chloroethyl vinyl ether	20.0	10 U	0	NC	30	10-150	F
Chloroform	20.0	18.0	90	4	30	76-118	
Chloromethane	20.0	16.2	81	1	30	33-132	
2-Chlorotoluene	20.0	18.3	92	2	30	69-117	
4-Chlorotoluene	20.0	18.7	94	0	30	71-116	
cis-1,2-Dichloroethene	20.0	21.2	92	0	30	70-120	
cis-1,3-Dichloropropene	20.0	17.4	87	2	30	51-110	
Dibromochloromethane	20.0	16.6	83	1	30	56-118	
1,2-Dibromo-3-Chloropropane	20.0	17.7	89	1	30	32-139	
1,2-Dibromoethane	20.0	19.8	99	2	30	74-113	
Dibromomethane	20.0	19.6	98	1	30	77-121	
1,2-Dichlorobenzene	20.0	18.5	93	1	30	75-111	
1,3-Dichlorobenzene	20.0	18.7	94	1	30	73-110	
1,4-Dichlorobenzene	20.0	18.2	91	0	30	75-110	
Dichlorodifluoromethane	20.0	10.7	54	3	30	17-128	
1,1-Dichloroethane	20.0	20.0	100	3	30	79-116	
1,2-Dichloroethane	20.0	19.5	98	4	30	68-129	
1,1-Dichloroethene	20.0	19.5	98	3	30	74-135	
1,2-Dichloropropane	20.0	19.4	97	1	30	78-115	
1,3-Dichloropropane	20.0	20.6	103	2	30	74-118	
2,2-Dichloropropane	20.0	20.5	103	3	30	38-127	
1,1-Dichloropropene	20.0	20.6	103	5	30	80-114	
Diisopropyl ether	20.0	19.7	99	4	30	73-118	
Ethylbenzene	20.0	19.0	95	4	30	75-116	
Hexachlorobutadiene	20.0	18.4	92	4	30	27-132	
2-Hexanone	40.0	51.6	129	2	30	47-139	
Isopropylbenzene	20.0	18.4	92	2	30	68-116	
Methylene Chloride	20.0	18.6	93	4	30	63-128	
4-Methyl-2-pentanone	40.0	47.5	119	0	30	56-131	
Methyl tert-butyl ether	20.0	19.1	96	1	30	46-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UX930816.D

Lab ID: 240-9383-28 MSD Client ID: MSA-SW43D-032012 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m-Xylene & p-Xylene	40.0	38.2	96	3	30	75-117	
Naphthalene	20.0	17.8	89	1	30	15-158	
n-Butylbenzene	20.0	20.5	103	2	30	56-127	
n-Propylbenzene	20.0	19.2	96	3	30	64-124	
o-Xylene	20.0	18.5	93	1	30	76-116	
p-Isopropyltoluene	20.0	20.3	102	6	30	64-122	
sec-Butylbenzene	20.0	19.6	98	2	30	60-119	
Styrene	20.0	19.7	99	1	30	71-117	
tert-Butyl alcohol	400	443	111	2	30	70-130	
tert-Butylbenzene	20.0	18.8	94	4	30	61-119	
1,1,1,2-Tetrachloroethane	20.0	17.5	88	4	30	64-118	
1,1,2,2-Tetrachloroethane	20.0	22.2	111	2	30	63-122	
Tetrachloroethene	20.0	18.3	92	3	30	70-117	
Toluene	20.0	19.8	99	2	30	78-114	
trans-1,2-Dichloroethene	20.0	19.6	98	4	30	80-119	
trans-1,3-Dichloropropene	20.0	18.5	93	1	30	46-116	
1,2,3-Trichlorobenzene	20.0	17.6	88	5	30	45-129	
1,2,4-Trichlorobenzene	20.0	17.1	86	2	30	38-138	
1,1,1-Trichloroethane	20.0	19.9	100	7	30	68-121	
Trichloroethene	20.0	21.3	92	4	30	66-120	
Trichlorofluoromethane	20.0	18.7	94	5	30	46-157	
1,2,3-Trichloropropane	20.0	20.5	103	3	30	67-132	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	18.0	90	5	30	70-152	
1,2,3-Trimethylbenzene	20.0	19.4	97	2	30	70-130	
1,2,4-Trimethylbenzene	20.0	18.4	92	1	30	67-124	
Vinyl acetate	20.0	17.4	87	2	30	43-157	
Vinyl chloride	20.0	18.3	86	7	30	49-130	
Xylenes, Total	60.0	56.7	95	2	30	76-116	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MSA-SW37A-032012	240-9383-1	118	111	105	99
MSA-SW37B-032012	240-9383-2	114	106	101	95
MSA-SW37C-032012	240-9383-3	113	108	105	96
MSA-SW37D-032012	240-9383-4	113	106	104	96
MSA-SW38A-032012	240-9383-5	109	107	100	94
MSA-SW38B-032012	240-9383-6	114	107	105	100
MSA-SW38C-032012	240-9383-7	121	109	103	99
MSA-SW38D-032012	240-9383-8	111	108	113	100
MSA-SW39A-032012	240-9383-9	115	107	99	94
MSA-SW39B-032012	240-9383-10	117	114	108	97
MSA-SW39C-032012	240-9383-11	116	111	104	97
MSA-SW39D-032012	240-9383-12	118	111	105	93
MSA-SW40A-032012	240-9383-13	117	109	104	98
MSA-SW40B-032012	240-9383-14	79	86	88	87
MSA-SW40C-032012	240-9383-15	79	85	88	85
MSA-SW40D-032012	240-9383-16	79	86	89	86
MSA-SW41A-032012	240-9383-17	80	86	89	86
MSA-SW41B-032012	240-9383-18	79	85	88	84
MSA-SW41C-032012	240-9383-19	79	83	88	85
MSA-SW41D-032012	240-9383-20	79	85	87	85
MSA-SW42A-032012	240-9383-21	79	85	89	87
MSA-SW42B-032012	240-9383-22	78	85	88	84
MSA-SW42C-032012	240-9383-23	79	83	88	86
MSA-SW42D-032012	240-9383-24	79	86	89	85
MSA-SW43A-032012	240-9383-25	77	83	87	85
MSA-SW43B-032012	240-9383-26	79	85	88	86
MSA-SW43C-032012	240-9383-27	81	86	88	87
MSA-SW43D-032012	240-9383-28	78	84	87	86
MSA-SW44A-032012	240-9383-29	80	84	88	85
MSA-SW44B-032012	240-9383-30	79	83	89	86
MSA-SW44C-032012	240-9383-31	80	82	88	83
MSA-SW44D-032012	240-9383-32	80	85	89	86
MSA-SW45A-032012	240-9383-33	80	83	87	85
MSA-SW45B-032012	240-9383-34	80	85	89	86
MSA-SW45C-032012	240-9383-35	79	85	88	85

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115
BFB = 4-Bromofluorobenzene (Surr)	66-117

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MSA-SW45D-032012	240-9383-36	81	84	88	86
EL-SW01A-032012	240-9383-37	80	83	86	82
EL-SW01B-032012	240-9383-38	77	81	87	84
EL-SW01C-032012	240-9383-39	79	80	87	84
EL-SW01D-032012	240-9383-40	79	81	88	84
TB-032012	240-9383-41	81	84	88	86
	MB 240-37611/6	111	105	102	97
	MB 240-37654/6	78	84	89	86
	MB 240-37839/5	80	86	87	84
	LCS 240-37611/4	115	114	103	98
	LCS 240-37654/4	80	88	91	92
	LCS 240-37839/4	82	83	90	91
MSA-SW37A-032012 MS	240-9383-1 MS	112	107	104	95
MSA-SW40B-032012 MS	240-9383-14 MS	79	83	89	87
MSA-SW43D-032012 MS	240-9383-28 MS	80	87	91	89
MSA-SW37A-032012 MSD	240-9383-1 MSD	119	111	108	101
MSA-SW40B-032012 MSD	240-9383-14 MSD	80	89	90	89
MSA-SW43D-032012 MSD	240-9383-28 MSD	82	83	91	90

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115
BFB = 4-Bromofluorobenzene (Surr)	66-117

Column to be used to flag recovery values

FORM II 8260B

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Sample No.: STD8260 240-33074/7 Date Analyzed: 02/07/2012 21:34

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX122180.D Heated Purge: (Y/N) N

Calibration ID: 6865

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1426498	5.32	1110703	8.00	481844	10.23
UPPER LIMIT		2852996	5.82	2221406	8.50	963688	10.73
LOWER LIMIT		713249	4.82	555352	7.50	240922	9.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-33074/15		1466585	5.32	1106284	8.00	510620	10.23
CCVIS 240-37611/2		1596293	5.32	1236021	8.00	576060	10.23

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Sample No.: CCVIS 240-37611/2 Date Analyzed: 03/22/2012 11:49

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX122964.D Heated Purge: (Y/N) N

Calibration ID: 6868

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1596293	5.32	1236021	8.00	576060	10.23
UPPER LIMIT		3192586	5.82	2472042	8.50	1152120	10.73
LOWER LIMIT		798147	4.82	618011	7.50	288030	9.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-37611/3		1585921	5.32	1226472	8.00	555427	10.23
LCS 240-37611/4		1613794	5.32	1264293	8.00	572839	10.23
MB 240-37611/6		1675131	5.32	1276625	8.00	580299	10.23
240-9383-1	MSA-SW37A-032012	1547303	5.32	1213653	8.00	536230	10.23
240-9383-1 MS	MSA-SW37A-032012 MS	1591704	5.33	1228846	8.00	523837	10.23
240-9383-1 MSD	MSA-SW37A-032012 MSD	1553371	5.32	1197596	8.00	519692	10.23
240-9383-2	MSA-SW37B-032012	1561892	5.32	1247274	8.00	510006	10.23
240-9383-3	MSA-SW37C-032012	1576948	5.32	1230319	8.00	549530	10.23
240-9383-4	MSA-SW37D-032012	1600660	5.33	1217966	8.00	548991	10.23
240-9383-5	MSA-SW38A-032012	1602060	5.32	1216157	8.00	544517	10.23
240-9383-6	MSA-SW38B-032012	1612321	5.32	1230824	8.00	528661	10.23
240-9383-7	MSA-SW38C-032012	1578076	5.32	1236265	8.00	526929	10.23
240-9383-8	MSA-SW38D-032012	1591268	5.33	1179645	8.00	542379	10.23
240-9383-9	MSA-SW39A-032012	1577341	5.32	1267819	8.00	538774	10.23
240-9383-10	MSA-SW39B-032012	1580419	5.32	1241955	8.00	510036	10.23
240-9383-11	MSA-SW39C-032012	1539924	5.32	1193915	8.00	506179	10.23
240-9383-12	MSA-SW39D-032012	1532076	5.32	1202237	8.00	520168	10.23
240-9383-13	MSA-SW40A-032012	1502732	5.32	1168023	8.00	515243	10.23

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Sample No.: STD8260 240-21323/6 Date Analyzed: 10/31/2011 19:06

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX90536.D Heated Purge: (Y/N) N

Calibration ID: 4930

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1578693	5.29	1327896	7.96	737837	10.19
UPPER LIMIT		3157386	5.79	2655792	8.46	1475674	10.69
LOWER LIMIT		789347	4.79	663948	7.46	368919	9.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-21323/15		1608933	5.30	1287572	7.96	725889	10.18
CCVIS 240-37654/2		1980194	5.29	1562097	7.96	796910	10.18
CCVIS 240-37839/2		1909945	5.30	1515834	7.96	810569	10.18

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Sample No.: CCVIS 240-37654/2 Date Analyzed: 03/22/2012 11:21

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX93050.D Heated Purge: (Y/N) N

Calibration ID: 6381

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1980194	5.29	1562097	7.96	796910	10.18
UPPER LIMIT		3960388	5.79	3124194	8.46	1593820	10.68
LOWER LIMIT		990097	4.79	781049	7.46	398455	9.68
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-37654/3		1949867	5.30	1527220	7.96	789787	10.18
LCS 240-37654/4		1964352	5.29	1520091	7.96	815909	10.18
MB 240-37654/6		1912316	5.30	1507564	7.96	763951	10.18
240-9383-14	MSA-SW40B-032012	1879779	5.30	1486971	7.96	747595	10.18
240-9383-14 MS	MSA-SW40B-032012 MS	1955363	5.30	1545753	7.96	821794	10.18
240-9383-14 MSD	MSA-SW40B-032012 MSD	1933240	5.29	1508235	7.96	801018	10.18
240-9383-15	MSA-SW40C-032012	1902746	5.30	1490280	7.96	755186	10.18
240-9383-16	MSA-SW40D-032012	1874996	5.30	1493405	7.96	770990	10.18
240-9383-17	MSA-SW41A-032012	1894813	5.30	1497789	7.96	757669	10.18
240-9383-18	MSA-SW41B-032012	1899702	5.30	1508992	7.96	764345	10.18
240-9383-19	MSA-SW41C-032012	1910815	5.29	1512920	7.96	768780	10.18
240-9383-20	MSA-SW41D-032012	1906640	5.29	1523615	7.96	758800	10.19
240-9383-21	MSA-SW42A-032012	1895222	5.29	1494873	7.96	772686	10.18
240-9383-22	MSA-SW42B-032012	1885776	5.30	1502107	7.96	758752	10.18
240-9383-23	MSA-SW42C-032012	1900454	5.29	1491784	7.96	763793	10.19
240-9383-24	MSA-SW42D-032012	1912709	5.30	1495929	7.96	766918	10.18
240-9383-25	MSA-SW43A-032012	1921601	5.29	1519189	7.96	776102	10.19
240-9383-26	MSA-SW43B-032012	1905722	5.29	1499504	7.96	750644	10.18
240-9383-27	MSA-SW43C-032012	1851408	5.29	1473490	7.96	754850	10.19

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

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

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Sample No.: CCVIS 240-37839/2 Date Analyzed: 03/23/2012 12:41

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX930803.D Heated Purge: (Y/N) N

Calibration ID: 6381

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1909945	5.30	1515834	7.96	810569	10.18
UPPER LIMIT		3819890	5.80	3031668	8.46	1621138	10.68
LOWER LIMIT		954973	4.80	757917	7.46	405285	9.68
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-37839/3		1918774	5.30	1507289	7.96	777935	10.18
LCS 240-37839/4		1925656	5.29	1494979	7.96	800286	10.18
MB 240-37839/5		1868581	5.30	1506237	7.96	761616	10.18
240-9383-28	MSA-SW43D-032012	1910221	5.30	1503405	7.96	783506	10.18
240-9383-28 MS	MSA-SW43D-032012 MS	1938428	5.29	1502362	7.96	796342	10.18
240-9383-28 MSD	MSA-SW43D-032012 MSD	1932679	5.29	1510193	7.96	806788	10.18
240-9383-41	TB-032012	1867378	5.30	1480680	7.96	771908	10.18
240-9383-29	MSA-SW44A-032012	1871659	5.30	1485285	7.96	765968	10.18
240-9383-30	MSA-SW44B-032012	1883453	5.30	1476814	7.96	757373	10.18
240-9383-31	MSA-SW44C-032012	1887524	5.29	1489785	7.96	770787	10.19
240-9383-32	MSA-SW44D-032012	1893915	5.29	1499381	7.96	759858	10.19
240-9383-33	MSA-SW45A-032012	1846082	5.29	1474077	7.96	747587	10.19
240-9383-34	MSA-SW45B-032012	1849894	5.30	1469771	7.96	769060	10.18
240-9383-35	MSA-SW45C-032012	1843668	5.29	1474306	7.96	749517	10.19
240-9383-36	MSA-SW45D-032012	1874075	5.30	1482380	7.96	750635	10.18
240-9383-37	EL-SW01A-032012	1887611	5.30	1502257	7.96	758319	10.18
240-9383-38	EL-SW01B-032012	1900885	5.30	1501635	7.96	772276	10.18
240-9383-39	EL-SW01C-032012	1897767	5.29	1498423	7.96	752998	10.18
240-9383-40	EL-SW01D-032012	1906407	5.30	1489395	7.96	762075	10.18

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

VOC CALCULATION

	SAMPLE MSA-SW40A-032012		
TARGET ANALYTE	trichloroethene		
ANALYTE RESPONSE	175501		
INTERNAL STANDARD	fluorobenzene		
I.S. RESPONSE	1502732		
I.S. CONCENTRATION	20	µg/L	
ANALYTE CAL. RF	0.21545		
DILUTION FACTOR (DF)	1		

$$\frac{\text{(ANALYTE RESPONSE) X (I.S. CONCENTRATION) X DF}}{\text{(I.S. RESPONSE) X (CAL. R.F.)}} = 10.84 \text{ µg/L}$$

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX12\20120322-8415.b\UX122992.D		
Lims ID:	240-9383-C-13	Client ID:	MSA-SW40A-032012
Inject. Date:	22-Mar-2012 23:12:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0008415-030		
Misc. Info.:			
Operator:	1904	Instrument ID:	A3UX12
Vol. Injected:	1.0000	ALS Bottle#:	29
Lims Batch ID:	37611	Lims Sample ID:	30
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX12\20120322-8415.b\8260_12.m		
Last Update:	22-Mar-2012 15:37:24	Calib Date:	08-Feb-2012 00:29:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX12\20120207-7400.b\UX122187.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Process Host:	CORP-CTX-18		
First Level Reviewer: quayler		Date:	23-Mar-2012 08:24:47

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.322	5.322	0.0	99	1502732	20.0	
* 2 Chlorobenzene-d5	117	7.996	7.996	0.0	84	1168023	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.232	10.232	0.0	94	515243	20.0	
$ 5 Dibromofluoromethane (Surr)	113	4.766	4.765	0.001	58	352105	23.4	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	5.050	5.049	0.001	88	380201	21.8	
$ 7 Toluene-d8 (Surr)	98	6.682	6.682	0.0	92	1355506	20.8	
$ 131 4-Bromofluorobenzene (Surr)	95	9.096	9.108	-0.012	89	501574	19.6	
12 Dichlorodifluoromethane	85		1.653					
13 Chloromethane	50		1.795					
14 Vinyl chloride	62	1.902	1.902	0.0	83	949161	40.2	
15 Bromomethane	94		2.198					
16 Chloroethane	64		2.304					
18 Trichlorofluoromethane	101		2.517					
21 1,1-Dichloroethene	61	2.955	2.955	0.0	48	10826	0.3933	
22 Acetone	43		2.955					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.955					
26 Carbon disulfide	76		3.144					
30 Methylene Chloride	49		3.357					
31 2-Methyl-2-propanol	59		3.393					
33 trans-1,2-Dichloroethene	61	3.559	3.547	0.012	80	16377	0.7650	
34 Methyl tert-butyl ether	73		3.547					
36 1,1-Dichloroethane	63		3.902					
37 Vinyl acetate	86		3.925					
38 Isopropyl ether	87		3.937					
40 Tert-butyl ethyl ether	59		4.233					
43 2,2-Dichloropropane	77		4.375					
42 cis-1,2-Dichloroethene	61	4.375	4.375	0.0	64	888303	38.8	
41 2-Butanone (MEK)	72		4.375					
47 Chlorobromomethane	49		4.564					
49 Chloroform	83		4.623					
50 1,1,1-Trichloroethane	97		4.801					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
52 1,1-Dichloropropene	75		4.931					
53 Carbon tetrachloride	117		4.943					
55 Benzene	78		5.108					
56 1,2-Dichloroethane	62		5.108					
57 Tert-amyl methyl ether	73		5.180					
60 Trichloroethene	130	5.641	5.641	0.0	90	175501	10.8	
62 1,2-Dichloropropane	63		5.830					
65 Dibromomethane	174		5.937					
67 Dichlorobromomethane	83		6.055					
69 2-Chloroethyl vinyl ether	63		6.292					
70 cis-1,3-Dichloropropene	75		6.434					
71 4-Methyl-2-pentanone (MIBK)	43		6.564					
72 Toluene	91	6.742	6.741	0.001	72	50659	0.7096	
73 trans-1,3-Dichloropropene	75		6.919					
77 Tetrachloroethene	166		7.238					
76 1,3-Dichloropropane	76		7.250					
78 2-Hexanone	43	7.392	7.298	0.094	1	2845	0.3170	
79 Chlorodibromomethane	129		7.451					
123 Ethylene Dibromide	107		7.570					
82 Chlorobenzene	112		8.019					
83 1,1,1,2-Tetrachloroethane	131		8.090					
84 Ethylbenzene	106	8.114	8.114	0.0	87	29013	1.35	
10 m-Xylene & p-Xylene	106	8.221	8.221	0.0	96	313816	11.1	
85 o-Xylene	106	8.599	8.599	0.0	93	55418	1.91	
86 Styrene	104		8.611					
87 Bromoform	173		8.800					
88 Isopropylbenzene	105		8.954					
90 1,1,2,2-Tetrachloroethane	83		9.226					
91 Bromobenzene	156		9.262					
92 1,2,3-Trichloropropane	110		9.286					
94 N-Propylbenzene	120		9.345					
95 2-Chlorotoluene	126		9.439					
104 4-Chlorotoluene	126		9.546					
97 tert-Butylbenzene	119		9.842					
98 1,2,4-Trimethylbenzene	105		9.889					
99 sec-Butylbenzene	105		10.055					
100 1,3-Dichlorobenzene	146		10.173					
101 4-Isopropyltoluene	119		10.197					
102 1,4-Dichlorobenzene	146	10.256	10.256	0.0	69	56235	1.58	
103 1,2,3-Trimethylbenzene	105		10.303					
105 n-Butylbenzene	91		10.599					
106 1,2-Dichlorobenzene	146		10.634					
107 1,2-Dibromo-3-Chloropropane	157		11.404					
109 1,2,4-Trichlorobenzene	180	12.244	12.232	0.012	27	9649	0.5879	
110 Hexachlorobutadiene	225		12.409					
111 Naphthalene	128		12.492					
112 1,2,3-Trichlorobenzene	180		12.753					
S 114 Xylenes, Total	106				0		13.1	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: CCVIS 240-37611/2 Calibration Date: 03/22/2012 11:49

Instrument ID: A3UX12 Calib Start Date: 02/07/2012 20:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2012 22:23

Lab File ID: UX122964.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1574	0.3210		40.8	20.0	104.0*	50.0
Chloromethane	Ave	0.2632	0.2865	0.1000	21.8	20.0	8.9	50.0
Vinyl chloride	Ave	0.3139	0.3240		20.6	20.0	3.2	20.0
Bromomethane	Ave	0.1774	0.2042		23.0	20.0	15.1	50.0
Chloroethane	Ave	0.1983	0.2144		21.6	20.0	8.1	50.0
Trichlorofluoromethane	Lin1		0.3242		23.3	20.0	16.5	50.0
Acrolein	Ave	0.0214	0.0274		256	200	28.1	50.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1933	0.2286		23.7	20.0	18.3	50.0
1,1-Dichloroethene	Ave	0.3664	0.3589		19.6	20.0	-2.0	20.0
Acetone	Lin1		0.0458		33.1	40.0	-17.3	50.0
Iodomethane	Ave	0.3632	0.4089		22.5	20.0	12.6	50.0
Carbon disulfide	Ave	0.7762	0.7522		19.4	20.0	-3.1	50.0
Acetonitrile	Lin1		0.0205		169	200	-15.4	50.0
Methyl acetate	Lin1		0.1113		31.5	40.0	-21.3	50.0
Methylene Chloride	Lin1		0.2682		17.9	20.0	-10.5	50.0
tert-Butyl alcohol	Lin1		0.0137		348	400	-13.0	50.0
Acrylonitrile	Lin1		0.0640		36.9	40.0	-7.8	50.0
Methyl tert-butyl ether	Ave	0.6154	0.5720		18.6	20.0	-7.1	50.0
trans-1,2-Dichloroethene	Ave	0.2849	0.2572		18.1	20.0	-9.7	50.0
Hexane	Ave	0.1765	0.1407		15.9	20.0	-20.3*	20.0
1,1-Dichloroethane	Ave	0.3611	0.3200	0.1000	17.7	20.0	-11.4	50.0
Vinyl acetate	Ave	0.0312	0.0375		24.0	20.0	20.2	50.0
2,2-Dichloropropane	Ave	0.1653	0.1453		17.6	20.0	-12.1	50.0
2-Butanone	Lin1		0.0210		38.5	40.0	-3.8	50.0
cis-1,2-Dichloroethene	Ave	0.3048	0.2694		17.7	20.0	-11.6	50.0
Bromochloromethane	Ave	0.1816	0.1445		15.9	20.0	-20.4	50.0
Tetrahydrofuran	Lin1		0.0389		15.2	20.0	-24.0	50.0
Chloroform	Ave	0.3503	0.3288		18.8	20.0	-6.1	20.0
1,1,1-Trichloroethane	Ave	0.2285	0.2371		20.8	20.0	3.8	50.0
Cyclohexane	Ave	0.2866	0.2395		16.7	20.0	-16.4	50.0
1,1-Dichloropropene	Ave	0.2617	0.2565		19.6	20.0	-2.0	50.0
Carbon tetrachloride	Ave	0.1673	0.1824		21.8	20.0	9.0	50.0
1,2-Dichloroethane	Ave	0.2543	0.2467		19.4	20.0	-3.0	50.0
Benzene	Ave	0.8969	0.8050		18.0	20.0	-10.2	50.0
Trichloroethene	Ave	0.2154	0.2273		21.1	20.0	5.5	50.0
Methylcyclohexane	Ave	0.1795	0.1451		16.2	20.0	-19.2	50.0
1,2-Dichloropropane	Ave	0.2093	0.1784		17.0	20.0	-14.8	20.0
1,4-Dioxane	Ave	0.0022	0.0022		1020	1000	1.7	50.0
Dibromomethane	Ave	0.1269	0.1400		22.1	20.0	10.3	50.0
Bromodichloromethane	Ave	0.2584	0.2338		18.1	20.0	-9.5	50.0

Tetra Tech **INTERNAL CORRESPONDENCE**

TO: **T. APANAVAGE** **DATE:** **April 5, 2012**

FROM: **MEGAN CARSON** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION- FILTERED METALS**
MARTIN STATE AIRPORT (MSA)
SDG 240-9383-1

SAMPLES: 40/Surface Water/

EL-SW01A-032012	EL-SW01B-032012	EL-SW01C-032012
EL-SW01D-032012	MSA-SW37A-032012	MSA-SW37B-032012
MSA-SW37C-032012	MSA-SW37D-032012	MSA-SW38A-032012
MSA-SW38B-032012	MSA-SW38C-032012	MSA-SW38D-032012
MSA-SW39A-032012	MSA-SW39B-032012	MSA-SW39C-032012
MSA-SW39D-032012	MSA-SW40A-032012	MSA-SW40B-032012
MSA-SW40C-032012	MSA-SW40D-032012	MSA-SW41A-032012
MSA-SW41B-032012	MSA-SW41C-032012	MSA-SW41D-032012
MSA-SW42A-032012	MSA-SW42B-032012	MSA-SW42C-032012
MSA-SW42D-032012	MSA-SW43A-032012	MSA-SW43B-032012
MSA-SW43C-032012	MSA-SW43D-032012	MSA-SW44A-032012
MSA-SW44B-032012	MSA-SW44C-032012	MSA-SW44D-032012
MSA-SW45A-032012	MSA-SW45B-032012	MSA-SW45C-032012
MSA-SW45D-032012		

Overview

The sample set for Martine State Airport, SDG 240-9383-1, consists of forty (40) surface water samples. This SDG contained no field duplicate pairs.

All samples were analyzed for filtered select metals. The samples were collected by Tetra Tech on March 20th, 2012 and analyzed by Test America. Metals analyses were conducted using SW-846 method 6020. Mercury analyses were conducted using method 7470A.

The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, ICP-tune, initial and continuing calibration verification results, laboratory method / preparation blank results, ICP internal standard recoveries, laboratory control sample recoveries, matrix spike recoveries, laboratory duplicate results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems-

- None.

Minor Problems-

- The following contaminants were detected in preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Nickel [1]	0.246 ug/L	1.23 ug/L
Zinc [1]	4.19 ug/L	20.9 ug/L
Antimony [2]	0.18 ug/L	0.9 ug/L
Antimony [3]	0.15 ug/L	0.75 ug/L
Cadmium [3]	0.18 ug/L	0.9 ug/L
Cobalt [3]	0.16 ug/L	0.8 ug/L
Molybdenum [3]	1.71 ug/L	8.5 ug/L
Thallium [3]	0.79 ug/L	3.9 ug/L
Tungsten [3]	0.93 ug/L	4.6 ugL

[1] Maximum concentration found in a preparation blank affecting samples in preparation batch 37532.
[2] Maximum concentration found in a preparation blank affecting samples in preparation batch 37540.
[3] Maximum concentration found in a calibration blank affecting all samples.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action level reported for were qualified "B" as a result of laboratory blank contamination.

- The CRDL standard analyzed on 3/22/12 had a percent recovery >110% for cadmium, lead, thallium, and silver. All samples were affected. The positive lead result for sample MSA-SW42C-032012 was qualified as estimated. No other validation action was warranted as sample results were either non-detected or qualified for blank contamination.

Notes

The CRDL standard analyzed on 3/22/12 had a percent recovery >120% for mercury. All samples were affected. No validation action was warranted as sample results were non-detected.

Executive Summary

Laboratory Performance: Preparation and calibration blank contamination resulted in the qualification of sample results. The CRDL standard non-compliances resulted in the qualification of a lead result.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to Region III modifications to the "National Functional Guidelines for Inorganic Data Validation", April 1993. The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech
Megan Carson
Chemist/Data Validator

Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A	=	Lab Blank Contamination
B	=	Field Blank Contamination
C	=	Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01	=	GC/MS Tuning Noncompliance
D	=	MS/MSD Recovery Noncompliance
E	=	LCS/LCSD Recovery Noncompliance
F	=	Lab Duplicate Imprecision
G	=	Field Duplicate Imprecision
H	=	Holding Time Exceedance
I	=	ICP Serial Dilution Noncompliance
J	=	ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K	=	ICP Interference - includes ICS % R Noncompliance
L	=	Instrument Calibration Range Exceedance
M	=	Sample Preservation Noncompliance
N	=	Internal Standard Noncompliance
N01	=	Internal Standard Recovery Noncompliance Dioxins
N02	=	Recovery Standard Noncompliance Dioxins
N03	=	Clean-up Standard Noncompliance Dioxins
O	=	Poor Instrument Performance (i.e., base-time drifting)
P	=	Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q	=	Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R	=	Surrogates Recovery Noncompliance
S	=	Pesticide/PCB Resolution
T	=	% Breakdown Noncompliance for DDT and Endrin
U	=	RPD between columns/detectors >40% for positive results determined via GC/HPLC
V	=	Non-linear calibrations; correlation coefficient $r < 0.995$
W	=	EMPC result
X	=	Signal to noise response drop
Y	=	Percent solids <30%
Z	=	Uncertainty at 2 sigma deviation is less than sample activity
Z1	=	Tentatively Identified Compound considered presumptively present
Z2	=	Tentatively Identified Compound column bleed

PROJ_NO: 04021	NSAMPLE	EL-SW01A-032012			EL-SW01B-032012			EL-SW01C-032012			EL-SW01D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-37			240-9383-38			240-9383-39			240-9383-40		
FRACTION: MF	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.23	B	A	0.24	B	A	0.27	B	A	0.25	B	A
ARSENIC		1.1	J	P	1.2	J	P	1.1	J	P	1.2	J	P
BARIUM		26			26			26			26		
BERYLLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
CADMIUM		0.19	B	A	0.22	B	A	0.2	B	A	0.21	B	A
CHROMIUM		0.71	U		0.71	U		0.71	U		0.71	U	
COBALT		0.1	B	A	0.11	B	A	0.096	B	A	0.097	B	A
COPPER		3.5			3.6			3.6			4		
LEAD		0.18	U		0.18	U		0.18	U		0.18	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		0.79	B	A	0.81	B	A	0.74	B	A	0.77	B	A
NICKEL		1.7	J	P	2.5			1.6	J	P	1.6	J	P
SELENIUM		0.57	U		0.57	U		0.57	U		0.57	U	
SILVER		0.08	U		0.08	U		0.08	U		0.08	U	
THALLIUM		0.16	B	A	0.14	U		0.14	U		0.14	U	
TUNGSTEN		0.37	U		0.37	U		0.37	U		0.37	U	
VANADIUM		0.44	U		0.49	J	P	0.59	J	P	0.44	U	
ZINC		8.9	J	P	9	J	P	9.1	J	P	11	J	P

PROJ_NO: 04021	NSAMPLE	MSA-SW37A-032012			MSA-SW37B-032012			MSA-SW37C-032012			MSA-SW37D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-1			240-9383-2			240-9383-3			240-9383-4		
FRACTION: MF	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.45	B	A	0.39	B	A	0.32	B	A	0.29	B	A
ARSENIC		1.3	J	P	1.3	J	P	1.3	J	P	1.2	J	P
BARIUM		25			25			25			25		
BERYLLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
CADMIUM		0.24	B	A	0.34	B	A	0.26	B	A	0.24	B	A
CHROMIUM		0.71	U		1	J	P	0.71	U		0.71	U	
COBALT		0.49	B	A	0.25	B	A	0.15	B	A	0.15	B	A
COPPER		3.4			3.7			3.5			3.6		
LEAD		0.18	U		0.18	U		0.18	U		0.18	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		1.4	B	A	1.5	B	A	0.98	B	A	0.8	B	A
NICKEL		1.6	J	P	2.7			1.8	J	P	1.7	J	P
SELENIUM		0.74	J	P	0.57	U		0.57	U		0.57	U	
SILVER		0.08	U		0.08	U		0.08	U		0.08	U	
THALLIUM		0.95	B	A	0.69	B	A	0.49	B	A	0.35	B	A
TUNGSTEN		0.86	B	A	0.68	B	A	0.42	B	A	0.37	U	
VANADIUM		0.44	U		0.44	U		0.51	J	P	0.44	U	
ZINC		11	B	A	12	B	A	10	B	A	12	B	A

PROJ_NO: 04021	NSAMPLE	MSA-SW38A-032012			MSA-SW38B-032012			MSA-SW38C-032012			MSA-SW38D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-5			240-9383-6			240-9383-7			240-9383-8		
FRACTION: MF	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.27	B	A	0.29	B	A	0.25	B	A	0.24	B	A
ARSENIC		1.3	J	P	1.1	J	P	1.3	J	P	1.3	J	P
BARIUM		25			27			25			26		
BERYLLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
CADMIUM		0.34	B	A	0.36	B	A	0.28	B	A	0.22	B	A
CHROMIUM		0.71	U		0.71	U		0.71	U		0.71	U	
COBALT		0.71	B	A	0.3	B	A	0.18	B	A	0.12	B	A
COPPER		3.5			3.4			3.3			3.4		
LEAD		0.18	U		0.18	U		0.18	U		0.18	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		0.86	B	A	0.75	B	A	0.73	B	A	0.78	B	A
NICKEL		2.3			1.9	J	P	1.8	J	P	1.7	J	P
SELENIUM		0.57	U		0.57	U		0.57	U		0.57	U	
SILVER		0.08	U		0.08	U		0.08	U		0.08	U	
THALLIUM		0.26	B	A	0.23	B	A	0.18	B	A	0.15	B	A
TUNGSTEN		0.37	U		0.37	U		0.37	U		0.37	U	
VANADIUM		0.47	J	P	0.44	U		0.44	U		0.44	U	
ZINC		21			9.7	B	A	14	B	A	11	B	A

PROJ_NO: 04021	NSAMPLE	MSA-SW39A-032012			MSA-SW39B-032012			MSA-SW39C-032012			MSA-SW39D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-9			240-9383-10			240-9383-11			240-9383-12		
FRACTION: MF	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.22	B	A	0.23	B	A	0.24	B	A	0.25	B	A
ARSENIC		1.1	J	P	1.2	J	P	1.2	J	P	0.98	J	P
BARIUM		26			25			25			25		
BERYLLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
CADMIUM		0.13	U		0.13	U		0.13	U		0.21	B	A
CHROMIUM		0.71	U		0.73	J	P	0.71	U		0.71	U	
COBALT		0.11	B	A	0.12	B	A	0.11	B	A	0.2	B	A
COPPER		2.7			3.4			2.7			3.3		
LEAD		0.18	U		0.18	U		0.18	U		0.18	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		0.72	B	A	0.83	B	A	0.89	B	A	0.72	B	A
NICKEL		1.4	J	P	2.2			1.4	J	P	1.7	J	P
SELENIUM		0.57	U		0.57	U		0.57	U		0.57	U	
SILVER		0.08	U		0.08	U		0.08	U		0.08	U	
THALLIUM		0.14	U		0.14	U		0.29	B	A	0.2	B	A
TUNGSTEN		0.37	U		0.37	U		0.37	U		0.37	U	
VANADIUM		0.44	U		0.44	U		0.44	U		0.44	U	
ZINC		4	B	A	7.8	B	A	12	B	A	10	B	A

PROJ_NO: 04021	NSAMPLE	MSA-SW40A-032012			MSA-SW40B-032012			MSA-SW40C-032012			MSA-SW40D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-13			240-9383-14			240-9383-15			240-9383-16		
FRACTION: MF	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.27	B	A	0.27	B	A	0.26	B	A	0.25	B	A
ARSENIC		1.2	J	P	1.1	J	P	1.3	J	P	1.2	J	P
BARIUM		26			26			26			26		
BERYLLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
CADMIUM		0.36	B	A	0.41	B	A	0.31	B	A	0.24	B	A
CHROMIUM		0.71	U		0.71	U		1.2	J	P	0.71	U	
COBALT		1			0.74	B	A	0.36	B	A	0.13	B	A
COPPER		3.3			3.2			3.2			3.3		
LEAD		0.18	U		0.18	U		0.18	U		0.18	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		0.76	B	A	0.78	B	A	0.66	B	A	0.75	B	A
NICKEL		2.1			2.1			2.1			1.7	J	P
SELENIUM		0.57	U		0.57	U		0.57	U		0.57	U	
SILVER		0.08	U		0.08	U		0.08	U		0.08	U	
THALLIUM		0.15	B	A	0.14	U		0.14	U		0.14	U	
TUNGSTEN		0.37	U		0.37	U		0.37	U		0.37	U	
VANADIUM		0.44	U		0.44	U		0.44	U		0.44	U	
ZINC		18	B	A	15	B	A	10	B	A	9.9	B	A

PROJ_NO: 04021	NSAMPLE	MSA-SW41A-032012			MSA-SW41B-032012			MSA-SW41C-032012			MSA-SW41D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-17			240-9383-18			240-9383-19			240-9383-20		
FRACTION: MF	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.26	B	A	0.26	B	A	0.23	B	A	0.25	B	A
ARSENIC		1.1	J	P	1	J	P	1.2	J	P	1.1	J	P
BARIUM		25			25			26			26		
BERYLLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
CADMIUM		0.41	B	A	0.3	B	A	0.27	B	A	0.26	B	A
CHROMIUM		0.71	U		0.71	U		0.71	U		0.71	U	
COBALT		2.6			0.35	B	A	0.3	B	A	0.13	B	A
COPPER		3.4			3.2			3.3			3.9		
LEAD		0.18	U		0.18	U		0.18	U		0.18	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		0.64	B	A	0.76	B	A	0.66	B	A	0.81	B	A
NICKEL		5			2			1.8	J	P	1.7	J	P
SELENIUM		0.57	U		0.57	U		0.57	U		0.57	U	
SILVER		0.08	U		0.08	U		0.08	U		0.08	U	
THALLIUM		0.14	U		0.14	U		0.14	U		0.14	U	
TUNGSTEN		0.37	U		0.37	U		0.37	U		0.37	U	
VANADIUM		0.44	U		0.48	J	P	0.44	U		0.45	J	P
ZINC		18	B	A	15	B	A	11	B	A	23		

PROJ_NO: 04021	NSAMPLE	MSA-SW42A-032012			MSA-SW42B-032012			MSA-SW42C-032012			MSA-SW42D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-21			240-9383-22			240-9383-23			240-9383-24		
FRACTION: MF	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.44	B	A	0.41	B	A	0.36	B	A	0.34	B	A
ARSENIC		1.5	J	P	1.3	J	P	1.5	J	P	1.4	J	P
BARIUM		25			25			25			26		
BERYLLIUM		0.37	J	P	0.23	J	P	0.2	U		0.2	U	
CADMIUM		0.28	B	A	0.42	B	A	0.46	B	A	0.28	B	A
CHROMIUM		0.71	U		0.71	U		0.71	U		0.71	U	
COBALT		0.31	B	A	0.48	B	A	0.31	B	A	0.21	B	A
COPPER		3.1			2.9			3.5			3.2		
LEAD		0.18	U		0.18	U		0.2	J	CP	0.18	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		1.7	B	A	2	B	A	1.1	B	A	0.93	B	A
NICKEL		1.7	J	P	1.8	J	P	1.9	J	P	1.7	J	P
SELENIUM		0.7	J	P	0.6	J	P	0.57	U		0.57	U	
SILVER		0.08	U		0.08	U		0.08	U		0.08	U	
THALLIUM		0.95	B	A	0.77	B	A	0.54	B	A	0.34	B	A
TUNGSTEN		1	B	A	1	B	A	0.51	B	A	0.37	U	
VANADIUM		0.44	U		0.44	U		0.44	U		0.45	J	P
ZINC		6.5	J	P	12	J	P	9.8	J	P	11	J	P

PROJ_NO: 04021	NSAMPLE	MSA-SW43A-032012			MSA-SW43B-032012			MSA-SW43C-032012			MSA-SW43D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-25			240-9383-26			240-9383-27			240-9383-28		
FRACTION: MF	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.29	B	A	0.29	B	A	0.31	B	A	0.29	B	A
ARSENIC		1.1	J	P	1.2	J	P	1.2	J	P	1.2	J	P
BARIUM		25			26			26			26		
BERYLLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
CADMIUM		0.37	B	A	0.31	B	A	0.33	B	A	0.26	B	A
CHROMIUM		0.71	U		0.71	U		0.71	U		0.71	U	
COBALT		2.1			0.39	B	A	0.22	B	A	0.19	B	A
COPPER		3.8			3			3.3			3.2		
LEAD		0.18	U		0.18	U		0.18	U		0.18	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		0.85	B	A	0.99	B	A	0.88	B	A	0.74	B	A
NICKEL		4.6			1.9	J	P	1.8	J	P	1.7	J	P
SELENIUM		0.57	U		0.57	U		0.57	U		0.57	U	
SILVER		0.08	U		0.08	U		0.08	U		0.08	U	
THALLIUM		0.26	B	A	0.32	B	A	0.24	B	A	0.17	B	A
TUNGSTEN		0.37	U		0.37	B	A	0.37	U		0.37	U	
VANADIUM		0.44	U		0.44	U		0.44	U		0.44	U	
ZINC		13	J	P	12	J	P	13	J	P	9.7	J	P

PROJ_NO: 04021	NSAMPLE	MSA-SW44A-032012			MSA-SW44B-032012			MSA-SW44C-032012			MSA-SW44D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-29			240-9383-30			240-9383-31			240-9383-32		
FRACTION: MF	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.24	B	A	0.25	B	A	0.27	B	A	0.26	B	A
ARSENIC		0.97	J	P	1.3	J	P	1.1	J	P	1.2	J	P
BARIUM		26			26			26			25		
BERYLLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
CADMIUM		0.36	B	A	0.25	B	A	0.25	B	A	0.26	B	A
CHROMIUM		0.71	U		0.71	U		0.71	U		0.71	U	
COBALT		3			0.25	B	A	0.18	B	A	0.19	B	A
COPPER		3.6			3.2			3.6			3.2		
LEAD		0.18	U		0.18	U		0.18	U		0.18	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		0.81	B	A	0.77	B	A	0.76	B	A	0.75	B	A
NICKEL		6.2			1.8	J	P	1.7	J	P	1.7	J	P
SELENIUM		0.57	U		0.57	U		0.57	U		0.57	U	
SILVER		0.08	U		0.08	U		0.08	U		0.08	U	
THALLIUM		0.14	B	A	0.14	U		0.14	U		0.14	U	
TUNGSTEN		0.37	U		0.37	U		0.37	U		0.37	U	
VANADIUM		0.44	U		0.44	U		0.44	U		0.54	J	P
ZINC		15	J	P	11	J	P	11	J	P	7.6	J	P

PROJ_NO: 04021	NSAMPLE	MSA-SW45A-032012			MSA-SW45B-032012			MSA-SW45C-032012			MSA-SW45D-032012		
SDG: 240-9383-1	LAB_ID	240-9383-33			240-9383-34			240-9383-35			240-9383-36		
FRACTION: MF	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.24	B	A	0.25	B	A	0.25	B	A	0.24	B	A
ARSENIC		1.3	J	P	1.1	J	P	1.1	J	P	1	J	P
BARIUM		25			25			25			26		
BERYLLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
CADMIUM		0.22	B	A	0.22	B	A	0.16	B	A	0.13	B	A
CHROMIUM		0.71	U		0.71	U		0.71	U		0.71	U	
COBALT		0.2	B	A	0.2	B	A	0.083	B	A	0.093	B	A
COPPER		3.3			3.4			3			3.1		
LEAD		0.18	U		0.18	U		0.18	U		0.18	U	
MERCURY		0.12	U		0.12	U		0.12	U		0.12	U	
MOLYBDENUM		0.78	B	A	0.74	B	A	0.75	B	A	0.87	B	A
NICKEL		1.8	J	P	1.8	J	P	1.5	J	P	1.5	J	P
SELENIUM		0.57	U		0.57	U		0.57	U		0.57	U	
SILVER		0.08	U		0.08	U		0.08	U		0.08	U	
THALLIUM		0.14	U		0.14	U		0.14	U		0.23	B	A
TUNGSTEN		0.37	U		0.37	U		0.37	U		0.37	U	
VANADIUM		0.46	J	P	0.44	U		0.44	U		0.44	U	
ZINC		6.2	J	P	8.3	J	P	6.5	J	P	7.3	J	P

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **EL-SW01A-032012**

Lab Sample ID: 240-9383-37
Client Matrix: Water

Date Sampled: 03/20/2012 1116
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0932			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.23	J B	0.13	2.0
Arsenic	1.1	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.19	J	0.13	1.0
Cobalt	0.10	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.5		0.29	2.0
Molybdenum	0.79	J B	0.093	10
Nickel	1.7	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.16	J B	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	8.9	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1112			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **EL-SW01B-032012**

Lab Sample ID: 240-9383-38
Client Matrix: Water

Date Sampled: 03/20/2012 1126
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0938			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.24	J B	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.22	J	0.13	1.0
Cobalt	0.11	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.6		0.29	2.0
Molybdenum	0.81	J B	0.093	10
Nickel	2.5		0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	0.49	J	0.44	20
Tungsten	10	U	0.37	10
Zinc	9.0	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1114			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **EL-SW01C-032012**

Lab Sample ID: 240-9383-39
Client Matrix: Water

Date Sampled: 03/20/2012 1132
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0943			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.27	J B	0.13	2.0
Arsenic	1.1	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.20	J	0.13	1.0
Cobalt	0.096	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.6		0.29	2.0
Molybdenum	0.74	J B	0.093	10
Nickel	1.6	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	0.59	J	0.44	20
Tungsten	10	U	0.37	10
Zinc	9.1	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1116			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **EL-SW01D-032012**

Lab Sample ID: 240-9383-40
Client Matrix: Water

Date Sampled: 03/20/2012 1139
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0948			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.25	J B	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.21	J	0.13	1.0
Cobalt	0.097	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	4.0		0.29	2.0
Molybdenum	0.77	J B	0.093	10
Nickel	1.6	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	11	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1119			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW37A-032012**

Lab Sample ID: 240-9383-1
Client Matrix: Water

Date Sampled: 03/20/2012 1505
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1044			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.45	J	0.13	2.0
Arsenic	1.3	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.24	J	0.13	1.0
Cobalt	0.49	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.4		0.29	2.0
Molybdenum	1.4	J	0.093	10
Nickel	1.6	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	0.74	J	0.57	5.0
Thallium	0.95	J	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	0.86	J	0.37	10
Zinc	11	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 0930			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW37B-032012**

Lab Sample ID: 240-9383-2
Client Matrix: Water

Date Sampled: 03/20/2012 1509
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1007			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.39	J	0.13	2.0
Arsenic	1.3	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.34	J	0.13	1.0
Cobalt	0.25	J	0.058	1.0
Chromium	1.0	J	0.71	2.0
Copper	3.7		0.29	2.0
Molybdenum	1.5	J	0.093	10
Nickel	2.7	B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.69	J	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	0.68	J	0.37	10
Zinc	12	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 0936			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW37C-032012**

Lab Sample ID: 240-9383-3
Client Matrix: Water

Date Sampled: 03/20/2012 1512
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1050			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.32	J	0.13	2.0
Arsenic	1.3	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.26	J	0.13	1.0
Cobalt	0.15	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.5		0.29	2.0
Molybdenum	0.98	J	0.093	10
Nickel	1.8	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.49	J	0.14	2.0
Vanadium	0.51	J	0.44	20
Tungsten	0.42	J	0.37	10
Zinc	10	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 0938			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW37D-032012**

Lab Sample ID: 240-9383-4
Client Matrix: Water

Date Sampled: 03/20/2012 1515
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1055			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.29	J	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.24	J	0.13	1.0
Cobalt	0.15	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.6		0.29	2.0
Molybdenum	0.80	J	0.093	10
Nickel	1.7	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.35	J	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	12	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 0940			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW38A-032012**

Lab Sample ID: 240-9383-5
Client Matrix: Water

Date Sampled: 03/20/2012 1400
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1100			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.27	J	0.13	2.0
Arsenic	1.3	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.34	J	0.13	1.0
Cobalt	0.71	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.5		0.29	2.0
Molybdenum	0.86	J	0.093	10
Nickel	2.3	B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.26	J	0.14	2.0
Vanadium	0.47	J	0.44	20
Tungsten	10	U	0.37	10
Zinc	21	B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 0942			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW38B-032012**

Lab Sample ID: 240-9383-6
Client Matrix: Water

Date Sampled: 03/20/2012 1405
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1106			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.29	J	0.13	2.0
Arsenic	1.1	J	0.40	5.0
Barium	27		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.36	J	0.13	1.0
Cobalt	0.30	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.4		0.29	2.0
Molybdenum	0.75	J	0.093	10
Nickel	1.9	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.23	J	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	9.7	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 0944			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW38C-032012**

Lab Sample ID: 240-9383-7
Client Matrix: Water

Date Sampled: 03/20/2012 1410
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1111			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.25	J	0.13	2.0
Arsenic	1.3	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.28	J	0.13	1.0
Cobalt	0.18	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.3		0.29	2.0
Molybdenum	0.73	J	0.093	10
Nickel	1.8	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.18	J	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	14	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 0950			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW38D-032012**

Lab Sample ID: 240-9383-8
Client Matrix: Water

Date Sampled: 03/20/2012 1416
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1117			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.24	J	0.13	2.0
Arsenic	1.3	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.22	J	0.13	1.0
Cobalt	0.12	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.4		0.29	2.0
Molybdenum	0.78	J	0.093	10
Nickel	1.7	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.15	J	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	11	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 0952			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW39A-032012**

Lab Sample ID: 240-9383-9
Client Matrix: Water

Date Sampled: 03/20/2012 1146
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1122			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.22	J	0.13	2.0
Arsenic	1.1	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	1.0	U	0.13	1.0
Cobalt	0.11	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	2.7		0.29	2.0
Molybdenum	0.72	J	0.093	10
Nickel	1.4	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	4.0	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 0955			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW39B-032012**

Lab Sample ID: 240-9383-10
Client Matrix: Water

Date Sampled: 03/20/2012 1155
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1128			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.23	J	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	1.0	U	0.13	1.0
Cobalt	0.12	J	0.058	1.0
Chromium	0.73	J	0.71	2.0
Copper	3.4		0.29	2.0
Molybdenum	0.83	J	0.093	10
Nickel	2.2	B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	7.8	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 0957			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW39C-032012**

Lab Sample ID: 240-9383-11
Client Matrix: Water

Date Sampled: 03/20/2012 1159
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1146			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.24	J	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	1.0	U	0.13	1.0
Cobalt	0.11	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	2.7		0.29	2.0
Molybdenum	0.89	J	0.093	10
Nickel	1.4	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.29	J	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	12	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 0958			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW39D-032012**

Lab Sample ID: 240-9383-12
Client Matrix: Water

Date Sampled: 03/20/2012 1204
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1151			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.25	J	0.13	2.0
Arsenic	0.98	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.21	J	0.13	1.0
Cobalt	0.20	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.3		0.29	2.0
Molybdenum	0.72	J	0.093	10
Nickel	1.7	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.20	J	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	10	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1000			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW40A-032012**

Lab Sample ID: 240-9383-13
Client Matrix: Water

Date Sampled: 03/20/2012 1420
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1156			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.27	J	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.36	J	0.13	1.0
Cobalt	1.0		0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.3		0.29	2.0
Molybdenum	0.76	J	0.093	10
Nickel	2.1	B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.15	J	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	18	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1002			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW40B-032012**

Lab Sample ID: 240-9383-14
Client Matrix: Water

Date Sampled: 03/20/2012 1430
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1202			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.27	J	0.13	2.0
Arsenic	1.1	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.41	J	0.13	1.0
Cobalt	0.74	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.2		0.29	2.0
Molybdenum	0.78	J	0.093	10
Nickel	2.1	B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	15	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1004			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW40C-032012**

Lab Sample ID: 240-9383-15
Client Matrix: Water

Date Sampled: 03/20/2012 1434
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1207			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.26	J	0.13	2.0
Arsenic	1.3	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.31	J	0.13	1.0
Cobalt	0.36	J	0.058	1.0
Chromium	1.2	J	0.71	2.0
Copper	3.2		0.29	2.0
Molybdenum	0.66	J	0.093	10
Nickel	2.1	B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	10	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1006			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW40D-032012**

Lab Sample ID: 240-9383-16
Client Matrix: Water

Date Sampled: 03/20/2012 1438
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1213			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.25	J	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.24	J	0.13	1.0
Cobalt	0.13	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.3		0.29	2.0
Molybdenum	0.75	J	0.093	10
Nickel	1.7	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	9.9	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1008			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW41A-032012**

Lab Sample ID: 240-9383-17
Client Matrix: Water

Date Sampled: 03/20/2012 1343
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1218			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.26	J	0.13	2.0
Arsenic	1.1	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.41	J	0.13	1.0
Cobalt	2.6		0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.4		0.29	2.0
Molybdenum	0.64	J	0.093	10
Nickel	5.0	B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	18	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1014			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW41B-032012**

Lab Sample ID: 240-9383-18
Client Matrix: Water

Date Sampled: 03/20/2012 1347
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1223			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.26	J	0.13	2.0
Arsenic	1.0	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.30	J	0.13	1.0
Cobalt	0.35	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.2		0.29	2.0
Molybdenum	0.76	J	0.093	10
Nickel	2.0	B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	0.48	J	0.44	20
Tungsten	10	U	0.37	10
Zinc	15	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1016			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW41C-032012**

Lab Sample ID: 240-9383-19
Client Matrix: Water

Date Sampled: 03/20/2012 1352
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1229			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.23	J	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.27	J	0.13	1.0
Cobalt	0.30	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.3		0.29	2.0
Molybdenum	0.66	J	0.093	10
Nickel	1.8	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	11	J B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1018			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW41D-032012**

Lab Sample ID: 240-9383-20
Client Matrix: Water

Date Sampled: 03/20/2012 1355
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37532	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 1234			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.25	J	0.13	2.0
Arsenic	1.1	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.26	J	0.13	1.0
Cobalt	0.13	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.9		0.29	2.0
Molybdenum	0.81	J	0.093	10
Nickel	1.7	J B	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	0.45	J	0.44	20
Tungsten	10	U	0.37	10
Zinc	23	B	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37533	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1020			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW42A-032012**

Lab Sample ID: 240-9383-21
Client Matrix: Water

Date Sampled: 03/20/2012 1443
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0746			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.44	J B	0.13	2.0
Arsenic	1.5	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	0.37	J	0.20	1.0
Cadmium	0.28	J	0.13	1.0
Cobalt	0.31	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.1		0.29	2.0
Molybdenum	1.7	J B	0.093	10
Nickel	1.7	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	0.70	J	0.57	5.0
Thallium	0.95	J B	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	1.0	J B	0.37	10
Zinc	6.5	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1032			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW42B-032012**

Lab Sample ID: 240-9383-22
Client Matrix: Water

Date Sampled: 03/20/2012 1449
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0721			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.41	J B	0.13	2.0
Arsenic	1.3	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	0.23	J	0.20	1.0
Cadmium	0.42	J	0.13	1.0
Cobalt	0.48	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	2.9		0.29	2.0
Molybdenum	2.0	J B	0.093	10
Nickel	1.8	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	0.60	J	0.57	5.0
Thallium	0.77	J B	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	1.0	J B	0.37	10
Zinc	12	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1040			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW42C-032012**

Lab Sample ID: 240-9383-23
Client Matrix: Water

Date Sampled: 03/20/2012 1454
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0752			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.36	J B	0.13	2.0
Arsenic	1.5	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.46	J	0.13	1.0
Cobalt	0.31	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.5		0.29	2.0
Molybdenum	1.1	J B	0.093	10
Nickel	1.9	J	0.20	2.0
Lead	0.20	J	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.54	J B	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	0.51	J B	0.37	10
Zinc	9.8	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1026			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW42D-032012**

Lab Sample ID: 240-9383-24
Client Matrix: Water

Date Sampled: 03/20/2012 1500
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0757			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.34	J B	0.13	2.0
Arsenic	1.4	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.28	J	0.13	1.0
Cobalt	0.21	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.2		0.29	2.0
Molybdenum	0.93	J B	0.093	10
Nickel	1.7	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.34	J B	0.14	2.0
Vanadium	0.45	J	0.44	20
Tungsten	10	U	0.37	10
Zinc	11	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1042			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW43A-032012**

Lab Sample ID: 240-9383-25
Client Matrix: Water

Date Sampled: 03/20/2012 1251
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0803			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.29	J B	0.13	2.0
Arsenic	1.1	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.37	J	0.13	1.0
Cobalt	2.1		0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.8		0.29	2.0
Molybdenum	0.85	J B	0.093	10
Nickel	4.6		0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.26	J B	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	13	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1044			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW43B-032012**

Lab Sample ID: 240-9383-26
Client Matrix: Water

Date Sampled: 03/20/2012 1256
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0821			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.29	J B	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.31	J	0.13	1.0
Cobalt	0.39	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.0		0.29	2.0
Molybdenum	0.99	J B	0.093	10
Nickel	1.9	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.32	J B	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	0.37	J B	0.37	10
Zinc	12	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1046			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW43C-032012**

Lab Sample ID: 240-9383-27
Client Matrix: Water

Date Sampled: 03/20/2012 1300
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0826			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.31	J B	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.33	J	0.13	1.0
Cobalt	0.22	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.3		0.29	2.0
Molybdenum	0.88	J B	0.093	10
Nickel	1.8	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.24	J B	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	13	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1048			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW43D-032012**

Lab Sample ID: 240-9383-28
Client Matrix: Water

Date Sampled: 03/20/2012 1304
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0831			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.29	J B	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.26	J	0.13	1.0
Cobalt	0.19	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.2		0.29	2.0
Molybdenum	0.74	J B	0.093	10
Nickel	1.7	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.17	J B	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	9.7	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1050			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW44A-032012**

Lab Sample ID: 240-9383-29
Client Matrix: Water

Date Sampled: 03/20/2012 1230
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0837			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.24	J B	0.13	2.0
Arsenic	0.97	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.36	J	0.13	1.0
Cobalt	3.0		0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.6		0.29	2.0
Molybdenum	0.81	J B	0.093	10
Nickel	6.2		0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.14	J B	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	15	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1052			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW44B-032012**

Lab Sample ID: 240-9383-30
Client Matrix: Water

Date Sampled: 03/20/2012 1236
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0842			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.25	J B	0.13	2.0
Arsenic	1.3	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.25	J	0.13	1.0
Cobalt	0.25	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.2		0.29	2.0
Molybdenum	0.77	J B	0.093	10
Nickel	1.8	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	11	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1054			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW44C-032012**

Lab Sample ID: 240-9383-31
Client Matrix: Water

Date Sampled: 03/20/2012 1240
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0848			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.27	J B	0.13	2.0
Arsenic	1.1	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.25	J	0.13	1.0
Cobalt	0.18	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.6		0.29	2.0
Molybdenum	0.76	J B	0.093	10
Nickel	1.7	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	11	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1056			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW44D-032012**

Lab Sample ID: 240-9383-32
Client Matrix: Water

Date Sampled: 03/20/2012 1245
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0853			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.26	J B	0.13	2.0
Arsenic	1.2	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.26	J	0.13	1.0
Cobalt	0.19	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.2		0.29	2.0
Molybdenum	0.75	J B	0.093	10
Nickel	1.7	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	0.54	J	0.44	20
Tungsten	10	U	0.37	10
Zinc	7.6	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1058			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW45A-032012**

Lab Sample ID: 240-9383-33
Client Matrix: Water

Date Sampled: 03/20/2012 1210
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0858			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.24	J B	0.13	2.0
Arsenic	1.3	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.22	J	0.13	1.0
Cobalt	0.20	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.3		0.29	2.0
Molybdenum	0.78	J B	0.093	10
Nickel	1.8	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	0.46	J	0.44	20
Tungsten	10	U	0.37	10
Zinc	6.2	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1104			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW45B-032012**

Lab Sample ID: 240-9383-34
Client Matrix: Water

Date Sampled: 03/20/2012 1215
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0904			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.25	J B	0.13	2.0
Arsenic	1.1	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.22	J	0.13	1.0
Cobalt	0.20	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.4		0.29	2.0
Molybdenum	0.74	J B	0.093	10
Nickel	1.8	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	8.3	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1106			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW45C-032012**

Lab Sample ID: 240-9383-35
Client Matrix: Water

Date Sampled: 03/20/2012 1219
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0909			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.25	J B	0.13	2.0
Arsenic	1.1	J	0.40	5.0
Barium	25		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.16	J	0.13	1.0
Cobalt	0.083	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.0		0.29	2.0
Molybdenum	0.75	J B	0.093	10
Nickel	1.5	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	2.0	U	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	6.5	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1108			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Client Sample ID: **MSA-SW45D-032012**

Lab Sample ID: 240-9383-36
Client Matrix: Water

Date Sampled: 03/20/2012 1224
Date Received: 03/21/2012 1000

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	240-37742	Instrument ID:	I8
Prep Method:	3005A	Prep Batch:	240-37540	Lab File ID:	I8032212A.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/22/2012 0927			Final Weight/Volume:	50 mL
Prep Date:	03/21/2012 1333				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.24	J B	0.13	2.0
Arsenic	1.0	J	0.40	5.0
Barium	26		0.19	5.0
Beryllium	1.0	U	0.20	1.0
Cadmium	0.13	J	0.13	1.0
Cobalt	0.093	J	0.058	1.0
Chromium	2.0	U	0.71	2.0
Copper	3.1		0.29	2.0
Molybdenum	0.87	J B	0.093	10
Nickel	1.5	J	0.20	2.0
Lead	1.0	U	0.18	1.0
Selenium	5.0	U	0.57	5.0
Thallium	0.23	J B	0.14	2.0
Vanadium	20	U	0.44	20
Tungsten	10	U	0.37	10
Zinc	7.3	J	2.3	20
Silver	1.0	U	0.080	1.0

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-37693	Instrument ID:	H4
Prep Method:	7470A	Prep Batch:	240-37542	Lab File ID:	032212C-HG4.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/22/2012 1110			Final Weight/Volume:	100 mL
Prep Date:	03/21/2012 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG 240-9383-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HGF	UG/L	EL-SW01A-032012	240-9383-37	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW41B-032012	240-9383-18	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW41C-032012	240-9383-19	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW41D-032012	240-9383-20	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW42A-032012	240-9383-21	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW42B-032012	240-9383-22	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW42C-032012	240-9383-23	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW42D-032012	240-9383-24	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW41A-032012	240-9383-17	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW43C-032012	240-9383-27	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW43B-032012	240-9383-26	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW44A-032012	240-9383-29	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW44B-032012	240-9383-30	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW44C-032012	240-9383-31	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW44D-032012	240-9383-32	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HGF	UG/L	MSA-SW45A-032012	240-9383-33	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW45B-032012	240-9383-34	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW45C-032012	240-9383-35	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW45D-032012	240-9383-36	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW43A-032012	240-9383-25	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW37D-032012	240-9383-4	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW43D-032012	240-9383-28	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW40D-032012	240-9383-16	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	EL-SW01C-032012	240-9383-39	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	EL-SW01D-032012	240-9383-40	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW37A-032012	240-9383-1	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW37C-032012	240-9383-3	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	EL-SW01B-032012	240-9383-38	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW38A-032012	240-9383-5	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW38B-032012	240-9383-6	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW40A-032012	240-9383-13	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW40C-032012	240-9383-15	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW37B-032012	240-9383-2	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HGF	UG/L	MSA-SW40B-032012	240-9383-14	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW38C-032012	240-9383-7	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW39D-032012	240-9383-12	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW39C-032012	240-9383-11	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW39B-032012	240-9383-10	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW39A-032012	240-9383-9	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
HGF	UG/L	MSA-SW38D-032012	240-9383-8	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW38C-032012	240-9383-7	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW40C-032012	240-9383-15	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW40A-032012	240-9383-13	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW39D-032012	240-9383-12	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW39C-032012	240-9383-11	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW39B-032012	240-9383-10	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW39A-032012	240-9383-9	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW38D-032012	240-9383-8	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW40B-032012	240-9383-14	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW38B-032012	240-9383-6	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW38A-032012	240-9383-5	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
MF	UG/L	MSA-SW37D-032012	240-9383-4	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW37C-032012	240-9383-3	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW37B-032012	240-9383-2	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW37A-032012	240-9383-1	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	EL-SW01D-032012	240-9383-40	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	EL-SW01C-032012	240-9383-39	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	EL-SW01A-032012	240-9383-37	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW41B-032012	240-9383-18	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	EL-SW01B-032012	240-9383-38	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW44B-032012	240-9383-30	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW40D-032012	240-9383-16	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW45C-032012	240-9383-35	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW45B-032012	240-9383-34	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW45A-032012	240-9383-33	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW41A-032012	240-9383-17	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW44C-032012	240-9383-31	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW45D-032012	240-9383-36	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW44A-032012	240-9383-29	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
MF	UG/L	MSA-SW43D-032012	240-9383-28	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW41C-032012	240-9383-19	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW43B-032012	240-9383-26	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW43A-032012	240-9383-25	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW42D-032012	240-9383-24	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW42C-032012	240-9383-23	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW42B-032012	240-9383-22	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW42A-032012	240-9383-21	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW41D-032012	240-9383-20	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW43C-032012	240-9383-27	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
MF	UG/L	MSA-SW44D-032012	240-9383-32	NM	3/20/2012	3/21/2012	3/22/2012	1	1	2
OV	UG/L	MSA-SW43B-032012	240-9383-26	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW41C-032012	240-9383-19	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW43A-032012	240-9383-25	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW42D-032012	240-9383-24	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW42C-032012	240-9383-23	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW42B-032012	240-9383-22	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
OV	UG/L	MSA-SW41D-032012	240-9383-20	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	1 of 4 COCs
20251 Century Blvd, Suite 200	**Analysis Turnaround Time**			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below 3DAY			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler:
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
MSA-SW37A-032012	3/20/2012	1505	SW	Water	4	x	x	x	
MSA-SW37B-032012	3/20/2012	1509	SW	Water	4	x	x	x	
MSA-SW37C-032012	3/20/2012	1512	SW	Water	4	x	x	x	
MSA-SW37D-032012	3/20/2012	1515	SW	Water	4	x	x	x	
MSA-SW38A-032012	3/20/2012	1400	SW	Water	4	x	x	x	
MSA-SW38B-032012	3/20/2012	1405	SW	Water	4	x	x	x	
MSA-SW38C-032012	3/20/2012	1410	SW	Water	4	x	x	x	
MSA-SW38D-032012	3/20/2012	1416	SW	Water	4	x	x	x	
MSA-SW39A-032012	3/20/2012	1146	SW	Water	4	x	x	x	
MSA-SW39B-032012	3/20/2012	1155	SW	Water	4	x	x	x	
MSA-SW39C-032012	3/20/2012	1159	SW	Water	4	x	x	x	
MSA-SW39D-032012	3/20/2012	1204	SW	Water	4	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS NEED TO BE FILTERED IN THE LAB**

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Walt Pa	TT INC	3-20-12/1800		TAINC	3/21/12 10:00am
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Page 1301 of 1307
3/22/2012

North Canton
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	2 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below 3 DAY			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler:
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
MSA-SW40A-032012	3/20/2012	1420	SW	Water	4	x	x	x	
MSA-SW40B-032012	3/20/2012	1430	SW	Water	4	x	x	x	
MSA-SW40C-032012	3/20/2012	1434	SW	Water	4	x	x	x	
MSA-SW40D-032012	3/20/2012	1438	SW	Water	4	x	x	x	
MSA-SW41A-032012	3/20/2012	1343	SW	Water	4	x	x	x	
MSA-SW41B-032012	3/20/2012	1347	SW	Water	4	x	x	x	
MSA-SW41C-032012	3/20/2012	1352	SW	Water	4	x	x	x	
MSA-SW41D-032012	3/20/2012	1355	SW	Water	4	x	x	x	
MSA-SW42A-032012	3/20/2012	1443	SW	Water	4	x	x	x	
MSA-SW42B-032012	3/20/2012	1449	SW	Water	4	x	x	x	
MSA-SW42C-032012	3/20/2012	1454	SW	Water	4	x	x	x	
MSA-SW42D-032012	3/20/2012	1500	SW	Water	4	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS NEED TO BE FILTERED IN THE LAB**

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TT [illegible] INC	3-20-12 / 1800	[signature]	TT NC	3/21/12 10:00am
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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North Canton, OH 44720
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	3 of 4 COCs
20251 Century Blvd, Suite 200	**Analysis Turnaround Time**			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below 3 DAY			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler:
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
MSA-SW43A-032012	3/20/2012	1251	SW	Water	4	x	x	x	
MSA-SW43B-032012	3/20/2012	1256	SW	Water	4	x	x	x	
MSA-SW43C-032012	3/20/2012	1300	SW	Water	4	x	x	x	
MSA-SW43D-032012	3/20/2012	1304	SW	Water	4	x	x	x	
MSA-SW44A-032012	3/20/2012	1230	SW	Water	4	x	x	x	
MSA-SW44B-032012	3/20/2012	1236	SW	Water	4	x	x	x	
MSA-SW44C-032012	3/20/2012	1240	SW	Water	4	x	x	x	
MSA-SW44D-032012	3/20/2012	1245	SW	Water	4	x	x	x	
MSA-SW45A-032012	3/20/2012	1210	SW	Water	4	x	x	x	
MSA-SW45B-032012	3/20/2012	1215	SW	Water	4	x	x	x	
MSA-SW45C-032012	3/20/2012	1219	SW	Water	4	x	x	x	
MSA-SW45D-032012	3/20/2012	1224	SW	Water	4	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS NEED TO BE FILTERED IN THE LAB**

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TT INC	3-20-12 1500		TTINC	3/21/12 10:00am
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Date: 3/20/12	COC No:
Tera Tech	Tel/Fax: 301-233-8230 (cell)	Lab Contact: Pat Omeara	Carrier: Fedex	4 of 4 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No. 112IC04021
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below 3 DAY			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler:
Site: MSA Frog Mortar Creek	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Sample Specific Notes:
EL-SW01A-032012	3/20/2012	1116	SW	Water	4	x	x	x	
EL-SW01B-032012	3/20/2012	1126	SW	Water	4	x	x	x	
EL-SW01C-032012	3/20/2012	1132	SW	Water	4	x	x	x	
EL-SW01D-032012	3/20/2012	1139	SW	Water	4	x	x	x	
TB-032012	3/20/2012	—	SW	Water	3		x		
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					
	3/20/2012		SW	Water					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **DISSOLVED METALS NEED TO BE FILTERED IN THE LAB**

3 DAY TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TT INC	3-20-12 1656		TA NC	3/21/12 10:00am
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

3/22/2012

CASE NARRATIVE

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Project: MSA Frog Mortar Creek

Report Number: 240-9383-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

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

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

RECEIPT

The samples were received on 03/21/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.8, 3.6 and 4.8C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MSA-SW37A-032012 (240-9383-1), MSA-SW37B-032012 (240-9383-2), MSA-SW37C-032012 (240-9383-3), MSA-SW37D-032012 (240-9383-4), MSA-SW38A-032012 (240-9383-5), MSA-SW38B-032012 (240-9383-6), MSA-SW38C-032012 (240-9383-7), MSA-SW38D-032012 (240-9383-8), MSA-SW39A-032012 (240-9383-9), MSA-SW39B-032012 (240-9383-10), MSA-SW39C-032012 (240-9383-11), MSA-SW39D-032012 (240-9383-12), MSA-SW40A-032012 (240-9383-13), MSA-SW40B-032012 (240-9383-14), MSA-SW40C-032012 (240-9383-15), MSA-SW40D-032012 (240-9383-16), MSA-SW41A-032012 (240-9383-17), MSA-SW41B-032012 (240-9383-18), MSA-SW41C-032012 (240-9383-19), MSA-SW41D-032012 (240-9383-20), MSA-SW42A-032012 (240-9383-21), MSA-SW42B-032012 (240-9383-22), MSA-SW42C-032012 (240-9383-23), MSA-SW42D-032012 (240-9383-24), MSA-SW43A-032012 (240-9383-25), MSA-SW43B-032012 (240-9383-26), MSA-SW43C-032012 (240-9383-27), MSA-SW43D-032012 (240-9383-28), MSA-SW44A-032012 (240-9383-29), MSA-SW44B-032012 (240-9383-30), MSA-SW44C-032012 (240-9383-31), MSA-SW44D-032012 (240-9383-32), MSA-SW45A-032012 (240-9383-33), MSA-SW45B-032012 (240-9383-34), MSA-SW45C-032012 (240-9383-35), MSA-SW45D-032012 (240-9383-36), EL-SW01A-032012 (240-9383-37), EL-SW01B-032012 (240-9383-38), EL-SW01C-032012 (240-9383-39), EL-SW01D-032012 (240-9383-40) and TB-032012 (240-9383-41) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/22/2012 and 03/23/2012.

Hexachlorobutadiene was detected in method blank MB 240-37611/6 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 "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Methylene Chloride was detected in method blank MB 240-37654/6 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 "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-37839/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above

the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample MSA-SW40B-032012MS/MSD (240-9383-14) in batch 240-37654. 2-Hexanone failed the recovery criteria high.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample MSA-SW37A-032012MS/MSD (240-9383-1) in batch 240-37611.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS/MSD of sample MSA-SW43D-032012MS/MSD (240-9383-28) in batch 240-37839.

Refer to the QC report for details.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Samples MSA-SW37A-032012 (240-9383-1), MSA-SW37B-032012 (240-9383-2), MSA-SW37C-032012 (240-9383-3), MSA-SW37D-032012 (240-9383-4), MSA-SW38A-032012 (240-9383-5), MSA-SW38B-032012 (240-9383-6), MSA-SW38C-032012 (240-9383-7), MSA-SW38D-032012 (240-9383-8), MSA-SW39A-032012 (240-9383-9), MSA-SW39B-032012 (240-9383-10), MSA-SW39C-032012 (240-9383-11), MSA-SW39D-032012 (240-9383-12), MSA-SW40A-032012 (240-9383-13), MSA-SW40B-032012 (240-9383-14), MSA-SW40C-032012 (240-9383-15), MSA-SW40D-032012 (240-9383-16), MSA-SW41A-032012 (240-9383-17), MSA-SW41B-032012 (240-9383-18), MSA-SW41C-032012 (240-9383-19), MSA-SW41D-032012 (240-9383-20), MSA-SW42A-032012 (240-9383-21), MSA-SW42B-032012 (240-9383-22), MSA-SW42C-032012 (240-9383-23), MSA-SW42D-032012 (240-9383-24), MSA-SW43A-032012 (240-9383-25), MSA-SW43B-032012 (240-9383-26), MSA-SW43C-032012 (240-9383-27), MSA-SW43D-032012 (240-9383-28), MSA-SW44A-032012 (240-9383-29), MSA-SW44B-032012 (240-9383-30), MSA-SW44C-032012 (240-9383-31), MSA-SW44D-032012 (240-9383-32), MSA-SW45A-032012 (240-9383-33), MSA-SW45B-032012 (240-9383-34), MSA-SW45C-032012 (240-9383-35), MSA-SW45D-032012 (240-9383-36), EL-SW01A-032012 (240-9383-37), EL-SW01B-032012 (240-9383-38), EL-SW01C-032012 (240-9383-39) and EL-SW01D-032012 (240-9383-40) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/21/2012 and analyzed on 03/22/2012.

Nickel and Zinc were detected in method blank MB 240-37512/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Several analytes were detected in method blank MB 240-37534/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Refer to the QC report for details.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)

Samples MSA-SW37A-032012 (240-9383-1), MSA-SW37B-032012 (240-9383-2), MSA-SW37C-032012 (240-9383-3), MSA-SW37D-032012 (240-9383-4), MSA-SW38A-032012 (240-9383-5), MSA-SW38B-032012 (240-9383-6), MSA-SW38C-032012 (240-9383-7), MSA-SW38D-032012 (240-9383-8), MSA-SW39A-032012 (240-9383-9), MSA-SW39B-032012 (240-9383-10), MSA-SW39C-032012 (240-9383-11), MSA-SW39D-032012 (240-9383-12), MSA-SW40A-032012 (240-9383-13), MSA-SW40B-032012 (240-9383-14), MSA-SW40C-032012 (240-9383-15), MSA-SW40D-032012 (240-9383-16), MSA-SW41A-032012 (240-9383-17), MSA-SW41B-032012 (240-9383-18), MSA-SW41C-032012 (240-9383-19), MSA-SW41D-032012 (240-9383-20), MSA-SW42A-032012 (240-9383-21), MSA-SW42B-032012 (240-9383-22), MSA-SW42C-032012 (240-9383-23), MSA-SW42D-032012 (240-9383-24), MSA-SW43A-032012 (240-9383-25), MSA-SW43B-032012 (240-9383-26), MSA-SW43C-032012 (240-9383-27), MSA-SW43D-032012 (240-9383-28), MSA-SW44A-032012 (240-9383-29), MSA-SW44B-032012 (240-9383-30), MSA-SW44C-032012 (240-9383-31), MSA-SW44D-032012 (240-9383-32), MSA-SW45A-032012 (240-9383-33), MSA-SW45B-032012 (240-9383-34), MSA-SW45C-032012 (240-9383-35), MSA-SW45D-032012 (240-9383-36), EL-SW01A-032012 (240-9383-37), EL-SW01B-032012 (240-9383-38), EL-SW01C-032012 (240-9383-39) and EL-SW01D-032012 (240-9383-40) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 03/21/2012 and analyzed on 03/22/2012.

No difficulties were encountered during the mercury analyses. All quality control parameters were within the acceptance limits.

MSA-SW38B-032012

240-9383-d-6-b, 3/22/2012 11:06:28 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B
		ppb	ppb	ppb
x		81.606%	0.025	138.900
%RSD		3.649	23.480	0.984
Run	Time	23Na	25Mg	27Al
		ppb	ppb	ppb
x		TM 359000.000	46550.000	12.550
%RSD		TM 0.794	0.998	5.444
Run	Time	35Cl	39K	43Ca
		ppb	ppb	ppb
x		T 0.000	T 14230.000	35450.000
%RSD		T 0.000	T 0.839	0.603
Run	Time	45Sc	45Sc	47Ti
		ppb	ppb	ppb
x		T 100.792%	103.821%	0.349
%RSD		T 2.173	0.511	0.488
Run	Time	51V	52Cr	[illegible]
		ppb	ppb	[illegible]
x		0.139	0.186	7.952
%RSD		270.900	14.420	9.193
Run	Time	55Mn	56Fe	59Co
		ppb	ppb	ppb
x		17.570	36.940	0.298
%RSD		0.344	2.580	5.727
Run	Time	60Ni	65Cu	66Zn
		ppb	ppb	ppb
x		1.872	3.375	9.676
%RSD		6.035	6.103	1.448
Run	Time	72Ge	75As	[illegible]
		ppb	ppb	[illegible]
x		96.666%	1.090	0.149
%RSD		0.984	17.080	51.190
Run	Time	78Se	88Sr	95Mo
		ppb	ppb	ppb
x		0.249	M 332.200	0.753
%RSD		55.800	M 0.445	1.902
Run	Time	105Pd	107Ag	[illegible]
		ppb	ppb	[illegible]
x		0.000	0.002	-0.960
%RSD		0.000	255.900	254.700
Run	Time	111Cd	115In	118Sn
		ppb	ppb	ppb
x		0.357	97.767%	0.100
%RSD		7.257	0.165	29.100
Run	Time	121Sb	137Ba	159Tb
		ppb	ppb	ppb
x		0.290	26.510	0.000
%RSD		9.153	0.779	0.000
Run	Time	165Ho	182W	205Tl
		ppb	ppb	ppb
x		99.325%	0.167	0.225
%RSD		0.843	6.385	5.105
Run	Time	208Pb	209Bi	
		ppb	ppb	
x		0.082	0.000	
%RSD		3.255	0.000	

reported as 27ug/L

TestAmerica North Canton Sample Receipt Form/Narrative Login # : 9383

Client Tetra Tech Site Name _____ By: _____ (Signature)

Cooler Received on 3/21/12 Opened on 3/21/12

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

TestAmerica Cooler # _____ Foam Box Client Cooler (Multiple on Back) 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# 1	(CF -2°C)	Sample Temp_____°C	Corrected Temp_____°C
IR GUN# 4G	(CF -1°C)	Sample Temp_____°C	Corrected Temp_____°C
IR GUN# 5G	(CF -1°C)	Sample Temp_____°C	Corrected Temp_____°C
IR GUN# 6Y	(CF -2°C)	Sample Temp_____°C	Corrected Temp_____°C

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

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

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

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 Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Tetra Tech, Inc formerly Tetra Tech NUS

Job Number: 240-9383-1

Login Number: 9383
List Number: 1
Creator: Maddux, Ann

List Source: TestAmerica North Canton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6, 1.8, 3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica North Canton Job Number: 240-9383-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020 MDL Date: 02/09/2010 15:53

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Antimony	121.00	2	0.13
Arsenic	75.00	5	0.4
Barium	137.00	5	0.19
Beryllium	9.00	1	0.2
Cadmium	111.00	1	0.13
Chromium	52.00	2	0.71
Cobalt	59.00	1	0.058
Copper	65.00	2	0.29
Lead	208.00	1	0.18
Molybdenum	95.00	10	0.093
Nickel	60.00	2	0.2
Selenium	78.00	5	0.57
Silver	107.00	1	0.08
Thallium	205.00	2	0.14
Tungsten	182.00	10	0.37
Vanadium	51.00	20	0.44
Zinc	66.00	20	2.3

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica North Canton Job Number: 240-9383-1

SDG Number:

Matrix: Water Instrument ID: I8

Method: 6020 XMDL Date: 02/09/2010 15:53

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony	121.00	2	0.13
Arsenic	75.00	5	0.4
Barium	137.00	5	0.19
Beryllium	9.00	1	0.2
Cadmium	111.00	1	0.13
Chromium	52.00	2	0.71
Cobalt	59.00	1	0.058
Copper	65.00	2	0.29
Lead	208.00	1	0.18
Molybdenum	95.00	10	0.093
Nickel	60.00	2	0.2
Selenium	78.00	5	0.57
Silver	107.00	1	0.08
Thallium	205.00	2	0.14
Tungsten	182.00	10	0.37
Vanadium	51.00	20	0.44
Zinc	66.00	20	2.3

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica North Canton Job Number: 240-9383-1

SDG Number:

Matrix: Water Instrument ID: H4

Method: 7470A MDL Date: 02/08/2010 16:06

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury	253.7	0.2	0.12

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica North Canton Job Number: 240-9383-1

SDG Number:

Matrix: Water Instrument ID: H4

Method: 7470A XMDL Date: 02/08/2010 16:06

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.12

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica North Canton Job No: 240-9383-1

SDG No.:

Instrument ID: I8 Date: 07/05/2011 09:44

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Antimony		1000	6020
Arsenic		10000	6020
Barium		10000	6020
Beryllium		10000	6020
Cadmium		10000	6020
Cobalt		10000	6020
Chromium		10000	6020
Copper		10000	6020
Molybdenum		2000	6020
Nickel		10000	6020
Lead		10000	6020
Selenium		10000	6020
Thallium		10000	6020
Vanadium		10000	6020
Tungsten		2000	6020
Zinc		10000	6020
Silver		1000	6020

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica North Canton Job No: 240-9383-1

SDG No.:

Instrument ID: H4 Date: 04/01/2011 10:50

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-37512/1-C	03/21/2012 16:15	37533		100	100
LCS 240-37533/2-A	03/21/2012 16:15	37533		100	100
240-9383-1	03/21/2012 16:15	37533		100	100
240-9383-1 MS	03/21/2012 16:15	37533		100	100
240-9383-1 MSD	03/21/2012 16:15	37533		100	100
240-9383-2	03/21/2012 16:15	37533		100	100
240-9383-3	03/21/2012 16:15	37533		100	100
240-9383-4	03/21/2012 16:15	37533		100	100
240-9383-5	03/21/2012 16:15	37533		100	100
240-9383-6	03/21/2012 16:15	37533		100	100
240-9383-7	03/21/2012 16:15	37533		100	100
240-9383-8	03/21/2012 16:15	37533		100	100
240-9383-9	03/21/2012 16:15	37533		100	100
240-9383-10	03/21/2012 16:15	37533		100	100
240-9383-11	03/21/2012 16:15	37533		100	100
240-9383-12	03/21/2012 16:15	37533		100	100
240-9383-13	03/21/2012 16:15	37533		100	100
240-9383-14	03/21/2012 16:15	37533		100	100
240-9383-15	03/21/2012 16:15	37533		100	100
240-9383-16	03/21/2012 16:15	37533		100	100
240-9383-17	03/21/2012 16:15	37533		100	100
240-9383-18	03/21/2012 16:15	37533		100	100
240-9383-19	03/21/2012 16:15	37533		100	100
240-9383-20	03/21/2012 16:15	37533		100	100

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-37512/1-C

Instrument Code: H4 Batch No.: 37693

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470A

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MSA-SW37A-032012 MS Lab ID: 240-9383-1 MS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.979		0.20	U	1.00	98	69-134		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MSA-SW37A-032012 MSD Lab ID: 240-9383-1 MSD

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.944	1.00	94	69-134	4	20		7470A

SDR = Sample Duplicate Result

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

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-37533/2-A

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

Sample Matrix: Water LCS Source: MTHGICVW_00254

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.53		91	81	123		7470A

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

FORM VIIA - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-37534/1-C	03/21/2012 16:15	37542		100	100
LCS 240-37542/2-A	03/21/2012 16:15	37542		100	100
240-9383-23	03/21/2012 16:15	37542		100	100
240-9383-23 MS	03/21/2012 16:15	37542		100	100
240-9383-23 MSD	03/21/2012 16:15	37542		100	100
240-9383-21	03/21/2012 16:15	37542		100	100
240-9383-22	03/21/2012 16:15	37542		100	100
240-9383-24	03/21/2012 16:15	37542		100	100
240-9383-25	03/21/2012 16:15	37542		100	100
240-9383-26	03/21/2012 16:15	37542		100	100
240-9383-27	03/21/2012 16:15	37542		100	100
240-9383-28	03/21/2012 16:15	37542		100	100
240-9383-29	03/21/2012 16:15	37542		100	100
240-9383-30	03/21/2012 16:15	37542		100	100
240-9383-31	03/21/2012 16:15	37542		100	100
240-9383-32	03/21/2012 16:15	37542		100	100
240-9383-33	03/21/2012 16:15	37542		100	100
240-9383-34	03/21/2012 16:15	37542		100	100
240-9383-35	03/21/2012 16:15	37542		100	100
240-9383-36	03/21/2012 16:15	37542		100	100
240-9383-37	03/21/2012 16:15	37542		100	100
240-9383-38	03/21/2012 16:15	37542		100	100
240-9383-39	03/21/2012 16:15	37542		100	100
240-9383-40	03/21/2012 16:15	37542		100	100

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-37534/1-C

Instrument Code: H4 Batch No.: 37693

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470A

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MSA-SW42C-032012 MS
Lab ID: 240-9383-23 MS
Lab Name: TestAmerica North Canton
Job No.: 240-9383-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	1.04		0.20	U	1.00	104	69-134		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MSA-SW42C-032012 MSD
Lab ID: 240-9383-23 MSD
Lab Name: TestAmerica North Canton
Job No.: 240-9383-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.991		1.00	99	69-134	4	20		7470A

SDR = Sample Duplicate Result

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

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-37542/2-A

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

Sample Matrix: Water LCS Source: MTHGICVW_00254

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.79		96	81	123		7470A

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

FORM VIIA - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-37512/1-B	03/21/2012 13:07	37532		50	50
LCS 240-37532/2-A	03/21/2012 13:07	37532		50	50
240-9383-2	03/21/2012 13:07	37532		50	50
240-9383-2 MS	03/21/2012 13:07	37532		50	50
240-9383-2 MSD	03/21/2012 13:07	37532		50	50
240-9383-1	03/21/2012 13:07	37532		50	50
240-9383-3	03/21/2012 13:07	37532		50	50
240-9383-4	03/21/2012 13:07	37532		50	50
240-9383-5	03/21/2012 13:07	37532		50	50
240-9383-6	03/21/2012 13:07	37532		50	50
240-9383-7	03/21/2012 13:07	37532		50	50
240-9383-8	03/21/2012 13:07	37532		50	50
240-9383-9	03/21/2012 13:07	37532		50	50
240-9383-10	03/21/2012 13:07	37532		50	50
240-9383-11	03/21/2012 13:07	37532		50	50
240-9383-12	03/21/2012 13:07	37532		50	50
240-9383-13	03/21/2012 13:07	37532		50	50
240-9383-14	03/21/2012 13:07	37532		50	50
240-9383-15	03/21/2012 13:07	37532		50	50
240-9383-16	03/21/2012 13:07	37532		50	50
240-9383-17	03/21/2012 13:07	37532		50	50
240-9383-18	03/21/2012 13:07	37532		50	50
240-9383-19	03/21/2012 13:07	37532		50	50
240-9383-20	03/21/2012 13:07	37532		50	50

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-37512/1-B

Instrument Code: I8 Batch No.: 37742

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	2.0	U		6020
7440-38-2	Arsenic	5.0	U		6020
7440-39-3	Barium	5.0	U		6020
7440-41-7	Beryllium	1.0	U		6020
7440-43-9	Cadmium	1.0	U		6020
7440-48-4	Cobalt	1.0	U		6020
7440-47-3	Chromium	2.0	U		6020
7440-50-8	Copper	2.0	U		6020
7439-98-7	Molybdenum	10	U		6020
7440-02-0	Nickel	0.246	J		6020
7439-92-1	Lead	1.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-28-0	Thallium	2.0	U		6020
7440-62-2	Vanadium	20	U		6020
7440-33-7	Tungsten	10	U		6020
7440-66-6	Zinc	4.19	J		6020
7440-22-4	Silver	1.0	U		6020

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MSA-SW37B-032012 MS
Lab ID: 240-9383-2 MS
Lab Name: TestAmerica North Canton
Job No.: 240-9383-1
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
Antimony	94.0		0.39	J	100	94	44-153		6020
Arsenic	945		1.3	J	1000	94	82-123		6020
Barium	1000		25		1000	98	45-144		6020
Beryllium	976		1.0	U	1000	98	77-124		6020
Cadmium	932		0.34	J	1000	93	78-117		6020
Cobalt	950		0.25	J	1000	95	67-114		6020
Chromium	961		1.0	J	1000	96	72-110		6020
Copper	942		3.7		1000	94	60-123		6020
Molybdenum	102		1.5	J	100	101	80-110		6020
Nickel	927		2.7		1000	92	72-111		6020
Lead	949		1.0	U	1000	95	73-115		6020
Selenium	911		5.0	U	1000	91	72-148		6020
Thallium	244		0.69	J	250	97	69-117		6020
Vanadium	968		20	U	1000	97	70-112		6020
Tungsten	94.4		0.68	J	100	94	43-133		6020
Zinc	945		12	J	1000	93	49-156		6020
Silver	93.0		1.0	U	100	93	10-139		6020

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MSA-SW37B-032012 MSD
Lab ID: 240-9383-2 MSD
Lab Name: TestAmerica North Canton
Job No.: 240-9383-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	96.4		100	96	44-153	2	20		6020
Arsenic	966		1000	96	82-123	2	20		6020
Barium	1020		1000	99	45-144	2	20		6020
Beryllium	985		1000	98	77-124	1	20		6020
Cadmium	938		1000	94	78-117	1	20		6020
Cobalt	977		1000	98	67-114	3	20		6020
Chromium	988		1000	99	72-110	3	20		6020
Copper	970		1000	97	60-123	3	20		6020
Molybdenum	104		100	103	80-110	2	20		6020
Nickel	959		1000	96	72-111	3	20		6020
Lead	973		1000	97	73-115	2	20		6020
Selenium	938		1000	94	72-148	3	20		6020
Thallium	254		250	101	69-117	4	20		6020
Vanadium	998		1000	100	70-112	3	20		6020
Tungsten	98.7		100	98	43-133	4	20		6020
Zinc	964		1000	95	49-156	2	20		6020
Silver	93.3		100	93	10-139	0	20		6020

SDR = Sample Duplicate Result

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

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-37532/2-A

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

Sample Matrix: Water LCS Source: MTICPMSB_00006

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	100	98.5		98	80	120		6020
Arsenic	1000	998		100	80	120		6020
Barium	1000	1010		101	80	120		6020
Beryllium	1000	1130		113	80	120		6020
Cadmium	1000	1030		103	80	120		6020
Cobalt	1000	1030		103	80	120		6020
Chromium	1000	1020		102	80	120		6020
Copper	1000	1070		107	80	120		6020
Molybdenum	100	102		102	80	120		6020
Nickel	1000	1050		105	80	120		6020
Lead	1000	1070		107	80	120		6020
Selenium	1000	998		100	80	120		6020
Thallium	250	270		108	80	120		6020
Vanadium	1000	1000		100	80	120		6020
Tungsten	100	96.9		97	80	120		6020
Zinc	1000	1060		106	80	120		6020
Silver	100	104		104	80	120		6020

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 240-9383-2

SDG No:

Lab Name: TestAmerica North Canton Job No: 240-9383-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.39	J	0.675	J	NC		6020
Arsenic	1.3	J	3.74	J	NC		6020
Barium	25		25.3		NC		6020
Beryllium	1.0	U	5.0	U	NC		6020
Cadmium	0.34	J	1.17	J	NC		6020
Cobalt	0.25	J	1.14	J	NC		6020
Chromium	1.0	J	10	U	NC		6020
Copper	3.7		5.11	J	NC		6020
Molybdenum	1.5	J	1.50	J	NC		6020
Nickel	2.7		3.56	J	NC		6020
Lead	1.0	U	1.15	J	NC		6020
Selenium	5.0	U	25	U	NC		6020
Thallium	0.69	J	1.83	J	NC		6020
Vanadium	20	U	100	U	NC		6020
Tungsten	0.68	J	50	U	NC		6020
Zinc	12	J	17.1	J	NC		6020
Silver	1.0	U	5.0	U	NC		6020

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

FORM VIII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-37534/1-B	03/21/2012 13:33	37540		50	50
LCS 240-37540/2-A	03/21/2012 13:33	37540		50	50
240-9383-22	03/21/2012 13:33	37540		50	50
240-9383-22 MS	03/21/2012 13:33	37540		50	50
240-9383-22 MSD	03/21/2012 13:33	37540		50	50
240-9383-21	03/21/2012 13:33	37540		50	50
240-9383-23	03/21/2012 13:33	37540		50	50
240-9383-24	03/21/2012 13:33	37540		50	50
240-9383-25	03/21/2012 13:33	37540		50	50
240-9383-26	03/21/2012 13:33	37540		50	50
240-9383-27	03/21/2012 13:33	37540		50	50
240-9383-28	03/21/2012 13:33	37540		50	50
240-9383-29	03/21/2012 13:33	37540		50	50
240-9383-30	03/21/2012 13:33	37540		50	50
240-9383-31	03/21/2012 13:33	37540		50	50
240-9383-32	03/21/2012 13:33	37540		50	50
240-9383-33	03/21/2012 13:33	37540		50	50
240-9383-34	03/21/2012 13:33	37540		50	50
240-9383-35	03/21/2012 13:33	37540		50	50
240-9383-36	03/21/2012 13:33	37540		50	50
240-9383-37	03/21/2012 13:33	37540		50	50
240-9383-38	03/21/2012 13:33	37540		50	50
240-9383-39	03/21/2012 13:33	37540		50	50
240-9383-40	03/21/2012 13:33	37540		50	50

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-37534/1-B

Instrument Code: I8 Batch No.: 37742

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.185	J		6020
7440-38-2	Arsenic	5.0	U		6020
7440-39-3	Barium	5.0	U		6020
7440-41-7	Beryllium	1.0	U		6020
7440-43-9	Cadmium	1.0	U		6020
7440-48-4	Cobalt	1.0	U		6020
7440-47-3	Chromium	2.0	U		6020
7440-50-8	Copper	2.0	U		6020
7439-98-7	Molybdenum	0.863	J		6020
7440-02-0	Nickel	2.0	U		6020
7439-92-1	Lead	1.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-28-0	Thallium	0.319	J		6020
7440-62-2	Vanadium	20	U		6020
7440-33-7	Tungsten	0.429	J		6020
7440-66-6	Zinc	20	U		6020
7440-22-4	Silver	1.0	U		6020

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MSA-SW42B-032012 MS
Lab ID: 240-9383-22 MS
Lab Name: TestAmerica North Canton
Job No.: 240-9383-1
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
Antimony	102		0.41	J	100	102	44-153		6020
Arsenic	1000		1.3	J	1000	100	82-123		6020
Barium	1070		25		1000	105	45-144		6020
Beryllium	1020		0.23	J	1000	102	77-124		6020
Cadmium	988		0.42	J	1000	99	78-117		6020
Cobalt	1010		0.48	J	1000	100	67-114		6020
Chromium	1010		2.0	U	1000	101	72-110		6020
Copper	999		2.9		1000	100	60-123		6020
Molybdenum	109		2.0	J	100	107	80-110		6020
Nickel	992		1.8	J	1000	99	72-111		6020
Lead	1010		1.0	U	1000	101	73-115		6020
Selenium	978		0.60	J	1000	98	72-148		6020
Thallium	252		0.77	J	250	100	69-117		6020
Vanadium	1020		20	U	1000	102	70-112		6020
Tungsten	102		1.0	J	100	101	43-133		6020
Zinc	1000		12	J	1000	99	49-156		6020
Silver	98.1		1.0	U	100	98	10-139		6020

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MSA-SW42B-032012 MSD
Lab ID: 240-9383-22 MSD
Lab Name: TestAmerica North Canton
Job No.: 240-9383-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	103		100	102	44-153	0	20		6020
Arsenic	1000		1000	100	82-123	0	20		6020
Barium	1060		1000	104	45-144	1	20		6020
Beryllium	1010		1000	101	77-124	1	20		6020
Cadmium	993		1000	99	78-117	1	20		6020
Cobalt	995		1000	99	67-114	1	20		6020
Chromium	1010		1000	101	72-110	0	20		6020
Copper	993		1000	99	60-123	1	20		6020
Molybdenum	108		100	106	80-110	0	20		6020
Nickel	982		1000	98	72-111	1	20		6020
Lead	994		1000	99	73-115	2	20		6020
Selenium	975		1000	97	72-148	0	20		6020
Thallium	249		250	99	69-117	1	20		6020
Vanadium	1020		1000	102	70-112	0	20		6020
Tungsten	102		100	101	43-133	1	20		6020
Zinc	988		1000	98	49-156	1	20		6020
Silver	97.8		100	98	10-139	0	20		6020

SDR = Sample Duplicate Result

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

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-37540/2-A

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

Sample Matrix: Water LCS Source: MTICPMSB_00006

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	100	102		102	80	120		6020
Arsenic	1000	1020		102	80	120		6020
Barium	1000	1010		101	80	120		6020
Beryllium	1000	1130		113	80	120		6020
Cadmium	1000	1050		105	80	120		6020
Cobalt	1000	1020		102	80	120		6020
Chromium	1000	1000		100	80	120		6020
Copper	1000	1070		107	80	120		6020
Molybdenum	100	102		102	80	120		6020
Nickel	1000	1050		105	80	120		6020
Lead	1000	1060		106	80	120		6020
Selenium	1000	1040		104	80	120		6020
Thallium	250	257		103	80	120		6020
Vanadium	1000	988		99	80	120		6020
Tungsten	100	97.9		98	80	120		6020
Zinc	1000	1080		108	80	120		6020
Silver	100	108		108	80	120		6020

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 240-9383-22

SDG No:

Lab Name: TestAmerica North Canton Job No: 240-9383-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.41	J	0.745	J	NC		6020
Arsenic	1.3	J	2.91	J	NC		6020
Barium	25		26.0		NC		6020
Beryllium	0.23	J	5.0	U	NC		6020
Cadmium	0.42	J	1.32	J	NC		6020
Cobalt	0.48	J	1.15	J	NC		6020
Chromium	2.0	U	10	U	NC		6020
Copper	2.9		4.18	J	NC		6020
Molybdenum	2.0	J	3.08	J	NC		6020
Nickel	1.8	J	2.48	J	NC		6020
Lead	1.0	U	0.965	J	NC		6020
Selenium	0.60	J	25	U	NC		6020
Thallium	0.77	J	2.09	J	NC		6020
Vanadium	20	U	100	U	NC		6020
Tungsten	1.0	J	2.04	J	NC		6020
Zinc	12	J	40.0	J	NC		6020
Silver	1.0	U	5.0	U	NC		6020

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

FORM VIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 03/22/2012 05:49 End Date: 03/23/2012 02:55

Lab Sample ID	D/F	Type	Time	Analytes																		
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn			
ICIS 240-37742/1			05:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD2 240-37742/2 IC	1		05:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD3 240-37742/3 IC	1		06:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD4 240-37742/4 IC	1		06:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICV 240-37742/5	1		06:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICB 240-37742/6	1		06:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CRI 240-37742/7	1		06:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICSA 240-37742/8	1		06:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICSAB 240-37742/9	1		06:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 240-37742/10			06:44																				
CCB 240-37742/11			06:51																				
CCV 240-37742/12	1		06:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 240-37742/13	1		07:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
MB 240-37534/1-B	1	D	07:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCS 240-37540/2-A	1	R	07:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-22	1	D	07:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-22 SD	5	D	07:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-22 MS	1	D	07:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-22 MSD	1	D	07:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-21	1	D	07:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-23	1	D	07:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-24	1	D	07:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-25	1	D	08:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 240-37742/24	1		08:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 240-37742/25	1		08:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-26	1	D	08:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-27	1	D	08:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-28	1	D	08:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-29	1	D	08:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-30	1	D	08:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-31	1	D	08:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-32	1	D	08:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-33	1	D	08:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-34	1	D	09:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-35	1	D	09:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 240-37742/36	1		09:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 240-37742/37	1		09:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-36	1	D	09:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-37	1	D	09:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-38	1	D	09:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-39	1	D	09:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-9383-40	1	D	09:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 03/22/2012 05:49 End Date: 03/23/2012 02:55

Lab Sample ID	D/F	Type	Time	Analytes																		
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn		
MB 240-37512/1-B	1	D	09:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LCS 240-37532/2-A	1	R	09:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-2	1	D	10:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-2 SD	5	D	10:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-2 MS	1	D	10:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV 240-37742/48	1		10:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB 240-37742/49	1		10:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-2 MSD	1	D	10:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-1	1	D	10:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-3	1	D	10:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-4	1	D	10:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-5	1	D	11:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-6	1	D	11:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-7	1	D	11:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-8	1	D	11:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-9	1	D	11:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-10	1	D	11:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV 240-37742/60	1		11:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB 240-37742/61	1		11:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-11	1	D	11:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-12	1	D	11:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-13	1	D	11:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-14	1	D	12:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-15	1	D	12:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-16	1	D	12:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-17	1	D	12:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-18	1	D	12:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-19	1	D	12:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
240-9383-20	1	D	12:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV 240-37742/72	1		12:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB 240-37742/73	1		12:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ			12:52																			
ZZZZZZ			12:58																			
ZZZZZZ			13:03																			
ZZZZZZ			13:10																			
ZZZZZZ			13:16																			
ZZZZZZ			13:21																			
ZZZZZZ			13:28																			
ZZZZZZ			13:34																			
ZZZZZZ			13:39																			
ZZZZZZ			13:46																			
CCV 240-37742/84			13:53																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 03/22/2012 05:49 End Date: 03/23/2012 02:55

Lab Sample ID	D/F	Type	Time	Analytes																				
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn			
CCB 240-37742/85			14:00																					
ZZZZZZ			14:06																					
ZZZZZZ			14:11																					
ZZZZZZ			14:18																					
ZZZZZZ			14:26																					
ZZZZZZ			14:32																					
ZZZZZZ			14:39																					
ZZZZZZ			14:47																					
ZZZZZZ			14:54																					
ZZZZZZ			14:59																					
ZZZZZZ			15:04																					
CCV 240-37742/96			15:10																					
CCB 240-37742/97			15:17																					
ZZZZZZ			15:23																					
ZZZZZZ			15:28																					
ZZZZZZ			15:33																					
ZZZZZZ			15:39																					
ZZZZZZ			15:44																					
ZZZZZZ			15:50																					
ZZZZZZ			15:55																					
ZZZZZZ			16:01																					
ZZZZZZ			16:06																					
ZZZZZZ			16:11																					
CCV 240-37742/108			16:17																					
CCB 240-37742/109			16:24																					
ZZZZZZ			16:29																					
ZZZZZZ			16:35																					
ZZZZZZ			16:42																					
ZZZZZZ			16:47																					
ZZZZZZ			16:53																					
ZZZZZZ			17:00																					
ZZZZZZ			17:07																					
ZZZZZZ			17:13																					
ZZZZZZ			17:18																					
ZZZZZZ			17:24																					
CCV 240-37742/120			17:29																					
CCB 240-37742/121			17:36																					
ICSA 240-37742/122			17:41																					
ICSAB 240-37742/123			17:47																					
CCV 240-37742/124			17:54																					
CCB 240-37742/125			18:01																					
ZZZZZZ			18:07																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 03/22/2012 05:49 End Date: 03/23/2012 02:55

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn			
ZZZZZZ			18:12																				
ZZZZZZ			18:18																				
ZZZZZZ			18:23																				
ZZZZZZ			18:28																				
ZZZZZZ			18:34																				
ZZZZZZ			18:39																				
ZZZZZZ			18:45																				
ZZZZZZ			18:50																				
ZZZZZZ			18:55																				
CCV 240-37742/136			19:01																				
CCB 240-37742/137			19:08																				
ZZZZZZ			19:14																				
ZZZZZZ			19:19																				
ZZZZZZ			19:24																				
ZZZZZZ			19:30																				
ZZZZZZ			19:35																				
ZZZZZZ			19:42																				
ZZZZZZ			19:48																				
ZZZZZZ			19:53																				
ZZZZZZ			20:00																				
ZZZZZZ			20:08																				
CCV 240-37742/148			20:14																				
CCB 240-37742/149			20:21																				
ZZZZZZ			20:26																				
ZZZZZZ			20:32																				
ZZZZZZ			20:37																				
ZZZZZZ			20:43																				
ZZZZZZ			20:48																				
ZZZZZZ			20:54																				
ZZZZZZ			20:59																				
ZZZZZZ			21:04																				
ZZZZZZ			21:10																				
ZZZZZZ			21:15																				
CCV 240-37742/160			21:21																				
CCB 240-37742/161			21:28																				
ZZZZZZ			21:34																				
ZZZZZZ			21:39																				
ZZZZZZ			21:46																				
ZZZZZZ			21:52																				
ZZZZZZ			21:57																				
ZZZZZZ			22:04																				
ZZZZZZ			22:12																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 03/22/2012 05:49 End Date: 03/23/2012 02:55

Lab Sample ID	D/F	Type	Time	Analytes																				
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn			
ZZZZZZ			22:17																				
ZZZZZZ			22:22																				
ZZZZZZ			22:28																				
CCV 240-37742/172			22:33																				
CCB 240-37742/173			22:40																				
ZZZZZZ			22:46																				
ZZZZZZ			22:51																				
ZZZZZZ			22:57																				
ZZZZZZ			23:02																				
ZZZZZZ			23:09																				
ZZZZZZ			23:17																				
ZZZZZZ			23:22																				
ZZZZZZ			23:28																				
ZZZZZZ			23:33																				
ZZZZZZ			23:39																				
CCV 240-37742/184			23:44																				
CCB 240-37742/185			23:51																				
ZZZZZZ			23:57																				
ZZZZZZ			00:02																				
ZZZZZZ			00:09																				
ZZZZZZ			00:17																				
ZZZZZZ			00:22																				
ZZZZZZ			00:28																				
ZZZZZZ			00:33																				
ZZZZZZ			00:39																				
ZZZZZZ			00:46																				
ZZZZZZ			00:51																				
CCV 240-37742/196			00:57																				
CCB 240-37742/197			01:04																				
ZZZZZZ			01:10																				
ZZZZZZ			01:17																				
ZZZZZZ			01:24																				
ZZZZZZ			01:30																				
ZZZZZZ			01:35																				
ZZZZZZ			01:40																				
ZZZZZZ			01:46																				
ZZZZZZ			01:51																				
ZZZZZZ			01:57																				
ZZZZZZ			02:02																				
CCV 240-37742/208			02:08																				
CCB 240-37742/209			02:15																				
ZZZZZZ			02:20																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Instrument ID: I8 Method: 6020

Start Date: 03/22/2012 05:49 End Date: 03/23/2012 02:55

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn			
ZZZZZZ			02:26																					
ZZZZZZ			02:31																					
ZZZZZZ			02:37																					
ZZZZZZ			02:43																					
CCV 240-37742/215			02:48																					
CCB 240-37742/216			02:55																					

Prep Types

D = Dissolved

R = Total Recoverable

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

ICV Source: MTMSICVW_00013 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00036

Analyte	ICV 240-37742/5 03/22/2012 06:13				CCV 240-37742/12 03/22/2012 06:56				CCV 240-37742/24 03/22/2012 08:08			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	83.8		80.0	105	98.7		100	99	102		100	102
Arsenic	81.1		80.0	101	99.3		100	99	98.6		100	99
Barium	80.0		80.0	100	97.1		100	97	97.7		100	98
Beryllium	82.2		80.0	103	103		100	103	104		100	104
Cadmium	81.0		80.0	101	99.1		100	99	101		100	101
Chromium	80.4		80.0	101	97.9		100	98	98.3		100	98
Cobalt	81.1		80.0	101	99.8		100	100	99.6		100	100
Copper	83.2		80.0	104	102		100	102	100		100	100
Lead	81.4		80.0	102	101		100	101	100		100	100
Molybdenum	85.7		80.0	107	105		100	105	103		100	103
Nickel	82.1		80.0	103	101		100	101	100		100	100
Selenium	82.2		80.0	103	99.9		100	100	101		100	101
Silver	83.1		80.0	104	101		100	101	102		100	102
Thallium	80.1		80.0	100	98.7		100	99	98.3		100	98
Tungsten	80.2		80.0	100	99.6		100	100	99.7		100	100
Vanadium	79.2		80.0	99	98.0		100	98	98.3		100	98
Zinc	84.6		80.0	106	101		100	101	101		100	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 North Canton Job No.: 240-9383-1

SDG No.:

ICV Source: MTMSICVW_00013 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00036

Analyte	CCV 240-37742/36 03/22/2012 09:14				CCV 240-37742/48 03/22/2012 10:25				CCV 240-37742/60 03/22/2012 11:33			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	100		100	100	98.3		100	98	97.4		100	97
Arsenic	98.1		100	98	98.6		100	99	98.4		100	98
Barium	96.1		100	96	95.9		100	96	96.0		100	96
Beryllium	105		100	105	103		100	103	105		100	105
Cadmium	100		100	100	99.2		100	99	98.4		100	98
Chromium	96.7		100	97	98.2		100	98	97.0		100	97
Cobalt	97.4		100	97	99.8		100	100	97.9		100	98
Copper	100		100	100	102		100	102	102		100	102
Lead	101		100	101	101		100	101	101		100	101
Molybdenum	102		100	102	103		100	103	101		100	101
Nickel	99.0		100	99	99.6		100	100	98.0		100	98
Selenium	99.5		100	100	99.5		100	99	99.0		100	99
Silver	101		100	101	99.6		100	100	98.8		100	99
Thallium	100		100	100	104		100	104	103		100	103
Tungsten	99.9		100	100	101		100	101	99.8		100	100
Vanadium	95.7		100	96	97.8		100	98	95.9		100	96
Zinc	99.6		100	100	101		100	101	102		100	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

ICV Source: MTMSICVW_00013 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00036

Analyte	CCV 240-37742/72 03/22/2012 12:40											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	97.8		100	98								
Arsenic	97.3		100	97								
Barium	96.8		100	97								
Beryllium	106		100	106								
Cadmium	98.8		100	99								
Chromium	97.4		100	97								
Cobalt	97.9		100	98								
Copper	101		100	101								
Lead	102		100	102								
Molybdenum	102		100	102								
Nickel	99.1		100	99								
Selenium	98.1		100	98								
Silver	99.9		100	100								
Thallium	104		100	104								
Tungsten	100		100	100								
Vanadium	96.7		100	97								
Zinc	102		100	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 North Canton Job No.: 240-9383-1

SDG No.:

Method: 6020 Instrument ID: I8

Lab Sample ID: CRI 240-37742/7 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRIW_00015

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	2.00	2.16		108	50-150
Arsenic	2.00	2.01	J	101	50-150
Barium	1.00	0.969	J	97	50-150
Beryllium	1.00	1.03		103	50-150
Cadmium	0.500	0.558	J	112	50-150
Cobalt	1.00	1.07		107	50-150
Chromium	2.00	1.95	J	98	50-150
Copper	2.00	2.06		103	50-150
Molybdenum	10.0	10.4		104	50-150
Nickel	2.00	2.02		101	50-150
Lead	1.00	1.14		114	50-150
Selenium	2.00	2.12	J	106	50-150
Thallium	1.00	1.27	J	127	50-150
Vanadium	5.00	4.95	J	99	50-150
Tungsten	10.0	9.90	J	99	50-150
Zinc	10.0	9.99	J	100	50-150
Silver	0.500	0.572	J	114	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-37742/6 03/22/2012 06:20		CCB 240-37742/13 03/22/2012 07:03		CCB 240-37742/25 03/22/2012 08:15		CCB 240-37742/37 03/22/2012 09:22	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	2.0	U	0.156	J	2.0	U	2.0	U
Arsenic	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Barium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Beryllium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Cadmium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Chromium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Copper	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Lead	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Molybdenum	10	0.819	J	1.71	J	0.816	J	0.692	J
Nickel	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Selenium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Silver	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Thallium	2.0	0.454	J	0.548	J	0.539	J	0.479	J
Tungsten	10	0.860	J	0.933	J	0.748	J	0.660	J
Vanadium	20	20	U	20	U	20	U	20	U
Zinc	20	20	U	20	U	20	U	20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 240-37742/49 03/22/2012 10:32		CCB 240-37742/61 03/22/2012 11:40		CCB 240-37742/73 03/22/2012 12:47			
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.154	J	2.0	U	2.0	U		
Arsenic	5.0	5.0	U	5.0	U	5.0	U		
Barium	5.0	5.0	U	5.0	U	5.0	U		
Beryllium	1.0	1.0	U	1.0	U	1.0	U		
Cadmium	1.0	0.182	J	1.0	U	1.0	U		
Chromium	2.0	2.0	U	2.0	U	2.0	U		
Cobalt	1.0	0.163	J	1.0	U	1.0	U		
Copper	2.0	2.0	U	2.0	U	2.0	U		
Lead	1.0	1.0	U	1.0	U	1.0	U		
Molybdenum	10	0.876	J	0.611	J	0.596	J		
Nickel	2.0	2.0	U	2.0	U	2.0	U		
Selenium	5.0	5.0	U	5.0	U	5.0	U		
Silver	1.0	1.0	U	1.0	U	1.0	U		
Thallium	2.0	0.791	J	0.502	J	0.458	J		
Tungsten	10	0.907	J	0.607	J	0.554	J		
Vanadium	20	20	U	20	U	20	U		
Zinc	20	20	U	20	U	20	U		

Italicized analytes were not requested for this sequence.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: ICSA 240-37742/8 Instrument ID: I8

Lab File ID: I8032212A.csv ICS Source: MTMSICSAW_00013

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Found Percent Recovery
Antimony		**0.209**	
Arsenic		**0.277**	
Barium		**0.117**	
Beryllium		**0.0080**	
Cadmium		**-0.468**	
Chromium		**0.642**	
Cobalt		**0.115**	
Copper		**0.449**	
Lead		**0.139**	
Molybdenum	**1000**	**1055**	**106**
Nickel		**0.777**	
Selenium		**0.0830**	
Silver		**0.0720**	
Thallium		**0.198**	
Tungsten		**0.463**	
Vanadium		**-0.0750**	
Zinc		**2.55**	
Aluminum	*50000*	*52570*	*105*
Boron		*1.27*	
Calcium	*50000*	*54560*	*109*
Iron	*50000*	*52150*	*104*
Magnesium	*50000*	*52040*	*104*
Manganese		*0.630*	
Potassium	*50000*	*52550*	*105*
Sodium	*50000*	*53120*	*106*
Strontium		*0.223*	
Tin		*0.181*	
Titanium	*1000*	*1088*	*109*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Lab Sample ID: ICSAB 240-37742/9 Instrument ID: I8

Lab File ID: I8032212A.csv ICS Source: MTMSICSABW_00012

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Antimony	**100**	**104**	**104**
Arsenic	**100**	**96.7**	**97**
Barium	**100**	**102**	**102**
Beryllium	**100**	**107**	**107**
Cadmium	**100**	**101**	**101**
Chromium	**100**	**101**	**101**
Cobalt	**100**	**98.9**	**99**
Copper	**100**	**98.4**	**98**
Lead	**100**	**109**	**109**
Molybdenum	**1100**	**1170**	**106**
Nickel	**100**	**99.8**	**100**
Selenium	**100**	**101**	**101**
Silver	**100**	**101**	**101**
Thallium	**100**	**106**	**106**
Tungsten	**100**	**102**	**102**
Vanadium	**100**	**101**	**101**
Zinc	**100**	**102**	**102**
Aluminum	*50000*	*51900*	*104*
Boron	*100*	*101*	*101*
Calcium	*50000*	*54090*	*108*
Iron	*50000*	*52360*	*105*
Magnesium	*50000*	*51970*	*104*
Manganese	*100*	*116*	*116*
Potassium	*50000*	*50290*	*101*
Sodium	*50000*	*52120*	*104*
Strontium	*100*	*96.4*	*96*
Tin	*100*	*103*	*103*
Titanium	*1100*	*1195*	*109*

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

FORM IVA-IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 03/22/2012 End Date: 03/22/2012

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q	Element In	Q
STD2 240-37742/2 IC	05:54	91		92		92		90		92	
STD3 240-37742/3 IC	06:01	86		92		89		86		89	
STD4 240-37742/4 IC	06:08	90		94		99		101		100	
ICV 240-37742/5	06:13	92		97		95		94		95	
ICB 240-37742/6	06:20	93		97		101		102		101	
CRI 240-37742/7	06:26	98		101		103		102		102	
ICSA 240-37742/8	06:31	74		77		75		78		81	
ICSAB 240-37742/9	06:37	58		63		71		74		76	
CCV 240-37742/12	06:56	70		76		84		82		86	
CCB 240-37742/13	07:03	71		75		88		88		90	
MB 240-37534/1-B	07:09	75		79		89		90		91	
LCS 240-37540/2-A	07:14	69		72		83		82		85	
240-9383-22	07:21	80		90		97		91		92	
240-9383-22 SD	07:27	85		93		98		97		96	
240-9383-22 MS	07:32	68		74		81		77		81	
240-9383-22 MSD	07:39	66		74		81		78		82	
240-9383-21	07:46	79		93		100		94		94	
240-9383-23	07:52	85		99		102		95		96	
240-9383-24	07:57	86		100		102		96		95	
240-9383-25	08:03	84		98		100		95		95	
CCV 240-37742/24	08:08	69		76		84		83		85	
CCB 240-37742/25	08:15	69		76		90		91		91	
240-9383-26	08:21	83		98		104		97		97	
240-9383-27	08:26	86		103		104		98		98	
240-9383-28	08:31	85		102		104		98		97	
240-9383-29	08:37	84		100		103		96		95	
240-9383-30	08:42	85		101		103		96		96	
240-9383-31	08:48	84		100		103		97		96	
240-9383-32	08:53	84		100		103		97		96	
240-9383-33	08:58	85		99		102		96		96	
240-9383-34	09:04	84		100		102		95		96	
240-9383-35	09:09	83		99		103		94		95	
CCV 240-37742/36	09:14	67		74		84		81		84	
CCB 240-37742/37	09:22	64		72		84		86		87	
240-9383-36	09:27	77		93		100		94		94	
240-9383-37	09:32	82		99		102		96		95	
240-9383-38	09:38	82		99		102		96		95	
240-9383-39	09:43	83		99		102		96		94	
240-9383-40	09:48	82		98		102		95		95	
MB 240-37512/1-B	09:54	79		90		99		98		96	
LCS 240-37532/2-A	09:59	62		68		80		78		82	
240-9383-2	10:07	73		84		97		90		91	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 03/22/2012 End Date: 03/22/2012

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q	Element In	Q
240-9383-2 SD	10:12	77		90		98		95		95	
240-9383-2 MS	10:17	63		72		81		78		80	
CCV 240-37742/48	10:25	62		71		83		81		85	
CCB 240-37742/49	10:32	61		69		84		84		87	
240-9383-2 MSD	10:37	62		72		82		78		82	
240-9383-1	10:44	74		92		101		95		97	
240-9383-3	10:50	80		100		105		97		98	
240-9383-4	10:55	81		101		104		97		98	
240-9383-5	11:00	80		100		105		96		97	
240-9383-6	11:06	82		101		104		97		98	
240-9383-7	11:11	81		100		104		96		97	
240-9383-8	11:17	81		99		103		96		96	
240-9383-9	11:22	80		99		102		93		96	
240-9383-10	11:28	80		98		102		95		95	
CCV 240-37742/60	11:33	63		72		83		80		84	
CCB 240-37742/61	11:40	62		70		84		84		87	
240-9383-11	11:46	71		86		97		91		93	
240-9383-12	11:51	77		96		100		93		94	
240-9383-13	11:56	77		95		100		92		94	
240-9383-14	12:02	78		96		100		93		93	
240-9383-15	12:07	78		96		100		93		94	
240-9383-16	12:13	78		96		100		93		93	
240-9383-17	12:18	76		91		98		92		92	
240-9383-18	12:23	78		96		100		93		93	
240-9383-19	12:29	78		96		100		91		93	
240-9383-20	12:34	78		96		100		92		92	
CCV 240-37742/72	12:40	62		71		81		78		82	
CCB 240-37742/73	12:47	60		69		83		85		86	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 03/22/2012 End Date: 03/22/2012

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD2 240-37742/2 IC	05:54			95							
STD3 240-37742/3 IC	06:01			93							
STD4 240-37742/4 IC	06:08			101							
ICV 240-37742/5	06:13			99							
ICB 240-37742/6	06:20			100							
CRI 240-37742/7	06:26			101							
ICSA 240-37742/8	06:31			83							
ICSAB 240-37742/9	06:37			81							
CCV 240-37742/12	06:56			91							
CCB 240-37742/13	07:03			92							
MB 240-37534/1-B	07:09			91							
LCS 240-37540/2-A	07:14			89							
240-9383-22	07:21			97							
240-9383-22 SD	07:27			99							
240-9383-22 MS	07:32			87							
240-9383-22 MSD	07:39			88							
240-9383-21	07:46			100							
240-9383-23	07:52			101							
240-9383-24	07:57			101							
240-9383-25	08:03			100							
CCV 240-37742/24	08:08			91							
CCB 240-37742/25	08:15			93							
240-9383-26	08:21			101							
240-9383-27	08:26			101							
240-9383-28	08:31			102							
240-9383-29	08:37			100							
240-9383-30	08:42			101							
240-9383-31	08:48			101							
240-9383-32	08:53			100							
240-9383-33	08:58			100							
240-9383-34	09:04			99							
240-9383-35	09:09			99							
CCV 240-37742/36	09:14			88							
CCB 240-37742/37	09:22			90							
240-9383-36	09:27			98							
240-9383-37	09:32			98							
240-9383-38	09:38			99							
240-9383-39	09:43			98							
240-9383-40	09:48			98							
MB 240-37512/1-B	09:54			97							
LCS 240-37532/2-A	09:59			87							
240-9383-2	10:07			95							

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

ICP-MS Instrument ID: I8 Start Date: 03/22/2012 End Date: 03/22/2012

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
240-9383-2 SD	10:12			96							
240-9383-2 MS	10:17			86							
CCV 240-37742/48	10:25			88							
CCB 240-37742/49	10:32			88							
240-9383-2 MSD	10:37			87							
240-9383-1	10:44			98							
240-9383-3	10:50			100							
240-9383-4	10:55			100							
240-9383-5	11:00			100							
240-9383-6	11:06			99							
240-9383-7	11:11			99							
240-9383-8	11:17			99							
240-9383-9	11:22			98							
240-9383-10	11:28			98							
CCV 240-37742/60	11:33			87							
CCB 240-37742/61	11:40			88							
240-9383-11	11:46			95							
240-9383-12	11:51			96							
240-9383-13	11:56			96							
240-9383-14	12:02			96							
240-9383-15	12:07			97							
240-9383-16	12:13			96							
240-9383-17	12:18			96							
240-9383-18	12:23			97							
240-9383-19	12:29			96							
240-9383-20	12:34			97							
CCV 240-37742/72	12:40			86							
CCB 240-37742/73	12:47			88							

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 03/22/2012 09:03 End Date: 03/22/2012 15:33

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
IC 240-37468/1-A			09:03	X																				
IC 240-37468/2-A			09:05	X																				
IC 240-37468/3-A			09:07	X																				
IC 240-37468/4-A			09:09	X																				
IC 240-37468/5-A			09:11	X																				
IC 240-37468/6-A			09:13	X																				
ICV 240-37468/7-A	1		09:15	X																				
ICB 240-37468/8-A	1		09:17	X																				
CRA 240-37468/9-A	1		09:19	X																				
CCVL 240-37468/12-A	1		09:21	X																				
CCB 240-37468/11-A	1		09:23	X																				
MB 240-37512/1-C	1	D	09:25	X																				
LCS 240-37533/2-A	1	T	09:27	X																				
240-9383-1	1	D	09:30	X																				
240-9383-1 MS	1	D	09:32	X																				
240-9383-1 MSD	1	D	09:34	X																				
240-9383-2	1	D	09:36	X																				
240-9383-3	1	D	09:38	X																				
240-9383-4	1	D	09:40	X																				
240-9383-5	1	D	09:42	X																				
240-9383-6	1	D	09:44	X																				
CCV 240-37468/10-A	1		09:47	X																				
CCB 240-37468/11-A	1		09:49	X																				
240-9383-7	1	D	09:50	X																				
240-9383-8	1	D	09:52	X																				
240-9383-9	1	D	09:55	X																				
240-9383-10	1	D	09:57	X																				
240-9383-11	1	D	09:58	X																				
240-9383-12	1	D	10:00	X																				
240-9383-13	1	D	10:02	X																				
240-9383-14	1	D	10:04	X																				
240-9383-15	1	D	10:06	X																				
240-9383-16	1	D	10:08	X																				
CCV 240-37468/10-A	1		10:10	X																				
CCB 240-37468/11-A	1		10:12	X																				
240-9383-17	1	D	10:14	X																				
240-9383-18	1	D	10:16	X																				
240-9383-19	1	D	10:18	X																				
240-9383-20	1	D	10:20	X																				
MB 240-37534/1-C	1	D	10:22	X																				
LCS 240-37542/2-A	1	T	10:24	X																				
240-9383-23	1	D	10:26	X																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 03/22/2012 09:03 End Date: 03/22/2012 15:33

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
240-9383-23 MS	1	D	10:28	X																				
240-9383-23 MSD	1	D	10:30	X																				
240-9383-21	1	D	10:32	X																				
CCV 240-37468/10-A	1		10:35	X																				
CCB 240-37468/11-A	1		10:38	X																				
240-9383-22	1	D	10:40	X																				
240-9383-24	1	D	10:42	X																				
240-9383-25	1	D	10:44	X																				
240-9383-26	1	D	10:46	X																				
240-9383-27	1	D	10:48	X																				
240-9383-28	1	D	10:50	X																				
240-9383-29	1	D	10:52	X																				
240-9383-30	1	D	10:54	X																				
240-9383-31	1	D	10:56	X																				
240-9383-32	1	D	10:58	X																				
CCV 240-37468/10-A	1		11:00	X																				
CCB 240-37468/11-A	1		11:02	X																				
240-9383-33	1	D	11:04	X																				
240-9383-34	1	D	11:06	X																				
240-9383-35	1	D	11:08	X																				
240-9383-36	1	D	11:10	X																				
240-9383-37	1	D	11:12	X																				
240-9383-38	1	D	11:14	X																				
240-9383-39	1	D	11:16	X																				
240-9383-40	1	D	11:19	X																				
CCV 240-37468/10-A	1		11:21	X																				
CCB 240-37468/11-A	1		11:23	X																				
CCV 240-37468/10-A			12:01																					
CCB 240-37468/11-A			12:03																					
ZZZZZZ			12:05																					
ZZZZZZ			12:07																					
ZZZZZZ			12:09																					
ZZZZZZ			12:11																					
ZZZZZZ			12:13																					
ZZZZZZ			12:15																					
CCV 240-37468/10-A			12:17																					
CCB 240-37468/11-A			12:19																					
CCV 240-37468/10-A			13:45																					
CCB 240-37468/11-A			13:47																					
ZZZZZZ			13:50																					
ZZZZZZ			13:52																					
ZZZZZZ			13:53																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 03/22/2012 09:03 End Date: 03/22/2012 15:33

Lab Sample ID	D/F	Type	Time	Analytes
				Hg
ZZZZZZ			13:55	
ZZZZZZ			13:57	
ZZZZZZ			13:59	
ZZZZZZ			14:01	
ZZZZZZ			14:04	
ZZZZZZ			14:06	
ZZZZZZ			14:07	
CCV 240-37468/10-A			14:10	
CCB 240-37468/11-A			14:12	
ZZZZZZ			14:14	
ZZZZZZ			14:16	
ZZZZZZ			14:18	
ZZZZZZ			14:19	
ZZZZZZ			14:21	
ZZZZZZ			14:24	
ZZZZZZ			14:26	
ZZZZZZ			14:28	
ZZZZZZ			14:30	
ZZZZZZ			14:32	
CCV 240-37468/10-A			14:34	
CCB 240-37468/11-A			14:36	
ZZZZZZ			14:39	
ZZZZZZ			14:41	
ZZZZZZ			14:43	
ZZZZZZ			14:45	
ZZZZZZ			14:47	
ZZZZZZ			14:49	
ZZZZZZ			14:51	
ZZZZZZ			14:53	
ZZZZZZ			14:55	
ZZZZZZ			14:57	
CCV 240-37468/10-A			14:59	
CCB 240-37468/11-A			15:01	
ZZZZZZ			15:04	
ZZZZZZ			15:06	
ZZZZZZ			15:08	
ZZZZZZ			15:10	
ZZZZZZ			15:12	
ZZZZZZ			15:13	
ZZZZZZ			15:16	
ZZZZZZ			15:17	
ZZZZZZ			15:19	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Instrument ID: H4 Method: 7470A

Start Date: 03/22/2012 09:03 End Date: 03/22/2012 15:33

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
ZZZZZZ			15:21																					
CCV 240-37468/10-A			15:23																					
CCB 240-37468/11-A			15:25																					
ZZZZZZ			15:27																					
ZZZZZZ			15:29																					
CCV 240-37468/10-A			15:31																					
CCB 240-37468/11-A			15:33																					

Prep Types
D = Dissolved
T = Total/NA

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

ICV Source: MTHGICVW_00254 Concentration Units: ug/L

CCV Source: MTHGCALW_00164

Analyte	ICV 240-37468/7-A 03/22/2012 09:15				CCVL 240-37468/12-A 03/22/2012 09:21				CCV 240-37468/10-A 03/22/2012 09:47			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.47		2.50	99	5.15		5.00	103	5.15		5.00	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

ICV Source: MTHGICVW_00254 Concentration Units: ug/L

CCV Source: MTHGCALW_00164

Analyte	CCV 240-37468/10-A 03/22/2012 10:10				CCV 240-37468/10-A 03/22/2012 10:35				CCV 240-37468/10-A 03/22/2012 11:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.15		5.00	103	5.26		5.00	105	5.30		5.00	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

ICV Source: MTHGICVW_00254 Concentration Units: ug/L

CCV Source: MTHGCALW_00164

Analyte	CCV 240-37468/10-A 03/22/2012 11:21											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.32		5.00	106								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Method: 7470A Instrument ID: H4

Lab Sample ID: CRA 240-37468/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00164

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.261		130	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-37468/8-A 03/22/2012 09:17		CCB 240-37468/11-A 03/22/2012 09:23		CCB 240-37468/11-A 03/22/2012 09:49		CCB 240-37468/11-A 03/22/2012 10:12	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica North Canton Job No.: 240-9383-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 240-37468/11-A 03/22/2012 10:38		CCB 240-37468/11-A 03/22/2012 11:02		CCB 240-37468/11-A 03/22/2012 11:23			
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U		

Italicized analytes were not requested for this sequence.

Tetra Tech **INTERNAL CORRESPONDENCE**

TO: **A. APANAVAGE** **DATE: APRIL 5, 2012**

FROM: **TERRI L. SOLOMON** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – HEXAVALENT CHROMIUM**
MARTIN STATE AIRPORT – SURFACE WATER
SAMPLE DELIVERY GROUP (SDG) – R1201803

SAMPLES: 40/Aqueous/

EL-SW01A-032012	EL-SW01B-032012	EL-SW01C-032012
EL-SW01D-032012	MSA-SW37A-032012	MSA-SW37B-032012
MSA-SW37C-032012	MSA-SW37D-032012	MSA-SW38A-032012
MSA-SW38B-032012	MSA-SW38C-032012	MSA-SW38D-032012
MSA-SW39A-032012	MSA-SW39B-032012	MSA-SW39C-032012
MSA-SW39D-032012	MSA-SW40A-032012	MSA-SW40B-032012
MSA-SW40C-032012	MSA-SW40D-032012	MSA-SW41A-032012
MSA-SW41B-032012	MSA-SW41C-032012	MSA-SW41D-032012
MSA-SW42A-032012	MSA-SW42B-032012	MSA-SW42C-032012
MSA-SW42D-032012	MSA-SW43A-032012	MSA-SW43B-032012
MSA-SW43C-032012	MSA-SW43D-032012	MSA-SW44A-032012
MSA-SW44B-032012	MSA-SW44C-032012	MSA-SW44D-032012
MSA-SW45A-032012	MSA-SW45B-032012	MSA-SW45C-032012
MSA-SW45D-032012		

Overview

The sample set for Martin State Airport – Surface Water, SDG R1201803, consists of forty (40) aqueous environmental samples. No field duplicate pairs were included in this SDG.

All samples were analyzed for hexavalent chromium. The samples were collected by Tetra Tech on March 20, 2012 and analyzed by Columbia Analytical Services, Inc. Hexavalent chromium analyses were conducted using EPA method 218.6.

The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, continuing calibration recoveries, laboratory method / preparation blank results, laboratory control sample recoveries, matrix spike recoveries, laboratory duplicate results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems – None.

Minor Problems

- All samples were analyzed outside of the 24 hour holding time but were analyzed within 48 hours. The positive results reported for hexavalent chromium were qualified as biased low, "L"

Notes

All samples were filtered in the field and preserved by the laboratory to a pH of 9.3-9.7.

Executive Summary

Laboratory Performance: The twenty-four hour hold time was exceeded for all samples.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to Region III modifications to the "National Functional Guidelines for Inorganic Data Validation", April 1993.

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

Tetra Tech
Terri L. Solomon
Environmental Scientist

Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 04021	NSAMPLE	EL-SW01A-032012			EL-SW01B-032012			EL-SW01C-032012			EL-SW01D-032012		
SDG: R1201803	LAB_ID	R1201803-007			R1201803-008			R1201803-009			R1201803-010		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.077	L	H	0.08	L	H	0.077	L	H	0.077	L	H

PROJ_NO: 04021	NSAMPLE	MSA-SW37A-032012			MSA-SW37B-032012			MSA-SW37C-032012			MSA-SW37D-032012		
SDG: R1201803	LAB_ID	R1201803-021			R1201803-022			R1201803-023			R1201803-024		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.054	L	H	0.068	L	H	0.066	L	H	0.074	L	H

PROJ_NO: 04021	NSAMPLE	MSA-SW38A-032012			MSA-SW38B-032012			MSA-SW38C-032012			MSA-SW38D-032012		
SDG: R1201803	LAB_ID	R1201803-025			R1201803-026			R1201803-027			R1201803-028		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.077	L	H	0.072	L	H	0.069	L	H	0.072	L	H

PROJ_NO: 04021	NSAMPLE	MSA-SW39A-032012			MSA-SW39B-032012			MSA-SW39C-032012			MSA-SW39D-032012		
SDG: R1201803	LAB_ID	R1201803-029			R1201803-030			R1201803-031			R1201803-032		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.091	L	H	0.078	L	H	0.083	L	H	0.076	L	H

PROJ_NO: 04021	NSAMPLE	MSA-SW40A-032012			MSA-SW40B-032012			MSA-SW40C-032012			MSA-SW40D-032012		
SDG: R1201803	LAB_ID	R1201803-033			R1201803-034			R1201803-035			R1201803-036		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.059	L	H	0.074	L	H	0.071	L	H	0.081	L	H

PROJ_NO: 04021 SDG: R1201803 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW41A-032012			MSA-SW41B-032012			MSA-SW41C-032012			MSA-SW41D-032012		
	LAB_ID	R1201803-037			R1201803-038			R1201803-039			R1201803-040		
	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.071	L	H	0.072	L	H	0.065	L	H	0.092	L	H

PROJ_NO: 04021	NSAMPLE	MSA-SW42A-032012			MSA-SW42B-032012			MSA-SW42C-032012			MSA-SW42D-032012		
SDG: R1201803	LAB_ID	R1201803-011			R1201803-012			R1201803-013			R1201803-014		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.07	L	H	0.072	L	H	0.07	L	H	0.075	L	H

PROJ_NO: 04021	NSAMPLE	MSA-SW43A-032012			MSA-SW43B-032012			MSA-SW43C-032012			MSA-SW43D-032012		
SDG: R1201803	LAB_ID	R1201803-015			R1201803-016			R1201803-017			R1201803-018		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.062	L	H	0.066	L	H	0.067	L	H	0.071	L	H

PROJ_NO: 04021 SDG: R1201803 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW44A-032012			MSA-SW44B-032012			MSA-SW44C-032012			MSA-SW44D-032012		
	LAB_ID	R1201803-019			R1201803-020			R1201803-001			R1201803-002		
	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.073	L	H	0.078	L	H	0.072	L	H	0.079	L	H

PROJ_NO: 04021	NSAMPLE	MSA-SW45A-032012			MSA-SW45B-032012			MSA-SW45C-032012			MSA-SW45D-032012		
SDG: R1201803	LAB_ID	R1201803-003			R1201803-004			R1201803-005			R1201803-006		
FRACTION: MISC	SAMP_DATE	3/20/2012			3/20/2012			3/20/2012			3/20/2012		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.069	L	H	0.069	L	H	0.075	L	H	0.085	L	H

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1116
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	EL-SW01A-032012		
Lab Code:	R1201803-007	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.077		µg/L	0.020	0.004	1	NA	3/22/12 01:35	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1126
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	EL-SW01B-032012		
Lab Code:	R1201803-008	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.080		µg/L	0.020	0.004	1	NA	3/22/12 02:00	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1132
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	EL-SW01C-032012		
Lab Code:	R1201803-009	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.077		µg/L	0.020	0.004	1	NA	3/22/12 02:08	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1139
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	EL-SW01D-032012		
Lab Code:	R1201803-010	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.077		µg/L	0.020	0.004	1	NA	3/22/12 02:17	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1505
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW37A-032012		
Lab Code:	R1201803-021	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.054		µg/L	0.020	0.004	1	NA	3/22/12 04:31	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1509
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW37B-032012		
Lab Code:	R1201803-022	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.068		µg/L	0.020	0.004	1	NA	3/22/12 04:56	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1512
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW37C-032012		
Lab Code:	R1201803-023	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.066		µg/L	0.020	0.004	1	NA	3/22/12 05:21	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1515
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW37D-032012		
Lab Code:	R1201803-024	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.074		µg/L	0.020	0.004	1	NA	3/22/12 05:29	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1400
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW38A-032012		
Lab Code:	R1201803-025	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.077		µg/L	0.020	0.004	1	NA	3/22/12 05:38	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1405
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW38B-032012		
Lab Code:	R1201803-026	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.072		µg/L	0.020	0.004	1	NA	3/22/12 05:46	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1410
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW38C-032012		
Lab Code:	R1201803-027	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.069		µg/L	0.020	0.004	1	NA	3/22/12 05:55	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1416
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW38D-032012		
Lab Code:	R1201803-028	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.072**		µg/L	0.020	0.004	1	NA	3/22/12 06:03	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1146
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW39A-032012		
Lab Code:	R1201803-029	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.091**		µg/L	0.020	0.004	1	NA	3/22/12 06:11	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1155
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW39B-032012		
Lab Code:	R1201803-030	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.078**		µg/L	0.020	0.004	1	NA	3/22/12 06:20	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1159
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW39C-032012		
Lab Code:	R1201803-031	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.083**		µg/L	0.020	0.004	1	NA	3/22/12 06:28	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1204
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW39D-032012		
Lab Code:	R1201803-032	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.076		µg/L	0.020	0.004	1	NA	3/22/12 07:10	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1420
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW40A-032012		
Lab Code:	R1201803-033	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.059		µg/L	0.020	0.004	1	NA	3/22/12 07:18	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1430
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW40B-032012		
Lab Code:	R1201803-034	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.074		µg/L	0.020	0.004	1	NA	3/22/12 07:27	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1434
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW40C-032012		
Lab Code:	R1201803-035	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.071		µg/L	0.020	0.004	1	NA	3/22/12 07:35	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1438
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW40D-032012		
Lab Code:	R1201803-036	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.081**		µg/L	0.020	0.004	1	NA	3/22/12 07:44	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1343
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW41A-032012		
Lab Code:	R1201803-037	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.071**		µg/L	0.020	0.004	1	NA	3/22/12 07:52	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1347
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW41B-032012		
Lab Code:	R1201803-038	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.072**		µg/L	0.020	0.004	1	NA	3/22/12 08:00	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1352
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW41C-032012		
Lab Code:	R1201803-039	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.065		µg/L	0.020	0.004	1	NA	3/22/12 08:09	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1355
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW41D-032012		
Lab Code:	R1201803-040	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.092		µg/L	0.020	0.004	1	NA	3/22/12 08:17	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1443
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW42A-032012		
Lab Code:	R1201803-011	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.070		µg/L	0.020	0.004	1	NA	3/22/12 02:25	

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC04021
Sample Matrix: Water

Service Request: R1201803
Date Collected: 3/20/12 1449
Date Received: 3/21/12

Sample Name: MSA-SW42B-032012
Lab Code: R1201803-012

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.072		µg/L	0.020	0.004	1	NA	3/22/12 02:50	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1454
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW42C-032012		
Lab Code:	R1201803-013	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.070		µg/L	0.020	0.004	1	NA	3/22/12 02:58	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1500
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW42D-032012		
Lab Code:	R1201803-014	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.075		µg/L	0.020	0.004	1	NA	3/22/12 03:07	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1251
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW43A-032012		
Lab Code:	R1201803-015	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.062		µg/L	0.020	0.004	1	NA	3/22/12 03:15	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1256
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW43B-032012		
Lab Code:	R1201803-016	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.066		µg/L	0.020	0.004	1	NA	3/22/12 03:40	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1300
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW43C-032012		
Lab Code:	R1201803-017	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.067		µg/L	0.020	0.004	1	NA	3/22/12 03:49	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1304
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW43D-032012		
Lab Code:	R1201803-018	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.071		µg/L	0.020	0.004	1	NA	3/22/12 03:57	

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC04021
Sample Matrix: Water

Service Request: R1201803
Date Collected: 3/20/12 1230
Date Received: 3/21/12

Sample Name: MSA-SW44A-032012
Lab Code: R1201803-019

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.073**		µg/L	0.020	0.004	1	NA	3/22/12 04:06	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1236
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW44B-032012		
Lab Code:	R1201803-020	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.078		µg/L	0.020	0.004	1	NA	3/22/12 04:14	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1240
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW44C-032012		
Lab Code:	R1201803-001	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.072**		µg/L	0.020	0.004	1	NA	3/22/12 00:27	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1245
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW44D-032012		
Lab Code:	R1201803-002	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.079		µg/L	0.020	0.004	1	NA	3/22/12 00:53	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1210
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW45A-032012		
Lab Code:	R1201803-003	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.069**		µg/L	0.020	0.004	1	NA	3/22/12 01:01	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1215
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW45B-032012		
Lab Code:	R1201803-004	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.069		µg/L	0.020	0.004	1	NA	3/22/12 01:09	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1219
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW45C-032012		
Lab Code:	R1201803-005	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.075**		µg/L	0.020	0.004	1	NA	3/22/12 01:18	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12 1224
Sample Matrix:	Water	**Date Received:**	3/21/12
Sample Name:	MSA-SW45D-032012		
Lab Code:	R1201803-006	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.085		µg/L	0.020	0.004	1	NA	3/22/12 01:26	

APPENDIX C
SUPPORT DOCUMENTATION

Client:	Tetra Tech NUS, Inc.	**Service Request No.:**	R1201803
Project:	MSA Surface Water	**Project Number:**	112IC03291-02
Sample Matrix:	Water	**Date Received:**	3/21/12

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Water samples were collected on3/20/12 and received at CAS in good condition at a cooler temperature of 4.7 °C as noted on the cooler receipt and preservation check form. The samples were immediately preserved to a pH of 9.3 – 9.7 and stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested. All samples were filtered in the field.

Hexavalent Chromium Analysis – 218.6

Forty water samples were analyzed for Dissolved CR+6 by EPA method 218.6, low level. Values detected between the MDL and PQL have been flagged with a "J" as estimated.

Note: Not all samples were analyzed within 24 hours of sampling. However, as mentioned, all samples were pH adjusted and all samples were analyzed within 48 hours of collection.

All the initial and continuing calibration criteria of 95 – 105 % were met.

The Blank Spike (LCS) recovery was within QC limits.

A Matrix Spike/Matrix Spike duplicate was analyzed on samples MSA-SW44C-032012, MSA-SW42A-032012, MSA-SW37A-032012, and MSA-SW39C-032012. The recoveries and RPD's were all within QC limits.

The Laboratory Blank associated with these samples was free of contamination.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature. Michael E. Pe

Columbia Analytical Services™ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1565 Jefferson Rd., Bldg. 300, Suite 360, Rochester, NY 14623 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE _____ OF _____

Project Name: MSA SURFACE WATER	Project Number: 112FC04021
Project Manager: TONY APANOVAGE	Report CC:
Company/Address: 20251 CENTURY BLVD STE 200 GERMANTOWN, MD. 20874	
Phone #: 3012338230	E-mail: tony.apanovage@tetratech.com
Sampler's Signature:	Sampler's Printed Name: Tony Apanovage

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608	PCB's ☐ 8082 ☐ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	dissolved Chromium	REMARKS/ ALTERNATE DESCRIPTION
MSA-SW44C-032012		3/20/12	1240	Water	1								X	
MSA-SW44D-032012			1245		1								X	
MSA-SW45A-032012			1210		1								X	
MSA-SW45B-032012			1215		1								X	
MSA-SW45C-032012			1219		1								X	
MSA-SW45D-032012			1224		1								X	
EL-SW01A-032012			1116		1								X	
EL-SW01B-032012			1126		1								X	
EL-SW01C-032012			1132		1								X	
EL-SW01D-032012			1139		1								X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

FILTERED IN FIELD

24HR TAT

See QAPP ☐

TURNAROUND REQUIREMENTS
- X RUSH (SURCHARGES APPLY)
- X 1 day ___ 2 day ___ 3 day
- ___ 4 day ___ 5 day
- ___ Standard

REQUESTED REPORT DATE

REPORT REQUIREMENTS
- ___ I. Results Only
- ___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
- ___ III. Results + QC and Calibration Summaries
- ___ IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION
PO #:
BILL TO:

R1201803
Tetra Tech NUS,Inc.
MSA Surface Water

STATE WHERE SAMPLES WERE COLLECTED:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature:	Signature:	Signature	Signature	Signature	Signature
Printed Name: Pete Ryan	Printed Name: Gueyong Ye Tan Gaheyong Chetford	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TT INC	Firm: ACT	Firm	Firm	Firm	Firm
Date/Time: 3-20-12 1800	Date/Time: 3/21/12 0955	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return To Originator

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Project Name: MSA SURFACE WATER	Project Number: 112JC04021
Project Manager: TONY APANAVAGE	Report CC:
Company/Address: 20251 CENTURY BLVD STE 200 GERMANTOWN, MD. 20874	
Phone #: 301 233 8230	E-mail: tony.apanavage@tetratech.com
Sampler's Signature:	Sampler's Printed Name: Tony Apanavage

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608	PCB's ☐ 8082 ☐ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	dissolved hex Chrome	REMARKS/ ALTERNATE DESCRIPTION
MSA-SW42A-032012		3/20/12	1443	Water	1								X	
MSA-SW42B-032012			1449		1								X	
MSA-SW42C-032012			1454		1								X	
MSA-SW42D-032012			1500		1								X	
MSA-SW43A-032012			1251		1								X	
MSA-SW43B-032012			1256		1								X	
MSA-SW43C-032012			1300		1								X	
MSA-SW43D-032012			1304		1								X	
MSA-SW44A-032012			1230		1								X	
MSA-SW44B-032012		↓	1236	↓	1								X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

FILTERED IN FIELD

24 HR TAT

See QAPP ☐

TURNAROUND REQUIREMENTS
X RUSH (SURCHARGES APPLY)
X 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
____ Standard

REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature	Signature	Signature	Signature	Signature
Printed Name: Matt Payson	Printed Name: Gregory Watson	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TT Inc.	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 3-20-12 / 1800	Date/Time: 3/21/12 0855	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return To Originator

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1565 Jefferson Rd., Bldg. 300, Suite 360, Rochester, NY 14623 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE _____ OF _____

Project Name: MSA SURFACE WATER	Project Number: 112ICO4021
Project Manager: TONY APANAVAGE	Report CC:
Company/Address: 20251 CENTURY BLVD STE 200 GERMANTOWN, MD. 20874	
Phone #: 301 233 8230	E-mail: tony.apanavage@fetratech.com
Sampler's Signature:	Sampler's Printed Name: Tony Apanavage

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608	PCB's ☐ 8082 ☐ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	dissolved hex Chrome	REMARKS/ ALTERNATE DESCRIPTION
MSA-SW37A-032012		3/20/12	1505	Water	1								X	
MSA-SW37B-032012			1509		1								X	
MSA-SW37C-032012			1512		1								X	
MSA-SW37D-032012			1515		1								X	
MSA-SW38A-032012			1400		1								X	
MSA-SW38B-032012			1405		1								X	
MSA-SW38C-032012			1410		1								X	
MSA-SW38D-032012			1416		1								X	
MSA-SW39A-032012			1146		1								X	
MSA-SW39B-032012			1155		1								X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

FILTERED IN FIELD

24HR TAT

See QAPP ☐

TURNAROUND REQUIREMENTS
- X RUSH (SURCHARGES APPLY)
- X 1 day ____ 2 day ____ 3 day
- ____ 4 day ____ 5 day
- ____ Standard

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
- ____ I. Results Only
- ____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
- ____ III. Results + QC and Calibration Summaries
- ____ IV. Data Validation Report with Raw Data

Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature	Signature	Signature	Signature
Printed Name: Walt Ryan	Printed Name: Gabby Lebron	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TA Inc	Firm: ADS	Firm	Firm	Firm	Firm
Date/Time: 5-20-12 1600	Date/Time: 3/21/12 0855	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return To Originator

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1565 Jefferson Rd., Bldg. 300, Suite 360, Rochester, NY 14623 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE _____ OF _____

Project Name: MSA SURFACE WATER	Project Number: 112IC04021
Project Manager: TONY APANAVAGE	Report CC:
Company/Address: 20251 CENTURY BLVD STE 200 GERMANTOWN, MD. 20874	
Phone #: 3012338230	E-mail: tony.apanavage@tetratech.com
Sampler's Signature:	Sampler's Printed Name: Tony Apanavage

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608	PCB's ☐ 8082 ☐ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Dissolved Hex Chrome	REMARKS/ ALTERNATE DESCRIPTION
MSA-SW39C-032012		3/20/12	1159	Water	1							X	X	
MSA-SW39D-032012			1204		1							X	X	
MSA-SW40A-032012			1420		1							X	X	
MSA-SW40B-032012			1430		1							X	X	
MSA-SW40C-032012			1434		1							X	X	
MSA-SW40D-032012			1438		1							X	X	
MSA-SW41A-032012			1343		1							X	X	
MSA-SW41B-032012			1347		1							X	X	
MSA-SW41C-032012			1352		1							X	X	
MSA-SW41D-032012		↓	1355	↓	1							X	X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

FILTERED IN FIELD

24 HR TAT

See QAPP ☐

TURNAROUND REQUIREMENTS
X RUSH (SURCHARGES APPLY)
X 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
____ Standard

REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature	Signature	Signature	Signature
Printed Name: Matt Payson	Printed Name: Gregory Lutton	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TT INC	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 3-20-12 1800	Date/Time: 3/21/12 0925	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 7/2011

HOLDTIME

SDG R1201803

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
CR6	UG/L	MSA-SW38B-032012	R1201803-026	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	EL-SW01A-032012	R1201803-007	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW40B-032012	R1201803-034	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW40A-032012	R1201803-033	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW39D-032012	R1201803-032	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW39C-032012	R1201803-031	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW39B-032012	R1201803-030	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW39A-032012	R1201803-029	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW40D-032012	R1201803-036	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW38C-032012	R1201803-027	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW41A-032012	R1201803-037	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW38A-032012	R1201803-025	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW37D-032012	R1201803-024	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW37C-032012	R1201803-023	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW37B-032012	R1201803-022	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
CR6	UG/L	MSA-SW37A-032012	R1201803-021	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	EL-SW01D-032012	R1201803-010	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	EL-SW01C-032012	R1201803-009	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	EL-SW01B-032012	R1201803-008	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW38D-032012	R1201803-028	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW43B-032012	R1201803-016	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW45C-032012	R1201803-005	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW45B-032012	R1201803-004	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW45A-032012	R1201803-003	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW44D-032012	R1201803-002	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW44C-032012	R1201803-001	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW44B-032012	R1201803-020	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW44A-032012	R1201803-019	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW40C-032012	R1201803-035	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW43C-032012	R1201803-017	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW45D-032012	R1201803-006	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW43A-032012	R1201803-015	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW42D-032012	R1201803-014	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
CR6	UG/L	MSA-SW42C-032012	R1201803-013	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW42B-032012	R1201803-012	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW42A-032012	R1201803-011	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW41D-032012	R1201803-040	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW41C-032012	R1201803-039	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW41B-032012	R1201803-038	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2
CR6	UG/L	MSA-SW43D-032012	R1201803-018	NM	3/20/2012	3/22/2012	3/22/2012	2	0	2

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1201803-MB1	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.004	1	NA	3/22/12 00:11	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1201803-MB2	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.004	1	NA	3/22/12 03:32	

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1201803
Project:	MSA Surface Water/112IC04021	**Date Collected:**	3/20/12
Sample Matrix:	Water	**Date Received:**	3/21/12
		Date Analyzed:	3/22/12

Matrix Spike Summary
General Chemistry Parameters

Sample Name:	MSA-SW44C-032012	**Units:**	µg/L
Lab Code:	R1201803-001	**Basis:**	NA

Analytical Method: 218.6

		MSA-SW44C-032012MS Matrix Spike R1201803-001MS1			MSA-SW44C-032012DMS Duplicate Matrix Spike R1201803-001DMS1					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chromium, Hexavalent, Dissolved	0.072	0.287	0.200	107	0.287	0.200	108	90 - 110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC04021
Sample Matrix: Water

Service Request: R1201803
Date Collected: 3/20/12
Date Received: 3/21/12
Date Analyzed: 3/22/12

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MSA-SW42A-032012
Lab Code: R1201803-011

Units: µg/L
Basis: NA

Analytical Method: 218.6

Analyte Name	Sample Result	MSA-SW42A-032012MS Matrix Spike R1201803-011MS2 Result	Spike Amount	% Rec	MSA-SW42A-032012DMS Duplicate Matrix Spike R1201803-011DMS2 Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Chromium, Hexavalent, Dissolved	0.070	0.279	0.200	105	0.273	0.200	102	90 - 110	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC04021
Sample Matrix: Water

Service Request: R1201803
Date Collected: 3/20/12
Date Received: 3/21/12
Date Analyzed: 3/22/12

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MSA-SW37A-032012
Lab Code: R1201803-021

Units: µg/L
Basis: NA

Analytical Method: 218.6

		MSA-SW37A-032012MS Matrix Spike R1201803-021MS3			MSA-SW37A-032012DMS Duplicate Matrix Spike R1201803-021DMS3					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chromium, Hexavalent, Dissolved	0.054	0.251	0.200	99	0.257	0.200	101	90 - 110	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC04021
Sample Matrix: Water

Service Request: R1201803
Date Collected: 3/20/12
Date Received: 3/21/12
Date Analyzed: 3/22/12

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MSA-SW39C-032012
Lab Code: R1201803-031

Units: µg/L
Basis: NA

Analytical Method: 218.6

Analyte Name	Sample Result	MSA-SW39C-032012MS Matrix Spike R1201803-031MS4 Result	Spike Amount	% Rec	MSA-SW39C-032012DMS Duplicate Matrix Spike R1201803-031DMS4 Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Chromium, Hexavalent, Dissolved	0.083	0.295	0.200	106	0.283	0.200	100	90 - 110	4	20

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC04021
Sample Matrix: Water

Service Request: R1201803
Date Analyzed: 3/22/12

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1201803-LCS1 Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6	0.201	0.200	101	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC04021
Sample Matrix: Water

Service Request: R1201803
Date Analyzed: 3/22/12

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1201803-LCS2 Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6	0.210	0.200	105	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Tetra Tech NUS, Inc. **Service Request:** R1201803
Project: MSA Surface Water/112IC04021

Continuing Calibration Verification (CCV) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6 **Units:** µg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	284425	RQ1202773-04	3/22/12 00:01	0.500	0.497	99	95 - 105
CCV2	284425	RQ1202773-03	3/22/12 01:43	0.500	0.507	101	95 - 105
CCV3	284425	RQ1202773-02	3/22/12 03:24	0.500	0.504	101	95 - 105
CCV4	284426	RQ1202774-04	3/22/12 03:24	0.500	0.504	101	95 - 105
CCV5	284425	RQ1202773-01	3/22/12 05:04	0.500	0.522	104	95 - 105
CCV6	284426	RQ1202774-03	3/22/12 05:04	0.500	0.522	104	95 - 105
CCV7	284426	RQ1202774-02	3/22/12 06:45	0.500	0.517	103	95 - 105
CCV8	284426	RQ1202774-01	3/22/12 08:26	0.500	0.514	103	95 - 105

Client: Tetra Tech NUS, Inc. **Service Request:** R1201803
Project: MSA Surface Water/112IC04021

Continuing Calibration Blank (CCB) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6 **Units:** µg/L

	Analysis Lot	Lab Code	Date Analyzed	MDL	MRL	Result	Q
CCB1	284425	RQ1202773-08	3/22/12 00:11	0.004	0.020	0.020	U
CCB2	284425	RQ1202773-07	3/22/12 01:51	0.004	0.020	0.020	U
CCB3	284425	RQ1202773-06	3/22/12 03:32	0.004	0.020	0.020	U
CCB4	284426	RQ1202774-08	3/22/12 03:32	0.004	0.020	0.020	U
CCB5	284425	RQ1202773-05	3/22/12 05:13	0.004	0.020	0.020	U
CCB6	284426	RQ1202774-07	3/22/12 05:13	0.004	0.020	0.020	U
CCB7	284426	RQ1202774-06	3/22/12 06:53	0.004	0.020	0.020	U
CCB8	284426	RQ1202774-05	3/22/12 08:34	0.004	0.020	0.020	U

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** CWOODS **Analysis Lot:** 284425 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1202773-04	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.497 µg/L	1					3/22/12 00:01:00	N	IV
RQ1202773-08	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.004	0.020			3/22/12 00:11:00	N	IV
RQ1202773-09	Chromium, Hexavalent, Dissolved	MB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.004	0.020			3/22/12 00:11:00	N	IV
RQ1202773-10	Chromium, Hexavalent, Dissolved	LCS		Water	0.20 µg/L	10 mL	0.201 µg/L	1	0.004	0.020	101		3/22/12 00:19:00	N	IV
R1201803-001	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.072 µg/L	1	0.004	0.020			3/22/12 00:27:00	N	IV
RQ1202773-11	Chromium, Hexavalent, Dissolved	MS	R1201803-001	Water	0.29 µg/L	10 mL	0.287 µg/L	1	0.004	0.020	107		3/22/12 00:36:00	N	IV
RQ1202773-12	Chromium, Hexavalent, Dissolved	DMS	R1201803-001	Water	0.29 µg/L	10 mL	0.287 µg/L	1	0.004	0.020	108	<1	3/22/12 00:44:00	N	IV
R1201803-002	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.079 µg/L	1	0.004	0.020			3/22/12 00:53:00	N	IV
R1201803-003	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.069 µg/L	1	0.004	0.020			3/22/12 01:01:00	N	IV
R1201803-004	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.069 µg/L	1	0.004	0.020			3/22/12 01:09:00	N	IV
R1201803-005	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.075 µg/L	1	0.004	0.020			3/22/12 01:18:00	N	IV
R1201803-006	Chromium, Hexavalent, Dissolved	N/A		Water	0.09 µg/L	10 mL	0.085 µg/L	1	0.004	0.020			3/22/12 01:26:00	N	IV
R1201803-007	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.077 µg/L	1	0.004	0.020			3/22/12 01:35:00	N	IV
RQ1202773-03	Chromium, Hexavalent, Dissolved	CCV		Water	0.51 µg/L	10 mL	0.507 µg/L	1					3/22/12 01:43:00	N	IV
RQ1202773-07	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.004	0.020			3/22/12 01:51:00	N	IV
R1201803-008	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.080 µg/L	1	0.004	0.020			3/22/12 02:00:00	N	IV
R1201803-009	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.077 µg/L	1	0.004	0.020			3/22/12 02:08:00	N	IV
R1201803-010	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.077 µg/L	1	0.004	0.020			3/22/12 02:17:00	N	IV
R1201803-011	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.070 µg/L	1	0.004	0.020			3/22/12 02:25:00	N	IV
RQ1202773-13	Chromium, Hexavalent, Dissolved	MS	R1201803-011	Water	0.28 µg/L	10 mL	0.279 µg/L	1	0.004	0.020	105		3/22/12 02:33:00	N	IV
RQ1202773-14	Chromium, Hexavalent, Dissolved	DMS	R1201803-011	Water	0.27 µg/L	10 mL	0.273 µg/L	1	0.004	0.020	102	2	3/22/12 02:42:00	N	IV
R1201803-012	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.072 µg/L	1	0.004	0.020			3/22/12 02:50:00	N	IV
R1201803-013	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.070 µg/L	1	0.004	0.020			3/22/12 02:58:00	N	IV
R1201803-014	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.075 µg/L	1	0.004	0.020			3/22/12 03:07:00	N	IV

/ indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

R1803
1 copy

Instrument Name: R-IC-05 **Analyst:** CWOODS **Analysis Lot:** 284425 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1201803-015	Chromium, Hexavalent, Dissolved	N/A		Water	0.06 µg/L	10 mL	0.062 µg/L	1	0.004	0.020			3/22/12 03:15:00	N	IV
RQ1202773-02	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.504 µg/L	1					3/22/12 03:24:00	N	IV
RQ1202773-06	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.004	0.020			3/22/12 03:32:00	N	IV
R1201803-016	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.066 µg/L	1	0.004	0.020			3/22/12 03:40:00	N	IV
R1201803-017	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.067 µg/L	1	0.004	0.020			3/22/12 03:49:00	N	IV
R1201803-018	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.071 µg/L	1	0.004	0.020			3/22/12 03:57:00	N	IV
R1201803-019	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.073 µg/L	1	0.004	0.020			3/22/12 04:06:00	N	IV
R1201803-020	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.078 µg/L	1	0.004	0.020			3/22/12 04:14:00	N	IV
RQ1202773-01	Chromium, Hexavalent, Dissolved	CCV		Water	0.52 µg/L	10 mL	0.522 µg/L	1					3/22/12 05:04:00	N	IV
RQ1202773-05	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.004	0.020			3/22/12 05:13:00	N	IV

9999

/ indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** CWOODS **Analysis Lot:** 284426 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1202774-04	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.504 µg/L	1					3/22/12 03:24:00	N	IV
RQ1202774-08	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.004	0.020			3/22/12 03:32:00	N	IV
RQ1202774-09	Chromium, Hexavalent, Dissolved	MB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.004	0.020			3/22/12 03:32:00	N	IV
RQ1202774-10	Chromium, Hexavalent, Dissolved	LCS		Water	0.21 µg/L	10 mL	0.210 µg/L	1	0.004	0.020	105		3/22/12 04:22:00	N	IV
R1201803-021	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.054 µg/L	1	0.004	0.020			3/22/12 04:31:00	N	IV
RQ1202774-11	Chromium, Hexavalent, Dissolved	MS	R1201803-021	Water	0.25 µg/L	10 mL	0.251 µg/L	1	0.004	0.020	99		3/22/12 04:39:00	N	IV
RQ1202774-12	Chromium, Hexavalent, Dissolved	DMS	R1201803-021	Water	0.26 µg/L	10 mL	0.257 µg/L	1	0.004	0.020	101	2	3/22/12 04:48:00	N	IV
R1201803-022	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.068 µg/L	1	0.004	0.020			3/22/12 04:56:00	N	IV
RQ1202774-03	Chromium, Hexavalent, Dissolved	CCV		Water	0.52 µg/L	10 mL	0.522 µg/L	1					3/22/12 05:04:00	N	IV
RQ1202774-07	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.004	0.020			3/22/12 05:13:00	N	IV
R1201803-023	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.066 µg/L	1	0.004	0.020			3/22/12 05:21:00	N	IV
R1201803-024	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.074 µg/L	1	0.004	0.020			3/22/12 05:29:00	N	IV
R1201803-025	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.077 µg/L	1	0.004	0.020			3/22/12 05:38:00	N	IV
R1201803-026	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.072 µg/L	1	0.004	0.020			3/22/12 05:46:00	N	IV
R1201803-027	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.069 µg/L	1	0.004	0.020			3/22/12 05:55:00	N	IV
R1201803-028	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.072 µg/L	1	0.004	0.020			3/22/12 06:03:00	N	IV
R1201803-029	Chromium, Hexavalent, Dissolved	N/A		Water	0.09 µg/L	10 mL	0.091 µg/L	1	0.004	0.020			3/22/12 06:11:00	N	IV
R1201803-030	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.078 µg/L	1	0.004	0.020			3/22/12 06:20:00	N	IV
R1201803-031	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.083 µg/L	1	0.004	0.020			3/22/12 06:28:00	N	IV
RQ1202774-13	Chromium, Hexavalent, Dissolved	MS	R1201803-031	Water	0.29 µg/L	10 mL	0.295 µg/L	1	0.004	0.020	106		3/22/12 06:37:00	N	IV
RQ1202774-02	Chromium, Hexavalent, Dissolved	CCV		Water	0.52 µg/L	10 mL	0.517 µg/L	1					3/22/12 06:45:00	N	IV
RQ1202774-06	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.004	0.020			3/22/12 06:53:00	N	IV
RQ1202774-14	Chromium, Hexavalent, Dissolved	DMS	R1201803-031	Water	0.28 µg/L	10 mL	0.283 µg/L	1	0.004	0.020	100	4	3/22/12 07:02:00	N	IV
R1201803-032	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.076 µg/L	1	0.004	0.020			3/22/12 07:10:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Instrument Name: R-IC-05 **Analyst:** CWOODS **Analysis Lot:** 284426 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1201803-033	Chromium, Hexavalent, Dissolved	N/A		Water	0.06 µg/L	10 mL	0.059 µg/L	1 /	0.004	0.020			3/22/12 07:18:00	N	IV
R1201803-034	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.074 µg/L	1 /	0.004	0.020			3/22/12 07:27:00	N	IV
R1201803-035	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.071 µg/L	1 /	0.004	0.020			3/22/12 07:35:00	N	IV
R1201803-036	Chromium, Hexavalent, Dissolved	N/A		Water	0.08 µg/L	10 mL	0.081 µg/L	1 /	0.004	0.020			3/22/12 07:44:00	N	IV
R1201803-037	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.071 µg/L	1 /	0.004	0.020			3/22/12 07:52:00	N	IV
R1201803-038	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.072 µg/L	1 /	0.004	0.020			3/22/12 08:00:00	N	IV
R1201803-039	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 µg/L	10 mL	0.065 µg/L	1 /	0.004	0.020			3/22/12 08:09:00	N	IV
R1201803-040	Chromium, Hexavalent, Dissolved	N/A		Water	0.09 µg/L	10 mL	0.092 µg/L	1 /	0.004	0.020			3/22/12 08:17:00	N	IV
RQ1202774-01	Chromium, Hexavalent, Dissolved	CCV		Water	0.51 µg/L	10 mL	0.514 µg/L	1 /					3/22/12 08:26:00	N	IV
RQ1202774-05	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1 /	0.004	0.020			3/22/12 08:34:00	N	IV

/ indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/ Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
3/16/12 0940	GW-06P T 1727-003	(7199) 218.6 RL 218.6 LL 218.7	(Water) Drinking Water	3/15/12 1340	Yes (No) Field	—	—	7.69	~~3/16/12 7.69~~ 9.21	CMW 3/16/12 1257	Buffer	WC1032781
	GW-06P D 1727-008	(7199) 218.6 RL 218.6 LL 218.7	(Water) Drinking Water	3/15/12 1340	Yes No (Field)	—	—	7.83	9.28	CMW 3/16/12 1259	10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
3/20/12 1025	DISS 1776-002	(7199) 218.6 RL 218.6 LL 218.7	(Water) Drinking Water	3/19/12 1600	~~Yes~~ ~~No~~ (Field)	—	—	5.95	9.30	CMW 3/20/12 1113	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	TOTAL 1776-001	(7199) 218.6 RL 218.6 LL 218.7	(Water) Drinking Water	3/19/12 1600	Yes (No) Field	—	—	5.59	9.25	CMW 3/20/12 1114	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
3/21/12 0955	37A 1803-021	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1505	Yes No (Field)	—	—	6.52	9.49	CMW 3/20/12 1030	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	37B 1803-022	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1509	Yes No (Field)	—	—	8.48	9.34	CMW 3/20/12 1031	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	37C 1803-023	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1512	Yes No (Field)	—	—	8.39	9.36	CMW 3/20/12 1032	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	37D 1803-024	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1515	Yes No (Field)	—	—	8.39	9.42	CMW 3/20/12 1033	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	

	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199
Filter	No	Required	Required	Optional
pH	>8.0	9.0-9.5	9.3-9.7	unpreserved - adjust to 9.0-9.5
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours

SSGTS

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/ Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
3/16/12 0940	GW-06P T 1727-003	(7199) 218.6 RL 218.6 LL 218.7	(Water) Drinking Water	3/15/12 1340	Yes (No) Field	—	—	7.69	~~3/16/12 7.69~~ 9.21	CMW 3/16/12 1257	Buffer	WC1032781
	GW-06P D 1727-008	(7199) 218.6 RL 218.6 LL 218.7	(Water) Drinking Water	3/15/12 1340	Yes No (Field)	—	—	7.83	9.28	CMW 3/16/12 1259	Buffer	WC1032781
3/20/12 1025	DISS 1776-002	(7199) 218.6 RL 218.6 LL 218.7	(Water) Drinking Water	3/19/12 1600	~~3/20/12~~ Yes ~~No~~ ~~Field~~	—	—	5.95	9.30	CMW 3/20/12 1113	Buffer	WC1032781
	TOTAL 1776-001	(7199) 218.6 RL 218.6 LL 218.7	(Water) Drinking Water	3/19/12 1600	Yes (No) Field	—	—	5.59	9.25	CMW 3/20/12 1114	Buffer	WC1032781
3/21/12 0955	37A 1803-021	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1505	Yes No (Field)	—	—	6.52	9.49	CMW 3/20/12 1030	Buffer	WC1032781
	37B 1803-022	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1509	Yes No (Field)	—	—	8.48	9.34	CMW 3/20/12 1031	Buffer	WC1032781
	37C 1803-023	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1512	Yes No (Field)	—	—	8.39	9.36	CMW 3/20/12 1032	Buffer	WC1032781
	37D 1803-024	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1515	Yes No (Field)	—	—	8.39	9.42	CMW 3/20/12 1033	Buffer	WC1032781

	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199
Filter	No	Required	Required	Optional
pH	>8.0	9.0-9.5	9.3-9.7	unpreserved - adjust to 9.0-9.5
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/ Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
3/21/12 0955	38A 1803-025	7199 218.6 RL 218.6 LL 218.7	Water Drinking Water	3/20/12 1400	Yes No Field	—	—	8.48	9.36	CMW 3/21/12 1034	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	38B 1803-026	7199 218.6 RL 218.6 LL 218.7	Water Drinking Water	3/20/12 1405	Yes No Field	—	—	7.96	9.34	CMW 3/21/12 1044	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	38C 1803-027	7199 218.6 RL 218.6 LL 218.7	Water Drinking Water	3/20/12 1410	Yes No Field	—	—	8.51	9.34	CMW 3/21/12 1045	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	38D 1803-028	7199 218.6 RL 218.6 LL 218.7	Water Drinking Water	3/20/12 1416	Yes No Field	—	—	8.55	9.41	CMW 3/21/12 1045	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	01A 1803-007	7199 218.6 RL 218.6 LL 218.7	Water Drinking Water	3/20/12 1116	Yes No Field	—	—	8.16	9.34	CMW 3/21/12 1048	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	01B 1803-008	7199 218.6 RL 218.6 LL 218.7	Water Drinking Water	3/20/12 1126	Yes No Field	—	—	8.35	9.32	CMW 3/21/12 1049	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	01C 1803-009	7199 218.6 RL 218.6 LL 218.7	Water Drinking Water	3/20/12 1132	Yes No Field	—	—	8.49	9.35	CMW 3/21/12 1049	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	01D 1803-010	7199 218.6 RL 218.6 LL 218.7	Water Drinking Water	3/20/12 1139	Yes No Field	—	—	8.40	9.55	CMW 3/21/12 1050	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	

	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199
Filter	No	Required	Required	Optional
pH	>8.0	9.0-9.5	9.3-9.7	unpreserved - adjust to 9.0-9.5
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/ Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
3/21/12 0955	39A 1803-029	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1146	Yes No (Field)	—	—	7.95	9.33	CMW 3/21/12 1058	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	39B 1803-030	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1155	Yes No (Field)	—	—	8.39	9.31	CMW 3/21/12 1059	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	39C 1803-031	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1159	Yes No (Field)	—	—	8.35	9.34	CMW 3/21/12 1059	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	39D 1803-032	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1204	Yes No (Field)	—	—	8.28	9.32	CMW 3/21/12 1100	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	40A 1803-033	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1420	Yes No (Field)	—	—	6.83	9.38	CMW 3/21/12 1110	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	40B 1803-034	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1430	Yes No (Field)	—	—	8.07	9.34	CMW 3/21/12 1111	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	40C 1803-035	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1434	Yes No (Field)	—	—	8.04	9.40	CMW 3/21/12 1112	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	40D 1803-036	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1438	Yes No (Field)	—	—	8.42	9.31	CMW 3/21/12 1113	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	

	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199
Filter	No	Required	Required	Optional
pH	>8.0	9.0-9.5	9.3-9.7	unpreserved - adjust to 9.0-9.5
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/ Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
3/21/12 0955	41A 1803-037	7199 ~~218.6 RL~~ (218.6 LL) 218.7	~~Water~~ Drinking Water	3/20/12 1343	Yes No (Field)	—	—	8.09	9.37	CMW 3/21/12 1126	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	41B 1803-038	7199 ~~218.6 RL~~ (218.6 LL) 218.7	~~Water~~ Drinking Water	3/20/12 1347	Yes No (Field)	—	—	8.11	9.32	CMW 3/21/12 1128	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	41C 1803-039	7199 ~~218.6 RL~~ (218.6 LL) 218.7	~~Water~~ Drinking Water	3/20/12 1352	Yes No (Field)	—	—	8.25	9.46	CMW 3/21/12 1128	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	41D 1803-040	7199 ~~218.6 RL~~ (218.6 LL) 218.7	~~Water~~ Drinking Water	3/20/12 1355	Yes No (Field)	—	—	8.20	9.44	CMW 3/21/12 1130	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	42A 1803-011	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1443	Yes No ~~Field~~	—	—	8.10	9.35	Amm 3-21-12 11:31	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	42B 1803-012	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1449	Yes No (Field)	—	—	8.15	9.44	Amm 3-21-12 11:32	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	42C 1803-013	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1454	Yes No (Field)	—	—	8.39	9.44	Amm 3-21-12 11:34	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	42D 1803-014	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1500	Yes No (Field)	—	—	8.20	9.45	Amm 3-21-12 11:34	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	

	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199
Filter	No	Required	Required	Optional
pH	>8.0	9.0-9.5	9.3-9.7	unpreserved - adjust to 9.0-9.5
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
3/21/12 0955	43A 1803-015	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1251	Yes No (Field)	—	—	8.30	9.42	11:36 Amm 3-21-12	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	43B 1803-016	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1256	Yes No (Field)	—	—	8.30	9.39	Amm 3-21-12 11:37	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	43C 1803-017	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1300	Yes No (Field)	—	—	8.30	9.41	Amm 3-21-12 11:38	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	43D 1803-018	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1304	Yes No (Field)	—	—	8.35	9.46	Amm 3-21-12 11:39	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	44A 1803-019	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1230	Yes No (Field)	—	—	8.29	9.37	Amm 3-21-12 11:40	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	44B 1803-020	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1236	Yes No (Field)	—	—	8.39	9.37	Amm 3-21-12 11:41	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	44C 1803-001	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1240	Yes No (Field)	—	—	8.26	9.41	Amm 3-21-12 11:41	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	44D 1803-002	7199 218.6 RL ~~218.6 LL~~ 218.7	(Water) Drinking Water	3/20/12 1245	Yes No (Field)	—	—	8.44	9.44	Amm 3-21-12 11:42	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	

	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199
Filter	No	Required	Required	Optional
pH	>8.0	9.0-9.5	9.3-9.7	unpreserved - adjust to 9.0-9.5
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/ Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
3/21/12 0955	45A 1803-003	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1210	Yes No (Field)	—	—	8.30	Amm 3-21-12 ~~8.41~~ 9.41	Amm 3-21-12 11:43	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	45B 1803-004	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1215	Yes No (Field)	—	—	8.34	9.47	Amm 3-21-12 11:44	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	45C 1803-005	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1219	Yes No (Field)	—	—	8.24	9.39	Amm 3-21-12 11:44	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
	45D 1803-006	7199 218.6 RL (218.6 LL) 218.7	(Water) Drinking Water	3/20/12 1224	Yes No (Field)	—	—	8.39	9.45	Amm 3-21-12 11:45	Buffer	WC1032781
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field						Buffer	
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field						Buffer	
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field						Buffer	
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field						Buffer	
											10%H2SO4	
											10%NH4OH	
											NH4OH(conc)	

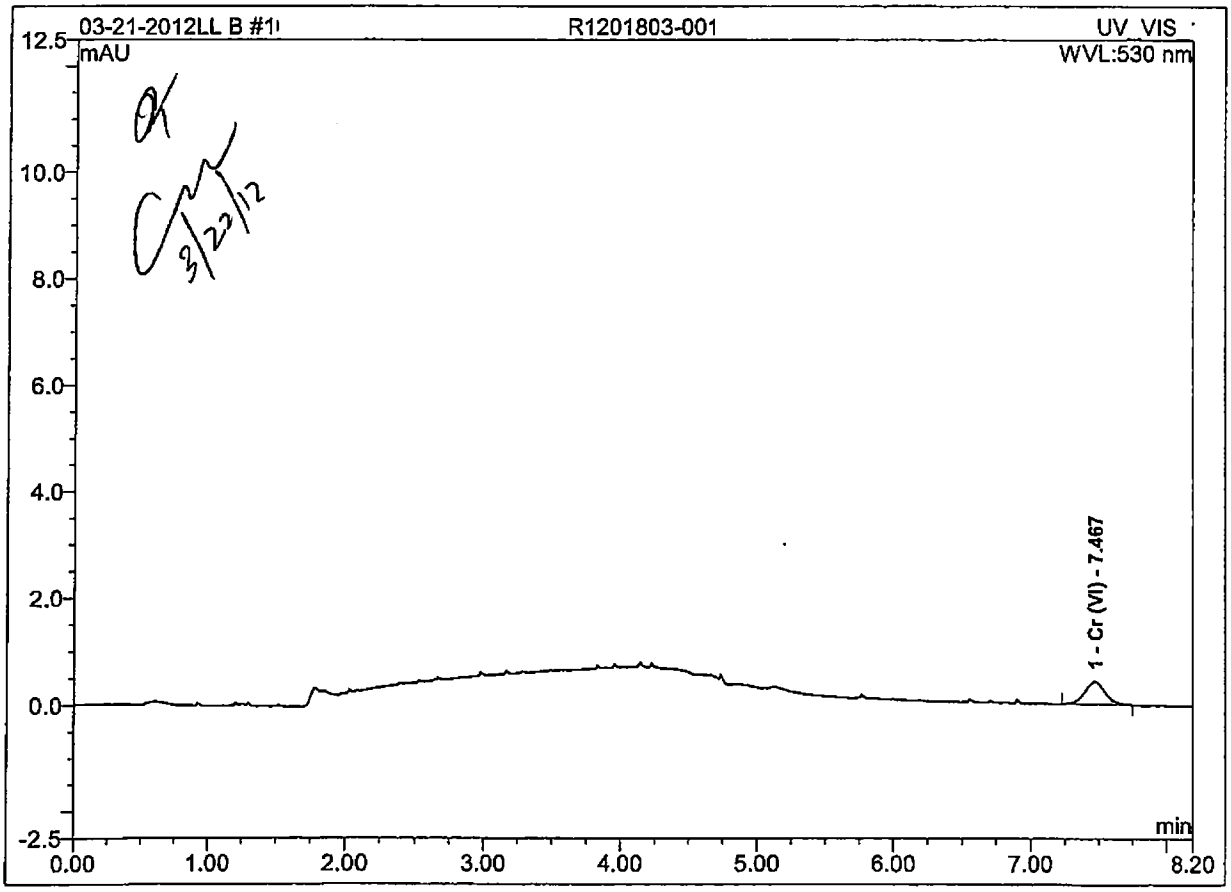
	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199
Filter	No	Required	Required	Optional
pH	>8.0	9.0-9.5	9.3-9.7	unpreserved - adjust to 9.0-9.5
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours

1995

10 R1201803-001 Sample MSA-SW44C-032012

218.6 LL Hex Chr. rep result 0.072 ug/L

Sample Name:	**R1201803-001**	*Injection Volume:*	**2000.0**
Vial Number:	**25**	*Channel:*	**UV_VIS_1**
Sample Type:	**unknown**	*Dilution Factor:*	**1**
Control Program:	**Fast Hexavalent Chromium LL**	*Sample Weight:*	**1.0000**
Quantif. Method:	**5-032112CLLB**	*Sample Amount:*	**1.0000**
Recording Time:	**3/22/2012 0:27**		



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount ppb	Type
1	7.467	Cr (VI)	0.435	0.073	100.00	0.07216	BMB
Total:			0.435	0.073	100.00	0.072	

APPENDIX C—CHEMICAL RESULTS DATA TABLE

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	EL-SW01A-032012	EL-SW01B-032012	EL-SW01C-032012	EL-SW01D-032012	MSA-SW37A-032012	MSA-SW37B-032012
LABORATORY ID	240-9383-37	240-9383-38	240-9383-39	240-9383-40	240-9383-1	240-9383-2
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	EL-SW01A	EL-SW01B	EL-SW01C	EL-SW01D	MSA-SW-37A	MSA-SW-37B
VOLATILES (ug/l)						
1,1,1,2-TETRACHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,1-TRICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-TETRACHLOROETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1-DICHLOROETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.38 J	0.19 U
1,1-DICHLOROPROPENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,3-TRICHLOROBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-TRICHLOROPROPANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,2,3-TRIMETHYLBENZENE	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
1,2,4-TRICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-TRIMETHYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
1,2-DIBROMOETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,2-DICHLOROPROPANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-DICHLOROPROPANE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,4-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,2-DICHLOROPROPANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-BUTANONE	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR
2-CHLOROETHYL VINYL ETHER	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR
2-CHLOROTOLUENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
2-HEXANONE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
4-CHLOROTOLUENE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-ISOPROPYLTOLUENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	EL-SW01A-032012	EL-SW01B-032012	EL-SW01C-032012	EL-SW01D-032012	MSA-SW37A-032012	MSA-SW37B-032012
LABORATORY ID	240-9383-37	240-9383-38	240-9383-39	240-9383-40	240-9383-1	240-9383-2
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	EL-SW01A	EL-SW01B	EL-SW01C	EL-SW01D	MSA-SW-37A	MSA-SW-37B
4-METHYL-2-PENTANONE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
ACETONE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOCHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMODICHLOROMETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
BROMOFORM	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
BROMOMETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CARBON DISULFIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CARBON TETRACHLORIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.28 J	0.15 U
CHLORODIBROMOMETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
CHLOROETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
CHLOROFORM	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CIS-1,2-DICHLOROETHENE	0.9 J	1	1.2	1.4	10	4.3
CIS-1,3-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
DIBROMOMETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DICHLORODIFLUOROMETHANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 UJ	0.31 UJ
DIISOPROPYL ETHER	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ETHYL TERT-BUTYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ETHYLBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
HEXACHLOROBUTADIENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.61 B
ISOPROPYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	EL-SW01A-032012	EL-SW01B-032012	EL-SW01C-032012	EL-SW01D-032012	MSA-SW37A-032012	MSA-SW37B-032012
LABORATORY ID	240-9383-37	240-9383-38	240-9383-39	240-9383-40	240-9383-1	240-9383-2
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	EL-SW01A	EL-SW01B	EL-SW01C	EL-SW01D	MSA-SW-37A	MSA-SW-37B
N-BUTYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.35 B
N-PROPYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
O-XYLENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 B
STYRENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-AMYL METHYL ETHER	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TERT-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TERTIARY-BUTYL ALCOHOL	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
TETRACHLOROETHENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
TOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TOTAL XYLENES	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRICHLOROETHENE	1	1.1	1.4	1.6	2.3	3
TRICHLOROFLUOROMETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
VINYL ACETATE	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR
VINYL CHLORIDE	0.22 U	0.22 U	0.33 J	0.4 J	8.6	2.4
FILTERED METALS (ug/l)						
ANTIMONY	0.23 B	0.24 B	0.27 B	0.25 B	0.45 B	0.39 B
ARSENIC	1.1 J	1.2 J	1.1 J	1.2 J	1.3 J	1.3 J
BARIUM	26	26	26	26	25	25
BERYLLIUM	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CADMIUM	0.19 B	0.22 B	0.2 B	0.21 B	0.24 B	0.34 B
CHROMIUM	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	1 J
COBALT	0.1 B	0.11 B	0.096 B	0.097 B	0.49 B	0.25 B
COPPER	3.5	3.6	3.6	4	3.4	3.7
LEAD	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
MERCURY	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	EL-SW01A-032012	EL-SW01B-032012	EL-SW01C-032012	EL-SW01D-032012	MSA-SW37A-032012	MSA-SW37B-032012
LABORATORY ID	240-9383-37	240-9383-38	240-9383-39	240-9383-40	240-9383-1	240-9383-2
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	EL-SW01A	EL-SW01B	EL-SW01C	EL-SW01D	MSA-SW-37A	MSA-SW-37B
MOLYBDENUM	0.79 B	0.81 B	0.74 B	0.77 B	1.4 B	1.5 B
NICKEL	1.7 J	2.5	1.6 J	1.6 J	1.6 J	2.7
SELENIUM	0.57 U	0.57 U	0.57 U	0.57 U	0.74 J	0.57 U
SILVER	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
THALLIUM	0.16 B	0.14 U	0.14 U	0.14 U	0.95 B	0.69 B
TUNGSTEN	0.37 U	0.37 U	0.37 U	0.37 U	0.86 B	0.68 B
VANADIUM	0.44 U	0.49 J	0.59 J	0.44 U	0.44 U	0.44 U
ZINC	8.9 J	9 J	9.1 J	11 J	11 B	12 B
MISCELLANEOUS PARAMETERS (ug/l)						
HEXAVALENT CHROMIUM	0.077 L	0.08 L	0.077 L	0.077 L	0.054 L	0.068 L

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW37C-032012	MSA-SW37D-032012	MSA-SW38A-032012	MSA-SW38B-032012	MSA-SW38C-032012	MSA-SW38D-032012
LABORATORY ID	240-9383-3	240-9383-4	240-9383-5	240-9383-6	240-9383-7	240-9383-8
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-37C	MSA-SW-37D	MSA-SW-38A	MSA-SW-38B	MSA-SW-38C	MSA-SW-38D
VOLATILES (ug/l)						
1,1,1,2-TETRACHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,1-TRICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-TETRACHLOROETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1-DICHLOROETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,3-TRICHLOROBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-TRICHLOROPROPANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,2,3-TRIMETHYLBENZENE	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
1,2,4-TRICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-TRIMETHYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
1,2-DIBROMOETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,2-DICHLOROPROPANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-DICHLOROPROPANE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,4-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,2-DICHLOROPROPANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-BUTANONE	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR
2-CHLOROETHYL VINYL ETHER	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR
2-CHLOROTOLUENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
2-HEXANONE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
4-CHLOROTOLUENE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-ISOPROPYLTOLUENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW37C-032012	MSA-SW37D-032012	MSA-SW38A-032012	MSA-SW38B-032012	MSA-SW38C-032012	MSA-SW38D-032012
LABORATORY ID	240-9383-3	240-9383-4	240-9383-5	240-9383-6	240-9383-7	240-9383-8
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-37C	MSA-SW-37D	MSA-SW-38A	MSA-SW-38B	MSA-SW-38C	MSA-SW-38D
4-METHYL-2-PENTANONE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
ACETONE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOCHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMODICHLOROMETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
BROMOFORM	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
BROMOMETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CARBON DISULFIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CARBON TETRACHLORIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
CHLORODIBROMOMETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
CHLOROETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
CHLOROFORM	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CIS-1,2-DICHLOROETHENE	2	0.84 J	5.4	3.1	1.8	1.1
CIS-1,3-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
DIBROMOMETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DICHLORODIFLUOROMETHANE	0.31 UJ	0.31 UJ	0.31 UJ	0.31 UJ	0.31 UJ	0.31 UJ
DIISOPROPYL ETHER	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ETHYL TERT-BUTYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ETHYLBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
HEXACHLOROBUTADIENE	0.41 B	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
ISOPROPYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW37C-032012	MSA-SW37D-032012	MSA-SW38A-032012	MSA-SW38B-032012	MSA-SW38C-032012	MSA-SW38D-032012
LABORATORY ID	240-9383-3	240-9383-4	240-9383-5	240-9383-6	240-9383-7	240-9383-8
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-37C	MSA-SW-37D	MSA-SW-38A	MSA-SW-38B	MSA-SW-38C	MSA-SW-38D
N-BUTYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
N-PROPYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
O-XYLENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-AMYL METHYL ETHER	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TERT-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TERTIARY-BUTYL ALCOHOL	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
TETRACHLOROETHENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
TOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TOTAL XYLENES	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.23 J	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRICHLOROETHENE	1.9	1.3	7.9	3.9	2.4	1.7
TRICHLOROFLUOROMETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
VINYL ACETATE	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR
VINYL CHLORIDE	0.7	0.27 J	1.6	1.3	0.63	0.34 J
FILTERED METALS (ug/l)						
ANTIMONY	0.32 B	0.29 B	0.27 B	0.29 B	0.25 B	0.24 B
ARSENIC	1.3 J	1.2 J	1.3 J	1.1 J	1.3 J	1.3 J
BARIUM	25	25	25	27	25	26
BERYLLIUM	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CADMIUM	0.26 B	0.24 B	0.34 B	0.36 B	0.28 B	0.22 B
CHROMIUM	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
COBALT	0.15 B	0.15 B	0.71 B	0.3 B	0.18 B	0.12 B
COPPER	3.5	3.6	3.5	3.4	3.3	3.4
LEAD	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
MERCURY	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW37C-032012	MSA-SW37D-032012	MSA-SW38A-032012	MSA-SW38B-032012	MSA-SW38C-032012	MSA-SW38D-032012
LABORATORY ID	240-9383-3	240-9383-4	240-9383-5	240-9383-6	240-9383-7	240-9383-8
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-37C	MSA-SW-37D	MSA-SW-38A	MSA-SW-38B	MSA-SW-38C	MSA-SW-38D
MOLYBDENUM	0.98 B	0.8 B	0.86 B	0.75 B	0.73 B	0.78 B
NICKEL	1.8 J	1.7 J	2.3	1.9 J	1.8 J	1.7 J
SELENIUM	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
SILVER	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
THALLIUM	0.49 B	0.35 B	0.26 B	0.23 B	0.18 B	0.15 B
TUNGSTEN	0.42 B	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
VANADIUM	0.51 J	0.44 U	0.47 J	0.44 U	0.44 U	0.44 U
ZINC	10 B	12 B	21	9.7 B	14 B	11 B
MISCELLANEOUS PARAMETERS (ug/l)						
HEXAVALENT CHROMIUM	0.066 L	0.074 L	0.077 L	0.072 L	0.069 L	0.072 L

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW39A-032012	MSA-SW39B-032012	MSA-SW39C-032012	MSA-SW39D-032012	MSA-SW40A-032012	MSA-SW40B-032012
LABORATORY ID	240-9383-9	240-9383-10	240-9383-11	240-9383-12	240-9383-13	240-9383-14
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-39A	MSA-SW-39B	MSA-SW-39C	MSA-SW-39D	MSA-SW-40A	MSA-SW-40B
VOLATILES (ug/l)						
1,1,1,2-TETRACHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,1-TRICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-TETRACHLOROETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1-DICHLOROETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.39 J	0.19 U
1,1-DICHLOROPROPENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,3-TRICHLOROBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-TRICHLOROPROPANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,2,3-TRIMETHYLBENZENE	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
1,2,4-TRICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.59 B	0.41 B
1,2,4-TRIMETHYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
1,2-DIBROMOETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,2-DICHLOROPROPANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-DICHLOROPROPANE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,4-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	1.6	0.13 U
2,2-DICHLOROPROPANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-BUTANONE	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR
2-CHLOROETHYL VINYL ETHER	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR
2-CHLOROTOLUENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
2-HEXANONE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
4-CHLOROTOLUENE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-ISOPROPYLTOLUENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW39A-032012	MSA-SW39B-032012	MSA-SW39C-032012	MSA-SW39D-032012	MSA-SW40A-032012	MSA-SW40B-032012
LABORATORY ID	240-9383-9	240-9383-10	240-9383-11	240-9383-12	240-9383-13	240-9383-14
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-39A	MSA-SW-39B	MSA-SW-39C	MSA-SW-39D	MSA-SW-40A	MSA-SW-40B
4-METHYL-2-PENTANONE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
ACETONE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOCHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMODICHLOROMETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
BROMOFORM	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
BROMOMETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CARBON DISULFIDE	0.48 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CARBON TETRACHLORIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
CHLORODIBROMOMETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
CHLOROETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
CHLOROFORM	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CIS-1,2-DICHLOROETHENE	0.42 J	0.41 J	0.72 J	2.9	39	8.1
CIS-1,3-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
DIBROMOMETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DICHLORODIFLUOROMETHANE	0.31 UJ	0.31 UJ	0.31 UJ	0.31 UJ	0.31 UJ	0.31 U
DIISOPROPYL ETHER	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ETHYL TERT-BUTYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ETHYLBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	1.4	0.17 U
HEXACHLOROBUTADIENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
ISOPROPYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U	11	0.48 J
METHYL TERT-BUTYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW39A-032012	MSA-SW39B-032012	MSA-SW39C-032012	MSA-SW39D-032012	MSA-SW40A-032012	MSA-SW40B-032012
LABORATORY ID	240-9383-9	240-9383-10	240-9383-11	240-9383-12	240-9383-13	240-9383-14
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-39A	MSA-SW-39B	MSA-SW-39C	MSA-SW-39D	MSA-SW-40A	MSA-SW-40B
N-BUTYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
N-PROPYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
O-XYLENE	0.14 U	0.14 U	0.14 U	0.14 U	1.9	0.14 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-AMYL METHYL ETHER	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TERT-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TERTIARY-BUTYL ALCOHOL	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
TETRACHLOROETHENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
TOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.71 J	0.13 U
TOTAL XYLENES	0.28 U	0.28 U	0.28 U	0.28 U	13	0.48 J
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.77 J	0.38 J
TRANS-1,3-DICHLOROPROPENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRICHLOROETHENE	0.59 J	0.49 J	0.94 J	4.2	11	21
TRICHLOROFLUOROMETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
VINYL ACETATE	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR
VINYL CHLORIDE	0.22 U	0.22 U	0.24 J	1.1	40	2.3
FILTERED METALS (ug/l)						
ANTIMONY	0.22 B	0.23 B	0.24 B	0.25 B	0.27 B	0.27 B
ARSENIC	1.1 J	1.2 J	1.2 J	0.98 J	1.2 J	1.1 J
BARIUM	26	25	25	25	26	26
BERYLLIUM	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CADMIUM	0.13 U	0.13 U	0.13 U	0.21 B	0.36 B	0.41 B
CHROMIUM	0.71 U	0.73 J	0.71 U	0.71 U	0.71 U	0.71 U
COBALT	0.11 B	0.12 B	0.11 B	0.2 B	1	0.74 B
COPPER	2.7	3.4	2.7	3.3	3.3	3.2
LEAD	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
MERCURY	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW39A-032012	MSA-SW39B-032012	MSA-SW39C-032012	MSA-SW39D-032012	MSA-SW40A-032012	MSA-SW40B-032012
LABORATORY ID	240-9383-9	240-9383-10	240-9383-11	240-9383-12	240-9383-13	240-9383-14
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-39A	MSA-SW-39B	MSA-SW-39C	MSA-SW-39D	MSA-SW-40A	MSA-SW-40B
MOLYBDENUM	0.72 B	0.83 B	0.89 B	0.72 B	0.76 B	0.78 B
NICKEL	1.4 J	2.2	1.4 J	1.7 J	2.1	2.1
SELENIUM	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
SILVER	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
THALLIUM	0.14 U	0.14 U	0.29 B	0.2 B	0.15 B	0.14 U
TUNGSTEN	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
VANADIUM	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
ZINC	4 B	7.8 B	12 B	10 B	18 B	15 B
MISCELLANEOUS PARAMETERS (ug/l)						
HEXAVALENT CHROMIUM	0.091 L	0.078 L	0.083 L	0.076 L	0.059 L	0.074 L

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW40C-032012	MSA-SW40D-032012	MSA-SW41A-032012	MSA-SW41B-032012	MSA-SW41C-032012	MSA-SW41D-032012
LABORATORY ID	240-9383-15	240-9383-16	240-9383-17	240-9383-18	240-9383-19	240-9383-20
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-40C	MSA-SW-40D	MSA-SW-41A	MSA-SW-41B	MSA-SW-41C	MSA-SW-41D
VOLATILES (ug/l)						
1,1,1,2-TETRACHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,1-TRICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-TETRACHLOROETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1-DICHLOROETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,3-TRICHLOROBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-TRICHLOROPROPANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,2,3-TRIMETHYLBENZENE	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
1,2,4-TRICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-TRIMETHYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
1,2-DIBROMOETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,2-DICHLOROPROPANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-DICHLOROPROPANE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,4-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,2-DICHLOROPROPANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-BUTANONE	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR
2-CHLOROETHYL VINYL ETHER	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR
2-CHLOROTOLUENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
2-HEXANONE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
4-CHLOROTOLUENE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-ISOPROPYLTOLUENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW40C-032012	MSA-SW40D-032012	MSA-SW41A-032012	MSA-SW41B-032012	MSA-SW41C-032012	MSA-SW41D-032012
LABORATORY ID	240-9383-15	240-9383-16	240-9383-17	240-9383-18	240-9383-19	240-9383-20
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-40C	MSA-SW-40D	MSA-SW-41A	MSA-SW-41B	MSA-SW-41C	MSA-SW-41D
4-METHYL-2-PENTANONE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
ACETONE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOCHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMODICHLOROMETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
BROMOFORM	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
BROMOMETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CARBON DISULFIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CARBON TETRACHLORIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
CHLORODIBROMOMETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
CHLOROETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
CHLOROFORM	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CIS-1,2-DICHLOROETHENE	5.1	1.2	18	5.1	3.3	1.5
CIS-1,3-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
DIBROMOMETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DICHLORODIFLUOROMETHANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
DIISOPROPYL ETHER	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ETHYL TERT-BUTYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ETHYLBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
HEXACHLOROBUTADIENE	0.36 B	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
ISOPROPYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW40C-032012	MSA-SW40D-032012	MSA-SW41A-032012	MSA-SW41B-032012	MSA-SW41C-032012	MSA-SW41D-032012
LABORATORY ID	240-9383-15	240-9383-16	240-9383-17	240-9383-18	240-9383-19	240-9383-20
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-40C	MSA-SW-40D	MSA-SW-41A	MSA-SW-41B	MSA-SW-41C	MSA-SW-41D
N-BUTYLBENZENE	0.12 B	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
N-PROPYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
O-XYLENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-AMYL METHYL ETHER	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TERT-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TERTIARY-BUTYL ALCOHOL	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
TETRACHLOROETHENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
TOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TOTAL XYLENES	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.82 J	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRICHLOROETHENE	4.1	1.7	6.2	4.9	3.3	1.7
TRICHLOROFLUOROMETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
VINYL ACETATE	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR
VINYL CHLORIDE	2.4	0.35 J	1.2	1.5	1.4	0.43 J
FILTERED METALS (ug/l)						
ANTIMONY	0.26 B	0.25 B	0.26 B	0.26 B	0.23 B	0.25 B
ARSENIC	1.3 J	1.2 J	1.1 J	1 J	1.2 J	1.1 J
BARIUM	26	26	25	25	26	26
BERYLLIUM	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CADMIUM	0.31 B	0.24 B	0.41 B	0.3 B	0.27 B	0.26 B
CHROMIUM	1.2 J	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
COBALT	0.36 B	0.13 B	2.6	0.35 B	0.3 B	0.13 B
COPPER	3.2	3.3	3.4	3.2	3.3	3.9
LEAD	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
MERCURY	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW40C-032012	MSA-SW40D-032012	MSA-SW41A-032012	MSA-SW41B-032012	MSA-SW41C-032012	MSA-SW41D-032012
LABORATORY ID	240-9383-15	240-9383-16	240-9383-17	240-9383-18	240-9383-19	240-9383-20
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-40C	MSA-SW-40D	MSA-SW-41A	MSA-SW-41B	MSA-SW-41C	MSA-SW-41D
MOLYBDENUM	0.66 B	0.75 B	0.64 B	0.76 B	0.66 B	0.81 B
NICKEL	2.1	1.7 J	5	2	1.8 J	1.7 J
SELENIUM	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
SILVER	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
THALLIUM	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TUNGSTEN	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
VANADIUM	0.44 U	0.44 U	0.44 U	0.48 J	0.44 U	0.45 J
ZINC	10 B	9.9 B	18 B	15 B	11 B	23
MISCELLANEOUS PARAMETERS (ug/l)						
HEXAVALENT CHROMIUM	0.071 L	0.081 L	0.071 L	0.072 L	0.065 L	0.092 L

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW42A-032012	MSA-SW42B-032012	MSA-SW42C-032012	MSA-SW42D-032012	MSA-SW43A-032012	MSA-SW43B-032012
LABORATORY ID	240-9383-21	240-9383-22	240-9383-23	240-9383-24	240-9383-25	240-9383-26
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-42A	MSA-SW-42B	MSA-SW-42C	MSA-SW-42D	MSA-SW-43A	MSA-SW-43B
VOLATILES (ug/l)						
1,1,1,2-TETRACHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,1-TRICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-TETRACHLOROETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1-DICHLOROETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,3-TRICHLOROBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-TRICHLOROPROPANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,2,3-TRIMETHYLBENZENE	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
1,2,4-TRICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-TRIMETHYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
1,2-DIBROMOETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,2-DICHLOROPROPANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-DICHLOROPROPANE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,4-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,2-DICHLOROPROPANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-BUTANONE	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR
2-CHLOROETHYL VINYL ETHER	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR
2-CHLOROTOLUENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
2-HEXANONE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
4-CHLOROTOLUENE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-ISOPROPYLTOLUENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW42A-032012	MSA-SW42B-032012	MSA-SW42C-032012	MSA-SW42D-032012	MSA-SW43A-032012	MSA-SW43B-032012
LABORATORY ID	240-9383-21	240-9383-22	240-9383-23	240-9383-24	240-9383-25	240-9383-26
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-42A	MSA-SW-42B	MSA-SW-42C	MSA-SW-42D	MSA-SW-43A	MSA-SW-43B
4-METHYL-2-PENTANONE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
ACETONE	1.1 U	1.1 U	1.1 U	1.1 U	1.3 J	1.1 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOCHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMODICHLOROMETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
BROMOFORM	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
BROMOMETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CARBON DISULFIDE	0.4 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CARBON TETRACHLORIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
CHLORODIBROMOMETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
CHLOROETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
CHLOROFORM	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CIS-1,2-DICHLOROETHENE	7.4	8.7	3.3	2.6	2.1	3.7
CIS-1,3-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
DIBROMOMETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DICHLORODIFLUOROMETHANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
DIISOPROPYL ETHER	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ETHYL TERT-BUTYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ETHYLBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
HEXACHLOROBUTADIENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
ISOPROPYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
M+P-XYLENES	0.25 J	0.86 J	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW42A-032012	MSA-SW42B-032012	MSA-SW42C-032012	MSA-SW42D-032012	MSA-SW43A-032012	MSA-SW43B-032012
LABORATORY ID	240-9383-21	240-9383-22	240-9383-23	240-9383-24	240-9383-25	240-9383-26
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-42A	MSA-SW-42B	MSA-SW-42C	MSA-SW-42D	MSA-SW-43A	MSA-SW-43B
N-BUTYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
N-PROPYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
O-XYLENE	0.14 U	0.15 J	0.14 U	0.14 U	0.14 U	0.14 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-AMYL METHYL ETHER	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TERT-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TERTIARY-BUTYL ALCOHOL	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
TETRACHLOROETHENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
TOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TOTAL XYLENES	0.28 U	1 J	0.28 U	0.28 U	0.28 U	0.28 U
TRANS-1,2-DICHLOROETHENE	0.53 J	0.22 J	0.19 U	0.19 U	0.27 J	0.19 J
TRANS-1,3-DICHLOROPROPENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRICHLOROETHENE	4	10	3.1	2.4	2.6	3.7
TRICHLOROFLUOROMETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
VINYL ACETATE	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR
VINYL CHLORIDE	3.2	4.2	1.4	1.3	0.53	1.2
FILTERED METALS (ug/l)						
ANTIMONY	0.44 B	0.41 B	0.36 B	0.34 B	0.29 B	0.29 B
ARSENIC	1.5 J	1.3 J	1.5 J	1.4 J	1.1 J	1.2 J
BARIUM	25	25	25	26	25	26
BERYLLIUM	0.37 J	0.23 J	0.2 U	0.2 U	0.2 U	0.2 U
CADMIUM	0.28 B	0.42 B	0.46 B	0.28 B	0.37 B	0.31 B
CHROMIUM	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
COBALT	0.31 B	0.48 B	0.31 B	0.21 B	2.1	0.39 B
COPPER	3.1	2.9	3.5	3.2	3.8	3
LEAD	0.18 U	0.18 U	0.2 J	0.18 U	0.18 U	0.18 U
MERCURY	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW42A-032012	MSA-SW42B-032012	MSA-SW42C-032012	MSA-SW42D-032012	MSA-SW43A-032012	MSA-SW43B-032012
LABORATORY ID	240-9383-21	240-9383-22	240-9383-23	240-9383-24	240-9383-25	240-9383-26
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-42A	MSA-SW-42B	MSA-SW-42C	MSA-SW-42D	MSA-SW-43A	MSA-SW-43B
MOLYBDENUM	1.7 B	2 B	1.1 B	0.93 B	0.85 B	0.99 B
NICKEL	1.7 J	1.8 J	1.9 J	1.7 J	4.6	1.9 J
SELENIUM	0.7 J	0.6 J	0.57 U	0.57 U	0.57 U	0.57 U
SILVER	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
THALLIUM	0.95 B	0.77 B	0.54 B	0.34 B	0.26 B	0.32 B
TUNGSTEN	1 B	1 B	0.51 B	0.37 U	0.37 U	0.37 B
VANADIUM	0.44 U	0.44 U	0.44 U	0.45 J	0.44 U	0.44 U
ZINC	6.5 J	12 J	9.8 J	11 J	13 J	12 J
MISCELLANEOUS PARAMETERS (ug/l)						
HEXAVALENT CHROMIUM	0.07 L	0.072 L	0.07 L	0.075 L	0.062 L	0.066 L

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW43C-032012	MSA-SW43D-032012	MSA-SW44A-032012	MSA-SW44B-032012	MSA-SW44C-032012	MSA-SW44D-032012
LABORATORY ID	240-9383-27	240-9383-28	240-9383-29	240-9383-30	240-9383-31	240-9383-32
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-43C	MSA-SW-43D	MSA-SW-44A	MSA-SW-44B	MSA-SW-44C	MSA-SW-44D
VOLATILES (ug/l)						
1,1,1,2-TETRACHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,1-TRICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-TETRACHLOROETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1-DICHLOROETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,3-TRICHLOROBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-TRICHLOROPROPANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,2,3-TRIMETHYLBENZENE	0.0059 U	0.0059 U	0.006 U	0.0059 U	0.0059 U	0.0059 U
1,2,4-TRICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-TRIMETHYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
1,2-DIBROMOETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,2-DICHLOROPROPANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-DICHLOROPROPANE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,4-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,2-DICHLOROPROPANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-BUTANONE	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR	0.57 UR
2-CHLOROETHYL VINYL ETHER	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR	0.99 UR
2-CHLOROTOLUENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
2-HEXANONE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
4-CHLOROTOLUENE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-ISOPROPYLTOLUENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW43C-032012	MSA-SW43D-032012	MSA-SW44A-032012	MSA-SW44B-032012	MSA-SW44C-032012	MSA-SW44D-032012
LABORATORY ID	240-9383-27	240-9383-28	240-9383-29	240-9383-30	240-9383-31	240-9383-32
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-43C	MSA-SW-43D	MSA-SW-44A	MSA-SW-44B	MSA-SW-44C	MSA-SW-44D
4-METHYL-2-PENTANONE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
ACETONE	1.1 U	1.1 U	2.7 J	1.1 U	1.1 U	1.1 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOCHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMODICHLOROMETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
BROMOFORM	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
BROMOMETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CARBON DISULFIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CARBON TETRACHLORIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
CHLORODIBROMOMETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
CHLOROETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
CHLOROFORM	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CIS-1,2-DICHLOROETHENE	3.4	2.8	1.6	3.3	3.2	2.9
CIS-1,3-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
DIBROMOMETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DICHLORODIFLUOROMETHANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
DIISOPROPYL ETHER	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ETHYL TERT-BUTYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ETHYLBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
HEXACHLOROBUTADIENE	0.3 U	0.3 U	0.41 B	0.3 U	0.3 U	0.3 U
ISOPROPYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW43C-032012	MSA-SW43D-032012	MSA-SW44A-032012	MSA-SW44B-032012	MSA-SW44C-032012	MSA-SW44D-032012
LABORATORY ID	240-9383-27	240-9383-28	240-9383-29	240-9383-30	240-9383-31	240-9383-32
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-43C	MSA-SW-43D	MSA-SW-44A	MSA-SW-44B	MSA-SW-44C	MSA-SW-44D
N-BUTYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
N-PROPYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
O-XYLENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-AMYL METHYL ETHER	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TERT-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TERTIARY-BUTYL ALCOHOL	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
TETRACHLOROETHENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
TOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TOTAL XYLENES	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.24 J	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRICHLOROETHENE	3.5	2.9	2.1	3.5	3.3	3.1
TRICHLOROFLUOROMETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
VINYL ACETATE	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR	0.19 UR
VINYL CHLORIDE	1.2	1.1	0.22 U	1.4	1.2	1.1
FILTERED METALS (ug/l)						
ANTIMONY	0.31 B	0.29 B	0.24 B	0.25 B	0.27 B	0.26 B
ARSENIC	1.2 J	1.2 J	0.97 J	1.3 J	1.1 J	1.2 J
BARIUM	26	26	26	26	26	25
BERYLLIUM	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CADMIUM	0.33 B	0.26 B	0.36 B	0.25 B	0.25 B	0.26 B
CHROMIUM	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
COBALT	0.22 B	0.19 B	3	0.25 B	0.18 B	0.19 B
COPPER	3.3	3.2	3.6	3.2	3.6	3.2
LEAD	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
MERCURY	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW43C-032012	MSA-SW43D-032012	MSA-SW44A-032012	MSA-SW44B-032012	MSA-SW44C-032012	MSA-SW44D-032012
LABORATORY ID	240-9383-27	240-9383-28	240-9383-29	240-9383-30	240-9383-31	240-9383-32
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-43C	MSA-SW-43D	MSA-SW-44A	MSA-SW-44B	MSA-SW-44C	MSA-SW-44D
MOLYBDENUM	0.88 B	0.74 B	0.81 B	0.77 B	0.76 B	0.75 B
NICKEL	1.8 J	1.7 J	6.2	1.8 J	1.7 J	1.7 J
SELENIUM	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
SILVER	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
THALLIUM	0.24 B	0.17 B	0.14 B	0.14 U	0.14 U	0.14 U
TUNGSTEN	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
VANADIUM	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.54 J
ZINC	13 J	9.7 J	15 J	11 J	11 J	7.6 J
MISCELLANEOUS PARAMETERS (ug/l)						
HEXAVALENT CHROMIUM	0.067 L	0.071 L	0.073 L	0.078 L	0.072 L	0.079 L

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW45A-032012	MSA-SW45B-032012	MSA-SW45C-032012	MSA-SW45D-032012
LABORATORY ID	240-9383-33	240-9383-34	240-9383-35	240-9383-36
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-45A	MSA-SW-45B	MSA-SW-45C	MSA-SW-45D
VOLATILES (ug/l)				
1,1,1,2-TETRACHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U
1,1,1-TRICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-TETRACHLOROETHANE	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U
1,1-DICHLOROETHANE	0.15 U	0.15 U	0.15 U	0.15 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.13 U	0.13 U	0.13 U	0.13 U
1,2,3-TRICHLOROBENZENE	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-TRICHLOROPROPANE	0.43 U	0.43 U	0.43 U	0.43 U
1,2,3-TRIMETHYLBENZENE	0.0059 U	0.0059 U	0.0059 U	0.0059 U
1,2,4-TRICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-TRIMETHYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U	0.67 U	0.67 U	0.67 U
1,2-DIBROMOETHANE	0.24 U	0.24 U	0.24 U	0.24 U
1,2-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U
1,2-DICHLOROPROPANE	0.18 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U
1,3-DICHLOROPROPANE	0.16 U	0.16 U	0.16 U	0.16 U
1,4-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
2,2-DICHLOROPROPANE	0.13 U	0.13 U	0.13 U	0.13 U
2-BUTANONE	0.57 UR	0.57 UR	0.57 UR	0.57 UR
2-CHLOROETHYL VINYL ETHER	0.99 UR	0.99 UR	0.99 UR	0.99 UR
2-CHLOROTOLUENE	0.11 U	0.11 U	0.11 U	0.11 U
2-HEXANONE	0.41 U	0.41 U	0.41 U	0.41 U
4-CHLOROTOLUENE	0.18 U	0.18 U	0.18 U	0.18 U
4-ISOPROPYLTOLUENE	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW45A-032012	MSA-SW45B-032012	MSA-SW45C-032012	MSA-SW45D-032012
LABORATORY ID	240-9383-33	240-9383-34	240-9383-35	240-9383-36
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-45A	MSA-SW-45B	MSA-SW-45C	MSA-SW-45D
4-METHYL-2-PENTANONE	0.32 U	0.32 U	0.32 U	0.32 U
ACETONE	2 J	1.1 U	1.1 U	1.1 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
BROMOCHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U
BROMODICHLOROMETHANE	0.15 U	0.15 U	0.15 U	0.15 U
BROMOFORM	0.64 U	0.64 U	0.64 U	0.64 U
BROMOMETHANE	0.41 U	0.41 U	0.41 U	0.41 U
CARBON DISULFIDE	0.13 U	0.13 U	0.13 U	0.13 U
CARBON TETRACHLORIDE	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U
CHLORODIBROMOMETHANE	0.18 U	0.18 U	0.18 U	0.18 U
CHLOROETHANE	0.29 U	0.29 U	0.29 U	0.29 U
CHLOROFORM	0.16 U	0.16 U	0.16 U	0.16 U
CHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.3 U
CIS-1,2-DICHLOROETHENE	2.6	2.8	0.9 J	0.63 J
CIS-1,3-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U
DIBROMOMETHANE	0.28 U	0.28 U	0.28 U	0.28 U
DICHLORODIFLUOROMETHANE	0.31 U	0.31 U	0.31 U	0.31 U
DIISOPROPYL ETHER	1.5 U	1.5 U	1.5 U	1.5 U
ETHYL TERT-BUTYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U
ETHYLBENZENE	0.17 U	0.17 U	0.17 U	0.17 U
HEXACHLOROBUTADIENE	0.3 U	0.3 U	0.3 U	0.3 U
ISOPROPYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.24 U	0.24 U	0.24 U	0.24 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW45A-032012	MSA-SW45B-032012	MSA-SW45C-032012	MSA-SW45D-032012
LABORATORY ID	240-9383-33	240-9383-34	240-9383-35	240-9383-36
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-45A	MSA-SW-45B	MSA-SW-45C	MSA-SW-45D
N-BUTYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U
N-PROPYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U
O-XYLENE	0.14 U	0.14 U	0.14 U	0.14 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.11 U	0.11 U	0.11 U	0.11 U
TERT-AMYL METHYL ETHER	0.067 U	0.067 U	0.067 U	0.067 U
TERT-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
TERTIARY-BUTYL ALCOHOL	3.9 U	3.9 U	3.9 U	3.9 U
TETRACHLOROETHENE	0.29 U	0.29 U	0.29 U	0.29 U
TOLUENE	0.13 U	0.13 U	0.13 U	0.13 U
TOTAL XYLENES	0.28 U	0.28 U	0.28 U	0.28 U
TRANS-1,2-DICHLOROETHENE	0.34 J	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.19 U	0.19 U	0.19 U	0.19 U
TRICHLOROETHENE	3.2	3.3	1	0.71 J
TRICHLOROFLUOROMETHANE	0.21 U	0.21 U	0.21 U	0.21 U
VINYL ACETATE	0.19 UR	0.19 UR	0.19 UR	0.19 UR
VINYL CHLORIDE	0.62	0.91	0.25 J	0.22 U
FILTERED METALS (ug/l)				
ANTIMONY	0.24 B	0.25 B	0.25 B	0.24 B
ARSENIC	1.3 J	1.1 J	1.1 J	1 J
BARIUM	25	25	25	26
BERYLLIUM	0.2 U	0.2 U	0.2 U	0.2 U
CADMIUM	0.22 B	0.22 B	0.16 B	0.13 B
CHROMIUM	0.71 U	0.71 U	0.71 U	0.71 U
COBALT	0.2 B	0.2 B	0.083 B	0.093 B
COPPER	3.3	3.4	3	3.1
LEAD	0.18 U	0.18 U	0.18 U	0.18 U
MERCURY	0.12 U	0.12 U	0.12 U	0.12 U

TABLE C-1
CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - MARCH 2012
FROG MORTAR CREEK
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW45A-032012	MSA-SW45B-032012	MSA-SW45C-032012	MSA-SW45D-032012
LABORATORY ID	240-9383-33	240-9383-34	240-9383-35	240-9383-36
SAMPLE DATE	3/20/2012	3/20/2012	3/20/2012	3/20/2012
LOCATION	MSA-SW-45A	MSA-SW-45B	MSA-SW-45C	MSA-SW-45D
MOLYBDENUM	0.78 B	0.74 B	0.75 B	0.87 B
NICKEL	1.8 J	1.8 J	1.5 J	1.5 J
SELENIUM	0.57 U	0.57 U	0.57 U	0.57 U
SILVER	0.08 U	0.08 U	0.08 U	0.08 U
THALLIUM	0.14 U	0.14 U	0.14 U	0.23 B
TUNGSTEN	0.37 U	0.37 U	0.37 U	0.37 U
VANADIUM	0.46 J	0.44 U	0.44 U	0.44 U
ZINC	6.2 J	8.3 J	6.5 J	7.3 J
MISCELLANEOUS PARAMETERS (ug/l)				
HEXAVALENT CHROMIUM	0.069 L	0.069 L	0.075 L	0.085 L

U - Not detected at listed detection limit.
B - Laboratory blank contamination.
J - Positive result is considered estimated as a result of technical noncompliance.
UJ - Nondetect result is considered estimated as a result of technical noncompliance.
L - Positive result is considered estimated biased low.
UR - Rejected nondetect result due to technical noncompliance.
ug/l - micrograms per liter.