

Targeted Brownfields Assessment

Nu Style Franklin, Massachusetts

Targeted Brownfields Assessment
EPA Task Order No. 0078-SI-BZ-0100

REMEDIAL ACTION CONTRACT No. EP-S1-06-03

FOR

US Environmental Protection Agency Region 1

BY

Nobis Engineering, Inc.

Nobis Project No. 80078

September 2013

U.S. Environmental Protection Agency

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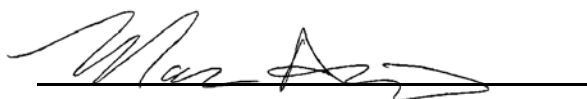
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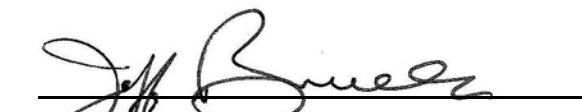
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FORMER NU STYLE SITE
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1.0 INTRODUCTION

This Targeted Brownfields Assessment (TBA) Report was prepared by Nobis Engineering, Inc. (Nobis) for the United States Environmental Protection Agency (EPA) under contract No. EP-S1-06-03, Task Order No. 0078-SI-BZ-0100. This TBA Report addresses the summary of assessment and data collection activities conducted by Nobis at the Former Nu Style Site (Site) located at 87 Grove Street, Franklin, Massachusetts. A Locus Plan depicting the Site location is included as Figure 1.

This TBA Report is in accordance with the EPA-approved Field Task Work Plan (FTWP/QAPPA) for the site. Nobis submitted the Final FTWP/QAPPA to EPA on December 5, 2012. An adjustment to the FTWP/QAPPA was developed during a February 26, 2013 conference call between EPA, Nobis, and the Town of Franklin's environmental consultant. This adjustment removed some of the chemical analyses and the borehole geophysical investigation, and added shallow and deep well couplets at six locations.

The objective of this TBA was to evaluate the extent of shallow bedrock groundwater contamination in the former boiler area. The results of the investigation will be used to support a Remedial Action Outcome (RAO) that is being prepared by the Town's consultant. Additionally, this data was used to develop a remedial cost estimate.

In order to achieve the TBA objectives, Nobis developed and implemented a TBA program that included the following elements:

- Historic data analysis;
- Shallow/deep bedrock monitoring well couplet installations;
- Soil and groundwater sample collection; and
- Remedial cost estimation

2.0 KEY TEAM MEMBERS

This project team represents the individuals that were responsible for the stated tasks. Jim Byrne is the EPA Task Order Project Officer (TOPO) and Diane Belliveau is the Brownfields Contact for the Massachusetts Department of Environmental Protection (MassDEP) – Central Region. Marc Bouvier managed Nobis and subcontractor tasks and Heather Ford monitored

project quality. Gail DeRuzzo coordinated with the analytical laboratory and managed data validation activities. Adam Roy, David Gorhan, and Jeff Brunelle were jointly responsible for the implementation of all field activities as the Field Operations Leader (FOL). Con-Test Analytical Laboratory (Con-Test), located in East Longmeadow, Massachusetts, performed the soil, groundwater, and investigation-derived waste (IDW) disposal characterization analyses. Crawford Drilling Services, Inc. of Westminister, Massachusetts performed the drilling and monitoring well installations.

3.0 BACKGROUND

The Nu-Style site is located at 87 Grove Street, Franklin, Massachusetts, and consists of two parcels (Franklin Tax Assessor's Map 276, Lots 22 and 27) totaling approximately 1.2 acres. The Site is in a mixed-use (industrial/commercial/residential) area of Franklin known as Unionville.

The Site abuts a commercial operation to the north, Grove Street to the east, a commercial operation to the south, and Old Forge Hill Road and Mine Brook to the west. Lot 22 consists of a vacant one-and a half story building. Lot 27, which Mine Brook bisects into northern and southern portions, consists of the remains of a former two-story industrial building (on the northern portion), the remnants of a small dam, and a paved parking lot (on the southern portion). Figure 2 provides a site plan.

The former industrial building was demolished in the Fall/Winter of 2012. As part of the demolition, the southern wall of the former industrial building was reused as a retaining wall for much of the building demolition debris. The remainder of the area was filled and brought to grade. The northern portion of Lot 27 is generally flat, and at the same elevation as Grove Street, and is covered with mulch material.

3.1 Contaminants of Concern

The principle contaminants of concern (COCs) at the Site include VOCs (principally chlorinated VOCs), and lead Site operations. Prior to demolition, the former industrial building contained asbestos-containing materials (ACM), lead-based paint (LBP), and polychlorinated biphenyl (PCB)-containing building materials.

3.2 Historic Site Usage

The former industrial building was constructed in approximately 1900. The textile manufacturer Unionville Woolen Mills initially occupied the building. Following Unionville Woolen Mills' operations, a paint manufacturer (Franklin Paint Company) occupied the Site. The specific operations employed by these owners involved the manufacture or on-site use of hazardous materials, including dyes, paints, and solvents, as well as the use of coal and/or oil for building and process heat.

In the 1950s, Grove Street was constructed along the eastern portion of the Site. At the time, the eastern portion of Lot 27 (upstream of the dam) and portions of Lot 26 were part of the Mine Brook mill pond. Portions of the former industrial building were constructed over the pond. At some point in the 1960s, the submerged portions of Lots 26 and 27 were filled; however, according to previous reports, the origin of the fill could not be determined.

In 1969, Nu-Style Company, Inc. and Image Jewelry initiated manufacture of costume jewelry on the Site. Operations in use at this time included metal plating, degreasing, and other metalworking and finishing operations. Additionally, at least five underground storage tanks (USTs) with a total capacity of approximately 15,000 gallons of petroleum were utilized on-site.

Nu-Style vacated the building in approximately 1989, and abandoned numerous containers of hazardous materials, as well as contaminated process equipment. In 1991, Nu-Style declared bankruptcy, and the property ownership defaulted to the Federal Deposit Insurance Corporation (FDIC).

3.3 Previous Site Investigations

Environmental investigations conducted in 1991 reported concentrations of chlorinated VOCs in soil and groundwater. The contractor at the time inferred that the contamination resulted from a surface release.

Following an inspection by the Town and the Massachusetts Department of Environmental Protection (MassDEP), abandoned hazardous materials were observed in containers and process equipment. The discovery was referred to EPA in 1992, and EPA conducted a removal assessment shortly thereafter. Based on the results of the removal assessment, EPA removed

containers of chromic acid, cyanides, nickel sulfate, chlorinated solvents, and lubricating oil from the site, and remaining petroleum product from the UST.

In 2002 and 2005, the Town foreclosed and took ownership via the tax-title process.

In May 2006, Fuss & O'Neil (F&O) conducted a Phase I Environmental Site Assessment (ESA) at the Site. This ESA was updated in February 2007. Recognized Environmental Conditions (RECs) identified at the Site included:

- Materials used and stored at the site associated with jewelry manufacturing included cyanides, metals, chlorinated solvents, and petroleum products; however, additional substances associated with textile manufacturing may also have been used. Files indicated that numerous drums of hazardous waste and petroleum products were located outside of the site buildings;
- At least one UST was present on the western side of the Lot 27 building. In addition, a heating oil tank reportedly existed in an underground bunker on the same side of the building;
- A small tunnel containing slow-moving water, consistent with a millrace, was present beneath the vacant building on Lot 22. Town maps suggested that the tunnel conveyed Mine Brook water from an entry point east of the Site, through Lot 27 and beneath the former industrial building, beneath the vacant Lot 22 building, and discharged to Mine Brook somewhere west of the Site. The tunnel may have been used by the former woolen mill for direct waste disposal to Mine Brook;
- Releases of chlorinated solvents to soil and groundwater were identified on Lot 26, which abutted the site to the south.
- The southern (and eastern) portion of the Site formerly contained a pond that was filled circa 1960. The nature and origin of the fill are not known.

In 2005, the Town Building Commissioner inspected the former industrial building, and condemned it due to the poor structural conditions.

Between 2006 and 2010, a series of environmental assessments on the property were completed on behalf of the Town. As a result of these assessments, releases of chlorinated VOCs and metals to surface soil on the northern portion of the property, and dissolved-phase VOC and lead migrating in both the overburden and bedrock aquifers at the site were identified. Investigations conducted in Mine Brook documented the presence of polycyclic aromatic hydrocarbons (PAHs) at concentrations greater than risk-based threshold values. The Town reported these releases to MassDEP in May 2007, and the site was assigned Release Tracking Number (RTN) 2-16694.

The Town removed the remaining UST from the site in May 2007 and commissioned a building materials study to evaluate the presence of potential lead paint, asbestos, and other hazardous materials in the mill building. The investigation identified LBP, ACM, and mercury-containing and PCB-containing building materials in the former industrial building.

A Phase II Site Assessment Report was issued in September 2010 that summarized the findings, to date. Figure 3 provides a summary of the groundwater results for this investigation. This report did not completely meet expectations under the Massachusetts Contingency Plan (MCP), in that it did not fully investigate the nature and extent of the chlorinated VOC contamination in bedrock groundwater. To facilitate such an investigation, the former industrial building required demolition.

In May 2012, a Release Abatement Measure (RAM) Plan was submitted to MassDEP. The plan outlined the details and regulatory framework for the demolition of the former industrial building, and the excavation and removal of VOC and lead-contaminated soil.

The RAM was completed between May 2012 and February 2013. Details pertaining to the execution of the RAM are presented in Section 3.4 of this report.

3.4 Remedial Activities

The following is a summary of removal and remedial actions undertaken at the Site:

- 1992 – EPA completed a time-critical removal action under the National Contingency Plan (NCP). The removal action removed quantities of chromic acid, cyanide, nickel

sulfate, chlorinated solvents, lubricating oil, remaining petroleum product from the UST, and other assorted contaminated materials.

- May 2007 – A 5,000-gallon No. 2 fuel oil UST was removed from a small alcove area in the southwestern portion of the former industrial building. Soil samples collected from the UST grave did not contain concentrations of hazardous materials in excess of applicable criteria. No contaminated soil was removed from the Site during this UST removal.
- 2012-2013 – A RAM was completed between May 2012 and February 2013 which included the following:
 - o Erosion and sediment controls, erection of a scaffold over Mine Brook to serve as a demolition debris shield in accordance with Order of Conditions;
 - o Controlled demolition of the former industrial building such that ACM, LBP, PCB-containing materials, and mercury containing fixtures were segregated. Note that none of these materials was abated prior to building demolition due to the poor structure integrity. A waiver (No. C-AW-12-181) of pertinent portions of the Massachusetts Contingency Plan (MCP) was granted by MassDEP to allow the demolition without prior abatement.
- Brick and masonry were segregated and crushed for use as backfill in the former industrial building basement area. The area was brought to current grade using backfill provided by the Town and topped by a mulch layer.
- The southern wall of the former industrial building was retained, and reinforced by a steel-reinforced cast-in-place wall gravity wall. This wall added mass to assist in retaining the backfill soil and crushed debris.
- During building demolition, a stone-lined underground tunnel was encountered. The tunnel was approximately 150 feet long, 8-feet wide, and was oriented east-west.

- Water was observed within the tunnel; however, it was determined that this water was the result of groundwater intrusion and not a surface water body. Samples of this water contained concentrations of lead above applicable MCP Method 1 standards.
 - The solid media below the water within the tunnel were not classified as surface water–related sediment. Samples collected of this material exhibited concentrations of PAHs and metals (chromium and lead), which were not consistent with those detected elsewhere on the Site.
 - The solid media was removed and the tunnel was collapsed and backfilled. Approximately 116 tons of PAH-contaminated sediment material were transported to ESMI of New Hampshire for treatment via low-temperature thermal desorption.
- o VOC and lead-contaminated soil removal and disposal
 - Three areas excavated: the Northwest Corner Excavation Area (to a depth of 4 feet); the Northeast Corner Excavation Area (to a depth of 6 feet); and the B-4 Excavation Area (to a depth of 7 feet).
 - Approximately 407 tons of contaminated soil were excavated and transported to ESMI of New York for treatment via low-temperature thermal desorption.
 - Damaged and subsequently repaired a previously unknown active sewer pipe servicing an adjacent business.
 - Although most of the soil samples collected from the excavation limits were below MCP Method 1 S-1 soil standards, a soil sample collected from the northern extent of the Northwest Corner Excavation Area contained chlorinated VOCs at concentrations that exceeded Method 1 S-1 soil standards. Further excavation in this area was halted due to the presence of additional subsurface utilities.

4.0 SUMMARY OF TARGETED BROWNFIELD ASSESSMENT INVESTIGATIONS

Between May 6, 2013 and May 10, 2013, Nobis oversaw the installation of 12 bedrock monitoring wells throughout Lot 27 to characterize the release of chlorinated VOCs to groundwater at the Site. Nobis performed two rounds of groundwater sample collection on May 15, 2013, August 20, 2013, and August 21, 2013. The investigations were performed in accordance with the EPA-approved Site-Specific QAPP Addendum dated December 2012.

4.1 Boring Advancement and Soil Sampling

Between May 6, 2013 and May 10, 2013, Nobis supervised Crawford Drilling Services during the advancement of 12 borings (at six locations) completed as shallow and deep monitoring well couplets. These couplets were identified as MW-101S and MW-101D through MW-106S and MW-106D. Figure 4 depicts boring locations.

Crawford Drilling Services mobilized a truck-mounted Diedrich D120 rotary drill rig to advance the soil borings. Overburden drilling utilized a 5-1/4-inch hollow-stem auger. Several areas of the Site were backfilled with demolition debris, which was drilled through. In areas that were not backfilled with demolition debris, a split-spoon soil sampler was used to collect continuous soil samples to the weathered bedrock surface. Classification of subsurface soil samples was in accordance with Modified Burmeister methods.

Nobis conducted field screening of soil for Total VOCs (TVOCs) using a MiniRAE 2000 photoionization detector (PID) calibrated to an isobutylene gas standard and the MassDEP soil headspace screening method.

The field geologist used elevated PID measurements, visual, or olfactory evidence of contamination as a guide for collecting soil samples for laboratory analysis. If the field geologist did not detect evidence of contamination, a soil sample from immediately above the weathered bedrock surface was collected. No samples of the demolition debris were collected.

Collected soil samples were placed on ice, and transported via courier under chain of custody to Con-Test for laboratory analysis of:

- VOCs by MassDEP Compendium of Analytical Methods (CAM) Method 8260B; and
- Priority Pollutant Metals (PPM), vanadium and barium by CAM Methods 6010C/7471A

The following table provides a summary of collected soil samples:

Soil Boring	Sample Identification	Sample Depth (feet below grade)	Comments
MW-101D	MW101D-0608	6-8	Collected from above the bedrock surface (No evidence of contamination observed)
MW-103D	MW103D-0406	4-6	Collected from above the bedrock surface (No evidence of contamination observed) (field duplicate)
MW-105D	MW105D-1012	10-12	Collected from above the bedrock surface (8.3 ppmv PID response)
MW-106D	MW106D-0406	4-6	Collected from above the bedrock surface (No evidence of contamination observed)

The boreholes were continued to their targeted depth using 3-7/8-inch air hammer drilling. The drill cuttings generated by the hollow-stem auger and air hammer drilling were staged nearby for later reuse as borehole annular space backfill. The overburden material was not well consolidated and the drill cuttings were returned to the borehole.

4.2 Monitoring Well Installation and Development

Crawford Drilling Services completed each of the 12 soil borings as 2-inch monitoring wells. The well installation depths were determined in the field based on the evidence of possible water-bearing fracture presence. Each of the wells was installed using Schedule 40 polyvinyl chloride (PVC) riser and screen sections, and each was set with a 5-foot 10-slot screen section. A clean, No. 0 filter sand was placed around the wellscreen to a minimum of two feet of sand above the screen. Sufficient bentonite was added to the borehole above the filterpack to seal the borehole to the bedrock surface. The remainder of the borehole annular space was filled with sand and drill cuttings. Each well was completed using an expandable well cap and a protective roadbox casing.

The following table provides a summary of the monitoring well installations.

Monitoring Well	Measuring Point Elevation ^(a)	Depth to Top of Screen (feet)	Depth to Bottom of Screen (feet)
MW-101S	97.41	13	18
MW-101D	97.36	30	35
MW-102S	102.02	25	30
MW-102D	101.67	14	19
MW-103S	101.89	15	20
MW-103D	101.77	20	25
MW-104S	101.91	14	19
MW-104D	101.56	23	28
MW-105S	100.97	19	24
MW-105D	101.01	28	33
MW-106S	99.57	11	16
MW-106D	99.52	27	32

Notes:

- (a) – Measuring point based on a benchmark (top of MW-14 PVC; which according to previous investigations is at 104.40 feet above arbitrary benchmark)

The soil boring logs and monitoring well completion logs are included in Appendix A.

On May 14, 2013, Nobis conducted a synoptic water level round, which included existing wells that were able to be located. Following water level measurement, Nobis developed the new and several existing wells using a combination of over-pumping and surging. As the new monitoring wells were drilled using air hammering, no circulation fluids were lost during the drilling. Therefore, the targeted development volume was five times the well volume; however, several wells (MW-103S, MW-103D, MW-105D, and MW-106S) did not recharge sufficiently to reach the targeted volume. The remaining wells attained their targeted volume.

The purged groundwater was transferred to 55-gallon drums for later characterization and disposal.

4.3 Groundwater Sampling

Groundwater sampling was performed at the site in May and August 2013. Details of each sampling effort are provided below.

4.3.1

May 2013 Groundwater Sampling

On May 15, 2013, Nobis collected groundwater samples from the newly installed wells as well as existing well MW-14. Nobis used a Geotech Model II peristaltic pump, and followed the USEPA Region I Low Flow/Low Stress method to collect the samples, with the exception of MW-106S. MW-106S recharged extremely slowly, and the sample was collected using a disposable bailer.

Purging rates were maintained at approximately 100 milliliters per minute (ml/min). Discharge water was monitored for stabilization of field indicator parameters (i.e., pH, temperature, specific conductance, dissolved oxygen, oxidation/reduction potential [ORP], and turbidity) using a Yellow Springs Instruments (YSI) multi-parameter sonde flow-through cell, and a Hach 2100q turbidimeter. Dedicated polyethylene tubing with the inlet located approximately at the mid-point of the water column was used to collect samples from each well. Nobis monitored the field indicator parameters during well purging at 5-minute intervals until the well was sufficiently stabilized. Nobis recorded the measured field indicator parameters on low-flow field log sheets, which are included in Appendix B.

Upon well stabilization, the discharge line from the pump was disconnected from the YSI flow cell, and samples were collected directly from the peristaltic pump discharge tube into pre-preserved containers provided by Con-Test for the following analyses:

- VOCs by MassDEP Compendium of Analytical Methods (CAM) Method 8260B; and
- Priority Pollutant Metals (PPM), vanadium and barium by CAM Methods 6010C/7471A

Nobis field-filtered the metals samples using in-line 0.45-micron polyethylene filters.

During groundwater sampling, Nobis collected a sample of the purge water investigation-derived waste (IDW) for waste characterization analyses.

Nobis field samplers placed the collected samples in coolers containing ice for temporary storage, and upon returning to the Nobis office, placed them in sample refrigerators. The Nobis

sample manager logged the samples onto a chain-of-custody form, and subsequently transferred them (while under custody) to the laboratory via laboratory-provided courier.

4.3.2 August 2013 Groundwater Sampling

On August 20 and 21, 2013, Nobis collected groundwater samples from the wells installed in May as well as existing wells MW-1, MW-2, MW-3, MW-14 and MW-17. Nobis used a Geotech Model II peristaltic pump, and followed the USEPA Region I Low Flow/Low Stress method to collect the samples, with the exception of MW-2 and MW-3. Both recharged extremely slowly, and the samples were collected using disposable bailers.

Purging rates were maintained at approximately 100 milliliters per minute (ml/min). Discharge water was monitored for stabilization of field indicator parameters using a YSI multi-parameter sonde flow-through cell, and a Hach 2100q turbidimeter. Dedicated polyethylene tubing with the inlet located approximately at the mid-point of the water column was used to collect samples from each well. Nobis monitored the field indicator parameters during well purging at 5-minute intervals until the well was sufficiently stabilized. Nobis recorded the measured field indicator parameters on low-flow field log sheets, which are included in Appendix B.

Upon well stabilization, the discharge line from the pump was disconnected from the YSI flow cell, and samples were collected directly from the peristaltic pump discharge tube into pre-preserved containers provided by Con-Test for analysis of VOCs by MassDEP Compendium of Analytical Methods (CAM) Method 8260B.

Nobis collected a sample of the purge water investigation-derived waste (IDW) for waste characterization analyses.

Nobis field samplers placed the collected samples in coolers containing ice for temporary storage, and upon returning to the Nobis office, placed them in sample refrigerators. The Nobis sample manager logged the samples onto a chain-of-custody form, and subsequently transferred them (while under custody) to the laboratory via laboratory-provided courier.

4.4 Investigation Derived Wastes

Nobis transferred the IDW purge water to three 55-gallon drums temporarily staged on the Site. Nobis collected a sample of this IDW on May 15, 2013 for waste characterization analyses. The waste characterization indicated that the IDW could be managed as non-hazardous, and will be transported off-site to an approved facility. Purge water resulting from the August 2013 groundwater sampling event was also placed in 55-gallon drums temporarily staged on the Site. On September 25, 2013, the IDW was shipped offsite by ENPRO Services, as non-Resource Conservation and Recovery Act and non-Department of Transportation-regulated material. The shipping documentation is included in Appendix E.

5.0 SUMMARY OF INVESTIGATION RESULTS

This section provides a summary of the soil and groundwater TBA investigation results.

Consistent with previous investigations, soil analytical results included in Table 1 are compared against applicable MCP Method 1 Soil Standards. Groundwater data are summarized in Table 2, and are compared to MCP Method 1 GW-2 and GW-3 Groundwater Standards.

5.1 Site Geology and Hydrogeology

Nobis encountered similar geology to what was encountered during previous investigations. Fill materials encountered included demolition debris, black and brown fine to coarse sand with varying amounts of gravel, silt, ash, brick, concrete, and wood. Bedrock was encountered at between 8.5 and 12 feet below grade. Bedrock beneath the Site is characterized as Lower Silurian or Upper Ordovician in age Quincy Granite, containing riebeckite and aegirine.

During the advancement of the air hammer, the Nobis field geologist noted possible water-bearing fractures. The table below provides a summary of those observations. Due to the drilling method, orientation and evaluation of fractures could not be performed.

Monitoring Well ID	Approximate Fracture Depth (Feet Below Ground Surface)	Approximate Fracture Elevation ⁽¹⁾
MW-101D	19.00	78.36
MW-101D	33.00	64.36
MW-101S	15.50	81.91
MW-102S	16.00	86.02
MW-103S	16.00	85.89
MW-104D	19.00	82.56
MW-104D	26.00	75.56
MW-104S	16.00	85.91
MW-105D	23.00	78.01
MW-105D	32.00	69.01
MW-105S	16.00	84.97
MW-105S	23.00	77.97
MW-106D	23.00	76.52
MW-106D	28.50	71.02
MW-106D	32.00	67.52
MW-106S	13.00	86.57
MW-106S	15.00	84.57

Notes:

1 – Approximate elevation is based on the site-specific benchmark of 100.

During groundwater sample collection, depths to groundwater ranged from 4.5 to 10.7 feet below measuring point. The following table summarizes the groundwater depths and approximate groundwater surface elevations.

Monitoring Well ID	Overburden/ Bedrock	Measuring Point Elevation ⁽¹⁾	Depth to Groundwater (feet below measuring point)	Approximate Groundwater Elevation ⁽¹⁾
May 2013 Sampling Round				
MW-101S	Bedrock	97.41	6.41	91.00
MW-101D	Bedrock	97.36	6.50	90.86
MW-102S	Bedrock	102.02	9.23	92.79
MW-102D	Bedrock	101.67	12.68	88.99
MW-103S	Bedrock	101.89	9.30	92.59
MW-103D	Bedrock	101.77	11.68	90.09
MW-104S	Bedrock	101.91	10.29	91.62
MW-104D	Bedrock	101.56	9.77	91.79
MW-105S	Bedrock	100.97	9.37	91.60

Monitoring Well ID	Overburden/ Bedrock	Measuring Point Elevation ⁽¹⁾	Depth to Groundwater (feet below measuring point)	Approximate Groundwater Elevation ⁽¹⁾
MW-105D	Bedrock	101.01	9.75	91.26
MW-106S	Bedrock	99.57	5.17	94.40
MW-106D	Bedrock	99.52	5.78	93.74
MW-1	Overburden	100.35	4.43	95.92
MW-2	Overburden	98.54	8.66	89.88
MW-14	Bedrock	104.40	12.41	91.99
MW-17	Overburden	100.37	4.18	96.19
August 2013 Sampling Round				
MW-101S	Bedrock	97.41	6.53	90.88
MW-101D	Bedrock	97.36	6.04	91.32
MW-102S	Bedrock	102.02	9.07	92.95
MW-102D	Bedrock	101.67	9.94	91.73
MW-103S	Bedrock	101.89	9.06	92.83
MW-103D	Bedrock	101.77	9.81	91.96
MW-104S	Bedrock	101.91	10.29	91.62
MW-104D	Bedrock	101.56	9.81	91.75
MW-105S	Bedrock	100.97	9.43	91.54
MW-105D	Bedrock	101.01	9.25	91.76
MW-106S	Bedrock	99.57	5.27	94.30
MW-106D	Bedrock	99.52	5.87	93.65
MW-1	Overburden	100.35	4.73	95.62
MW-2	Overburden	98.54	8.85	89.69
MW-3	Overburden	99.73	8.65	91.08
MW-14	Bedrock	104.40	10.71	93.69
MW-17	Overburden	100.37	4.53	95.84

Note:

1 – Approximate elevation is based on the site-specific benchmark of 100.

In general, the highest overburden groundwater elevations were measured south of the brook in monitoring wells MW-1 and MW-17. With some exceptions, the groundwater elevations measured in May 2013 were similar to those measured in August 2013. Overburden groundwater flow direction could not be determined using the four widely spaced data points; however, it is likely that the groundwater flow is similar to that which was presented in previous investigations (when more overburden monitoring wells were available). Groundwater flow in the shallow bedrock aquifer is towards the west-southwest.

As summarized in the table below, vertical gradients between the shallow and deeper bedrock zones indicate moderate downward flow in the MW-102 and MW-103 well clusters. Minimal

vertical flow was measured in the remaining clusters, suggesting that the fractured bedrock aquifer is likely interconnected.

Monitoring Well ID	Approximate August 2013 Groundwater Elevation ⁽¹⁾	Vertical Gradient
MW-101D/MW-101S	91.32/90.88	-0.026
MW-102D/MW-102S	91.73/92.95	0.112
MW-103D/MW-103S	91.96/92.83	0.167
MW-104D/MW-104S	91.75/91.62	-0.014
MW-105D/MW-105S	91.76/91.54	-0.024
MW-106D/MW-106S	93.65/94.30	0.040

Note:

1 – Approximate elevation is based on the site-specific benchmark of 100.

5.2 Soil Sample Results

The following is a summary of TBA soil analytical results as summarized in Table 1:

- Previous investigations performed by others have indicated that the Site is not located within a public water supply protection area or a potentially-productive aquifer. Therefore, MCP Method 1 GW-1 risk standards do not apply. The nearest public water supplies, as of 2007, were located approximately 1.5 miles southeast of the Site adjacent to Beaver Pond. A medium-yield potentially productive aquifer is located approximately 500-feet east of the Site.
- Several low concentrations of chlorinated VOCs were reported in soil samples collected from either side of Mine Brook.
- One contaminant, cis-1,2-dichloroethylene was reported at 12 milligrams per kilogram (mg/kg), which is in excess of MCP Method 1 soil standards (S-2 and S-3 soils in a GW-2 area). This sample was collected from MW-105D immediately above the weathered bedrock surface. This sample also contained trans-1,2-dichloroethylene, TCE, PCE, and vinyl chloride at concentrations well below the established MCP soil standards. No other soil samples contained detectable concentrations of cis-1,2-dichloroethylene.

- Low concentrations of metals (including lead) were reported in all soil samples collected, none of which exceeded applicable MCP soil standards.

5.3 Groundwater Sample Results

The following is a summary of groundwater analytical results as summarized in Table 2 and presented on Figure 5:

- Samples collected in May 2013 contained chlorinated VOCs including 1,1-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, PCE, 1,1,1-trichloroethane, and TCE, were reported in a majority of the monitoring wells sampled. Other VOCs detected were acetone (suspected laboratory contaminant), sec-butylbenzene, and methyl tert-butyl ether. In August, similar chlorinated VOCs were detected. In addition, 1,1,2-trichloroethane and vinyl chloride were also detected. Acetone was not detected in any of the samples collected in August.
- Of the detected VOCs, PCE and TCE exceeded the MCP Method 1 GW-2 standards during both sampling events. None of the VOCs detected in May or August exceeded the MCP Method 1 GW-3 standards.
- PCE concentrations from both sampling events were generally significantly higher in the deeper bedrock monitoring wells compared to the more-shallow bedrock wells. The shallow bedrock groundwater PCE results exceeded GW-2 standards in monitoring well MW-104S (94 ug/L in May) and MW-105S (140 ug/L in May and 86 ug/L in August). Both monitoring wells are located in the southwestern portion of the former industrial building. The deep bedrock groundwater PCE results exceeded GW-2 standards in monitoring wells MW-101D, MW-103D, and MW-104D in May and August.
- Although elevated, the maximum concentrations of chlorinated VOCs detected in monitoring well MW-101D are not in excess of 1% of the effective solubility of an assumed dense non-aqueous phase liquid (DNAPL) comprised of TCE, PCE, and 1,1,1-trichloroethane. Based on these analytical results, a DNAPL presence in the region near monitoring well MW-101D, along the southern boundary of Lot 27, is not anticipated; however, the groundwater concentrations in most of the monitoring wells increase with

increasing depth, suggesting the potential for the possible presence of DNAPL in the deeper bedrock aquifer.

- TCE concentrations exhibited a similar pattern to PCE in that higher concentrations were reported in the deeper bedrock monitoring wells than what was detected in the shallower bedrock groundwater samples. The TCE concentration in the shallow bedrock sample collected from MW-101S was the lone shallow bedrock groundwater sample result that exceeded MCP GW-2. MW-101S, located approximately 15 feet north of an occupied commercial building on Lot 26, contained TCE at 390 and 260 micrograms per liter (ug/L) in May and August, respectively, which is an order of magnitude greater than the GW-2 standard. Deep bedrock groundwater sample results exceeded MCP GW-2 standards in MW-101D, MW-102D, MW-103D, and MW-104D.
- VOC concentrations of detected VOCs did not exceed criteria in overburden wells MW-1, MW-2, MW-3 or MW-17, which were only sampled in August.
- None of the metals results exceeded MCP groundwater standards.

5.4 Data Validation

Nobis Engineering, Inc. performed a Tier I Modified data validation in accordance with the *Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 Criteria*, on the organic and inorganic analytical data for soil and groundwater samples collected by Nobis. A summary memorandum and associated laboratory reports are included as Appendix C. A data validation report is being provided to EPA under separate cover. It has been determined that the data have achieved data quality objectives (DQO) and are deemed as usable.

6.0 CONCLUSIONS AND RECOMMENDATIONS

- A majority of the soil sample analytical results collected during the TBA did not contain elevated concentrations of VOCs or metals.
- One soil sample collected from MW-105D at between 10 and 12 feet below grade (i.e., immediately above the weathered bedrock surface), contained cis-1,2-dichloroethylene

at 12 mg/kg. This concentration is well above the MCP Method 1 S2 and S3 standards for a GW-2 area. No other soil sample collected during the May sampling event contained cis-1,2-dichloroethylene. None of the detected concentrations of TCE or PCE in soil samples was of a similar magnitude to the MW-105D soil sample.

- PCE and TCE concentrations in both shallow and deep bedrock groundwater were reported throughout the Site. The deep bedrock groundwater samples contained higher contaminant concentrations than their counterpart shallow bedrock groundwater samples. As PCE and TCE both exhibit specific densities that are greater than that of water (e.g., 1), releases of these materials are expected to migrate vertically through the vadose zone into the saturated zone, and also into fractured bedrock.
- PCE and TCE concentrations above MCP Method 1 GW-2 standards were primarily detected in deep bedrock groundwater samples; however, samples from one shallow, bedrock well, MW-101S, contained TCE at concentrations an order of magnitude greater than the GW-2 standard. Slightly elevated concentrations of PCE were also detected in two shallow bedrock locations, MW-104S and MW-105S, located in the western footprint of the former industrial building, on the north side of Mine Brook.
- The highest PCE and TCE concentrations were reported in deep bedrock groundwater samples collected from MW-101D, MW-103D, and MW-104D. These wells are located along a north-south trending line. PCE and TCE concentrations in MW-14 (a deep bedrock well), MW-102D, MW-105D, and MW-106D were not in excess of MCP Method 1 GW-2 standards, which suggests that the release(s) contributing to this elevated contamination were likely limited to the central and/or western portions of the Site.

The extent of Site contamination has not been delineated:

- As noted in the RAM Completion Report, due to the presence of active underground utilities, the extent of soil contamination in the northern portion of the Site has not yet been delineated or remediated. A minimum of three additional soil borings should be advanced to the approximate bedrock surface in areas located north of the Northwest Corner Excavation.

- The cis-1,2-dichloroethylene contamination reported in soil from MW-105D has not yet been delineated. A minimum of four soil borings should be advanced to the approximate bedrock surface to evaluate nature/extent of this contamination. An overburden groundwater monitoring well should be installed in a downgradient area of this contamination.
- The limit of bedrock groundwater chlorinated VOC contamination in areas south and west of the Site has not yet been determined. Additionally, the vertical nature and extent of the contamination in bedrock has not been determined. The increasing concentrations of PCE and TCE with increasing depth suggest that greater concentrations may be encountered in deeper fractured bedrock. Approximately three bedrock borehole couplets (two located south and west of the plume area, and one located proximal to MW-3) should be advanced. The due to the possibility of NAPL presence, target borehole depths should be carefully considered. Additional hydrogeologic investigations should be performed to evaluate fracture orientation, fracture flow, possible interconnectivities, and targeted zone groundwater sampling. Once the hydrogeologic testing is completed, construct monitoring wells based on the findings.
- Due to the presence of elevated TCE concentrations in shallow bedrock groundwater samples collected from monitoring well MW-101S, a minimum of three soil gas samples should be collected from the MW-101 monitoring well couplet area. These results could be used to assist in the evaluation of the potential for vapor intrusion into the nearby commercial building.

Recommendations	Estimated Cost
1. Additional characterization north of the Northwest Corner Excavation Area	\$10,000
2. Additional characterization of cis-1,2-dichloroethylene contamination around the MW-105 couplet	\$8,000
3. Additional bedrock contamination characterization	\$65,000
4. Soil gas investigation	\$6,000
Estimated Range of Total Costs	\$89,000

T A B L E S

Table 1
Summary of Soil Sample Analytical Results
Former Nu Style Site
Franklin, Massachusetts

Sample Location Depth Sample Date Lab number						MW103D-0406		MW103D-0406 (Dup)		MW105D-1012		MW101D-0608		MS106D-0406	
						4-6		4-6		10-12		6-8		4-6	
						05/07/2013		05/07/2013		05/08/2013		05/08/2013		05/09/2013	
						13E0369-01		13E0369-02		13E0369-04		13E0369-05		13E0369-06	
	S-2/ GW 2	S-2/ GW 3	S-3/ GW 2	S-3/ GW 3	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Volatile Organic Compounds															
cis-1,2-Dichloroethylene	0.4	500	0.4	500	mg/Kg	0.0023	U	0.0024	U	12		0.002	U	0.0027	U
trans-1,2-Dichloroethylene	1	1000	1	3000	mg/Kg	0.0023	U	0.0024	U	0.0097		0.002	U	0.0027	U
Tetrachloroethylene	10	200	10	1000	mg/Kg	0.0035		0.0036		0.064		0.002	U	0.0027	U
Trichloroethylene	2	700	2	2000	mg/Kg	0.0023	U	0.0024	U	0.085		0.013		0.0027	U
Vinyl Chloride	0.7	4	0.7	30	mg/Kg	0.012	U	0.012	U	0.054		0.01	U	0.014	U
Metals															
Arsenic	20	20	20	20	mg/Kg	2.7	U	2.7	U	12		5.2		2.8	U
Barium	3000	3000	5000	5000	mg/Kg	43		46		35		60		23	
Cadmium	30	30	30	30	mg/Kg	0.35		0.37		0.64		0.53		0.28	U
Chromium	200	200	200	200	mg/Kg	29		15		5.4		27		5.3	
Copper	~	~	~	~	mg/Kg	10		13		6.4		57		3.5	
Lead	300	300	300	300	mg/Kg	49		43		7.2		20		5.1	
Nickel	700	700	700	700	mg/Kg	14		17		16		7.5		2.7	
Vanadium	1000	1000	1000	1000	mg/Kg	16		19		15		10		11	
Zinc	3000	3000	5000	5000	mg/Kg	93		76		67		52		22	
Mercury	30	30	30	30	mg/Kg	0.052		0.042		0.033	U	0.027	U	0.027	U

NOTES:

Only detections are summarized above.

U = Not detected above the lab reporting limits.

VALUE

Shading indicates a result which exceeds at least one Method 1 Soil Standard

Table 2
Summary of Groundwater Sample Analytical Results
Former Nu Style Site
Franklin, Massachusetts
Page 1 of 5

Sample Location				MW-1		MW-2		MW-3		GW-MW14		MW-14		MW-17		GW-MW101S		MW-101S	
Sample Date				08/21/2013		08/21/2013		08/21/2013		05/15/2013		08/21/2013		08/21/2013		05/15/2013		08/21/2013	
Lab number				13H0884-18		13H0884-12		13H0884-13		13E0614-01		13H0884-10		13H0884-17		13E0614-02		13H0884-11	
GW-2 GW-3 Units				Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Volatile Organic Compounds																			
Acetone	50000	50000	µg/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
sec-Butylbenzene	~	~	µg/L	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	1000	20000	µg/L	1	U	1	U	1	U	1	U	1	U	1	U	20		6.6	
1,1-Dichloroethylene	80	30000	µg/L	1	U	1	U	1	U	1	U	1	U	1	U	6.9		3.8	
cis-1,2-Dichloroethylene	100	50000	µg/L	1	U	7.2		1	U	1	U	1	U	1	U	3.5		4.1	
Methyl tert-butyl ether	50000	50000	µg/L	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene	50	30000	µg/L	1	U	18		24		1.5		1.8		1	U	45		44	
1,1,1-Trichloroethane	4000	20000	µg/L	1	U	1	U	1	U	1	U	1	U	1	U	17		22	
1,1,2-Trichloroethane	900	50000	µg/L	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethylene	30	5000	µg/L	1	U	17		16		2.7		3.7		1	U	390		260	
Vinyl Chloride	2	50000	µg/L	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Metals																			
Antimony	~	8000	µg/L	NA		NA		NA		1	U	NA		NA		1	U	NA	
Arsenic	~	900	µg/L	NA		NA		NA		0.4	U	NA		NA		0.4	U	NA	
Barium	~	50000	µg/L	NA		NA		NA		130		NA		NA		170		NA	
Beryllium	~	200	µg/L	NA		NA		NA		0.96		NA		NA		0.4	U	NA	
Cadmium	~	4	µg/L	NA		NA		NA		0.5	U	NA		NA		1.1		NA	
Chromium	~	300	µg/L	NA		NA		NA		1	U	NA		NA		1	U	NA	
Copper	~	~	µg/L	NA		NA		NA		29		NA		NA		20		NA	
Nickel	~	200	µg/L	NA		NA		NA		5	U	NA		NA		8.9		NA	
Thallium	~	3000	µg/L	NA		NA		NA		0.2	U	NA		NA		0.2	U	NA	
Zinc	~	900	µg/L	NA		NA		NA		11		NA		NA		200		NA	

NOTES: Only detections are summarized above.

NA = Not analyzed

U = Not detected above the lab reporting limits.

VALUE Shading indicates a result which exceeds at least one Method 1 Soil Standard

Table 2
Summary of Groundwater Sample Analytical Results
Former Nu Style Site
Franklin, Massachusetts
Page 2 of 5

Sample Location				GW-MW101D		MW-101D(Dup)		MW-101D		GW-MW102S		GW-MW102S(Dup)		MW-102S		GW-MW102D	
Sample Date				05/15/2013		08/21/2013		08/21/2013		05/15/2013		05/15/2013		08/20/2013		05/15/2013	
Lab number				13E0614-03		13H0884-09		13H0884-14		13E0614-04		13E0614-14		13H0884-01		13E0614-05	
GW-2	GW-3	Units		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Volatile Organic Compounds																	
Acetone	50000	50000	µg/L	10	U	100	U	10	U	10	U	10	U	10	U	10	U
sec-Butylbenzene	~	~	µg/L	1	U	10	U	1	U	4.9		5.2		2.5		1	U
1,1-Dichloroethane	1000	20000	µg/L	19		50		64		1	U	1	U	1	U	1	U
1,1-Dichloroethylene	80	30000	µg/L	7.5		19		26		1	U	1	U	1	U	1	U
cis-1,2-Dichloroethylene	100	50000	µg/L	6.3		16		20		1	U	1	U	1	U	1	U
Methyl tert-butyl ether	50000	50000	µg/L	1.1		10	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene	50	30000	µg/L	1600		1100		1400		1	U	1	U	1	U	2.6	
1,1,1-Trichloroethane	4000	20000	µg/L	57		340		410		1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	900	50000	µg/L	1	U	10	U	1.3		1	U	1	U	1	U	1	U
Trichloroethylene	30	5000	µg/L	1600		4600		4600		1	U	1	U	1	U	4.1	
Vinyl Chloride	2	50000	µg/L	2	U	20	U	2	U	2	U	2	U	2	U	2	U
Metals																	
Antimony	~	8000	µg/L	1	U	NA		NA		1.3		1.2		NA		1	U
Arsenic	~	900	µg/L	0.42		NA		NA		1.4		1.4		NA		0.8	
Barium	~	50000	µg/L	200		NA		NA		130		140		NA		76	
Beryllium	~	200	µg/L	2		NA		NA		0.4	U	0.4	U	NA		4.8	
Cadmium	~	4	µg/L	0.5	U	NA		NA		0.5	U	0.5	U	NA		0.5	U
Chromium	~	300	µg/L	1	U	NA		NA		1	U	1	U	NA		1	U
Copper	~	~	µg/L	27		NA		NA		14		12		NA		13	
Nickel	~	200	µg/L	10		NA		NA		70		71		NA		7.3	
Thallium	~	3000	µg/L	0.2	U	NA		NA		0.2	U	0.2	U	NA		0.2	U
Zinc	~	900	µg/L	270		NA		NA		12		10	U	NA		71	

NOTES: Only detections are summarized above.

NA = Not analyzed

U = Not detected above the lab reporting limits.

VALUE Shading indicates a result which exceeds at least one Method 1 Soil Standard

Table 2
Summary of Groundwater Sample Analytical Results
Former Nu Style Site
Franklin, Massachusetts
Page 3 of 5

Sample Location				MW-102D		GW-MW103D		MW-103D		GW-MW103S		MW-103S		GW-MW104D		MW-104D	
Sample Date				08/20/2013		05/15/2013		08/20/2013		05/15/2013		08/20/2013		05/15/2013		08/20/2013	
Lab number				13H0884-02		13E0614-06		13H0884-08		13E0614-07		13H0884-07		13E0614-08		13H0884-04	
GW-2	GW-3	Units		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Volatile Organic Compounds																	
Acetone	50000	50000	µg/L	40	U	10	U	100	U	10	U	10	U	10	U	500	U
sec-Butylbenzene	~	~	µg/L	4	U	1	U	10	U	1	U	1	U	1	U	50	U
1,1-Dichloroethane	1000	20000	µg/L	4	U	1	U	10	U	1	U	1	U	1	U	50	U
1,1-Dichloroethylene	80	30000	µg/L	4	U	1	U	10	U	1	U	1	U	1	U	50	U
cis-1,2-Dichloroethylene	100	50000	µg/L	4	U	3.2		46		1.1		7.8		1	U	50	U
Methyl tert-butyl ether	50000	50000	µg/L	4	U	1.8		10	U	1	U	1	U	1	U	50	U
Tetrachloroethylene	50	30000	µg/L	4	U	1100		1100		5.1		1.5		1700		1700	
1,1,1-Trichloroethane	4000	20000	µg/L	4		5.5		10	U	1	U	1	U	6.9		50	U
1,1,2-Trichloroethane	900	50000	µg/L	4	U	1	U	10	U	1	U	1	U	1	U	50	U
Trichloroethylene	30	5000	µg/L	140		840		1200		4.4		3.4		760		850	
Vinyl Chloride	2	50000	µg/L	8	U	2	U	20	U	2	U	3.8		2	U	100	U
Metals																	
Antimony	~	8000	µg/L		NA	1	U		NA	1	U		NA	1	U		NA
Arsenic	~	900	µg/L		NA	0.92			NA	1.1			NA	0.67			NA
Barium	~	50000	µg/L		NA	140			NA	110			NA	24			NA
Beryllium	~	200	µg/L		NA	2.3			NA	0.7			NA	18			NA
Cadmium	~	4	µg/L		NA	2			NA	2			NA	0.5	U		NA
Chromium	~	300	µg/L		NA	1	U		NA	1	U		NA	1	U		NA
Copper	~	~	µg/L		NA	14			NA	14			NA	18			NA
Nickel	~	200	µg/L		NA	15			NA	16			NA	5	U		NA
Thallium	~	3000	µg/L		NA	0.21			NA	0.49			NA	0.2	U		NA
Zinc	~	900	µg/L		NA	40			NA	62			NA	89			NA

NOTES: Only detections are summarized above.

NA = Not analyzed

U = Not detected above the lab reporting limits.

VALUE Shading indicates a result which exceeds at least one Method 1 Soil Standard

Table 2
Summary of Groundwater Sample Analytical Results
Former Nu Style Site
Franklin, Massachusetts
Page 4 of 5

Sample Location				GW-MW104S		MW-104S		GW-MW105D		MW-105D		GW-MW105S	
Sample Date				05/15/2013		08/20/2013		05/15/2013		08/20/2013		05/15/2013	
Lab number				13E0614-09		13H0884-03		13E0614-10		13H0884-06		13E0614-11	
GW-2	GW-3	Units		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Volatile Organic Compounds													
Acetone	50000	50000	µg/L	10	U	10	U	10	U	10	U	10	U
sec-Butylbenzene	~	~	µg/L	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	1000	20000	µg/L	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethylene	80	30000	µg/L	1	U	1	U	1	U	1	U	1	U
cis-1,2-Dichloroethylene	100	50000	µg/L	4.7		6.8		1	U	1	U	1	U
Methyl tert-butyl ether	50000	50000	µg/L	1	U	1	U	1	U	1	U	1	U
Tetrachloroethylene	50	30000	µg/L	94		42		41		25		140	
1,1,1-Trichloroethane	4000	20000	µg/L	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	900	50000	µg/L	1	U	1	U	1	U	1	U	1	U
Trichloroethylene	30	5000	µg/L	22		15		16		15		21	
Vinyl Chloride	2	50000	µg/L	2	U	2	U	2	U	2	U	2	U
Metals													
Antimony	~	8000	µg/L	2.4		NA		1	U	NA		1	U
Arsenic	~	900	µg/L	4.5		NA		0.92		NA		0.4	U
Barium	~	50000	µg/L	86		NA		120		NA		150	
Beryllium	~	200	µg/L	0.45		NA		0.4	U	NA		2.3	
Cadmium	~	4	µg/L	0.57		NA		0.5	U	NA		0.5	U
Chromium	~	300	µg/L	10		NA		1	U	NA		1	U
Copper	~	~	µg/L	26		NA		26		NA		22	
Nickel	~	200	µg/L	51		NA		5	U	NA		5	U
Thallium	~	3000	µg/L	0.24		NA		0.2	U	NA		0.2	U
Zinc	~	900	µg/L	21		NA		11		NA		18	

NOTES: Only detections are summarized above.

NA = Not analyzed

U = Not detected above the lab reporting limits.

VALUE Shading indicates a result which exceeds at least one Method 1 Soil Standard

Table 2
Summary of Groundwater Sample Analytical Results
Former Nu Style Site
Franklin, Massachusetts
Page 5 of 5

Sample Location				MW-105S		GW-MW106D		MW-106D		GW-MW106S		MW-106S	
Sample Date				08/20/2013		05/15/2013		08/21/2013		05/15/2013		08/21/2013	
Lab number				13H0884-05		13E0614-12		13H0884-16		13E0614-13		13H0884-15	
GW-2	GW-3	Units		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Volatile Organic Compounds													
Acetone	50000	50000	µg/L	40	U	10	U	10	U	23		10	U
sec-Butylbenzene	~	~	µg/L	4	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	1000	20000	µg/L	4	U	1	U	1	U	1	U	1	U
1,1-Dichloroethylene	80	30000	µg/L	4	U	1	U	1	U	1	U	1	U
cis-1,2-Dichloroethylene	100	50000	µg/L	4	U	1	U	1	U	1	U	1	U
Methyl tert-butyl ether	50000	50000	µg/L	4	U	1	U	1	U	1	U	1	U
Tetrachloroethylene	50	30000	µg/L	86		2.9		1	U	1	U	1	U
1,1,1-Trichloroethane	4000	20000	µg/L	4	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	900	50000	µg/L	4	U	1	U	1	U	1	U	1	U
Trichloroethylene	30	5000	µg/L	16		1	U	1	U	1	U	1	U
Vinyl Chloride	2	50000	µg/L	8	U	2	U	2	U	2	U	2	U
Metals													
Antimony	~	8000	µg/L	NA		1	U	NA		1	U	NA	
Arsenic	~	900	µg/L	NA		17		NA		1.8		NA	
Barium	~	50000	µg/L	NA		46		NA		72		NA	
Beryllium	~	200	µg/L	NA		0.4	U	NA		0.4	U	NA	
Cadmium	~	4	µg/L	NA		0.5	U	NA		0.5	U	NA	
Chromium	~	300	µg/L	NA		1	U	NA		1	U	NA	
Copper	~	~	µg/L	NA		7		NA		5	U	NA	
Nickel	~	200	µg/L	NA		5	U	NA		5	U	NA	
Thallium	~	3000	µg/L	NA		0.2	U	NA		0.2	U	NA	
Zinc	~	900	µg/L	NA		10	U	NA		10	U	NA	

NOTES: Only detections are summarized above.

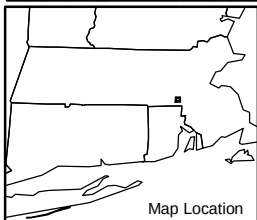
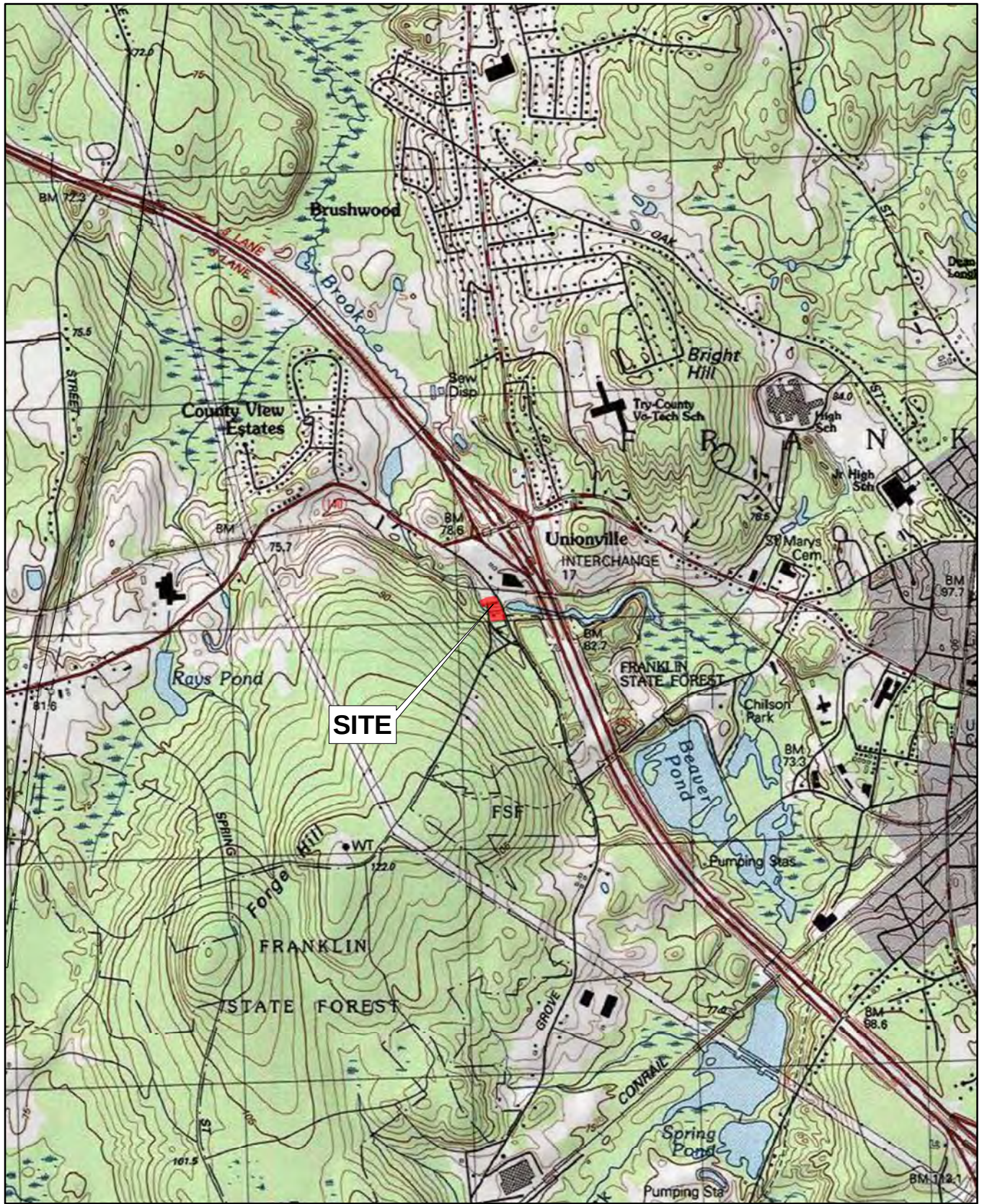
NA = Not analyzed

U = Not detected above the lab reporting limits.

VALUE Shading indicates a result which exceeds at least one Method 1 Soil Standard

FIGURES

Path: R:\00000 Task Orders\00078 NU Style Franklin TBA\Technical Data\GIS\Map_Figures\TBA_Report\Figure_01.mxd Date Printed: 9/13/2013



USGS Topographic Map
Franklin, Mass.
1987

0 500 1,000 2,000
Feet
1 inch = 2,000 feet



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FIGURE 1

SITE LOCUS
NU-STYLE TBA
FRANKLIN MASSACHUSETTS

PREPARED BY: DM
PROJECT NO. 80078

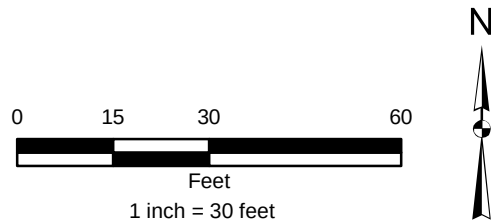
CHECKED BY: MB
DATE: SEPT. 2013

Path: R:\80000 Task Orders\80078 NU Style Franklin TBA\Technical Data\CIS\Maps_Figures\TBA_Report\Figure_02.mxd Date Printed: 9/2/2013



Legend

- Existing Bedrock Monitoring Well
- Existing Overburden Monitoring Well
- Missing/Destroyed Bedrock Monitoring Well
- Missing/Destroyed Overburden Monitoring Well
- Retained Portion of Foundation Wall
- Intact Former Tunnel Structure
- Demolished/Filled Former Tunnel Structure
- RAM Excavation Areas
- Approximate Property Boundary



Notes:
Location of all features is approximate. Map is for reference purposes only. Nobis Engineering, Inc. makes no claims, warranties, representations, expressed or implied, relating to the completeness, accuracy, or reliability of the data shown.



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FIGURE 2

EXISTING SITE CONDITIONS
NU-STYLE
FRANKLIN, MASSACHUSETTS

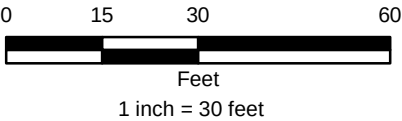
PREPARED BY: DFM	CHECKED BY: MB
PROJECT NO. 80078	DATE: MAY 2013 Rev 00

Path: R:\80000 Task Orders\80078 NU Style Franklin TBA\Technical Data\CIS\Maps_Figures\TBA_Report\Figure_03.mxd Date Printed: 9/13/2013



Legend

- 2010 Bedrock Groundwater Sample Location
- 2010 Overburden Groundwater Sample Location
- Approximate Limit of Bedrock Groundwater VOC Results in Excess of MCP GW2 Standards
- Approximate Limit of Bedrock Groundwater VOC Detections
- Approximate Limit of Overburden Groundwater VOC Detections
- Retained Portion of Foundation Wall
- Approximate Property Boundary



Notes:
Location of all features is approximate. Map is for reference purposes only. Nobis Engineering, Inc. makes no claims, warranties, representations, expressed or implied, relating to the completeness, accuracy, or reliability of the data shown.

FIGURE 3

PREVIOUS PHASE II 2010
GROUNDWATER RESULTS
NU-STYLE
FRANKLIN, MASSACHUSETTS

PREPARED BY: DFM	CHECKED BY: MB
PROJECT NO. 80078	DATE: MAY 2013 Rev 00

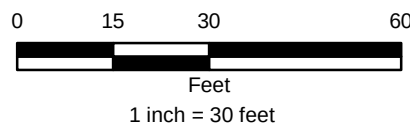
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Path: R:\80000 Task Orders\80078 NU Style Franklin TBA\Technical Data\GIS\Maps_Figures\TBA_Report\Figure_04.mxd Date Printed: 9/2/2013



Legend

- Nobis Bedrock Monitoring Well
- Existing Bedrock Monitoring Well (Sample Collected)
- Existing Overburden Monitoring Well (Sample Collected)
- Existing Bedrock Monitoring Well (Not Sampled)
- Existing Overburden Monitoring Well (Not Sampled)
- Missing/Destroyed Bedrock Monitoring Well
- Missing/Destroyed Overburden Monitoring Well
- Retained Portion of Foundation Wall
- Approximate Property Boundary



Notes:
Location of all features is approximate. Map is for reference purposes only. Nobis Engineering, Inc. makes no claims, warranties, representations, expressed or implied, relating to the completeness, accuracy, or reliability of the data shown.

FIGURE 4

**NOBIS SAMPLING LOCATIONS
NU-STYLE
FRANKLIN, MASSACHUSETTS**

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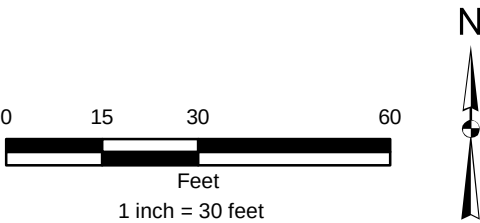
PREPARED BY: DFM	CHECKED BY: MB
PROJECT NO. 80078	DATE: MAY 2013 Rev 00

Path: R:\80007 Task Orders\80078 NU Style Franklin TBA\Technical Data\GIS\Maps_Figures\TBA_Report\Figure_05.mxd Date Printed: 9/2/2013



Legend

- Nobis Bedrock Monitoring Well
- Existing Bedrock Monitoring Well (Sample Collected)
- Existing Overburden Monitoring Well (Sample Collected)
- Missing/Destroyed Bedrock Monitoring Well
- Missing/Destroyed Overburden Monitoring Well
- Approximate Limit of Bedrock Groundwater VOC Results in Excess of MCP GW2 Standards
- Approximate Limit of Bedrock Groundwater VOC Detections
- Approximate Limit of Overburden Groundwater VOC Detections (includes 2010 data to complete the depiction)
- Approximate Property Boundary
- August 2013 Shallow Bedrock Aquifer Potentiometric Elevation Contour (elevations relative to site-specific benchmark)
- Retained Portion of Foundation Wall



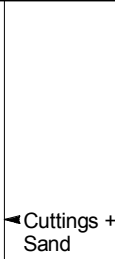
Notes:
Location of all features is approximate. Map is for reference purposes only. Nobis Engineering, Inc. makes no claims, warranties, representations, expressed or implied, relating to the completeness, accuracy, or reliability of the data shown.

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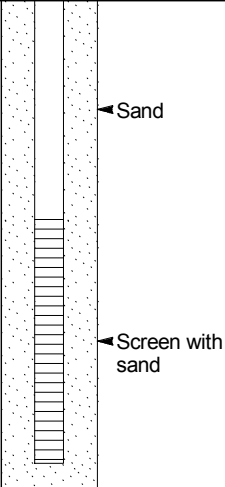
FIGURE 5	
NOBIS GROUNDWATER SAMPLE RESULTS NU-STYLE FRANKLIN, MASSACHUSETTS	
PREPARED BY: DFM	CHECKED BY: MB
PROJECT NO. 80078	DATE: MAY 2013 Rev 00

APPENDIX A

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-101D							
Project: <u>NU- Style</u>				Location: <u>87 Grove St Franklin, MA</u>				Boring Location: _____							
Nobis Project No.: <u>80078.03</u>				Checked by: _____				Date Start: <u>May 8, 2013</u>							
Date Finish: <u>May 8, 2013</u>				Contractor: <u>Crawford Drilling Services, LLC</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>							
Driller: <u>T. Martinelli</u>				Hammer Type: _____				Ground Surface Elev.: _____							
Nobis Rep.: <u>A. Roy</u>				Hammer Hoist: <u>Automatic</u>				Datum: _____							
Drilling Method		Sampler		Groundwater Observations											
Type	HSA/Casing			Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time						
Size ID (in.)	4 1/4 3 7/8														
Advancement	Air Hammer														
SAMPLE INFORMATION				LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)				WELL DETAIL		NOTES			
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)								
1	S-1	12	0-2	19			FILL	S-1: Dense, black and brown, fine to coarse SAND, some Gravel, little Silt, possible wood and ash noted. Dry. (FILL).							
2				17											
3				14											
4	S-2	6	2-4	15				S-2A (2"): Similar to S-1.							
5				10				S-2B (4"): Medium dense, brown, fine to medium SAND, trace coarse Sand, trace Gravel, trace silt. Dry. (FILL).							
6				10											
7				7											
8	S-3	12	4-6	13				S-3: Similar to S-2B.							
9				1											
10				1											
11				1											
12	S-4	12	6-8	2	S-4A (8"): Similar to S-2B.										
13				1	S-4B (4"): Very loose, black, fine to coarse SAND and Silt, some Gravel, possible ash material noted. Wet. (FILL).										
14				1											
15				1											
16	S-5	3	8-9	8	S-5: Poor recovery, spoon bouncing, Dry fragments.										
17				50/2"	Start air hammering at 8.5 ft.										
18															
19															
20															
21															
22															
23															
24															
25															
Soil	Percentage	Non-Soil	NOTES:												
trace	5 - 10	very few													
little	10 - 20	few													
some	20 - 35	several													
and	35 - 50	numerous													
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratus; transitions may be gradual.															
Page No. <u>1</u> of <u>2</u>															

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-101D			
Project: <u>NU- Style</u>				Location: <u>87 Grove St Franklin, MA</u>				Boring Location: _____			
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Checked by: _____			
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Date Start: <u>May 8, 2013</u>			
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>				Date Finish: <u>May 8, 2013</u>			
Nobis Rep.: <u>A. Roy</u>				Datum: _____				Ground Surface Elev.: _____			
Drilling Method		Sampler		Groundwater Observations							
Type	HSA/Casing			Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)	4 1/4 3 7/8										
Advancement	Air Hammer										
Depth (ft.)	SAMPLE INFORMATION				Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES	
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.		Graphic	Stratum Elev. / Depth (ft.)				
26											
27											
28											
29											
30							Screen rock cuttings.				
31											
32											
33							Possible fracture at 33 ft.				
34											
35							Boring terminated at 35 feet.				
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											
46											
47											
48											
49											
50											
Soil	Percentage	Non-Soil	NOTES:								
trace	5 - 10	very few									
little	10 - 20	few									
some	20 - 35	several									
and	35 - 50	numerous									
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.											
Page No. <u>2</u> of <u>2</u>											

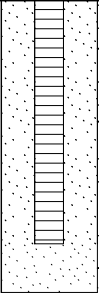
BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:\80000 TASK ORDERS\80078 NU STYLE FRANKLIN TBATECHNICAL DATA\80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-101S					
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____					
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 9, 2013</u>				Date Finish: <u>May 9, 2013</u>					
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Datum: _____					
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>									
Nobis Rep.: <u>A. Roy</u>													
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8		2									
Advancement		Air Hammer		140-lb Hammer									
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)					
1									Advance HSA to 8 ft.				
2													
3													
4													
5													
6													
7													
8													
9									Bedrock encountered. Start air hammer at 8 ft.				
10													
11													
12						<1			Screen rock cuttings.				
13													
14													
15													
16									Possible fractures and water noted 15.5 ft.				
17													
18						<1			Screen rock cuttings.				
19									Boring terminated at 18 feet.				
20													
21													
22													
23													
24													
25													
Soil	Percentage	Non-Soil		NOTES:									
trace	5 - 10	very few		1) See MW-101D for Soil Description									
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.													
										Page No.	1 of 1		

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:\80000 TASK ORDERS\80078 NU STYLE FRANKLIN TBATECHNICAL DATA\80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-102D					
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____					
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 6, 2013</u>				Date Finish: <u>May 6, 2013</u>					
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Datum: _____					
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>									
Nobis Rep.: <u>A. Roy</u>													
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing				Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8											
Advancement		Air Hammer											
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)					
1									Advance HSA through crushed demolition debris. Encountered possible concrete floor. Start air hammer at 11.5 ft. Screen rock cuttings. Screen rock cuttings.	← Cuttings + Sand ← Riser and bentonite			
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13					<1								
14													
15													
16													
17													
18													
19													
20													
21					18.5								
22													
23													
24													
25													
Soil	Percentage	Non-Soil		NOTES:									
trace	5 - 10	very few											
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.												Page No. <u>1</u> of <u>2</u>	

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-102D					
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____					
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 6, 2013</u>				Date Finish: <u>May 6, 2013</u>					
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Datum: _____					
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>									
Nobis Rep.: <u>A. Roy</u>													
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing				Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8											
Advancement		Air Hammer											
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)					
					78.5								
26										← Sand			
27										← Sand and screen			
28													
29													
30													
31										← Sand			
32									Boring terminated at 31 feet.				
33													
34													
35													
36													
37													
38													
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
Soil	Percentage	Non-Soil		NOTES:									
trace	5 - 10	very few											
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.													
										Page No. <u>2</u> of <u>2</u>			

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-102S					
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____					
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 7, 2013</u>				Date Finish: <u>May 7, 2013</u>					
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Datum: _____					
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>									
Nobis Rep.: <u>A. Roy</u>													
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing				Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8											
Advancement		Air Hammer											
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)					
1									Advance HSA to 10.5 ft.				
2													
3													
4													
5													
6													
7													
8													
9													
10													
11									Encountered possible concrete floor. Air hammer from 10.5 ft.				
12													
13													
14													
15													
16									Possible water/fracture at 16 ft.				
17													
18													
19						226			Screen rock cutting.				
20													
21									Boring terminated at 20 feet.				
22													
23													
24													
25													
Soil	Percentage	Non-Soil		NOTES:									
trace	5 - 10	very few		) See MW-102D for Soil Description									
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.													
										Page No.	1 of 1		

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078.03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-103D				
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____				
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 7, 2013</u>				Date Finish: <u>May 7, 2013</u>				
Nobis Project No.: <u>80078.03</u>				Ground Surface Elev.: _____				Datum: _____				
Contractor: <u>Crawford Drilling Services, LLC</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____				
Driller: <u>T. Martinelli</u>				Hammer Type: _____				Datum: _____				
Nobis Rep.: <u>A. Roy</u>				Hammer Hoist: <u>Automatic</u>				Datum: _____				
Drilling Method		Sampler		Groundwater Observations								
Type	HSA/Casing	Split-Spoon	Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time				
Size ID (in.)	4 1/4 3 7/8	2										
Advancement	Air Hammer	140-lb Hammer										
SAMPLE INFORMATION				LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)				WELL DETAIL		NOTES
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)				
1	S-1	22	0-2	4				FILL / 1.5	S-1A (6"): Organics. (MULCH). S-1B (6"): Dense, Dark brown, fine to coarse SAND, some Silt, little Gravel, brick and concrete noted. Moist. (FILL).			
2				12	52							
3	S-2	12	2-4	20					S-2: Dense, brown, fine to coarse SAND and Gravel, little Silt, brick and concrete noted in sample. Dry. (FILL).			
4				24								
5	S-3	6	4-6	28	<1				S-3: Light brown, fine to coarse SAND, some Gravel, little Silt, crush cobble/boulder noted in spoon. Moist. (FILL).			
6				37								
7	S-4	2	6-8	50/2"					Increased drilling resistance noted at 6 ft. Set up hammer to advance through obstruction. Advance air hammer to 30 ft. Bedrock surface at 6 ft. S-4: (WEATHERED BEDROCK).			
8								WEATHERED BEDROCK / 8.0				
9												
10												
11												
12												
13												
14												
15												
16												
17												
18					4.5				Screen rock cuttings.			
19												
20												
21												
22												
23												
24												
25					<1				Screen rock cuttings.			
Soil	Percentage	Non-Soil	NOTES:									
trace	5 - 10	very few	1) Collect lab sample from 4-6 ft									
little	10 - 20	few										
some	20 - 35	several										
and	35 - 50	numerous										

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.

Page No. 1 of 2

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-103D					
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____					
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 7, 2013</u>				Date Finish: <u>May 7, 2013</u>					
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Datum: _____					
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>									
Nobis Rep.: <u>A. Roy</u>													
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8		2									
Advancement		Air Hammer		140-lb Hammer									
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)					
26										 Sand			
27									Boring terminated at 26 feet.				
28													
29													
30													
31													
32													
33													
34													
35													
36													
37													
38													
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
Soil	Percentage	Non-Soil		NOTES:									
trace	5 - 10	very few		1) Collect lab sample from 4-6 ft									
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.											Page No. <u>2</u> of <u>2</u>		

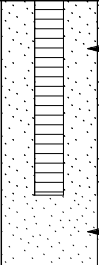
BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:\80000 TASK ORDERS\80078 NU STYLE FRANKLIN TBATECHNICAL DATA\80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-103S			
Project: <u>NU- Style</u>				Location: <u>87 Grove St Franklin, MA</u>				Boring Location: _____			
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Checked by: _____			
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Date Start: <u>May 7, 2013</u>			
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>				Date Finish: <u>May 7, 2013</u>			
Nobis Rep.: <u>A. Roy</u>				Datum: _____				Ground Surface Elev.: _____			
Drilling Method		Sampler		Groundwater Observations							
Type	HSA/Casing			Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)	4 1/4 3 7/8										
Advancement	Air Hammer										
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)			
1									Advance HSA to 6 ft.		
2											
3											
4											
5											
6											
7									Bedrock encountered. Start air hammer at 6 ft.		
8											
9											
10											
11						<1					
12											
13						3.1					
14											
15											
16											
17									Possible fractures noted at 16 ft. No observed water..		
18											
19											
20											
21											
22									No water noted. Boring terminated at 20.5 feet.		
23											
24											
25											
Soil	Percentage	Non-Soil	NOTES:								
trace	5 - 10	very few	1) See MW-103D for Soil Description								
little	10 - 20	few									
some	20 - 35	several									
and	35 - 50	numerous									
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratum; transitions may be gradual.											
Page No. <u>1</u> of <u>1</u>											

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

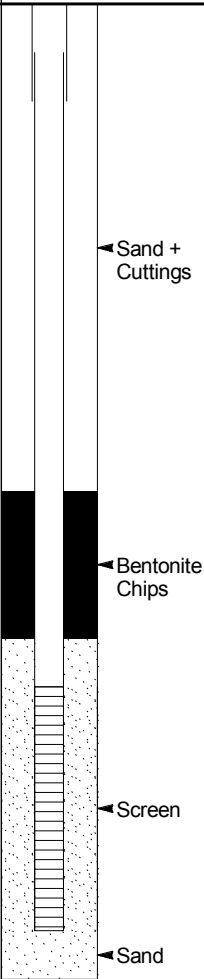
				BORING LOG				Boring No.: MW-104D					
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____					
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 6, 2013</u>				Date Finish: <u>May 6, 2013</u>					
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Datum: _____					
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>									
Nobis Rep.: <u>A. Roy</u>													
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing				Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8											
Advancement		Air Hammer											
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)					
1									Advance HSA through crushed demolition debris.				
2													
3													
4													
5													
6													
7													
8													
9													
10													
11									Encountered possible concrete floor. Start air hammer at 10 ft.				
12													
13													
14													
15													
16													
17													
18													
19									Possible fracture at 18 ft.				
20													
21									Screen rock cuttings.				
22													
23													
24													
25													
Soil	Percentage	Non-Soil		NOTES:									
trace	5 - 10	very few											
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.													
										Page No. <u>1</u> of <u>2</u>			

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-104D			
Project: <u>NU- Style</u>				Location: <u>87 Grove St Franklin, MA</u>				Boring Location: _____			
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Checked by: _____			
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Date Start: <u>May 6, 2013</u>			
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>				Date Finish: <u>May 6, 2013</u>			
Nobis Rep.: <u>A. Roy</u>				Datum: _____				Ground Surface Elev.: _____			
Drilling Method		Sampler		Groundwater Observations							
Type	HSA/Casing			Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)	4 1/4 3 7/8										
Advancement	Air Hammer										
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)			
26									Possible fracture noted at 26 ft.		
27											
28					<1				Screen rock cuttings.		
29											
30									Flushed hole with air and water. Boring terminated at 30.5 feet.		
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											
46											
47											
48											
49											
50											
Soil	Percentage	Non-Soil		NOTES:							
trace	5 - 10	very few									
little	10 - 20	few									
some	20 - 35	several									
and	35 - 50	numerous									
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.											
Page No. <u>2</u> of <u>2</u>											

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

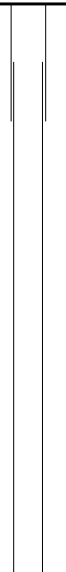
				BORING LOG				Boring No.: MW-104S					
Project: <u>NU- Style</u>				Location: <u>87 Grove St Franklin, MA</u>				Boring Location: _____					
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Checked by: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Date Start: <u>May 6, 2013</u>					
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>				Date Finish: <u>May 6, 2013</u>					
Nobis Rep.: <u>A. Roy</u>				Datum: _____				Ground Surface Elev.: _____					
Drilling Method		Sampler		Groundwater Observations									
Type	HSA/Casing			Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time				
Size ID (in.)	4 1/4 3 7/8												
Advancement	Air Hammer												
SAMPLE INFORMATION				LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)				WELL DETAIL		NOTES	
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)					
1									Advance HSA through crushed demolition debris.				
2													
3													
4													
5													
6													
7													
8													
9													
10													
11									Encountered possible concrete floor. Start air hammer at 10 ft.				
12													
13													
14					<1				Screen rock cutting.				
15													
16													
17									Possible fracture noted from 16-17 ft.				
18									Water noted with rock cuttings.				
19													
20									Boring terminated at 20 feet.				
21													
22													
23													
24													
25													
Soil	Percentage	Non-Soil	NOTES:										
trace	5 - 10	very few	) See MW-104D for Soil Description										
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.												Page No. 1 of 1	



BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078.03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-105D			
				Project: <u>NU- Style</u>				Boring Location: _____			
Location: <u>87 Grove St Franklin, MA</u>				Checked by: _____				Date Start: <u>May 8, 2013</u>			
Nobis Project No.: <u>80078.03</u>				Date Finish: <u>May 8, 2013</u>							
Contractor: <u>Crawford Drilling Services, LLC</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____			
Driller: <u>T. Martinelli</u>				Hammer Type: _____				Datum: _____			
Nobis Rep.: <u>A. Roy</u>				Hammer Hoist: <u>Automatic</u>							

Drilling Method		Sampler		Groundwater Observations					
Type	HSA/Casing	Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
Size ID (in.)	4 1/4 3 7/8	2							
Advancement	Air Hammer	140-lb Hammer							

SAMPLE INFORMATION						LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic			
1							 FILL	Advance HSA down to 8 ft through fill material. S-1: Loose, Light brown, fine to coarse SAND, trace Gravel, trace Silt, .Wet. S-2: Medium dense, Dark brown, fine to coarse SAND, some Silt, little Gravel, Wood noted in sample. Wet. S-3: Weathered rock and gravel. Start air hammer at 12 ft.	 Cuttings + Sand	
2										
3										
4										
5										
6										
7										
8										
9	S-1	6	8-10	6						
10				4						
11	S-2	12	10-12	3						
12				1						
13	S-3	3	12-13	4						
14				13						
15				3						
16				7						
17				6						
18				50/3						
19										
20										
21										
22										
23										
24										
25										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

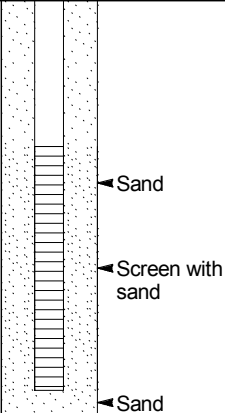
NOTES:

1) Collect sample from 10-12 ft

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratus; transitions may be gradual.

Page No. 1 of 2

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-105D					
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____					
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 8, 2013</u>				Date Finish: <u>May 8, 2013</u>					
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Datum: _____					
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>									
Nobis Rep.: <u>A. Roy</u>													
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8		2									
Advancement		Air Hammer		140-lb Hammer									
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)					
26													
27													
28													
29													
30													
31													
32													
33													
34													
35													
36													
37													
38													
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
Soil	Percentage	Non-Soil	NOTES:										
trace	5 - 10	very few	1) Collect sample from 10-12 ft										
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.													
										Page No. <u>2</u> of <u>2</u>			

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:\80000 TASK ORDERS\80078 NU STYLE FRANKLIN TBATECHNICAL DATA\80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-105S					
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____					
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 8, 2013</u>				Date Finish: <u>May 8, 2013</u>					
Nobis Project No.: <u>80078.03</u>				Ground Surface Elev.: _____				Datum: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Driller: <u>T. Martinelli</u>				Hammer Type: _____				Datum: _____					
Nobis Rep.: <u>A. Roy</u>				Hammer Hoist: <u>N/A</u>				Datum: _____					
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing				Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8											
Advancement		Air Hammer											
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)					
1									Advance HSA to 12 ft.				
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13									Bedrock encountered. Air hammer from 12 to 26 ft.				
14													
15													
16													
17									Possible fracture noted at 16 ft.				
18						1.3							
19									Screen rock cuttings.				
20													
21													
22													
23									Possible fractures and water noted at 23 ft- 24 ft.				
24									Well set at 24 ft.				
25													
Soil	Percentage	Non-Soil	NOTES:										
trace	5 - 10	very few	1) See MW-105D for Soil Description										
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratum; transitions may be gradual.													
Page No. <u>1</u> of <u>2</u>													

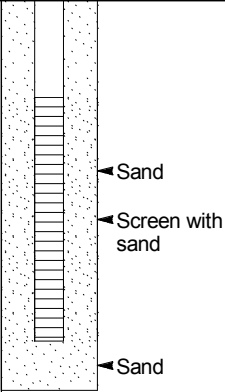
BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-105S					
				Project: <u>NU- Style</u>				Boring Location: _____					
				Location: <u>87 Grove St Franklin, MA</u>				Checked by: _____					
				Nobis Project No.: <u>80078.03</u>				Date Start: <u>May 8, 2013</u>					
								Date Finish: <u>May 8, 2013</u>					
Contractor: <u>Crawford Drilling Services, LLC</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Driller: <u>T. Martinelli</u>				Hammer Type: _____									
Nobis Rep.: <u>A. Roy</u>				Hammer Hoist: <u>N/A</u>				Datum: _____					
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing				Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8											
Advancement		Air Hammer											
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)					
26										 Sand			
27									Boring terminated at 26 feet.				
28													
29													
30													
31													
32													
33													
34													
35													
36													
37													
38													
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
Soil	Percentage	Non-Soil		NOTES:									
trace	5 - 10	very few		1) See MW-105D for Soil Description									
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.											Page No. <u>2</u> of <u>2</u>		

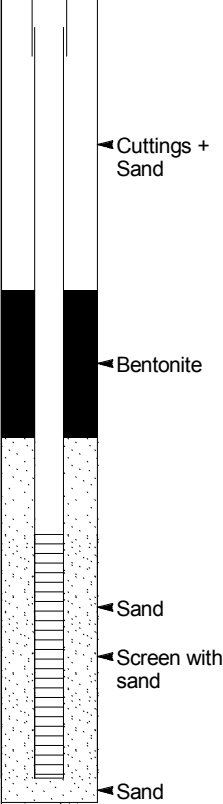
BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-106D					
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____					
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 9, 2013</u>				Date Finish: <u>May 9, 2013</u>					
Nobis Project No.: <u>80078.03</u>				Ground Surface Elev.: _____				Datum: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Driller: <u>T. Martinelli</u>				Hammer Type: _____				Datum: _____					
Nobis Rep.: <u>A. Roy</u>				Hammer Hoist: <u>Automatic</u>				Datum: _____					
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8		2									
Advancement		Air Hammer		140-lb Hammer									
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)			WELL DETAIL	NOTES
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)					
1	S-1	16	0-2	4					3 inch Asphalt.			Cuttings + Sand	
				4					S-1: Loose, Light brown, fine to medium SAND, little Gravel, trace Silt. (FILL).				
2				4	<1								
				6									
3	S-2	4	2-4	7					S-2: Similar to S-1. Spoon bouncing at 2.5 ft. Air hammer through boulder move location 2 ft Auger to 4 ft.			Bentonite	
				50/2"									
4					<1								
5	S-3	8	4-6	8					S-3: Dense, Light brown, fine to coarse SAND, some Silt, some Gravel. (FILL).				
				9									
6				17									
				29									
7	S-4	3	6-6.5	25					S-4: Poor recovery. Rock fragments. Spoon bouncing.				
				50/1"0"									
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
Soil	Percentage	Non-Soil	NOTES:										
trace	5 - 10	very few	1) Collect sample from 4-6										
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.													Page No. 1 of 2

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-106D					
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____					
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 9, 2013</u>				Date Finish: <u>May 9, 2013</u>					
Nobis Project No.: <u>80078.03</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Hammer Type: _____				Datum: _____					
Driller: <u>T. Martinelli</u>				Hammer Hoist: <u>Automatic</u>									
Nobis Rep.: <u>A. Roy</u>													
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8		2									
Advancement		Air Hammer		140-lb Hammer									
Depth (ft.)	SAMPLE INFORMATION				PID (ppm)	Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.			Graphic	Stratum Elev. / Depth (ft.)					
26													
27													
28													
29													
30													
31													
32													
33													
34													
35													
36													
37													
38													
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
Soil	Percentage	Non-Soil	NOTES:										
trace	5 - 10	very few	1) Collect sample from 4-6										
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.													
										Page No.	2	of 2	

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 9/25/13 14:50 - R:80000 TASK ORDERS80078 NU STYLE FRANKLIN TBATECHNICAL DATA80078 03 BORING LOGS.GPJ

				BORING LOG				Boring No.: MW-106S					
Project: <u>NU- Style</u>				Boring Location: _____				Checked by: _____					
Location: <u>87 Grove St Franklin, MA</u>				Date Start: <u>May 9, 2013</u>				Date Finish: <u>May 9, 2013</u>					
Nobis Project No.: <u>80078.03</u>				Ground Surface Elev.: _____				Datum: _____					
Contractor: <u>Crawford Drilling Services, LLC</u>				Rig Type / Model: <u>Truck / Diedrich D-120</u>				Ground Surface Elev.: _____					
Driller: <u>T. Martinelli</u>				Hammer Type: _____				Datum: _____					
Nobis Rep.: <u>A. Roy</u>				Hammer Hoist: <u>Automatic</u>				Datum: _____					
		Drilling Method		Sampler		Groundwater Observations							
Type		HSA/Casing				Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4 1/4 3 7/8											
Advancement		Air Hammer											
Depth (ft.)	SAMPLE INFORMATION				Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES			
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.		Graphic	Stratum Elev. / Depth (ft.)						
1								Advance HSA through construction demolition debris.					
2													
3													
4													
5													
6													
7								Bedrock encountered.					
8													
9													
10													
11													
12								Screen rock chips.					
13								Possible fracture and water noted at 13 ft.					
14													
15								Possible fracture noted at 15 ft.					
16								Boring terminated at 16 feet.					
17													
18													
19													
20													
21													
22													
23													
24													
25													
Soil	Percentage	Non-Soil		NOTES:									
trace	5 - 10	very few		1) See MW-106D for Soil Description									
little	10 - 20	few											
some	20 - 35	several											
and	35 - 50	numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.										Page No. <u>1</u> of <u>1</u>			

A P P E N D I X B



Engineering a Sustainable Future

Low-Flow Field Log

SOP No: SA-003

Attachment B, Page 1 of 1

Date: Mar. 2010

Rev.: 2

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 5/15/13 Page 1 of 1

Field Personnel David Carlson

Well Depth as installed (ft.): _____

Screen Length in ft. _____ Screen Depth in ft. _____

Depth to GW (ft.): 10.85 From: PVC

Pump/Tubing Intake set (ft.): 21.21 From: PVC

Sample Designation _____

Sample Time 16:45

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments) Peristaltic

Multimeter model and serial number YSI 600 XL Turbidity meter model and serial number Hach 2100g

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Well ID: ML-14

Purging Start Time: 1615

Measured Well Depth (ft.): 23.21

Parameter Stabilization: (Circle) Yes ☒ No

Two Hour Time Limit Reached? (Circle) Yes / No ☒

Total Volume Purged, Including Drawdown (gallons): 0.5

Time at Purge Completion: 1645

Signature: [Signature]

Clock Time	Discharge / Refill / Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/- 10	DO +/- 10% if >0.5 mg/L	Turbidity +/- 10% if >5 NTU	Comments / Gas Pressure / Observations
HHMM	sec. / sec. or setting	ml/min	ft.	ft.	ft.	°C	µS/cm		mV	mg/L	NTU	
1615		100	10.85	—	—							
1620		100	10.85	—	—	12.32	2936	5.83	-70.5	4.99	5.83	
1625		100	10.85	—	—	12.66	2920	5.80	-68.6	4.80	4.20	
1630		100	10.85	—	—	12.28	2929	5.78	-68.4	4.67	2.48	
1635		100	10.85	—	—	12.50	2945	5.79	-68.9	4.91	1.25	
1640		100	10.85	—	—	11.95	2934	5.77	-68.5	4.56	0.73	
1645		Sample time										
1650												
1655												
1700												
1705												
1710												

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.

MS/MSD sample



Engineering a Sustainable Future

Low-Flow Field Log

SOP No: SA-003

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Date: Mar. 2010

Rev.: 2

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 5/15/13 Page 1 of 1

Field Personnel David Gorkun

Well Depth as installed (ft.): 18.00 355

Screen Length in ft. 5 Screen Depth in ft. 13-18

Depth to GW (ft.): 6.44 From: PVC

Pump/Tubing Intake set (ft.): 15.28 From: PVC

Sample Designation 1455

Sample Time 1455

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments) Perrine T.F. 2

Multimeter model and serial number KI 600XL Turbidity meter model and serial number Hach 2100g

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Well ID: MW-1015

Purging Start Time: 14:15

Measured Well Depth (ft.): 12.28 PVC

Parameter Stabilization: (Circle) Yes / No

Two Hour Time Limit Reached? (Circle) Yes / No

Total Volume Purged, Including Drawdown (gallons): 1.25

Time at Purge Completion: 1500

Signature: [Signature]

Clock Time	Discharge / Refill / Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/-10	DO +/- 10% if >0.5 mg/L	Turbidity +/- 10% if >5 NTU	Comments / Gas Pressure / Observations
HHMM	sec. / sec. or setting	ml/min	ft.	ft.	ft.	°C	µS/cm		mV	mg/L	NTU	
1415		100	6.44	—	—							
1420		100	6.45	0.01	0.01	13.30	1674	5.82	-81.2	2.25	<1000	
1425		100	6.45	0.00	0.01	13.13	1862	5.61	-72.4	2.18	<1000	
1430		100	6.45	0.00	0.01	12.79	1962	5.75	-77.4	2.66	73.4	
1435		100	6.45	0.00	0.01	12.75	1968	5.75	-74.1	2.22	67.2	
1440		100	6.45	0.00	0.01	12.72	1923	5.79	-73.6	2.09	60.8	
1445		100	6.45	0.00	0.01	12.69	1967	5.89	-73.5	2.15	42.7	
1450		100	6.45	0.00	0.01	12.78	1947	5.83	-72.0	2.16	39.9	
1455		Sampled										
1500												
1505												
1510												

Notes:

All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.



Engineering a Sustainable Future

Low-Flow Field Log

SOP No: SA-003

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Date: Mar. 2010

Rev.: 2

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 5/15/13 Page 1 of 1

Field Personnel: Dan J. Gorkan

Well Depth as installed (ft.): 32

Screen Length in ft. 5

Screen Depth in ft. 27-32

Depth to GW (ft.): 22.10

From: PVC

Pump/Tubing Intake set (ft.): 30

From: PVC

Sample Designation

Sample Time 1555

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments) Peristaltic

Multimeter model and serial number YSI 600XL Turbidity meter model and serial number Hach 2100g

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Well ID: MW-101D

Purging Start Time:

Measured Well Depth (ft.): 32.09

Parameter Stabilization: (Circle) Yes / No

Two Hour Time Limit Reached? (Circle) Yes / No

Total Volume Purged, Including Drawdown (gallons): 0.5

Time at Purge Completion: 16:00

Signature: [Signature]

Clock Time	Discharge / Refill / Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/- 10	DO +/- 10% if >0.5 mg/L	Turbidity +/- 10% if > 5 NTU	Comments / Gas Pressure / Observations
HHMM	sec. / sec. or setting	m/min	ft.	ft.	ft.	°C	µS/cm		mV	mg/L	NTU	
1525		50	22.61	—	—							
1530		50	22.70	0.09	0.09	13.56	2825	5.84	-65.7	6.69	115	
1535		50	28.02	0.32	0.41	13.32	2842	5.35	-61.2	6.32	84.2	
1540		50	28.28	0.26	0.67	13.43	2836	5.23	-59.5	6.30	36.0	
1545		50	28.64	0.36	1.03	13.11	2822	5.42	-59.9	6.29	18.5	
1550		50	28.82	0.18	1.21	13.05	2823	5.34	-52.5	6.29	15.0	
1555		Sampled										
1600												
1605												
1610												
1615												
1620												

Notes: All depths in feet below top of PVC unless specified.
NR = No Reading
Use the back of the log to record additional observations and descriptions.



Engineering a Sustainable Future

Low-Flow Field Log

SOP No: SA-003

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Date: Mar. 2010

Rev.: 2

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 5/15/13 Page 1 of 1

Field Personnel David Gertman

Well Depth as installed (ft.): _____

Screen Length in ft. 5 Screen Depth in ft. 11-16

Depth to GW (ft.): 9.27 From: PVC

Pump/Tubing Intake set (ft.): 13.5 From: PVC

Sample Designation _____

Sample Time 10:10 / Duplicate 10:15

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments) Peristaltic

Multimeter model and serial number KE 600XL Turbidity meter model and serial number Hach 2100g

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Well ID: MW-1025

Purging Start Time: 9:15

Measured Well Depth (ft.): 15.58 PVC

Parameter Stabilization: (Circle) Yes / No

Two Hour Time Limit Reached? (Circle) Yes / No

Total Volume Purged, Including Drawdown (gallons): 1.5

Time at Purge Completion: 10:10

Signature: R. Ch...

Clock Time	Discharge / Refill / Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/- 10	DO +/- 10% if >0.5 mg/L	Turbidity +/- 10% if >5 NTU	Comments / Gas Pressure / Observations
HHMM	sec. / sec. or setting	ml/min	ft.	ft.	ft.	°C	µS/cm		mV	mg/L	NTU	
915			9.27									
925		100	9.41	0.14	0.14	12.03	2041	6.05	-25.5	12.1	87.9	
930		100	9.42	0.06	0.20	11.88	2012	6.30	-83.9	12.1	137	
935		100	9.49	0.02	0.22	11.66	2013	6.32	-84.4	12.1	151	
940		100	9.49	0.00	0.22	11.66	2014	6.32	-84.8	12.1	170	
945		100	9.50	0.01	0.23	11.64	2013	6.35	-85.2	1.09	166	
950		100	9.50	0.00	0.23	11.73	2011	6.35	-86.1	1.08	156	
955		100	9.50	0.00	0.23	11.66	2009	6.37	-86.2	0.74	138	
1000		100	9.50	0.00	0.23	11.72	2009	6.39	-86.6	0.60	127	
1005		100	9.50	0.00	0.23	11.66	2008	6.41	-86.9	0.70	109	
1010			Sampled									
1015			Duplicate Sampled									

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.



Engineering a Sustainable Future

Low-Flow Field Log

SOP No: SA-003

Attachment B, Page 1 of 1

Date: Mar. 2010

Rev.: 2

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 5/15/13 Page 1 of 1

Field Personnel Dan J. Gorkun

Well Depth as installed (ft.): _____

Screen Length in ft. 5

Screen Depth in ft. 24-29

Depth to GW (ft.): 9.22

From: PVC

Pump/Tubing Intake set (ft.): 27

From: PVC

Sample Designation _____

Sample Time 11:15

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments) Denix 1.2

Multimeter model and serial number YSI 600XL

Turbidity meter model and serial number Hach 2100q

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Well ID: MW-102D

Purging Start Time: 10:30

Measured Well Depth (ft.): 28.93

Parameter Stabilization: (Circle) Yes / No

Two Hour Time Limit Reached? (Circle) Yes / No

Total Volume Purged, Including Drawdown (gallons): 1.5

Time at Purge Completion: 11:20

Signature: [Signature]

Clock Time	Discharge / Refill / Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/- 10	DO +/- 10% if >0.5 mg/L	Turbidity +/- 10% if > 5 NTU	Comments / Gas Pressure / Observations
HHMM	sec. / sec. or setting	ml/min	ft.	ft.	ft.	°C	µS/cm		mV	mg/L	NTU	
1030		110	10.00	—	—							
1035		110	10.20	0.20	0.20	12.33	2281	5.89	-81.6	5.60	32.1	
1040		110	10.45	0.25	0.45	12.53	2278	5.85	-78.9	5.33	25.3	
1045		110	10.58	0.13	0.58	12.03	2273	5.90	-78.9	5.15	21.6	
1050		110	10.63	0.05	0.63	12.03	2274	5.91	-79.3	5.10	19.3	
1055		110	10.69	0.06	0.69	12.02	2273	5.93	-79.8	5.08	12.1	
1100		110	10.68	-0.01	0.68	12.05	2272	5.93	-79.9	6.90	10.7	
1105		110	10.69	0.01	0.69	12.00	2308	5.95	-80.1	6.78	8.46	
1110		110	10.69	0.00	0.69	12.09	2324	5.96	-79.9	6.27	6.65	
1115												
1120												
1125												

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.

R:\Standard Operating Procedures\Field Forms\Sampling



Low-Flow Field Log

SOP No: SA-003

Attachment B, Page 1 of 1

Date: Mar. 2010

Rev.: 2

Prepared by:

S. Bonis A. Robichaux

Approved by:

M. Summerlin

Date : 5/15/13

Page of

Field Personnel Andy Robichaud

Well Depth as installed (ft.): 25

Screen Length in ft. 5

Screen Depth in ft. 20-25

Depth to GW (ft.): 21.24

From: DVC

Pump/Tubing Intake set (ft.): 23

From: pvc

Sample Designation	MW-103D
--------------------	---------

Sample Time 1057

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments) Recirculating

Multimeter model and serial number YSI 600XL Turbidity meter model and serial number Hach 2100

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Well ID : MWS-103D

Purging Start Time : 1030

Measured Well Depth (ft.): 25.14

Parameter Stabilization: (Circle) Yes / No

Two Hour Time Limit Reached ? (Circle) Yes / No

Total Volume Purged, Including Drawdown (gallons): 1.0

Time at Purge Completion: 1112

Signature: _____

[illegible]

Notes: All depths in feet below top of PVC unless specified.
NR = No Reading
Use the back of the log to record additional observations and descriptions.



Engineering a Sustainable Future

Low-Flow Field Log

SOP No: SA-003

Attachment B, Page 1 of 1

Date: Mar. 2010

Rev.: 2

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 5/15/13 Page 1 of 1

Field Personnel David Garhan

Well Depth as installed (ft.): 18

Screen Length in ft. 5

Screen Depth in ft. 13-18

Depth to GW (ft.): 10.30

From: PVC

Pump/Tubing Intake set (ft.): 16.22

From: PVC

Sample Designation

Sample Time 1230

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments)

Multimeter model and serial number YST 600XL

Turbidity meter model and serial number Hach 2100g

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Well ID: MW-1045

Purging Start Time: 1130

Measured Well Depth (ft.): 18.22 PVC

Parameter Stabilization: (Circle) Yes No

Two Hour Time Limit Reached? (Circle) Yes / No

Total Volume Purged, Including Drawdown (gallons): 1.0

Time at Purge Completion: 125

Signature: [Signature]

Clock Time	Discharge / Refill / Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/- 10	DO +/- 10% if >0.5 mg/L	Turbidity +/- 10% if > 5 NTU	Comments / Gas Pressure / Observations
HHMM	sec. / sec. or setting	ml/min	ft.	ft.	ft.	°C	µS/cm		mV	mg/L	NTU	
1135		100	10.30									
1140		100	10.30	0.00	0.00	11.93	3362	6.82	-86.0	2.29	81.4	
1145		100	10.30	0.00	0.00	11.55	3323	6.70	-85.2	2.03	138	
1150		100	10.30	0.00	0.00	11.20	3215	6.45	-83.4	1.26	84.1	
1155		100	10.30	0.00	0.00	11.16	3217	6.46	-83.6	1.75	57.1	
1200		100	10.30	0.00	0.00	11.03	3210	6.43	-83.9	2.61	40.2	
1205		100	10.30	0.00	0.00	11.10	3222	6.44	-84.0	1.98	35.8	
1210		100	10.30	0.00	0.00	11.21	3234	6.45	-84.2	2.09	33.1	
1215		100	10.30	0.00	0.00	11.61	3230	6.45	-84.4	2.08	30.8	
1220		Sampled										
1225												
1230												

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.



Engineering a Sustainable Future

Low-Flow Field Log

SOP No: SA-003

Attachment B, Page 1 of 1

Date: Mar. 2010

Rev.: 2

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 5/15/13 Page 1 of 1

Field Personnel: David Gorman

Well Depth as installed (ft.): 29.00

Screen Length in ft.: 5 Screen Depth in ft.: 24-29

Depth to GW (ft.): 9.82 From: PVC

Pump/Tubing Intake set (ft.): 28.69 From: PVC

Sample Designation:

Sample Time: 1345

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments): Peristaltic

Multimeter model and serial number: Y5T600XL Turbidity meter model and serial number: Hach 2100g

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Well ID: MW-104D

Purging Start Time: 1300

Measured Well Depth (ft.): 28.69 PVC

Parameter Stabilization: (Circle) Yes/No

Two Hour Time Limit Reached? (Circle) Yes/No

Total Volume Purged, Including Drawdown (gallons): 0.75

Time at Purge Completion: 1350

Signature: [Signature]

Clock Time	Discharge / Refill / Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/- 10	DO +/- 10% if >0.5 mg/L	Turbidity +/- 10% if >5 NTU	Comments / Gas Pressure / Observations
HHMM	sec. / sec. or setting	ml/min	ft.	ft.	ft.	°C	µS/cm		mV	mg/L	NTU	
1305		80	9.92	—	—							
1316		80	9.94	0.02	0.02	12.25	3394	5.87	-80.5	4.24	29.1	
1315		100	9.94	0.00	0.02	12.22	3415	5.78	-79.9	4.00	17.5	
1320		100	9.94	0.00	0.02	12.04	3435	5.77	-79.7	3.67	13.4	
1325		100	9.94	0.00	0.02	12.38	3431	5.78	-79.2	3.71	9.92	
1330		100	9.94	0.00	0.02	12.18	3434	5.74	-79.2	3.64	8.43	
1335		100	9.94	0.00	0.02	12.21	3437	5.75	-79.3	3.61	8.25	
1340		100	9.94	0.00	0.02	12.47	3418	5.74	-79.1	3.62	9.15	
1345		Sampled										
1350												
1355												
1400												

Notes: All depths in feet below top of PVC unless specified.
NR = No Reading
Use the back of the log to record additional observations and descriptions.



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MULTIPARAMETER WATER PROBE FIELD CALIBRATION LOG SHEET

SOP No: FS-005

Page: 1 of 1

Draft Date: May 2010

Draft Rev.: 3

Prepared by: AR

Approved by:

SITE INFORMATION

Site Name: Nu Style

Project Number/Task: 80078.03

Personnel: Andy Robichaud

Date of Calibration: 5/15/13

EQUIPMENT INFORMATION

Instrument Make/Model: YSI 600XL

Instrument Serial No.: 0061301AB

Name of Calibration Standards: NA

Nobis Identification No.: 3258

Source of Calibration Standards: Pine

Instrument Cleaned & Inspected: Y

Vendor Documentation Present: Y

Morning Calibration

Afternoon Calibration Verification

Criteria	Units	Standard Lot Number	Standard Expiration Date	Reading / Measured Value	"Check" Target Value	"Check" Measured Value	Acceptable Value	Standard Lot Number	Standard Expiration Date	Reading / Measured Value	"Check" Target Value	"Check" Measured Value	Acceptable Value
Dissolved Oxygen (DO)													
DO Probe Charge				75.7			25-75			59.4			25-75
Barometric Pressure	mm Hg			756						752.2			
Temperature	°C			13.88						12.96			
100% Saturation	mg/L				10.10	10.13	± 0.2 mg/L to temp. corrected value				10.36	10.23	± 0.5 mg/L to temp. corrected value
0.0 mg/L Dissolved Oxygen	mg/L	QSI	08/13		<0.5	0.10	≥0 but <0.5	QSI	08/13		<0.5	0.15	≥0 but <0.5
pH													
pH 7		3AA535	01/15		7	6.96	6.8-7.2	3AA535	01/15		7	6.89	6.8-7.2
pH 4		3AB001	02/15										
pH 10		2206482	12/13										
Specific Conductance													
Calibration Specific Conductance #1	µS/cm	10304	04/14		1413	1411	+/-5% of Target Value						
Calibration Specific Conductance #2	µS/cm	3212	04/16		12880	12903	+/-5% of Target Value	3212	04/16		12880	12704	+/-5% of Target Value
Oxidation/Reduction Potential													
Temperature	°C			12.60						20.34			
ORP	mV	5100	10/17		246.6	245.2	+/-10 mV	5100	10/17		237.5	232.1	+/-10 mV
Other Criteria (Specify)													

Comments:



Title:

**TURBIDITY METER
FIELD CALIBRATION LOG SHEET**

SOP No: FS-006

Page: 1 of 1

Date: Apr. 2010

Rev.: 03

Prepared by: D. McGrath

Approved by: M. Summerlin

Nobis Engineering, Inc. nobisengineering.com**SITE INFORMATION**Site Name: Nu StyleProject Number/Task: 80078.03Personnel: Andy Robichaud**EQUIPMENT INFORMATION**Instrument Manufacturer and Model: Hach 2100gSerial No.: 110900012293 Name of Calibration Standards: NANobis No.: N/A Source of Calibration Standards: Pike**CALIBRATION LOG**

CALIBRATION OR CALIBRATION-CHECK DATE & TIME	VALUE OF STANDARD SOLUTIONS	CALIBRATION SOLUTION LOT NUMBER	CALIBRATION SOLUTION EXPIRATION DATE	CALIBRATION READING (NTU)	CALIBRATION CHECK (NTU)	ACCEPTANCE (Yes / No)	SIGNATURE	COMMENTS
5/15/13 0811	<u>10</u> NTU <u>100</u> NTU	<u>A2233</u> <u>A2235</u>	<u>08/13</u> <u>08/13</u>	<u>9.84</u> <u>101</u>	<u>9.95</u>	<u>Y</u>	<u>Andy Robichaud</u>	<u>[Signature]</u>
	____ NTU ____ NTU							
	____ NTU ____ NTU							
	____ NTU ____ NTU							
	____ NTU ____ NTU							
	____ NTU ____ NTU							
	____ NTU ____ NTU							
	____ NTU ____ NTU							
	____ NTU ____ NTU							
	____ NTU ____ NTU							

Notes:

1. Beginning-of-day post-calibration check acceptance range is to be within instrument accuracy (see equipment manual).
2. Midday or end-of-day calibration-check acceptance range is to be within +/- 5% of the value of the standard.



Nobis Engineering, Inc. nobisengineering.com

MULTIPARAMETER WATER PROBE FIELD CALIBRATION LOG SHEET

SOP No: FS-005

Page: 1 of 1

Draft Date: May 2010

Draft Rev.: 3

Prepared by:

Approved by:

SITE INFORMATION

Site Name: Nu Style

Project Number/Task: 80078.03

Personnel: David Carlson

Date of Calibration: 5/15/13

EQUIPMENT INFORMATION

Instrument Make/Model: YSI 600XL

Instrument Serial No.: NA

Name of Calibration Standards: NA

Nobis Identification No.: NA

Source of Calibration Standards: Pine

Instrument Cleaned & Inspected: Yes

Vendor Documentation Present: Yes

Morning Calibration

Afternoon Calibration Verification

Criteria	Units	Standard Lot Number	Standard Expiration Date	Reading / Measured Value	"Check" Target Value	"Check" Measured Value	Acceptable Value	Standard Lot Number	Standard Expiration Date	Reading / Measured Value	"Check" Target Value	"Check" Measured Value	Acceptable Value
Dissolved Oxygen (DO)													
DO Probe Charge				45.1			25-75			38.0			25-75
Barometric Pressure	mm Hg			752.2						250.6			
Temperature	°C			8.73						14.98			
100% Saturation	mg/L				11.60	11.65	± 0.2 mg/L to temp. corrected value				9.92	9.89	± 0.5 mg/L to temp. corrected value
0.0 mg/L Dissolved Oxygen	mg/L	051	5/13		<0.5	0.09	≥0 but <0.5	Same			<0.5	0.10	≥0 but <0.5
pH													
pH 7		2301257	12/14		7	7.02	6.8-7.2	Same			7	7.19	6.8-7.2
pH 4		3AB001	2/15										
pH 10		2200482	12/15										
Specific Conductance													
Calibration Specific Conductance #1	µS/cm	0AA223	1/14		1413	1413	+/-5% of Target Value						
Calibration Specific Conductance #2	µS/cm	3212	4/14		12580	12768	+/-5% of Target Value	Same		12880	12919		+/-5% of Target Value
Oxidation/Reduction Potential													
Temperature	°C			10.19						14.98			
ORP	mV	5100	10/17		250.5	250.5	+/-10 mV	Same		244	239.1		+/-10 mV
Other Criteria (Specify)													

Comments:



Nobis Engineering, Inc. nobisengineering.com

Title:

TURBIDITY METER FIELD CALIBRATION LOG SHEET

SOP No: FS-006

Page: 1 of 1

Date: Apr. 2010

Rev.: 03

Prepared by: D. McGrath

Approved by: M. Summerlin

SITE INFORMATION

Site Name: Nu Style

Project Number/Task: 80078.03

Personnel: David G. Gorman

EQUIPMENT INFORMATION

Instrument Manufacturer and Model: Hach 2100g

Serial No.: 10600010135 Name of Calibration Standards: Pine

Nobis No.: NA Source of Calibration Standards: Pine

CALIBRATION LOG

CALIBRATION OR CALIBRATION-CHECK DATE & TIME	VALUE OF STANDARD SOLUTIONS	CALIBRATION SOLUTION LOT NUMBER	CALIBRATION SOLUTION EXPIRATION DATE	CALIBRATION READING (NTU)	CALIBRATION CHECK (NTU)	ACCEPTANCE (Yes / No)	SIGNATURE	COMMENTS
5/15/13	10 NTU	1229	10/13	10.7	12.8	No		
	100 NTU	A2180	6/14	102	101	Yes		
	NTU							
	NTU							
	NTU							
	NTU							
	NTU							
	NTU							
	NTU							
	NTU							
	NTU							
	NTU							
	NTU							
	NTU							

- Notes:
1. Beginning-of-day post-calibration check acceptance range is to be within instrument accuracy (see equipment manual).
 2. Midday or end-of-day calibration-check acceptance range is to be within +/- 5% of the value of the standard.



Engineering a Sustainable Future

Low-Flow Field Log

Attachment B, Page 1 of 1

SOP No: SA-003

Date: Mar. 2010

Rev.: 2

Prepared by:

S. Bonis

Approved by:

M. Summerlin

Date: 8/21/2013 Page 1 of 2 Well ID: MW-1015

Field Personnel: DWC Purging Start Time: 9:28A

Well Depth as installed (ft.): 13 Measured Well Depth (ft.): 17.24

Screen Length in ft.: 5 Screen Depth in ft.: 13-13

Depth to GW (ft.): 17.24 From: PVC

Pump/Tubing Intake set (ft.): 14 From: PVC

Sample Designation: MW-1015

Sample Time: 11:20A

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments): PENSTAR

Multimeter model and serial number: YSI-556 MW-11K 161290 Turbidity meter model and serial number: HACH 21009

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Clock Time	Discharge / Refill / Pump Setting sec. / sec. or setting	Purge Rate ml/min	Depth to Water ft.	Draw down ft.	Cum. Draw down ft.	Temp. +/- 3% °C	Spec. Cond. +/- 3% µS/cm	pH +/- 0.1	ORP +/-10 mV	DO +/- 10% if >0.5 mg/L mg/L	Turbidity +/- 10% if > 5 NTU NTU	Comments / Gas Pressure / Observations
9:28			6.53									
9:33A		125±	6.57	0.04	0.04	18.51	1970	6.07	81.3	0.68		
9:39A			6.57	0.00	0.04	18.74	2143	5.86	102.5	1.01	137	
9:43A			6.57	0.00	0.04	18.55	2132	5.82	109.0	1.06	148	
9:48A		120±	6.58	0.01	0.05	18.63	2083	5.82	103.4	1.07	97.5	
9:53A		120±	6.58	0.00	0.05	18.39	2060	5.79	110.9	1.19	96.0	
9:58A		125±	6.58	0.00	0.05	18.37	2014	5.78	105.9	1.24	56.2	PUMP STOPPED ~ 1 MIN
10:03A		150±	6.59	0.01	0.06	18.21	2008	5.78	117.4	1.37	39.7	
10:10A		170±	6.59	0.00	0.06	17.82	1989	5.73	136.2	1.49	30.8	
10:15A		170±	6.59	0.00	0.06	17.69	1966	5.73	141.5	1.49	29.5	
10:20A		170±	6.59	0.00	0.06	17.80	1962	5.73	148.6	1.53	21.9	
10:25A		170±	6.59	0.00	0.06	17.80	1962	5.73	148.6	1.53	21.9	

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.



Engineering a Sustainable Future

Low-Flow Field Log

SOP No: SA-003

Date: Mar. 2010

Attachment B, Page 1 of 1

Rev.: 2

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 8/21/2013

Page 2 of 2

Well ID: MW-1013

Field Personnel: DWC

Well Depth as installed (ft.): 18

Screen Length in ft.: 6

Screen Depth in ft.: 13-18

Depth to GW (ft.): 6.53

From: PVC

Pump/Tubing Intake set (ft.): 14

From: PVC

Sample Designation: MW-1013

From: PVC

Sample Time: 11:20A

From: PVC

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments)

From: PVC

Multimeter model and serial number

From: PVC

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

From: PVC

Turbidity meter model and serial number

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From: PVC

Purging Start Time: 9:28A

From: PVC

Two Hour Time Limit Reached? (Circle) Yes / ☒ No

From: PVC

Time at Purge Completion: 11:26

From: PVC

Signature: _____

From: PVC

Time at Purge Completion: 11:26

From: PVC

Total Volume Purged, Including Drawdown (gallons): 3.5

From: PVC

Parameter Stabilization: (Circle) Yes / ☒ No

From: PVC

Measured Well Depth (ft.): 17.24

From



Engineering a Sustainable Future

Low-Flow Field Log

Attachment B, Page 1 of 1

SOP No: SA-003

Date: Mar. 2010

Rev.: 2

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 8-21-13

Page 1 of 1

Well ID: MW-101D

Field Personnel: JCM

Well Depth as installed (ft.): 75.0

Purging Start Time: 9:40

Screen Length in ft.: 6.07

Measured Well Depth (ft.): 33.03

Depth to GW (ft.): 6.07

Parameter Stabilization: (Circle) Yes / No

Pump/Tubing Intake set (ft.): 20.03

Two Hour Time Limit Reached? (Circle) Yes / No

Sample Designation: MW-101D

Total Volume Purged, Including Drawdown (gallons): 2.14

Sample Time: 11:05

Time at Purge Completion: 11:50

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments)

Signature: JCM

Multimeter model and serial number: V51556-136101141

Turbidity meter model and serial number: 2100-A-S/N 110900012176

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Clock Time	Discharge / Refill / Pump Setting sec./sec. or setting	Purge Rate ml/min	Depth to Water ft.	Draw down ft.	Cum. Draw down ft.	Temp. +/- 3% °C	Spec. Cond. +/- 3% µS/cm	pH +/- 0.1	ORP +/-10 mV	DO +/- 10% if >0.5 mg/L mg/L	Turbidity +/- 10% if > 5 NTU NTU	Comments / Gas Pressure / Observations
9:40		100	6.04	1.25	1.25	18.07	2643	6.25	159.0	0.36		ESTABLISH FLOW RATE
9:45		100	7.29	1.25	1.25	18.18	3030	6.26	163.3	0.33	12.5	
9:50		100	8.00	0.71	1.96	17.12	2900	6.24	164.7	0.35	5.41	
9:55		100	8.25	1.25	3.21	17.42	2997	6.25	165.0	0.37	11.6	
10:00		100	10.20	0.90	4.11	18.46	2967	6.26	163.7	0.36	7.17	
10:05		100	10.05	0.65	4.76	20.02	2944	6.26	162.1	0.39	7.36	
10:10		100	11.05	0.21	4.96	17.25	2960	6.28	162.2	0.41	4.54	
10:15		100	11.90	0.25	5.01	16.99	2921	6.33	161.6	0.47	3.81	
10:20		110	12.50	0.60	6.41	17.24	2879	6.38	154.9	0.65	7.52	
10:25		120	13.64	1.14	7.55	17.41	2876	6.40	158.4	0.83	4.99	
10:30		100	14.36	0.74	8.29	17.59	2860	6.41	156.9	1.00	4.68	
10:35		100	15.22	0.84	9.13							PUMP STOPPED - 20 S

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.

* Duplicates taken



Engineering a Sustainable Future

Low-Flow Field Log

8007803

Attachment B, Page 1 of 1

SOP No: SA-003

Date: Mar. 2010

Rev: 2

Prepared by:

S. Bonis

Approved by:

M. Summerlin

Date: 8-20-13 Page 1 of 1

Field Personnel: JWB

Well Depth as installed (ft.): 16

Screen Length in ft.: 5

Screen Depth in ft.: 11-16

Depth to GW (ft.): 9.07

From: PVC

From: PVC

Pump/Tubing Intake set (ft.): 13

Sample Designation: MW-02

Sample Time: 10:45

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments):

Multimeter model and serial number: Y157

Turbidity meter model and serial number: HACH 2100

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Clock Time	Discharge / Refill / Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/- 10	DO +/- 10% if > 0.5 mg/L	Turbidity +/- 10% if > 5 NTU	Comments / Gas Pressure / Observations
HHMM	sec. / sec. or setting	ml/min	ft.	ft.	ft.	°C	µS/cm		mV	mg/L	NTU	
9:45			9.07									
9:50		100	9.41	0.34	0.34	16.19	1752	6.73	90.5	1.54		
9:55		NR	READING	0.34	0.34	16.06	1743	6.67	76.1	1.50		
10:00		100	9.40	0.01	0.34	16.00	1740	6.64	70.1	1.22		
10:05		100	9.41	0.00	0.34	16.05	1729	6.59	58.9	1.06		
10:10		100	9.40	0.01	0.34	15.95	1728	6.57	51.5	0.99	360	
10:15		100	9.41	0.01	0.34	15.96	1722	6.52	40.4	0.88	368	
10:20		100	9.41	0.00	0.34	16.05	1723	6.47	37.2	0.89	368	
10:25		100	9.40	0.01	0.34	15.88	1718	6.44	30.4	0.86	352	
10:30		100	9.41	0.01	0.34	15.91	1718	6.40	24.3	0.86	381	
10:35		100	9.41	0.01	0.34	15.91	1718	6.40	24.3	0.86	381	
10:40		100	9.41	0.00	0.34	15.91	1718	6.40	24.3	0.86	381	

Notes:

All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.



Engineering a Sustainable Future

Low-Flow Field Log

Attachment B, Page 1 of 1

SOP No: SA-003

Rev.: 2

Date: Mar. 2010

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 8-20-13 Page 1 of 1

Field Personnel: SA JCM

Well Depth as installed (ft.): 29

Screen Length in ft.: 5 Screen Depth in ft.: 24-29

Depth to GW (ft.): 10.60 From: PC

Pump/Tubing Intake set (ft.): 26 From: PC

Sample Designation: MW-102D

Sample Time: 9:55

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments): Groundwater Pump

Multimeter model and serial number: MS556 Turbidity meter model and serial number: ACH 210

Notes: (initial wellhead PID/FID readings, deviations from SOP, etc.)

Well ID: MW-102D

Purging Start Time: 8:49

Measured Well Depth (ft.): 29.05

Parameter Stabilization: (Circle) Yes / No

Two Hour Time Limit Reached? (Circle) Yes / No

Total Volume Purged, Including Drawdown (gallons): 7

Time at Purge Completion: 10:03

Signature: [Signature]

Clock Time	HHMM	Discharge / Refill / Pump Setting sec. / sec. or setting	Purge Rate ml/min	Depth to Water ft.	Draw down ft.	Cum. Draw down ft.	Temp. +/- 3% °C	Spec. Cond. +/- 3% µS/cm	pH +/- 0.1	ORP +/- 10 mV	DO +/- 10% if > 0.5 mg/L mg/L	Turbidity +/- 10% if > 5 NTU NTU	Comments / Gas Pressure / Observations
8:49			120	9.94	0.18	0.18	15.40	2272	6.78	181.4	0.51		
8:51			100	10.42	0.12	0.30	15.32	2244	6.72	164.4	0.41		
8:57			100	10.54	0.17	0.47	14.92	2257	6.62	160.9	0.31		
9:04			100	10.71	0.03	0.50	15.09	2314	6.56	161.6	0.64	3.80	
9:09			100	10.68	0.02	0.52	15.13	2396	6.41	163.4	1.43	4.47	
9:14			100	10.66	0.01	0.53	15.00	2396	6.35	165.8	2.07	2.54	
9:19			120	10.70	0.00	0.53	14.99	2407	6.30	166.2	2.73	1.75	
9:24			100	10.60	0.05	0.58	15.11	2416	6.23	170.4	3.10	3.71	
9:29			100	10.65	0.02	0.60	15.21	2418	6.28	170.7	3.08	2.54	
9:34			100	10.67	0.04	0.64	15.13	2423	6.19	172	3.21	1.81	
9:39			100	10.71	0.04	0.68	15.13	2423	6.19	172	3.21	1.81	
9:55			SAMPLE	CHARGED	9:55								

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.



Low-Flow Field Log

Attachment B, Page 1 of 1

SOP No: SA-003

Date: Mar. 2010

Rev.: 2

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 6-20-13 Page 1 of 1

Field Personnel: JCM

Well Depth as installed (ft.): 20

Screen Depth in ft. 15-20

Screen Length in ft. 5

Depth to GW (ft.): 9.06

Pump/Tubing Intake set (ft.): 16.36

Sample Designation

Sample Time 15:20

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments)

Multimeter model and serial number 451556

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Well ID: AU-1035

Purging Start Time: 1425

Measured Well Depth (ft.): 19.36

Parameter Stabilization: (Circle) Yes / No

Two Hour Time Limit Reached? (Circle) Yes / No

Total Volume Purged, Including Drawdown (gallons): 1.5

Time at Purge Completion: 15:45

Signature: [Signature]

Turbidity meter model and serial number 2100R-01

Clock Time	HEMM	Discharge/Refill/Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/- 10	DO +/- 10% if > 0.5 mg/L	Turbidity +/- 10% if > 5 NTU	Comments / Gas Pressure / Observations
14:25			100	9.06			18.54	1911	6.77	-35.4	0.33	9.60	
14:30			100	10.15	1.14	1.11	19.22	1943	6.78	-55.2	0.30	9.73	
14:35			100	10.21	0.06	1.17	19.07	1935	6.79	-37.0	0.27	0.93	
14:40			100	10.22	0.06	1.17	18.73	1901	6.30	-30.8	0.21	3.39	
14:45			100	10.29	0.07	1.24	18.85	1889	6.33	-34.3	0.15	3.76	
14:50			100	10.34	0.05	1.29	18.48	1879	6.37	-20.8	0.23	2.90	
14:55			100	10.25	0.09	1.20	19.49	1910	6.30	-9.6	0.23	4.96	
15:00			100	10.28	0.03	1.23	18.70	1882	6.39	-41	0.21	4.1	
15:05			100	10.36	0.02	1.25	18.83	1883	6.41	6.2	0.19	3.43	
15:10			100	10.30	0.00	1.25	18.86	1876	6.41	9.8	0.21	1.31	
15:15			100	10.31	0.01	1.26	18.95	1883	6.40	13.00	0.16	3.42	

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.



Low-Flow Field Log

Attachment B, Page 1 of 1

SOP No: SA-003

Rev.: 2

Date: Mar. 2010

Prepared by:

S. Bonis

Engineering a Sustainable Future

Approved by:

M. Summerlin

Date: 8.20

Page 1 of 1

Well ID: MW-1032

Field Personnel: SNG

Purging Start Time: 14:16

Measured Well Depth (ft.): 25.10

Screen Depth in ft. 20-25

From: PVC

From: PVC

Depth to GW (ft.): 9.81

Pump/Tubing Intake set (ft.): 72

Sample Designation: MW-1032

Sample Time: 15:20

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments)

Multimeter model and serial number

Notes: (initial wellhead PID/FID readings, deviations from SOP, etc.)

Clock Time	HHMM	Discharge / Refill / Pump Setting sec. / sec. or setting	Purge Rate ml/min	Depth to Water ft.	Draw down ft.	Cum. Draw down ft.	Temp. +/- 3% °C	Spec. Cond. +/- 3% µS/cm	pH +/- 0.1	ORP +/-10 mV	DO +/- 10% if >0.5 mg/L mg/L	Turbidity +/- 10% if >5 NTU NTU	Comments / Gas Pressure / Observations
14:16		100	100	9.81	~	-	FW	cell, 40.55	6.60	-804	0.33		EXCESSIVE DRAWDOWN
14:24		100	100	11.55	1.74		17.59	2355	6.60	-804	0.33		INCREASING RATE TO SEE IF IN
14:30		80	80	12.42	0.87		18.12	2060	6.50	-103.7	0.32		WELL STABILIZED
14:35		80	80	13.19			18.12	1945	6.45	-101.7	0.35		
14:40		80	80	14.56			18.79	1831	6.37	-122.3	0.34		
14:45		80	80	15.58			18.89	1804	6.35	-124.6	0.33	4.97	
14:50		80	80	15.91			18.52	1753	6.28	-127.1	0.34	4.43	
14:55		80	80	16.60			18.50	1754	6.24	-126.9	0.33		
15:00		80	80	17.19			17.98	1744	6.15	-124.0	0.33	1.78	
15:05		80	80	17.93			18.03	1742	6.16	-128.0	0.35	1.21	
15:10		80	80	18.73			18.16	1745	6.17	-133.5	0.37	1.09	
15:14		80	80				17.69	1747	6.16	-134.0	0.38	0.82	

Notes: All depths in feet below top of PVC unless specified.

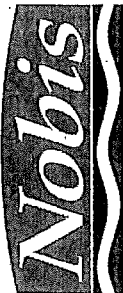
NR = No Reading

Use the back of the log to record additional observations and descriptions.

1.35 gal add > 1.13 purged

3705 ml/kg

2000



Engineering a Sustainable Future

Low-Flow Field Log

80078.03

Attachment B, Page 1 of 1

SOP No: SA-003

Date: Mar. 2010

Rev.: 2

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 8-20-13 Page 1 of 1 Well ID: WW-1045

Field Personnel YCM JMD

Well Depth as installed (ft.): 178

Screen Length in ft. 5 Screen Depth in ft. 13-18

Depth to GW (ft.): 10.29

Pump/Tubing Intake set (ft.): 16

Sample Designation MWS-1045

Sample Time 12:00

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments) Geosmo #490

Multimeter model and serial number YSI 115562-4M Turbidity meter model and serial number 13070C026029 110421008

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.) Sight shown in bucket

Purging Start Time: 10:58

Measured Well Depth (ft.): 18.28

Parameter Stabilization: (Circle) Yes / (No) Turbidity

Two Hour Time Limit Reached? (Circle) Yes / (No) No

Total Volume Purged, Including Drawdown (gallons): 2

Time at Purge Completion: 12:03

Signature: [Signature]

Clock Time	Discharge / Refill / Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/- 10	DO		Turbidity	Comments / Gas Pressure / Observations
										+/- 10% if >0.5 mg/L	mg/L	+/- 10% if > 5 NTU	
10:58		120	10.29	0.00	0.00	18.43	2294	8.16	82.6	0.57		113	
11:05		120	10.41	0.00	0.00	18.43	2333	7.34	82.9	0.50			
11:10		100	10.41	0.00	0.00	18.43	2333	7.05	82.6	0.51		49.7	
11:15		100	10.41	0.00	0.00	18.05	2281	7.01	80.7	0.50			
11:20		100	10.42	0.01	0.01	17.67	2315	6.90	81.2	0.53		23.7	
11:25		100	10.42	0.00	0.00	17.76	2341	6.80	80.7	0.54		21.5	
11:30		100	10.42	0.00	0.00	17.72	2358	6.73	80.7	0.61		15.2	
11:35		100	10.42	0.00	0.00	17.72	2358	6.73	80.7	0.61		15.2	
11:40		100	10.43	0.01	0.01	17.72	2371	6.70	79.7	0.65		14.0	
11:45		100	10.42	0.01	0.01	17.57	2378	6.66	80.1	0.64		9.26	
11:50		100	10.43	0.01	0.01	17.68	2392	6.60	79.6	0.72		9.48	
11:55		100	10.43	0.00	0.00	17.26	2392	6.59	79.1	0.71		8.10	

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.



Low-Flow Field Log

80078.03

SOP No: SA-003
Date: Mar. 2010
Prepared by: S. Bonis
Approved by: M. Summerlin

Date: 8-26-13 **Page:** 1 of 1

Field Personnel: JCM

Well Depth as installed (ft.): 29 **Screen Depth in ft.** 24-29

Screen Length in ft. 5 **From:** PVC

Depth to GW (ft.): 9.81 **From:** PVC

Pump/Tubing Intake set (ft.): 25.37

Sample Designation: MW-104D

Sample Time: 11:45

Well ID: MW-104D **Purging Start Time:** 11:00

Measured Well Depth (ft.): 28.37

Parameter Stabilization: (Circle) Yes / No

Two Hour Time Limit Reached? (Circle) Yes / No

Total Volume Purged, Including Drawdown (gallons): 2

Time at Purge Completion: 11:50

Signature: *[Signature]*

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments) GEOPUMP - 511

Multimeter model and serial number 451 556 815563 - 10M **Turbidity meter model and serial number** 2100 0-01

Notes: (initial wellhead PID/FID readings, deviations from SOP, etc.)

Clock Time	Discharge/Refill/Pump Setting sec./sec. or setting	Purge Rate ml/min	Depth to Water ft.	Draw down ft.	Cum. Draw down ft.	Temp. +/- 3% °C	Spec. Cond. +/- 3% µS/cm	pH +/- 0.1	ORP +/-10 mV	DO +/- 10% if >0.5 mg/L mg/L	Turbidity +/- 10% if >5 NTU NTU	Comments / Gas Pressure / Observations
11:00		100	9.81	-	-	17.58	2842	6.43	172.3	2.05	-	
11:05		120	10.01	0.20	0.20	17.27	2842	6.32	168.9	2.03	-	
11:10		120	10.04	0.03	0.23	17.01	2815	6.24	164.0	2.11	28.2	
11:15		120	10.05	0.01	0.24	16.94	2801	6.20	160.2	2.16	14.6	
11:20		140	10.07	0.02	0.28	16.87	2791	6.18	156	5.65	10.0	
11:25		140	10.10	0.03	0.29	16.42	2760	6.17	150.7	2.22	5.67	
11:30		140	10.10	0.00	0.29	16.54	2759	6.15	147	2.18	4.44	
11:35		150	10.11	0.01	0.30	16.41	2753	6.14	143.5	2.22	3.77	
11:40		150	10.11	0.00	0.30	16.50	2748	6.12	138.9	2.15	2.68	
11:45		Sample collected										

Notes: All depths in feet below top of PVC unless specified.
NR = No Reading
Use the back of the log to record additional observations and descriptions.

R:\Standard Operating Procedures\Field Forms\Sampling



Engineering a Sustainable Future

Low-Flow Field Log

Attachment B, Page 1 of 1

SOP No: SA-003

Rev.: 2

Date: Mar. 2010

Prepared by: S. Bonis

Approved by: M. Summerlin

Date: 8-20-13 Page 1 of 1

Field Personnel: JNB

Well Depth as installed (ft.): 24

Screen Length in ft.: 6

Screen Depth in ft.: 19-24

Depth to GW (ft.): 9.43

From: DKC

Pump/Tubing Intake set (ft.): 21

From: DKC

Sample Designation: MW-1053

Sample Time: 1330

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments): _____

Multimeter model and serial number: _____

Turbidity meter model and serial number: _____

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.) _____

Well ID: MW-1053

Purging Start Time: 1245

Measured Well Depth (ft.): 23.42

Parameter Stabilization: (Circle) Yes / No 2

Two Hour Time Limit Reached? (Circle) Yes / No 2

Total Volume Purged, Including Drawdown (gallons): _____

Time at Purge Completion: 1333

Signature: [Signature]

Clock Time	Discharge / Refill / Pump Setting sec. / sec. or setting	Purge Rate ml/min	Depth to Water	Draw down ft.	Cum. Draw down ft.	Temp. +/- 3% °C	Spec. Cond. +/- 3% µS/cm	pH +/- 0.1	ORP +/-10 mV	DO +/- 10% if >0.5 mg/L mg/L	Turbidity +/- 10% if > 5 NTU NTU	Comments / Gas Pressure / Observations
1245		160	9.43		0.02	16.64	2488	6.36	-13.0	1.63	16.6	
1250		120	9.45	0.01	0.03	16.16	2492	5.72	5.0	2.66		
1255		150	9.46	0.01	0.04	15.90	2490	5.73	-0.4	2.63		
1300		120	9.47	0.01	0.04							
1305		120	9.47	0.01	0.04							
1308		150	9.47	0.01	0.04	15.78	2492	5.75	-2.0	2.55	16.6	
1315		150	9.47	0.01	0.04	15.80	2492	5.74	-1.5	2.41	2.34	
1320		150	9.47	0.01	0.04	15.78	2492	5.74	0.5	2.54	1.56	
1325		150	9.46	0.01	0.03	15.71	2491	5.77	-0.4	2.57	1.07	
1330		Surge	Surge	Surge	Surge							

Notes: All depths in feet below top of PVC unless specified.
NR = No Reading
Use the back of the log to record additional observations and descriptions.



Low-Flow Field Log

Attachment B, Page 1 of 1

SOP No: SA-003

Date: Mar. 2010

Rev.: 2

Prepared by:

S. Bonis

Approved by:

M. Summerlin

Date: 8.21.13

Page 1 of 1

Well ID: MW-1065

Field Personnel: PWC

Well Depth as installed (ft.):

Purging Start Time: 1218

Screen Length in ft.:

Measured Well Depth (ft.): 14.99

Depth to GW (ft.): 5.27

Parameter Stabilization: (Circle) Yes / No

Pump/Tubing Intake set (ft.):

Two Hour Time Limit Reached? (Circle) Yes / No

Sample Designation

Total Volume Purged, Including Drawdown (gallons): 1.06 GAL

Sample Time: 13:08

Time at Purge Completion: 1318

Signature:

Signature: GEORGE EASY-LOAD II

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments)

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments) YSI 55C MPS 06K1082 Turbidity meter model and serial number HACH 2600/130700026629

Multimeter model and serial number

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Clock Time	Discharge/Refill/Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/- 10	DO +/- 10% if > 0.5 mg/L	Turbidity +/- 10% if > 5 NTU	Comments / Gas Pressure / Observations
12:180												BEGIN PUMP ADJUST RATE
12:220		12.5	6.47	0.5	1.07	22.65	666	6.14	96.3	0.40	7.50	
12:270		13.0	7.54	1.07	1.07	22.57	665	6.11	95.6	0.35	8.24	ADJUST RATE
12:320		12.0	8.42	0.88	1.95	22.84	662	6.13	93.3	0.55	5.20	
12:370		9.0	9.21	0.79	2.74	23.34	657	6.19	89.6	0.85	2.96	MINIMUM PUMP RATE
12:420		9.0	9.90	0.69	3.43	23.50	657	6.24	87.0	1.28	1.95	
12:470		9.0	10.60	0.70	4.13	23.54	656	6.26	85.6	1.84	1.97	
12:520		10.0	11.04	0.44	4.57	22.57	656	6.16	87.9	1.60	3.88	
12:570		10.0	11.46	0.42	4.99	22.72	654	6.22	87.4	2.44	3.82	
13:02		10.0	11.98	0.52	5.51	22.75	657	6.17	88.0	2.40	4.08	
13:07		10.0	12.30	0.32	5.83	22.50	660	6.16	87.8	2.22	4.95	
												13.09 - TAKE SAMPLES, THEN PURGE WELL
												13:23 EMPTY - TOTAL

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.



Engineering a Sustainable Future

Low-Flow Field Log

SOP No: SA-003

Attachment B, Page 1 of 1

Date: Mar. 2010

Rev.: 2

Prepared by:

S. Bonis

Approved by:

M. Summerlin

Date: 8-24-13

Page 1 of 1

Well ID: MW-106D

Field Personnel JCM

Well Depth as installed (ft.): 5CM

Screen Length in ft.:

Screen Depth in ft.:

Depth to GW (ft.): 5.87

From:

From:

Pump/Tubing Intake set (ft.): 28.90

Sample Designation

Sample Time 13:20

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments)

Multimeter model and serial number 451556-1301041

Turbidity meter model and serial number 2400-5A11090C012132

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Clock Time	Discharge / Refill / Pump Setting sec. / sec. or setting	Purge Rate ml/min	Depth to Water ft.	Draw down ft.	Cum. Draw down ft.	Temp. +/- 3% °C	Spec. Cond. +/- 3% µS/cm	pH +/- 0.1	ORP +/- 10 mV	DO +/- 10% if > 0.5 mg/L mg/L	Turbidity +/- 10% if > 5 NTU NTU	Comments / Gas Pressure / Observations
12:21		100	5.87									
12:26		100	6.63	0.74	0.74	25.82	963	7.06	8.0	0.57	10.3	
12:31		100	7.23	0.70	1.44	25.46	961	7.07	-8.7	0.31	19.4	
12:36		100	8.25	1.02	2.46	24.49	957	7.08	-31.1	0.47	11.7	
12:41		100	9.30	1.05	3.51	24.75	945	7.08	-45.1	0.28	17.4	
12:46		100	10.01	0.70	4.27	23.81	945	7.09	-59.4	0.27	19.7	
12:51		100	11.04	1.03	5.30	23.55	940	7.08	-64.2	0.25	17.3	
12:56		100	11.51	0.47	5.77	23.44	940	7.08	-67	0.26	18	
13:01		100	12.36	0.85	6.62	24.60	941	7.08	-79.9	0.24	20.3	
13:06		100	13.00	0.64	7.26	23.31	938	7.08	-83.8	0.21	19.6	
13:11		100	13.56	0.56	7.82	23.39	936	7.07	-83.0	0.21	19.7	
13:16		100	14.02	0.46	8.28	23.37	933	7.06	-84.7	0.21	20.6	

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.

13:20

collect sample

then purge down well

to possibly sample recharge instead

Nobis Engineering, Inc.



Engineering a Sustainable Future

Low-Flow Field Log

Attachment B, Page 1 of 1

SOP No: SA-003

Date: Mar. 2010

Rev.: 2

Prepared by:

S. Bonis

Approved by:

M. Summerlin

Date: 8/21/13

Page 1 of 2

Well ID: MW-1

Field Personnel

DWC

Well Depth as installed (ft.): 12

Screen Depth in ft. 2-12

Depth to GW (ft.): 4.73

Pump/Tubing Intake set (ft.):

From: PVC

Sample Designation

From:

Sample Time

Time at Purge Completion: 14:55

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments)

Signature:

Multimeter model and serial number

GEOPUMP PDSY-LOAP 11

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Turbidity meter model and serial number

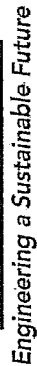
HACH 2100Q/13070C026629

Clock Time	Discharge / Refill / Pump Setting sec. / sec. or setting	Purge Rate ml/min	Depth to Water ft.	Draw down ft.	Cum. Draw down ft.	Temp. +/- 3% °C	Spec. Cond. +/- 3% µS/cm	pH +/- 0.1	ORP +/- 10 mV	DO +/- 10% if > 0.5 mg/L mg/L	Turbidity +/- 10% if > 5 NTU NTU	Comments / Gas Pressure / Observations
13:50			4.73	—	—	21.21	543	6.45	-9.1	0.66	48.9	START PUMP, ADJUST RATE
13:55		180	4.98	0.25	0.25	21.36	542	6.28	-23.9	0.32	52.6	REDUCE FLOW RATE
14:00		190	4.98	0.00	0.25	21.48	542	6.21	-26.9	0.26	36.5	
14:05		190	4.99	0.01	0.26	21.77	542	6.24	-32.9	0.28	57.6	
14:10		190	4.99	0.00	0.26	21.23	541	6.19	-34.1	0.25	24.9	— ?
14:15		190	4.99	0.00	0.26	21.52	541	6.19	-37.2	0.24	40.1	
14:20		180	4.99	0.00	0.26	21.25	540	6.14	-36.8	0.22	37.8	
14:25		180	4.99	0.00	0.26	21.51	542	6.21	-43.2	0.21	53.0	
14:30		180	4.99	0.00	0.26	21.30	541	6.19	-43.6	0.21	47.6	
14:35		180	4.99	0.00	0.26	21.45	541	6.15	-43.7	0.19	37.3	
14:40		190	4.99	0.00	0.26	21.27	541	6.16	-46.2	0.18	39.3	
14:45		170	4.99	0.00	0.26	21.27	541	6.16	-46.2	0.18	39.3	CONTINUED ON PAGE 2

Notes: All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.



Low-Flow Field Log

Attachment B, Page 1 of 1

SOP No: SA-003

Rev.: 2

Date: Mar. 2010

S. Bonis

Prepared by:

M. Summerlin

Page 2 of 2

Well ID: MW-1

Field Personnel

Field Personnel

Well Depth as installed (ft.):

Well Depth as installed (ft.): 12

Screen Length in ft.	Screen Depth in ft.
10	

Screen Depth in ft. 2-12

Depth to GW (ft.): 4.73

From: PVC

Pump/Tubing Intake set (ft.):

From:

Sample Designation

32

Sample Time

100

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments) GEOPUMP EASY-LOAD II

Multimeter model and serial number 431 556 MS / 06K 1082
Turbidity meter model and serial number HACH 2100Q / 13070C026629

Notes: (initial wellhead PID/PD reading, deviations from SOP, etc.)

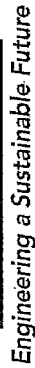
[illegible]

Notes:

All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.



Attachment B, Page 1 of 1

SOP No: SA-003

Rev.: 2

Prepared by:

S. Bonis

Approved by:

M. Summerlin

Date: 5-21

Page of

Well ID: NW-2

Field Personnel

100

Well Depth as installed (ft.):

Measured Well Depth (ft.):	9.15
----------------------------	------

Screen Length in ft.

Parameter Stabilization: (C)

From: PVC

Two Hour Time Limit Reached ? (Circle) Yes / No

Pump/Tubing Intake set (ft.): _____

From:

Sample Designation

Time at Purge Completion:

Sample Time 18:10

Signature:

Sample time 0. Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments)

Multimeter model and serial number

Turbidity meter model and serial number

Notes: (initial we'll head PIR/ED reading deviations from SOP etc)

BATH SMOKE

[illegible]

Notes:

All depths in feet below top of PVC unless specified.

NR = No Reading

Use the back of the log to record additional observations and descriptions.

3
0



Engineering a Sustainable Future

Low-Flow Field Log

SOP No: SA-003

Date: Mar. 2010

Rev.: 2

Prepared by:

S. Bonis

Approved by:

M. Summerlin

Date: 4-21 Page 1 of 1

Field Personnel SCM

Well Depth as installed (ft.): 14

Screen Length in ft. 10 Screen Depth in ft. 4-14

Depth to GW (ft.): 4.53 From: PVC

Pump/Tubing Intake set (ft.): 14.60 From: PVC

Sample Designation MW-17

Sample Time 14:00

Pump Type (include pressure, discharge, and recharge for bladder pump under pump setting and comments) YSI 55C - 13201041

Multimeter model and serial number YSI 55C - 13201041 Turbidity meter model and serial number 2100Q - 810 11090002176

Notes: (initial wellhead PID/FID reading, deviations from SOP, etc.)

Clock Time	Discharge / Refill / Pump Setting	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp. +/- 3%	Spec. Cond. +/- 3%	pH +/- 0.1	ORP +/- 10	DO +/- 10% if > 0.5 mg/L	Turbidity +/- 10% if > 5 NTU	Comments / Gas Pressure / Observations
HHMM	sec. / sec. or setting	ml/min	ft.	ft.	ft.	°C	µS/cm		mV	mg/L	NTU	
13:52		120	4.53	—	—	22.00	640	6.55	-53.5	0.60	48.9	
13:57		120	4.56	0.03	0.03	22.00	643	6.54	-76.8	0.24	41.4	
14:05		120	4.51	0.00	0.03	22.55	603	6.55	-74.4	0.23	27.3	
14:10		120	4.56	0.00	0.03	22.75	629	6.54	-74.4	0.22	31.9	
14:15		120	4.54	0.00	0.03	22.60	710	6.53	-65.4	0.18	38.9	
14:20		120	4.58	0.01	0.02	21.88	611	6.55	-72.2	0.19	40.5	
14:25		140	4.56	0.00	0.03	21.89	607	6.55	-72.9	0.18	37.5	
14:30		160	4.56	0.00	0.03	22.03	600	6.54	-66.3	0.16	30.5	
14:35		160	4.56	0.00	0.03	22.23	597	6.55	-71.1	0.14	30.1	
14:40		160	4.56	0.00	0.03	22.75	600	6.54	-73.7	0.12	20.3	
14:45		160	4.57	0.01	0.04	22.17	600	6.54				

Notes: All depths in feet below top of PVC unless specified.
NR = No Reading
Use the back of the log to record additional observations and descriptions.

A P P E N D I X C

May 17, 2013

Gail DeRuzzo
Nobis Engineering
585 Middlesex Street
Lowell, MA 01851

Project Location: 80078
Client Job Number:
Project Number: 80078
Laboratory Work Order Number: 13E0369

Enclosed are results of analyses for samples received by the laboratory on May 10, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

Nobis Engineering
585 Middlesex Street
Lowell, MA 01851
ATTN: Gail DeRuzzo

REPORT DATE: 5/17/2013

PURCHASE ORDER NUMBER: MO-13-008

PROJECT NUMBER: 80078

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13E0369

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 80078

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
D05361	13E0369-01	Soil	MW102D-0406	SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C	
D05362	13E0369-02	Soil	DUP-01	SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C	
D05363	13E0369-03	Trip Blank Soil	Trip Blank-01	SW-846 8260C	
D05364	13E0369-04	Soil	MW105D-1012	SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C	
D05365	13E0369-05	Soil	MW101D-0608	SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C	
D05366	13E0369-06	Soil	MW106D-0406	SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

TABLE OF CONTENTS

- 1.) Cover Page
- 2.) Analytical Summary
- 3.) Case Narrative Summary
- 4.) Sample Results
- 5.) Sample Preparation Introduction
- 6.) Quality Control Summary
- 7.) Flag/Qualifier Summary
- 8.) Certifications
- 9.) Chain of Custody/Sample Receipt Checklist
- 10.) MCP Certification Form

For method 6010, only PP13 metals, Ba and V results were requested and reported.

SW-846 6010C**Qualifications:**

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:**Beryllium**

13E0369-01[D05361], 13E0369-02[D05362]

Result is serial dilution as per MA CAM/ CT RCP regulation.

Analyte & Samples(s) Qualified:

B072873-DUP2

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

Analyte & Samples(s) Qualified:**Lead**

13E0369-01[D05361], 13E0369-02[D05362], 13E0369-04[D05364], 13E0369-06[D05366], B072873-MRL1

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**Antimony**

13E0369-05[D05365], B072873-MS1, B072873-MSD1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Copper, Zinc**

B073089-MSD1, B072873-MS1

SW-846 8260C**Qualifications:**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**Acetone**

B072892-BS1, B072892-BSD1

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Bromoform**

13E0369-01[D05361], 13E0369-02[D05362], 13E0369-03[D05363], 13E0369-04[D05364], 13E0369-05[D05365], 13E0369-06[D05366], B072892-BLK1, B072892-BS1, B072892-BSD1, B072996-BLK1, B072996-BS1, B072996-BSD1, B072996-MS1, B072996-MSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), Acetone, Naphthalene

B072996-BS1, B072996-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**Hexachlorobutadiene**

B072996-BS1

Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

Analyte & Samples(s) Qualified:**2-Butanone (MEK), Acetone, Bromomethane, Dichlorodifluoromethane (Freon 12)**

B072892-BS1, B072892-BSD1, B072996-BS1

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**1,1,1,2-Tetrachloroethane, 1,4-Dichlorobenzene, Bromobenzene, Chlorodibromomethane, cis-1,3-Dichloropropene, Dichlorodifluoromethane (Freon 12), Styrene, trans-1,3-Dichloropropene**

13E0369-05[D05365], B072996-MS1, B072996-MSD1

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), Bromoform, Bromomethane, Hexachlorobutadiene, Naphthalene**

13E0369-05[D05365], B072996-MS1, B072996-MSD1

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**1,1,2,2-Tetrachloroethane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 2-Hexanone (MBK), n-Butylbenzene**

B072996-MS1, B072996-MSD1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Bromomethane, Hexachlorobutadiene**

13E0369-01[D05361], 13E0369-02[D05362], 13E0369-03[D05363], 13E0369-04[D05364], 13E0369-05[D05365], 13E0369-06[D05366], B072892-BLK1, B072892-BS1, B072892-BSD1, B072996-BLK1, B072996-BS1, B072996-BSD1, B072996-MS1, B072996-MSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,1,1,2-Tetrachloroethane, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), Bromoform, Dichlorodifluoromethane (Freon 12), Hexachlorobutadiene, Naphthalene**

13E0369-04[D05364], 13E0369-05[D05365], 13E0369-06[D05366], B072996-BLK1, B072996-BS1, B072996-BSD1, B072996-MS1, B072996-MSD1, 13E0369-01[D05361], 13E0369-02[D05362], 13E0369-03[D05363], B072892-BLK1, B072892-BS1, B072892-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

13E0369-01[D05361], 13E0369-02[D05362], 13E0369-03[D05363], 13E0369-04[D05364], 13E0369-05[D05365], 13E0369-06[D05366], B072892-BLK1, B072892-BS1, B072892-BSD1, B072996-BLK1, B072996-BS1, B072996-BSD1, B072996-MS1, B072996-MSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Acetone**B072892-BS1, B072892-BSD1, B072996-BS1, B072996-BSD1

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

Project Location: 80078

Sample Description: MW102D-0406

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05361

Sampled: 5/7/2013 10:40

Sample ID: 13E0369-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Bromoform	ND	0.0023	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Bromomethane	ND	0.012	mg/Kg dry	1	R-05	SW-846 8260C	5/13/13	5/13/13 17:09	MFF
2-Butanone (MEK)	ND	0.046	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Carbon Disulfide	ND	0.0069	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Chloroethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Chloroform	ND	0.0046	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.012	mg/Kg dry	1	V-05	SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,1-Dichloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Diethyl Ether	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1	V-16	SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF

Project Location: 80078

Sample Description: MW102D-0406

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05361

Sampled: 5/7/2013 10:40

Sample ID: 13E0369-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	5/13/13	5/13/13 17:09	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Methylene Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Naphthalene	ND	0.012	mg/Kg dry	1	V-05	SW-846 8260C	5/13/13	5/13/13 17:09	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Tetrachloroethylene	0.0035	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,2,3-Trichlorobenzene	ND	0.0046	mg/Kg dry	1	V-05	SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,2,4-Trichlorobenzene	ND	0.012	mg/Kg dry	1	V-05	SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
m+p Xylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	115	70-130	5/13/13 17:09
Toluene-d8	102	70-130	5/13/13 17:09
4-Bromofluorobenzene	88.8	70-130	5/13/13 17:09

Project Location: 80078

Sample Description: MW102D-0406

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05361

Sampled: 5/7/2013 10:40

Sample ID: 13E0369-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP
Barium	43	2.7	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP
Beryllium	ND	0.54	mg/Kg dry	2	DL-04	SW-846 6010C	5/13/13	5/15/13 18:52	OP
Cadmium	0.35	0.27	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP
Chromium	29	0.54	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP
Copper	10	0.54	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP
Lead	49	0.81	mg/Kg dry	1	M-10	SW-846 6010C	5/13/13	5/15/13 18:21	OP
Mercury	0.052	0.027	mg/Kg dry	1		SW-846 7471B	5/11/13	5/13/13 13:56	SAJ
Nickel	14	0.54	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP
Vanadium	16	1.1	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP
Zinc	93	1.1	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:16	OP

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Project Location: 80078

Sample Description: MW102D-0406

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05361

Sampled: 5/7/2013 10:40

Sample ID: 13E0369-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.7		% Wt	1		SM 2540G	5/13/13	5/14/13 11:52	RH

Project Location: 80078

Sample Description: DUP-01

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05362

Sampled: 5/7/2013 10:45

Sample ID: 13E0369-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Benzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Bromobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Bromochloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Bromodichloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Bromoform	ND	0.0024	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Bromomethane	ND	0.012	mg/Kg dry	1	R-05	SW-846 8260C	5/13/13	5/13/13 17:36	MFF
2-Butanone (MEK)	ND	0.048	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
n-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
sec-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
tert-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Carbon Disulfide	ND	0.0072	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Carbon Tetrachloride	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Chlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Chloroethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Chloroform	ND	0.0048	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
2-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
4-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Dibromomethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,2-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,3-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,4-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.012	mg/Kg dry	1	V-05	SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,1-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,2-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,1-Dichloroethylene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
cis-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
trans-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
2,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,1-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Diethyl Ether	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1	V-16	SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Ethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF

Project Location: 80078

Sample Description: DUP-01

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05362

Sampled: 5/7/2013 10:45

Sample ID: 13E0369-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0024	mg/Kg dry	1	V-05	SW-846 8260C	5/13/13	5/13/13 17:36	MFF
2-Hexanone (MBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Isopropylbenzene (Cumene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0048	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Methylene Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Naphthalene	ND	0.012	mg/Kg dry	1	V-05	SW-846 8260C	5/13/13	5/13/13 17:36	MFF
n-Propylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Styrene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Tetrachloroethylene	0.0036	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Toluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,2,3-Trichlorobenzene	ND	0.0048	mg/Kg dry	1	V-05	SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,2,4-Trichlorobenzene	ND	0.012	mg/Kg dry	1	V-05	SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,1,1-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,1,2-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Trichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,2,3-Trichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,2,4-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
1,3,5-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
m+p Xylene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF
o-Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	5/13/13	5/13/13 17:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	116	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	88.6	70-130	

Project Location: 80078

Sample Description: DUP-01

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05362

Sampled: 5/7/2013 10:45

Sample ID: 13E0369-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP
Barium	46	2.7	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP
Beryllium	ND	0.54	mg/Kg dry	2	DL-04	SW-846 6010C	5/13/13	5/15/13 18:58	OP
Cadmium	0.37	0.27	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP
Chromium	15	0.54	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP
Copper	13	0.54	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP
Lead	43	0.82	mg/Kg dry	1	M-10	SW-846 6010C	5/13/13	5/15/13 18:27	OP
Mercury	0.042	0.027	mg/Kg dry	1		SW-846 7471B	5/11/13	5/13/13 13:58	SAJ
Nickel	17	0.54	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP
Vanadium	19	1.1	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP
Zinc	76	1.1	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:22	OP

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Project Location: 80078

Sample Description: DUP-01

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05362

Sampled: 5/7/2013 10:45

Sample ID: 13E0369-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% Wt	1		SM 2540G	5/13/13	5/14/13 11:52	RH

Project Location: 80078

Sample Description: Trip Blank-01

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05363

Sampled: 5/7/2013 11:00

Sample ID: 13E0369-03

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Bromochloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Bromoform	ND	0.0020	mg/Kg wet	1	L-04, V-05	SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Bromomethane	ND	0.010	mg/Kg wet	1	R-05	SW-846 8260C	5/13/13	5/13/13 16:42	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Chloroethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet	1	V-05	SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Diethyl Ether	ND	0.010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,4-Dioxane	ND	0.10	mg/Kg wet	1	V-16	SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF

Project Location: 80078

Sample Description: Trip Blank-01

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05363

Sampled: 5/7/2013 11:00

Sample ID: 13E0369-03

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1	V-05	SW-846 8260C	5/13/13	5/13/13 16:42	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Methylene Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Naphthalene	ND	0.010	mg/Kg wet	1	V-05	SW-846 8260C	5/13/13	5/13/13 16:42	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,2,3-Trichlorobenzene	ND	0.0040	mg/Kg wet	1	V-05	SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,2,4-Trichlorobenzene	ND	0.010	mg/Kg wet	1	V-05	SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	5/13/13	5/13/13 16:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	118	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	91.3	70-130	

Project Location: 80078

Sample Description: MW105D-1012

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05364

Sampled: 5/8/2013 08:30

Sample ID: 13E0369-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Bromoform	ND	0.0015	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Bromomethane	ND	0.0075	mg/Kg dry	1	R-05	SW-846 8260C	5/14/13	5/14/13 13:26	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Carbon Disulfide	ND	0.0045	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Chlorodibromomethane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Chloroethane	ND	0.0075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Chloromethane	ND	0.0075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,2-Dibromoethane (EDB)	ND	0.00075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0075	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
cis-1,2-Dichloroethylene	12	2.3	mg/Kg dry	20		SW-846 8260C	5/15/13	5/17/13 7:00	LBD
trans-1,2-Dichloroethylene	0.0097	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,3-Dichloropropane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
cis-1,3-Dichloropropene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
trans-1,3-Dichloropropene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Diethyl Ether	ND	0.0075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Diisopropyl Ether (DIPE)	ND	0.00075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,4-Dioxane	ND	0.075	mg/Kg dry	1	V-16	SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF

Project Location: 80078

Sample Description: MW105D-1012

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05364

Sampled: 5/8/2013 08:30

Sample ID: 13E0369-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1	R-05	SW-846 8260C	5/14/13	5/14/13 13:26	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Methylene Chloride	ND	0.0075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Naphthalene	ND	0.0030	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 13:26	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,1,2,2-Tetrachloroethane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Tetrachloroethylene	0.064	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Tetrahydrofuran	ND	0.0075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,2,3-Trichlorobenzene	ND	0.0075	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,2,4-Trichlorobenzene	ND	0.0030	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Trichloroethylene	0.085	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
Vinyl Chloride	0.054	0.0075	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 13:26	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	98.2	70-130	5/17/13 7:00
1,2-Dichloroethane-d4	118	70-130	5/14/13 13:26
Toluene-d8	93.9	70-130	5/17/13 7:00
Toluene-d8	103	70-130	5/14/13 13:26
4-Bromofluorobenzene	84.8	70-130	5/14/13 13:26
4-Bromofluorobenzene	90.8	70-130	5/17/13 7:00

Project Location: 80078

Sample Description: MW105D-1012

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05364

Sampled: 5/8/2013 08:30

Sample ID: 13E0369-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.4	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Arsenic	12	3.4	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Barium	35	3.4	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Beryllium	ND	0.34	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Cadmium	0.64	0.34	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Chromium	5.4	0.69	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Copper	6.4	0.69	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Lead	7.2	1.0	mg/Kg dry	1	M-10	SW-846 6010C	5/13/13	5/15/13 18:32	OP
Mercury	ND	0.033	mg/Kg dry	1		SW-846 7471B	5/11/13	5/13/13 13:59	SAJ
Nickel	16	0.69	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Selenium	ND	6.9	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Silver	ND	0.69	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Thallium	ND	3.4	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Vanadium	15	1.4	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP
Zinc	67	1.4	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:27	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 80078

Sample Description: MW105D-1012

Work Order: 13E0369

Date Received: 5/10/2013

Sampled: 5/8/2013 08:30

Field Sample #: D05364

Sample ID: 13E0369-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.1		% Wt	1		SM 2540G	5/13/13	5/14/13 11:52	RH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05365

Sampled: 5/8/2013 14:00

Sample ID: 13E0369-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1	MS-07A	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Bromoform	ND	0.0020	mg/Kg dry	1	V-05, L-04, MS-09	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Bromomethane	ND	0.010	mg/Kg dry	1	MS-09, R-05	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Carbon Disulfide	ND	0.0060	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1	MS-07A	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	MS-09, V-05	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1	MS-07A	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1	MS-07A, V-05	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1	MS-07A	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1	MS-07A	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Diethyl Ether	ND	0.010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1	V-16	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05365

Sampled: 5/8/2013 14:00

Sample ID: 13E0369-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1	MS-09, R-05	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1	V-05, MS-09	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Styrene	ND	0.0020	mg/Kg dry	1	MS-07A	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1	MS-07A, V-05	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,2,3-Trichlorobenzene	ND	0.010	mg/Kg dry	1	MS-09, V-05	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,2,4-Trichlorobenzene	ND	0.0040	mg/Kg dry	1	MS-09, V-05	SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Trichloroethylene	0.013	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 12:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	114	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	91.7	70-130	

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05365

Sampled: 5/8/2013 14:00

Sample ID: 13E0369-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	mg/Kg dry	1	MS-09	SW-846 6010C	5/13/13	5/14/13 21:22	OP
Arsenic	5.2	2.8	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 21:22	OP
Barium	60	2.8	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 21:22	OP
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 21:22	OP
Cadmium	0.53	0.28	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 21:22	OP
Chromium	27	0.55	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 21:22	OP
Copper	57	0.54	mg/Kg dry	1		SW-846 6010C	5/16/13	5/16/13 17:17	OP
Lead	20	0.81	mg/Kg dry	1		SW-846 6010C	5/16/13	5/16/13 17:17	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	5/13/13	5/13/13 14:50	SAJ
Nickel	7.5	0.55	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 21:22	OP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 21:22	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 21:22	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 21:22	OP
Vanadium	10	1.1	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 21:22	OP
Zinc	52	1.1	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 21:22	OP

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0369

Date Received: 5/10/2013

Sampled: 5/8/2013 14:00

Field Sample #: D05365

Sample ID: 13E0369-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	5/13/13	5/14/13 11:52	RH

Project Location: 80078

Sample Description: MW106D-0406

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05366

Sampled: 5/9/2013 11:30

Sample ID: 13E0369-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Benzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Bromobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Bromochloromethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Bromodichloromethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Bromoform	ND	0.0027	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Bromomethane	ND	0.014	mg/Kg dry	1	R-05	SW-846 8260C	5/14/13	5/14/13 15:14	MFF
2-Butanone (MEK)	ND	0.054	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
n-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
sec-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
tert-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Carbon Disulfide	ND	0.0081	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Carbon Tetrachloride	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Chlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Chloroform	ND	0.0054	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Chloromethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
2-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
4-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Dibromomethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,2-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,3-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,4-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,1-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,2-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,1-Dichloroethylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
cis-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
trans-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,3-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
2,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,1-Dichloropropene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
cis-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
trans-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Diethyl Ether	ND	0.014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Diisopropyl Ether (DIPE)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,4-Dioxane	ND	0.14	mg/Kg dry	1	V-16	SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Ethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF

Project Location: 80078

Sample Description: MW106D-0406

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05366

Sampled: 5/9/2013 11:30

Sample ID: 13E0369-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0027	mg/Kg dry	1	R-05	SW-846 8260C	5/14/13	5/14/13 15:14	MFF
2-Hexanone (MBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Isopropylbenzene (Cumene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0054	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Naphthalene	ND	0.0054	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 15:14	MFF
n-Propylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Styrene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,1,1,2-Tetrachloroethane	ND	0.0027	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Tetrachloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Tetrahydrofuran	ND	0.014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Toluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,2,3-Trichlorobenzene	ND	0.014	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,2,4-Trichlorobenzene	ND	0.0054	mg/Kg dry	1	V-05	SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,1,1-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,1,2-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Trichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,2,3-Trichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,2,4-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
1,3,5-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Vinyl Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
m+p Xylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
o-Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	5/14/13	5/14/13 15:14	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	116	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	89.6	70-130							

Project Location: 80078

Sample Description: MW106D-0406

Work Order: 13E0369

Date Received: 5/10/2013

Field Sample #: D05366

Sampled: 5/9/2013 11:30

Sample ID: 13E0369-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Barium	23	2.8	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Chromium	5.3	0.56	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Copper	3.5	0.56	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Lead	5.1	0.84	mg/Kg dry	1	M-10	SW-846 6010C	5/13/13	5/15/13 18:37	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	5/11/13	5/13/13 14:05	SAJ
Nickel	2.7	0.56	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Vanadium	11	1.1	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP
Zinc	22	1.1	mg/Kg dry	1		SW-846 6010C	5/13/13	5/14/13 23:33	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 80078

Sample Description: MW106D-0406

Work Order: 13E0369

Date Received: 5/10/2013

Sampled: 5/9/2013 11:30

Field Sample #: D05366

Sample ID: 13E0369-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	5/13/13	5/14/13 11:52	RH

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13E0369-01 [D05361]	B072881	05/13/13
13E0369-02 [D05362]	B072881	05/13/13
13E0369-04 [D05364]	B072881	05/13/13
13E0369-05 [D05365]	B072881	05/13/13
13E0369-06 [D05366]	B072881	05/13/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0369-01 [D05361]	B072873	1.02	50.0	05/13/13
13E0369-02 [D05362]	B072873	1.00	50.0	05/13/13
13E0369-04 [D05364]	B072873	0.993	50.0	05/13/13
13E0369-05 [D05365]	B072873	1.01	50.0	05/13/13
13E0369-06 [D05366]	B072873	0.997	50.0	05/13/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0369-05RE1 [D05365]	B073089	1.03	50.0	05/16/13

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0369-01 [D05361]	B072821	0.614	50.0	05/11/13
13E0369-02 [D05362]	B072821	0.612	50.0	05/11/13
13E0369-04 [D05364]	B072821	0.614	50.0	05/11/13
13E0369-06 [D05366]	B072821	0.618	50.0	05/11/13

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0369-05 [D05365]	B072845	0.612	50.0	05/13/13

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0369-01 [D05361]	B072892	4.73	10.0	05/13/13
13E0369-02 [D05362]	B072892	4.52	10.0	05/13/13
13E0369-03 [D05363]	B072892	5.00	10.0	05/13/13

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0369-04 [D05364]	B072996	9.10	10.0	05/14/13
13E0369-05 [D05365]	B072996	5.55	10.0	05/14/13
13E0369-06 [D05366]	B072996	4.11	10.0	05/14/13

Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
13E0369-04 [D05364]	B073043	10.4	17.8	0.05	50	05/15/13

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072892 - SW-846 5035										
Blank (B072892-BLK1)				Prepared & Analyzed: 05/13/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							L-04, V-05
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							V-05
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.010	mg/Kg wet							V-05

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072892 - SW-846 5035										
Blank (B072892-BLK1)				Prepared & Analyzed: 05/13/13						
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0040	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.010	mg/Kg wet							V-05
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0582		mg/Kg wet	0.0500		116	70-130			
Surrogate: Toluene-d8	0.0512		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0450		mg/Kg wet	0.0500		90.0	70-130			
LCS (B072892-BS1)				Prepared & Analyzed: 05/13/13						
Acetone	0.377	0.10	mg/Kg wet	0.200		188	* 40-160			L-02, V-20 †
tert-Amyl Methyl Ether (TAME)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130			
Benzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Bromochloromethane	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130			
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130			
Bromoform	0.0126	0.0020	mg/Kg wet	0.0200		63.2	* 70-130			L-04, V-05
Bromomethane	0.0115	0.010	mg/Kg wet	0.0200		57.3	40-160			L-14, R-05 †
2-Butanone (MEK)	0.272	0.040	mg/Kg wet	0.200		136	40-160			L-14 †
n-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
sec-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
tert-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Carbon Disulfide	0.0225	0.0060	mg/Kg wet	0.0200		112	70-130			
Carbon Tetrachloride	0.0174	0.0020	mg/Kg wet	0.0200		86.9	70-130			
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Chlorodibromomethane	0.0167	0.0010	mg/Kg wet	0.0200		83.4	70-130			
Chloroethane	0.0217	0.010	mg/Kg wet	0.0200		108	70-130			
Chloroform	0.0220	0.0040	mg/Kg wet	0.0200		110	70-130			
Chloromethane	0.0189	0.010	mg/Kg wet	0.0200		94.3	40-160			†
2-Chlorotoluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
4-Chlorotoluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0164	0.0020	mg/Kg wet	0.0200		82.0	70-130			
1,2-Dibromoethane (EDB)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Dibromomethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072892 - SW-846 5035										
LCS (B072892-BS1)				Prepared & Analyzed: 05/13/13						
Dichlorodifluoromethane (Freon 12)	0.0156	0.010	mg/Kg wet	0.0200		78.1	40-160			V-05 †
1,1-Dichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
1,1-Dichloroethylene	0.0221	0.0040	mg/Kg wet	0.0200		110	70-130			
cis-1,2-Dichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
trans-1,2-Dichloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dichloropropane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,3-Dichloropropane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
2,2-Dichloropropane	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130			
1,1-Dichloropropene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
cis-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.5	70-130			
trans-1,3-Dichloropropene	0.0187	0.0010	mg/Kg wet	0.0200		93.6	70-130			
Diethyl Ether	0.0206	0.010	mg/Kg wet	0.0200		103	70-130			
Diisopropyl Ether (DIPE)	0.0237	0.0010	mg/Kg wet	0.0200		118	70-130			
1,4-Dioxane	0.219	0.10	mg/Kg wet	0.200		110	40-160			V-16 †
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
Hexachlorobutadiene	0.0170	0.0020	mg/Kg wet	0.0200		85.2	70-130			V-05 †
2-Hexanone (MBK)	0.226	0.020	mg/Kg wet	0.200		113	40-160			†
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
p-Isopropyltoluene (p-Cymene)	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0226	0.0040	mg/Kg wet	0.0200		113	70-130			
Methylene Chloride	0.0225	0.010	mg/Kg wet	0.0200		113	70-130			
4-Methyl-2-pentanone (MIBK)	0.210	0.020	mg/Kg wet	0.200		105	40-160			†
Naphthalene	0.0140	0.010	mg/Kg wet	0.0200		70.0	70-130			V-05
n-Propylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Styrene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
1,1,1,2-Tetrachloroethane	0.0163	0.0020	mg/Kg wet	0.0200		81.7	70-130			
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.4	70-130			
Tetrachloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
Tetrahydrofuran	0.0235	0.010	mg/Kg wet	0.0200		117	70-130			
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,3-Trichlorobenzene	0.0154	0.0040	mg/Kg wet	0.0200		76.9	70-130			V-05
1,2,4-Trichlorobenzene	0.0149	0.010	mg/Kg wet	0.0200		74.5	70-130			V-05
1,1,1-Trichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,1,2-Trichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Trichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
Trichlorofluoromethane (Freon 11)	0.0229	0.010	mg/Kg wet	0.0200		114	70-130			
1,2,3-Trichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
1,2,4-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3,5-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
Vinyl Chloride	0.0192	0.010	mg/Kg wet	0.0200		96.0	70-130			
m+p Xylene	0.0406	0.0040	mg/Kg wet	0.0400		101	70-130			
o-Xylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0578		mg/Kg wet	0.0500		116	70-130			
Surrogate: Toluene-d8	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0475		mg/Kg wet	0.0500		95.0	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072892 - SW-846 5035										
LCS Dup (B072892-BSD1)				Prepared & Analyzed: 05/13/13						
Acetone	0.383	0.10	mg/Kg wet	0.200		192 *	40-160	1.74	20	V-20, L-02 †
tert-Amyl Methyl Ether (TAME)	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130	2.42	20	
Benzene	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130	4.43	20	
Bromobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130	2.45	20	
Bromochloromethane	0.0245	0.0020	mg/Kg wet	0.0200		122	70-130	2.81	20	
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130	0.317	20	
Bromoform	0.0127	0.0020	mg/Kg wet	0.0200		63.5 *	70-130	0.474	20	L-04, V-05
Bromomethane	0.0144	0.010	mg/Kg wet	0.0200		72.0	40-160	22.7 *	20	R-05 †
2-Butanone (MEK)	0.271	0.040	mg/Kg wet	0.200		136	40-160	0.346	20	L-14 †
n-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.43	20	
sec-Butylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130	1.85	20	
tert-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	1.87	20	
tert-Butyl Ethyl Ether (TBEE)	0.0221	0.0010	mg/Kg wet	0.0200		111	70-130	3.59	20	
Carbon Disulfide	0.0241	0.0060	mg/Kg wet	0.0200		121	70-130	7.04	20	
Carbon Tetrachloride	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130	4.17	20	
Chlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.29	20	
Chlorodibromomethane	0.0171	0.0010	mg/Kg wet	0.0200		85.6	70-130	2.60	20	
Chloroethane	0.0227	0.010	mg/Kg wet	0.0200		114	70-130	4.77	20	
Chloroform	0.0227	0.0040	mg/Kg wet	0.0200		114	70-130	3.40	20	
Chloromethane	0.0203	0.010	mg/Kg wet	0.0200		101	40-160	7.16	20	†
2-Chlorotoluene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	2.54	20	
4-Chlorotoluene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.76	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0167	0.0020	mg/Kg wet	0.0200		83.3	70-130	1.57	20	
1,2-Dibromoethane (EDB)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130	0.976	20	
Dibromomethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.68	20	
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	3.00	20	
1,3-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	2.54	20	
1,4-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	1.43	20	
Dichlorodifluoromethane (Freon 12)	0.0164	0.010	mg/Kg wet	0.0200		82.1	40-160	4.99	20	V-05 †
1,1-Dichloroethane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	4.86	20	
1,2-Dichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	0.998	20	
1,1-Dichloroethylene	0.0234	0.0040	mg/Kg wet	0.0200		117	70-130	5.80	20	
cis-1,2-Dichloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	3.90	20	
trans-1,2-Dichloroethylene	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	8.13	20	
1,2-Dichloropropane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.52	20	
1,3-Dichloropropane	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130	1.11	20	
2,2-Dichloropropane	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130	3.75	20	
1,1-Dichloropropene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	3.92	20	
cis-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.5	70-130	1.10	20	
trans-1,3-Dichloropropene	0.0191	0.0010	mg/Kg wet	0.0200		95.6	70-130	2.11	20	
Diethyl Ether	0.0223	0.010	mg/Kg wet	0.0200		111	70-130	7.55	20	
Diisopropyl Ether (DIPE)	0.0247	0.0010	mg/Kg wet	0.0200		124	70-130	4.13	20	
1,4-Dioxane	0.212	0.10	mg/Kg wet	0.200		106	40-160	3.44	20	V-16 †
Ethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	0.998	20	
Hexachlorobutadiene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130	1.63	20	V-05
2-Hexanone (MBK)	0.228	0.020	mg/Kg wet	0.200		114	40-160	0.617	20	†
Isopropylbenzene (Cumene)	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.53	20	
p-Isopropyltoluene (p-Cymene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.97	20	
Methyl tert-Butyl Ether (MTBE)	0.0237	0.0040	mg/Kg wet	0.0200		119	70-130	4.74	20	
Methylene Chloride	0.0236	0.010	mg/Kg wet	0.0200		118	70-130	4.77	20	
4-Methyl-2-pentanone (MIBK)	0.215	0.020	mg/Kg wet	0.200		108	40-160	2.65	20	†
Naphthalene	0.0142	0.010	mg/Kg wet	0.0200		71.2	70-130	1.70	20	V-05

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072892 - SW-846 5035
LCS Dup (B072892-BSD1)

Prepared & Analyzed: 05/13/13

n-Propylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	2.40	20	
Styrene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	1.43	20	
1,1,1,2-Tetrachloroethane	0.0166	0.0020	mg/Kg wet	0.0200		83.1	70-130	1.70	20	
1,1,2,2-Tetrachloroethane	0.0194	0.0010	mg/Kg wet	0.0200		97.1	70-130	1.77	20	
Tetrachloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	1.74	20	
Tetrahydrofuran	0.0259	0.010	mg/Kg wet	0.0200		130	70-130	9.96	20	
Toluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.60	20	
1,2,3-Trichlorobenzene	0.0155	0.0040	mg/Kg wet	0.0200		77.3	70-130	0.519	20	V-05
1,2,4-Trichlorobenzene	0.0150	0.010	mg/Kg wet	0.0200		75.1	70-130	0.802	20	V-05
1,1,1-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	2.10	20	
1,1,2-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.35	20	
Trichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.49	20	
Trichlorofluoromethane (Freon 11)	0.0243	0.010	mg/Kg wet	0.0200		121	70-130	6.02	20	
1,2,3-Trichloropropane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.71	20	
1,2,4-Trimethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	0.960	20	
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	1.90	20	
Vinyl Chloride	0.0203	0.010	mg/Kg wet	0.0200		101	70-130	5.47	20	
m+p Xylene	0.0409	0.0040	mg/Kg wet	0.0400		102	70-130	0.884	20	
o-Xylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	1.47	20	
Surrogate: 1,2-Dichloroethane-d4	0.0573		mg/Kg wet	0.0500		115	70-130			
Surrogate: Toluene-d8	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0479		mg/Kg wet	0.0500		95.9	70-130			

Batch B072996 - SW-846 5035
Blank (B072996-BLK1)

Prepared & Analyzed: 05/14/13

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							L-04, V-05
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072996 - SW-846 5035										
Blank (B072996-BLK1)				Prepared & Analyzed: 05/14/13						
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							R-05
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							V-05
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							V-05
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.010	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.0040	mg/Kg wet							V-05
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0587		mg/Kg wet	0.0500		117	70-130			
Surrogate: Toluene-d8	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0454		mg/Kg wet	0.0500		90.8	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072996 - SW-846 5035										
LCS (B072996-BS1)				Prepared & Analyzed: 05/14/13						
Acetone	0.321	0.10	mg/Kg wet	0.200		160	40-160			L-14, V-20 †
tert-Amyl Methyl Ether (TAME)	0.0184	0.0010	mg/Kg wet	0.0200		92.2	70-130			
Benzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Bromobenzene	0.0170	0.0020	mg/Kg wet	0.0200		85.1	70-130			
Bromochloromethane	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromodichloromethane	0.0171	0.0020	mg/Kg wet	0.0200		85.5	70-130			
Bromoform	0.0109	0.0020	mg/Kg wet	0.0200		54.3 *	70-130			L-04, V-05
Bromomethane	0.0109	0.010	mg/Kg wet	0.0200		54.6	40-160			L-14, R-05 †
2-Butanone (MEK)	0.231	0.040	mg/Kg wet	0.200		115	40-160			†
n-Butylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130			
sec-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
tert-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0187	0.0010	mg/Kg wet	0.0200		93.7	70-130			
Carbon Disulfide	0.0209	0.0060	mg/Kg wet	0.0200		105	70-130			
Carbon Tetrachloride	0.0157	0.0020	mg/Kg wet	0.0200		78.6	70-130			
Chlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130			
Chlorodibromomethane	0.0147	0.0010	mg/Kg wet	0.0200		73.7	70-130			
Chloroethane	0.0201	0.010	mg/Kg wet	0.0200		101	70-130			
Chloroform	0.0198	0.0040	mg/Kg wet	0.0200		99.1	70-130			
Chloromethane	0.0171	0.010	mg/Kg wet	0.0200		85.4	40-160			†
2-Chlorotoluene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
4-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0139	0.0020	mg/Kg wet	0.0200		69.7 *	70-130			L-07, V-05
1,2-Dibromoethane (EDB)	0.0182	0.0010	mg/Kg wet	0.0200		91.1	70-130			
Dibromomethane	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
1,2-Dichlorobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
1,3-Dichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
1,4-Dichlorobenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.5	70-130			
Dichlorodifluoromethane (Freon 12)	0.0131	0.010	mg/Kg wet	0.0200		65.3	40-160			L-14, V-05 †
1,1-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,2-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
1,1-Dichloroethylene	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130			
cis-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
trans-1,2-Dichloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichloropropane	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
1,3-Dichloropropane	0.0195	0.0010	mg/Kg wet	0.0200		97.7	70-130			
2,2-Dichloropropane	0.0159	0.0020	mg/Kg wet	0.0200		79.3	70-130			
1,1-Dichloropropene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
cis-1,3-Dichloropropene	0.0161	0.0010	mg/Kg wet	0.0200		80.7	70-130			
trans-1,3-Dichloropropene	0.0166	0.0010	mg/Kg wet	0.0200		82.9	70-130			
Diethyl Ether	0.0193	0.010	mg/Kg wet	0.0200		96.6	70-130			
Diisopropyl Ether (DIPE)	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130			
1,4-Dioxane	0.187	0.10	mg/Kg wet	0.200		93.4	40-160			V-16 †
Ethylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130			
Hexachlorobutadiene	0.0136	0.0020	mg/Kg wet	0.0200		67.8 *	70-130			R-05, L-07A
2-Hexanone (MBK)	0.199	0.020	mg/Kg wet	0.200		99.3	40-160			†
Isopropylbenzene (Cumene)	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130			
p-Isopropyltoluene (p-Cymene)	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130			
Methylene Chloride	0.0214	0.010	mg/Kg wet	0.0200		107	70-130			
4-Methyl-2-pentanone (MIBK)	0.186	0.020	mg/Kg wet	0.200		93.0	40-160			†
Naphthalene	0.0130	0.0040	mg/Kg wet	0.0200		64.9 *	70-130			L-07, V-05

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072996 - SW-846 5035										
LCS (B072996-BS1)				Prepared & Analyzed: 05/14/13						
n-Propylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
Styrene	0.0170	0.0020	mg/Kg wet	0.0200		84.8	70-130			
1,1,1,2-Tetrachloroethane	0.0143	0.0020	mg/Kg wet	0.0200		71.3	70-130			V-05
1,1,2,2-Tetrachloroethane	0.0169	0.0010	mg/Kg wet	0.0200		84.5	70-130			
Tetrachloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130			
Tetrahydrofuran	0.0202	0.010	mg/Kg wet	0.0200		101	70-130			
Toluene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
1,2,3-Trichlorobenzene	0.0135	0.010	mg/Kg wet	0.0200		67.6	* 70-130			L-07, V-05
1,2,4-Trichlorobenzene	0.0125	0.0040	mg/Kg wet	0.0200		62.3	* 70-130			L-07, V-05
1,1,1-Trichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.5	70-130			
1,1,2-Trichloroethane	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130			
Trichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130			
Trichlorofluoromethane (Freon 11)	0.0213	0.010	mg/Kg wet	0.0200		106	70-130			
1,2,3-Trichloropropane	0.0176	0.0020	mg/Kg wet	0.0200		87.9	70-130			
1,2,4-Trimethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
1,3,5-Trimethylbenzene	0.0168	0.0020	mg/Kg wet	0.0200		84.2	70-130			
Vinyl Chloride	0.0176	0.010	mg/Kg wet	0.0200		87.9	70-130			
m+p Xylene	0.0359	0.0040	mg/Kg wet	0.0400		89.8	70-130			
o-Xylene	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0563		mg/Kg wet	0.0500		113	70-130			
Surrogate: Toluene-d8	0.0519		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0477		mg/Kg wet	0.0500		95.4	70-130			
LCS Dup (B072996-BSD1)				Prepared & Analyzed: 05/14/13						
Acetone	0.355	0.10	mg/Kg wet	0.200		178	* 40-160	10.2	20	L-07, V-20 †
tert-Amyl Methyl Ether (TAME)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130	10.2	20	
Benzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	10.8	20	
Bromobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	12.1	20	
Bromochloromethane	0.0243	0.0020	mg/Kg wet	0.0200		121	70-130	12.2	20	
Bromodichloromethane	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130	9.47	20	
Bromoform	0.0121	0.0020	mg/Kg wet	0.0200		60.6	* 70-130	11.0	20	V-05, L-04
Bromomethane	0.0144	0.010	mg/Kg wet	0.0200		72.2	40-160	27.8	* 20	R-05 †
2-Butanone (MEK)	0.250	0.040	mg/Kg wet	0.200		125	40-160	8.13	20	†
n-Butylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	17.5	20	
sec-Butylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	13.8	20	
tert-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	13.1	20	
tert-Butyl Ethyl Ether (TBEE)	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130	12.8	20	
Carbon Disulfide	0.0232	0.0060	mg/Kg wet	0.0200		116	70-130	10.2	20	
Carbon Tetrachloride	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130	11.8	20	
Chlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	11.0	20	
Chlorodibromomethane	0.0162	0.0010	mg/Kg wet	0.0200		81.1	70-130	9.56	20	
Chloroethane	0.0223	0.010	mg/Kg wet	0.0200		111	70-130	10.1	20	
Chloroform	0.0220	0.0040	mg/Kg wet	0.0200		110	70-130	10.6	20	
Chloromethane	0.0188	0.010	mg/Kg wet	0.0200		94.0	40-160	9.59	20	†
2-Chlorotoluene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	13.9	20	
4-Chlorotoluene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	16.6	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0151	0.0020	mg/Kg wet	0.0200		75.3	70-130	7.72	20	V-05
1,2-Dibromoethane (EDB)	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130	10.6	20	
Dibromomethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	11.6	20	
1,2-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	13.4	20	
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	13.6	20	
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	14.4	20	

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072996 - SW-846 5035										
LCS Dup (B072996-BSD1)				Prepared & Analyzed: 05/14/13						
Dichlorodifluoromethane (Freon 12)	0.0149	0.010	mg/Kg wet	0.0200		74.5	40-160	13.2	20	V-05 †
1,1-Dichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	10.3	20	
1,2-Dichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	7.02	20	
1,1-Dichloroethylene	0.0233	0.0040	mg/Kg wet	0.0200		117	70-130	12.3	20	
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	11.9	20	
trans-1,2-Dichloroethylene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	9.57	20	
1,2-Dichloropropane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	11.2	20	
1,3-Dichloropropane	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	7.96	20	
2,2-Dichloropropane	0.0179	0.0020	mg/Kg wet	0.0200		89.4	70-130	12.0	20	
1,1-Dichloropropene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	11.0	20	
cis-1,3-Dichloropropene	0.0178	0.0010	mg/Kg wet	0.0200		89.2	70-130	10.0	20	
trans-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.7	70-130	8.99	20	
Diethyl Ether	0.0213	0.010	mg/Kg wet	0.0200		106	70-130	9.66	20	
Diisopropyl Ether (DIPE)	0.0240	0.0010	mg/Kg wet	0.0200		120	70-130	11.8	20	
1,4-Dioxane	0.208	0.10	mg/Kg wet	0.200		104	40-160	10.9	20	V-16 †
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	13.8	20	
Hexachlorobutadiene	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130	26.7 *	20	R-05
2-Hexanone (MBK)	0.217	0.020	mg/Kg wet	0.200		108	40-160	8.72	20	†
Isopropylbenzene (Cumene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	13.4	20	
p-Isopropyltoluene (p-Cymene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	14.4	20	
Methyl tert-Butyl Ether (MTBE)	0.0222	0.0040	mg/Kg wet	0.0200		111	70-130	9.74	20	
Methylene Chloride	0.0237	0.010	mg/Kg wet	0.0200		119	70-130	10.2	20	
4-Methyl-2-pentanone (MIBK)	0.203	0.020	mg/Kg wet	0.200		102	40-160	8.73	20	†
Naphthalene	0.0149	0.0040	mg/Kg wet	0.0200		74.6	70-130	13.9	20	V-05
n-Propylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	15.2	20	
Styrene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	13.0	20	
1,1,1,2-Tetrachloroethane	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-130	16.0	20	V-05
1,1,2,2-Tetrachloroethane	0.0189	0.0010	mg/Kg wet	0.0200		94.6	70-130	11.3	20	
Tetrachloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	9.39	20	
Tetrahydrofuran	0.0216	0.010	mg/Kg wet	0.0200		108	70-130	6.60	20	
Toluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	9.60	20	
1,2,3-Trichlorobenzene	0.0158	0.010	mg/Kg wet	0.0200		78.9	70-130	15.4	20	V-05
1,2,4-Trichlorobenzene	0.0151	0.0040	mg/Kg wet	0.0200		75.4	70-130	19.0	20	V-05
1,1,1-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	11.3	20	
1,1,2-Trichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130	10.5	20	
Trichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	12.2	20	
Trichlorofluoromethane (Freon 11)	0.0239	0.010	mg/Kg wet	0.0200		120	70-130	11.6	20	
1,2,3-Trichloropropane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	13.2	20	
1,2,4-Trimethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	13.2	20	
1,3,5-Trimethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	15.8	20	
Vinyl Chloride	0.0197	0.010	mg/Kg wet	0.0200		98.6	70-130	11.5	20	
m+p Xylene	0.0410	0.0040	mg/Kg wet	0.0400		103	70-130	13.3	20	
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	13.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.0561		mg/Kg wet	0.0500		112	70-130			
Surrogate: Toluene-d8	0.0521		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0482		mg/Kg wet	0.0500		96.4	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072996 - SW-846 5035										
Matrix Spike (B072996-MS1)	Source: 13E0369-05			Prepared & Analyzed: 05/14/13						
Acetone	0.238	0.13	mg/Kg dry	0.252	ND	94.2	70-130			
tert-Amyl Methyl Ether (TAME)	0.0225	0.0013	mg/Kg dry	0.0252	ND	89.2	70-130			
Benzene	0.0244	0.0025	mg/Kg dry	0.0252	ND	96.6	70-130			
Bromobenzene	0.0165	0.0025	mg/Kg dry	0.0252	ND	65.4	* 70-130			MS-07A
Bromochloromethane	0.0251	0.0025	mg/Kg dry	0.0252	ND	99.4	70-130			
Bromodichloromethane	0.0184	0.0025	mg/Kg dry	0.0252	ND	72.9	70-130			
Bromoform	0.0101	0.0025	mg/Kg dry	0.0252	ND	40.0	* 70-130			L-04, MS-09, V-05
Bromomethane	0.0168	0.013	mg/Kg dry	0.0252	ND	66.5	* 70-130			MS-09, R-05
2-Butanone (MEK)	0.195	0.050	mg/Kg dry	0.252	ND	77.3	70-130			
n-Butylbenzene	0.0186	0.0025	mg/Kg dry	0.0252	ND	73.8	70-130			
sec-Butylbenzene	0.0228	0.0025	mg/Kg dry	0.0252	ND	90.4	70-130			
tert-Butylbenzene	0.0219	0.0025	mg/Kg dry	0.0252	ND	86.7	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0234	0.0013	mg/Kg dry	0.0252	ND	92.8	70-130			
Carbon Disulfide	0.0235	0.0076	mg/Kg dry	0.0252	ND	93.2	70-130			
Carbon Tetrachloride	0.0178	0.0025	mg/Kg dry	0.0252	ND	70.7	70-130			
Chlorobenzene	0.0191	0.0025	mg/Kg dry	0.0252	ND	75.8	70-130			
Chlorodibromomethane	0.0148	0.0013	mg/Kg dry	0.0252	ND	58.8	* 70-130			MS-07A
Chloroethane	0.0244	0.013	mg/Kg dry	0.0252	ND	96.6	70-130			
Chloroform	0.0236	0.0050	mg/Kg dry	0.0252	ND	93.7	70-130			
Chloromethane	0.0203	0.013	mg/Kg dry	0.0252	ND	80.6	70-130			
2-Chlorotoluene	0.0197	0.0025	mg/Kg dry	0.0252	ND	78.1	70-130			
4-Chlorotoluene	0.0185	0.0025	mg/Kg dry	0.0252	ND	73.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0125	0.0025	mg/Kg dry	0.0252	ND	49.6	* 70-130			MS-09, V-05
1,2-Dibromoethane (EDB)	0.0183	0.0013	mg/Kg dry	0.0252	ND	72.6	70-130			
Dibromomethane	0.0202	0.0025	mg/Kg dry	0.0252	ND	80.1	70-130			
1,2-Dichlorobenzene	0.0178	0.0025	mg/Kg dry	0.0252	ND	70.4	70-130			
1,3-Dichlorobenzene	0.0177	0.0025	mg/Kg dry	0.0252	ND	70.3	70-130			
1,4-Dichlorobenzene	0.0157	0.0025	mg/Kg dry	0.0252	ND	62.3	* 70-130			MS-07A
Dichlorodifluoromethane (Freon 12)	0.0140	0.013	mg/Kg dry	0.0252	ND	55.4	* 70-130			MS-07A, V-05
1,1-Dichloroethane	0.0235	0.0025	mg/Kg dry	0.0252	ND	93.0	70-130			
1,2-Dichloroethane	0.0220	0.0025	mg/Kg dry	0.0252	ND	87.3	70-130			
1,1-Dichloroethylene	0.0253	0.0050	mg/Kg dry	0.0252	ND	100	70-130			
cis-1,2-Dichloroethylene	0.0228	0.0025	mg/Kg dry	0.0252	ND	90.4	70-130			
trans-1,2-Dichloroethylene	0.0236	0.0025	mg/Kg dry	0.0252	ND	93.7	70-130			
1,2-Dichloropropane	0.0223	0.0025	mg/Kg dry	0.0252	ND	88.6	70-130			
1,3-Dichloropropane	0.0209	0.0013	mg/Kg dry	0.0252	ND	82.7	70-130			
2,2-Dichloropropane	0.0191	0.0025	mg/Kg dry	0.0252	ND	75.8	70-130			
1,1-Dichloropropene	0.0229	0.0025	mg/Kg dry	0.0252	ND	90.9	70-130			
cis-1,3-Dichloropropene	0.0166	0.0013	mg/Kg dry	0.0252	ND	65.8	* 70-130			MS-07A
trans-1,3-Dichloropropene	0.0146	0.0013	mg/Kg dry	0.0252	ND	57.9	* 70-130			MS-07A
Diethyl Ether	0.0242	0.013	mg/Kg dry	0.0252	ND	95.9	70-130			
Diisopropyl Ether (DIPE)	0.0263	0.0013	mg/Kg dry	0.0252	ND	104	70-130			
1,4-Dioxane	0.199	0.13	mg/Kg dry	0.252	ND	79.0	70-130			V-16
Ethylbenzene	0.0195	0.0025	mg/Kg dry	0.0252	ND	77.2	70-130			
Hexachlorobutadiene	0.0141	0.0025	mg/Kg dry	0.0252	ND	55.9	* 70-130			MS-09, R-05
2-Hexanone (MBK)	0.166	0.025	mg/Kg dry	0.252	ND	65.6	* 70-130			MS-24
Isopropylbenzene (Cumene)	0.0201	0.0025	mg/Kg dry	0.0252	ND	79.6	70-130			
p-Isopropyltoluene (p-Cymene)	0.0210	0.0025	mg/Kg dry	0.0252	ND	83.3	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0245	0.0050	mg/Kg dry	0.0252	ND	97.1	70-130			
Methylene Chloride	0.0289	0.013	mg/Kg dry	0.0252	ND	115	70-130			
4-Methyl-2-pentanone (MIBK)	0.197	0.025	mg/Kg dry	0.252	ND	78.1	70-130			
Naphthalene	0.00842	0.0050	mg/Kg dry	0.0252	ND	33.4	* 70-130			MS-09, V-05

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072996 - SW-846 5035										
Matrix Spike (B072996-MS1)	Source: 13E0369-05			Prepared & Analyzed: 05/14/13						
n-Propylbenzene	0.0197	0.0025	mg/Kg dry	0.0252	ND	78.1	70-130			
Styrene	0.0170	0.0025	mg/Kg dry	0.0252	ND	67.5	* 70-130			MS-07A
1,1,1,2-Tetrachloroethane	0.0162	0.0025	mg/Kg dry	0.0252	ND	64.1	* 70-130			MS-07A, V-05
1,1,2,2-Tetrachloroethane	0.0176	0.0013	mg/Kg dry	0.0252	ND	69.9	* 70-130			MS-24
Tetrachloroethylene	0.0196	0.0025	mg/Kg dry	0.0252	ND	77.8	70-130			
Tetrahydrofuran	0.0238	0.013	mg/Kg dry	0.0252	ND	94.3	70-130			
Toluene	0.0217	0.0025	mg/Kg dry	0.0252	ND	86.0	70-130			
1,2,3-Trichlorobenzene	0.00991	0.013	mg/Kg dry	0.0252	ND	39.3	* 70-130			MS-09, V-05
1,2,4-Trichlorobenzene	0.00800	0.0050	mg/Kg dry	0.0252	ND	31.7	* 70-130			MS-09, V-05
1,1,1-Trichloroethane	0.0211	0.0025	mg/Kg dry	0.0252	ND	83.7	70-130			
1,1,2-Trichloroethane	0.0194	0.0025	mg/Kg dry	0.0252	ND	77.1	70-130			
Trichloroethylene	0.0417	0.0025	mg/Kg dry	0.0252	0.0132	113	70-130			
Trichlorofluoromethane (Freon 11)	0.0261	0.013	mg/Kg dry	0.0252	ND	103	70-130			
1,2,3-Trichloropropane	0.0181	0.0025	mg/Kg dry	0.0252	ND	71.8	70-130			
1,2,4-Trimethylbenzene	0.0215	0.0025	mg/Kg dry	0.0252	ND	85.3	70-130			
1,3,5-Trimethylbenzene	0.0179	0.0025	mg/Kg dry	0.0252	ND	70.8	70-130			
Vinyl Chloride	0.0210	0.013	mg/Kg dry	0.0252	ND	83.3	70-130			
m+p Xylene	0.0395	0.0050	mg/Kg dry	0.0504	ND	78.4	70-130			
o-Xylene	0.0203	0.0025	mg/Kg dry	0.0252	ND	80.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0707		mg/Kg dry	0.0631		112	70-130			
Surrogate: Toluene-d8	0.0654		mg/Kg dry	0.0631		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0584		mg/Kg dry	0.0631		92.6	70-130			
Matrix Spike Dup (B072996-MSD1)	Source: 13E0369-05			Prepared & Analyzed: 05/14/13						
Acetone	0.238	0.13	mg/Kg dry	0.262	ND	90.9	70-130	0.168	30	
tert-Amyl Methyl Ether (TAME)	0.0244	0.0013	mg/Kg dry	0.0262	ND	93.2	70-130	8.06	30	
Benzene	0.0256	0.0026	mg/Kg dry	0.0262	ND	97.9	70-130	5.01	30	
Bromobenzene	0.0170	0.0026	mg/Kg dry	0.0262	ND	64.8	* 70-130	2.76	30	MS-07A
Bromochloromethane	0.0255	0.0026	mg/Kg dry	0.0262	ND	97.3	70-130	1.54	30	
Bromodichloromethane	0.0194	0.0026	mg/Kg dry	0.0262	ND	74.1	70-130	5.31	30	
Bromoform	0.0110	0.0026	mg/Kg dry	0.0262	ND	42.1	* 70-130	8.79	30	L-04, MS-09, V-05
Bromomethane	0.0181	0.013	mg/Kg dry	0.0262	ND	69.1	* 70-130	7.51	30	MS-09, R-05
2-Butanone (MEK)	0.210	0.052	mg/Kg dry	0.262	ND	80.4	70-130	7.67	30	
n-Butylbenzene	0.0181	0.0026	mg/Kg dry	0.0262	ND	69.1	* 70-130	2.90	30	MS-24
sec-Butylbenzene	0.0223	0.0026	mg/Kg dry	0.0262	ND	85.2	70-130	2.25	30	
tert-Butylbenzene	0.0222	0.0026	mg/Kg dry	0.0262	ND	85.0	70-130	1.70	30	
tert-Butyl Ethyl Ether (TBEE)	0.0250	0.0013	mg/Kg dry	0.0262	ND	95.4	70-130	6.44	30	
Carbon Disulfide	0.0233	0.0079	mg/Kg dry	0.0262	ND	89.0	70-130	0.933	30	
Carbon Tetrachloride	0.0192	0.0026	mg/Kg dry	0.0262	ND	73.5	70-130	7.56	30	
Chlorobenzene	0.0194	0.0026	mg/Kg dry	0.0262	ND	74.1	70-130	1.41	30	
Chlorodibromomethane	0.0160	0.0013	mg/Kg dry	0.0262	ND	61.0	* 70-130	7.35	30	MS-07A
Chloroethane	0.0248	0.013	mg/Kg dry	0.0262	ND	94.8	70-130	1.80	30	
Chloroform	0.0247	0.0052	mg/Kg dry	0.0262	ND	94.3	70-130	4.32	30	
Chloromethane	0.0217	0.013	mg/Kg dry	0.0262	ND	82.9	70-130	6.49	30	
2-Chlorotoluene	0.0203	0.0026	mg/Kg dry	0.0262	ND	77.4	70-130	2.78	30	
4-Chlorotoluene	0.0185	0.0026	mg/Kg dry	0.0262	ND	70.8	70-130	0.208	30	
1,2-Dibromo-3-chloropropane (DBCP)	0.0132	0.0026	mg/Kg dry	0.0262	ND	50.3	* 70-130	5.08	30	MS-09, V-05
1,2-Dibromoethane (EDB)	0.0191	0.0013	mg/Kg dry	0.0262	ND	73.0	70-130	4.23	30	
Dibromomethane	0.0206	0.0026	mg/Kg dry	0.0262	ND	78.7	70-130	1.92	30	
1,2-Dichlorobenzene	0.0180	0.0026	mg/Kg dry	0.0262	ND	68.9	* 70-130	1.52	30	MS-24
1,3-Dichlorobenzene	0.0174	0.0026	mg/Kg dry	0.0262	ND	66.6	* 70-130	1.73	30	MS-24
1,4-Dichlorobenzene	0.0153	0.0026	mg/Kg dry	0.0262	ND	58.6	* 70-130	2.44	30	MS-07A

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072996 - SW-846 5035										
Matrix Spike Dup (B072996-MSD1)		Source: 13E0369-05		Prepared & Analyzed: 05/14/13						
Dichlorodifluoromethane (Freon 12)	0.0149	0.013	mg/Kg dry	0.0262	ND	57.0 *	70-130	6.52	30	MS-07A, V-05
1,1-Dichloroethane	0.0251	0.0026	mg/Kg dry	0.0262	ND	95.8	70-130	6.64	30	
1,2-Dichloroethane	0.0228	0.0026	mg/Kg dry	0.0262	ND	87.2	70-130	3.56	30	
1,1-Dichloroethylene	0.0256	0.0052	mg/Kg dry	0.0262	ND	97.8	70-130	1.05	30	
cis-1,2-Dichloroethylene	0.0229	0.0026	mg/Kg dry	0.0262	ND	87.4	70-130	0.304	30	
trans-1,2-Dichloroethylene	0.0247	0.0026	mg/Kg dry	0.0262	ND	94.5	70-130	4.53	30	
1,2-Dichloropropane	0.0230	0.0026	mg/Kg dry	0.0262	ND	87.9	70-130	2.89	30	
1,3-Dichloropropane	0.0220	0.0013	mg/Kg dry	0.0262	ND	84.1	70-130	5.36	30	
2,2-Dichloropropane	0.0197	0.0026	mg/Kg dry	0.0262	ND	75.3	70-130	3.02	30	
1,1-Dichloropropene	0.0238	0.0026	mg/Kg dry	0.0262	ND	91.0	70-130	3.79	30	
cis-1,3-Dichloropropene	0.0170	0.0013	mg/Kg dry	0.0262	ND	65.1 *	70-130	2.61	30	MS-07A
trans-1,3-Dichloropropene	0.0157	0.0013	mg/Kg dry	0.0262	ND	59.9 *	70-130	7.07	30	MS-07A
Diethyl Ether	0.0247	0.013	mg/Kg dry	0.0262	ND	94.5	70-130	2.21	30	
Diisopropyl Ether (DIPE)	0.0283	0.0013	mg/Kg dry	0.0262	ND	108	70-130	7.45	30	
1,4-Dioxane	0.215	0.13	mg/Kg dry	0.262	ND	82.3	70-130	7.72	30	V-16
Ethylbenzene	0.0201	0.0026	mg/Kg dry	0.0262	ND	76.8	70-130	3.16	30	
Hexachlorobutadiene	0.0136	0.0026	mg/Kg dry	0.0262	ND	51.9 *	70-130	3.75	30	MS-09, R-05
2-Hexanone (MBK)	0.186	0.026	mg/Kg dry	0.262	ND	71.1	70-130	11.6	30	
Isopropylbenzene (Cumene)	0.0207	0.0026	mg/Kg dry	0.0262	ND	79.0	70-130	2.92	30	
p-Isopropyltoluene (p-Cymene)	0.0209	0.0026	mg/Kg dry	0.0262	ND	79.8	70-130	0.614	30	
Methyl tert-Butyl Ether (MTBE)	0.0266	0.0052	mg/Kg dry	0.0262	ND	102	70-130	8.20	30	
Methylene Chloride	0.0294	0.013	mg/Kg dry	0.0262	ND	112	70-130	1.65	30	
4-Methyl-2-pentanone (MIBK)	0.218	0.026	mg/Kg dry	0.262	ND	83.2	70-130	10.0	30	
Naphthalene	0.00950	0.0052	mg/Kg dry	0.0262	ND	36.3 *	70-130	12.0	30	MS-09, V-05
n-Propylbenzene	0.0200	0.0026	mg/Kg dry	0.0262	ND	76.4	70-130	1.48	30	
Styrene	0.0177	0.0026	mg/Kg dry	0.0262	ND	67.8 *	70-130	4.12	30	MS-07A
1,1,1,2-Tetrachloroethane	0.0166	0.0026	mg/Kg dry	0.0262	ND	63.6 *	70-130	2.90	30	MS-07A, V-05
1,1,2,2-Tetrachloroethane	0.0187	0.0013	mg/Kg dry	0.0262	ND	71.3	70-130	5.66	30	
Tetrachloroethylene	0.0205	0.0026	mg/Kg dry	0.0262	ND	78.4	70-130	4.45	30	
Tetrahydrofuran	0.0253	0.013	mg/Kg dry	0.0262	ND	96.6	70-130	6.09	30	
Toluene	0.0225	0.0026	mg/Kg dry	0.0262	ND	85.9	70-130	3.56	30	
1,2,3-Trichlorobenzene	0.0104	0.013	mg/Kg dry	0.0262	ND	39.8 *	70-130	4.94	30	MS-09, V-05
1,2,4-Trichlorobenzene	0.00803	0.0052	mg/Kg dry	0.0262	ND	30.7 *	70-130	0.473	30	MS-09, V-05
1,1,1-Trichloroethane	0.0224	0.0026	mg/Kg dry	0.0262	ND	85.6	70-130	5.92	30	
1,1,2-Trichloroethane	0.0205	0.0026	mg/Kg dry	0.0262	ND	78.4	70-130	5.35	30	
Trichloroethylene	0.0427	0.0026	mg/Kg dry	0.0262	0.0132	113	70-130	2.22	30	
Trichlorofluoromethane (Freon 11)	0.0266	0.013	mg/Kg dry	0.0262	ND	102	70-130	2.12	30	
1,2,3-Trichloropropane	0.0195	0.0026	mg/Kg dry	0.0262	ND	74.4	70-130	7.23	30	
1,2,4-Trimethylbenzene	0.0218	0.0026	mg/Kg dry	0.0262	ND	83.2	70-130	1.19	30	
1,3,5-Trimethylbenzene	0.0184	0.0026	mg/Kg dry	0.0262	ND	70.4	70-130	3.11	30	
Vinyl Chloride	0.0217	0.013	mg/Kg dry	0.0262	ND	82.9	70-130	3.20	30	
m+p Xylene	0.0405	0.0052	mg/Kg dry	0.0523	ND	77.4	70-130	2.46	30	
o-Xylene	0.0211	0.0026	mg/Kg dry	0.0262	ND	80.6	70-130	3.93	30	
Surrogate: 1,2-Dichloroethane-d4	0.0745		mg/Kg dry	0.0654		114	70-130			
Surrogate: Toluene-d8	0.0685		mg/Kg dry	0.0654		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0611		mg/Kg dry	0.0654		93.4	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B073043 - SW-846 5035
Blank (B073043-BLK1)

Prepared: 05/15/13 Analyzed: 05/16/13

cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0233		mg/Kg wet	0.0250		93.2	70-130			
Surrogate: Toluene-d8	0.0235		mg/Kg wet	0.0250		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0244		mg/Kg wet	0.0250		97.4	70-130			

LCS (B073043-BS1)

Prepared: 05/15/13 Analyzed: 05/16/13

cis-1,2-Dichloroethylene	0.0102	0.0011	mg/Kg wet	0.0113		90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0258		mg/Kg wet	0.0283		91.0	70-130			
Surrogate: Toluene-d8	0.0301		mg/Kg wet	0.0283		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.0291		mg/Kg wet	0.0283		103	70-130			

LCS Dup (B073043-BSD1)

Prepared: 05/15/13 Analyzed: 05/16/13

cis-1,2-Dichloroethylene	0.00992	0.0011	mg/Kg wet	0.0113		87.5	70-130	2.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.0252		mg/Kg wet	0.0283		89.1	70-130			
Surrogate: Toluene-d8	0.0271		mg/Kg wet	0.0283		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0288		mg/Kg wet	0.0283		102	70-130			

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072821 - SW-846 7471										
Blank (B072821-BLK1)				Prepared: 05/11/13 Analyzed: 05/13/13						
Mercury	ND	0.025	mg/Kg wet							
LCS (B072821-BS1)				Prepared: 05/11/13 Analyzed: 05/13/13						
Mercury	4.18	0.33	mg/Kg wet	4.05		103	71.6-128.1			
LCS Dup (B072821-BSD1)				Prepared: 05/11/13 Analyzed: 05/13/13						
Mercury	4.29	0.33	mg/Kg wet	4.05		106	71.6-128.1	2.57	30	
Batch B072845 - SW-846 7471										
Blank (B072845-BLK1)				Prepared & Analyzed: 05/13/13						
Mercury	ND	0.025	mg/Kg wet							
LCS (B072845-BS1)				Prepared & Analyzed: 05/13/13						
Mercury	4.26	0.33	mg/Kg wet	4.05		105	71.6-128.1			
LCS Dup (B072845-BSD1)				Prepared & Analyzed: 05/13/13						
Mercury	4.36	0.33	mg/Kg wet	4.05		108	71.6-128.1	2.44	30	
Duplicate (B072845-DUP1)		Source: 13E0369-05		Prepared & Analyzed: 05/13/13						
Mercury	ND	0.027	mg/Kg dry		ND			NC	35	
Matrix Spike (B072845-MS1)		Source: 13E0369-05		Prepared & Analyzed: 05/13/13						
Mercury	0.204	0.027	mg/Kg dry	0.182	0.0192	101	75-125			
Matrix Spike Dup (B072845-MSD1)		Source: 13E0369-05		Prepared & Analyzed: 05/13/13						
Mercury	0.206	0.027	mg/Kg dry	0.182	0.0192	103	75-125	1.26	35	
Batch B072873 - SW-846 3050B										
Blank (B072873-BLK1)				Prepared: 05/13/13 Analyzed: 05/14/13						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072873 - SW-846 3050B
LCS (B072873-BS1)

Prepared: 05/13/13 Analyzed: 05/14/13

Antimony	110	5.0	mg/Kg wet	106		104	8.2-218.9			
Arsenic	187	5.0	mg/Kg wet	182		103	83-117.6			
Barium	144	5.0	mg/Kg wet	143		100	83.2-117.5			
Beryllium	109	0.50	mg/Kg wet	98.3		111	83.9-116			
Cadmium	62.0	0.50	mg/Kg wet	60.4		103	83.1-116.9			
Chromium	128	1.0	mg/Kg wet	125		102	81.6-117.6			
Copper	81.6	1.0	mg/Kg wet	80.1		102	83.8-116.1			
Lead	136	1.5	mg/Kg wet	136		99.7	82.4-117.8			
Nickel	127	1.0	mg/Kg wet	128		99.4	84.4-115.6			
Selenium	86.7	10	mg/Kg wet	85.9		101	80-120			
Silver	60.1	1.0	mg/Kg wet	61.3		98.0	66.2-133.8			
Thallium	144	5.0	mg/Kg wet	144		99.8	81.2-118.8			
Vanadium	109	2.0	mg/Kg wet	104		105	75.5-124			
Zinc	197	2.0	mg/Kg wet	204		96.6	81.9-117.6			

LCS Dup (B072873-BSD1)

Prepared: 05/13/13 Analyzed: 05/14/13

Antimony	109	5.0	mg/Kg wet	106		103	8.2-218.9	1.09	30	
Arsenic	185	5.0	mg/Kg wet	182		102	83-117.6	1.04	30	
Barium	139	5.0	mg/Kg wet	143		97.5	83.2-117.5	2.85	30	
Beryllium	108	0.50	mg/Kg wet	98.3		110	83.9-116	0.659	30	
Cadmium	63.2	0.50	mg/Kg wet	60.4		105	83.1-116.9	1.87	30	
Chromium	127	1.0	mg/Kg wet	125		101	81.6-117.6	0.787	30	
Copper	82.0	1.0	mg/Kg wet	80.1		102	83.8-116.1	0.482	30	
Lead	132	1.5	mg/Kg wet	136		97.1	82.4-117.8	2.67	30	
Nickel	130	1.0	mg/Kg wet	128		102	84.4-115.6	2.17	30	
Selenium	86.8	10	mg/Kg wet	85.9		101	80-120	0.112	30	
Silver	61.0	1.0	mg/Kg wet	61.3		99.5	66.2-133.8	1.55	30	
Thallium	143	5.0	mg/Kg wet	144		99.5	81.2-118.8	0.309	30	
Vanadium	107	2.0	mg/Kg wet	104		103	75.5-124	1.80	30	
Zinc	203	2.0	mg/Kg wet	204		99.6	81.9-117.6	3.06	30	

Duplicate (B072873-DUP1)

Source: 13E0369-05

Prepared: 05/13/13 Analyzed: 05/14/13

Antimony	ND	2.8	mg/Kg dry		ND		NC	35		
Arsenic	4.00	2.8	mg/Kg dry		5.16		25.4	35		
Barium	49.7	2.8	mg/Kg dry		60.2		19.2	35		
Beryllium	ND	0.28	mg/Kg dry		ND		NC	35		
Cadmium	0.398	0.28	mg/Kg dry		0.529		28.2	35		
Chromium	21.8	0.55	mg/Kg dry		27.2		22.1	35		
Nickel	6.34	0.55	mg/Kg dry		7.53		17.1	35		
Selenium	ND	5.5	mg/Kg dry		ND		NC	35		
Silver	ND	0.55	mg/Kg dry		ND		NC	35		
Thallium	ND	2.8	mg/Kg dry		ND		NC	35		
Vanadium	9.15	1.1	mg/Kg dry		10.3		11.4	35		
Zinc	42.5	1.1	mg/Kg dry		52.1		20.3	35		

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072873 - SW-846 3050B

Duplicate (B072873-DUP2)	Source: 13E0369-05		Prepared: 05/13/13 Analyzed: 05/14/13		M-07					
Chromium	27.6	2.8	mg/Kg dry		27.2			1.65	10	
Zinc	53.9	5.5	mg/Kg dry		52.1			3.27	10	

MRL Check (B072873-MRL1)

Prepared: 05/13/13 Analyzed: 05/15/13

Lead	0.928	0.76	mg/Kg wet	0.756	123	*	80-120			M-10
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Matrix Spike (B072873-MS1)
Source: 13E0369-05

Prepared: 05/13/13 Analyzed: 05/14/13

Antimony	16.7	2.7	mg/Kg dry	27.5	ND	60.7	*	75-125		MS-09
Arsenic	29.2	2.7	mg/Kg dry	27.5	5.16	87.5		75-125		
Barium	81.1	2.7	mg/Kg dry	27.5	60.2	75.8		75-125		
Beryllium	27.7	0.27	mg/Kg dry	27.5	ND	101		75-125		
Cadmium	25.7	0.27	mg/Kg dry	27.5	0.529	91.5		75-125		
Chromium	50.6	0.55	mg/Kg dry	27.5	27.2	85.3		75-125		
Nickel	33.5	0.55	mg/Kg dry	27.5	7.53	94.4		75-125		
Selenium	24.6	5.5	mg/Kg dry	27.5	ND	89.7		75-125		
Silver	25.2	0.55	mg/Kg dry	27.5	ND	91.8		75-125		
Thallium	25.7	2.7	mg/Kg dry	27.5	1.18	89.1		75-125		
Vanadium	39.0	1.1	mg/Kg dry	27.5	10.3	105		75-125		
Zinc	70.5	1.1	mg/Kg dry	27.5	52.1	66.8	*	75-125		MS-22

Matrix Spike Dup (B072873-MSD1)
Source: 13E0369-05

Prepared: 05/13/13 Analyzed: 05/14/13

Antimony	18.4	2.8	mg/Kg dry	27.6	ND	66.7	*	75-125	9.83	35	MS-09
Arsenic	29.7	2.8	mg/Kg dry	27.6	5.16	88.9		75-125	1.56	35	
Barium	82.9	2.8	mg/Kg dry	27.6	60.2	82.2		75-125	2.24	35	
Beryllium	28.2	0.28	mg/Kg dry	27.6	ND	102		75-125	1.69	35	
Cadmium	25.9	0.28	mg/Kg dry	27.6	0.529	92.2		75-125	1.01	35	
Chromium	58.9	0.55	mg/Kg dry	27.6	27.2	115		75-125	15.1	35	
Nickel	32.8	0.55	mg/Kg dry	27.6	7.53	91.5		75-125	2.14	35	
Selenium	25.2	5.5	mg/Kg dry	27.6	ND	91.3		75-125	2.12	35	
Silver	26.9	0.55	mg/Kg dry	27.6	ND	97.4		75-125	6.24	35	
Thallium	26.0	2.8	mg/Kg dry	27.6	1.18	90.0		75-125	1.24	35	
Vanadium	37.6	1.1	mg/Kg dry	27.6	10.3	99.3		75-125	3.67	35	
Zinc	81.8	1.1	mg/Kg dry	27.6	52.1	108		75-125	14.8	35	

Batch B073089 - SW-846 3050B
Blank (B073089-BLK1)

Prepared & Analyzed: 05/16/13

Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							

LCS (B073089-BS1)

Prepared & Analyzed: 05/16/13

Copper	82.9	0.99	mg/Kg wet	80.1	104	83.8-116.1				
Lead	126	1.5	mg/Kg wet	136	92.7	82.4-117.8				

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073089 - SW-846 3050B										
LCS Dup (B073089-BSD1)				Prepared & Analyzed: 05/16/13						
Copper	82.1	0.99	mg/Kg wet	80.1		103	83.8-116.1	0.972	30	
Lead	126	1.5	mg/Kg wet	136		92.4	82.4-117.8	0.294	30	
Duplicate (B073089-DUP1)				Source: 13E0369-05RE1 Prepared & Analyzed: 05/16/13						
Copper	59.8	0.54	mg/Kg dry		57.4			4.09	35	
Lead	24.9	0.80	mg/Kg dry		20.1			21.3	35	
Duplicate (B073089-DUP2)				Source: 13E0369-05RE1 Prepared & Analyzed: 05/16/13						
Copper	55.1	5.4	mg/Kg dry		57.4			4.07	10	
MRL Check (B073089-MRL1)				Prepared & Analyzed: 05/16/13						
Lead	0.734	0.74	mg/Kg wet	0.744		98.6	80-120			
Matrix Spike (B073089-MS1)				Source: 13E0369-05RE1 Prepared & Analyzed: 05/16/13						
Copper	81.3	0.52	mg/Kg dry	26.2	57.4	91.3	75-125			
Lead	44.6	0.79	mg/Kg dry	26.2	20.1	93.5	75-125			
Matrix Spike Dup (B073089-MSD1)				Source: 13E0369-05RE1 Prepared & Analyzed: 05/16/13						
Copper	108	0.55	mg/Kg dry	27.5	57.4	185	* 75-125	28.4	35	MS-22
Lead	42.7	0.82	mg/Kg dry	27.5	20.1	82.3	75-125	4.29	35	

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B072881 - % Solids

Duplicate (B072881-DUP4)

Source: 13E0369-05

Prepared: 05/13/13 Analyzed: 05/14/13

% Solids	88.8		% Wt		89.5			0.785	20	
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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
M-07	Result is serial dilution as per MA CAM/ CT RCP regulation.
M-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Beryllium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Thallium	CT,NH,NY,ME,NC,VA
Vanadium	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
Hexachlorobutadiene	NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
2-Hexanone (MBK)	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
o-Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

USEPA CLP Generic COC (LAB COPY)

Date Shipped: 5/10/13

Carrier/Name: Contest Driver

Airbill/No: NA

CHAIN OF CUSTODY RECORD

Site #: 80078

Project Code:

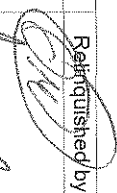
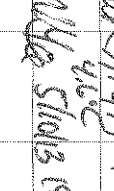
Cooler #:

No: 1-050813-162817-0001

Lab: Contest

Lab Contact: Meghan Kelley

Lab Phone: 413-525-6405

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only				
01 D05361	Soil/ Adam Roy	Discrete Interval	Metals - PP13 plus Ba and V, Volatiles (VOAs), Volatiles (VOAs)	A (4 C), B (MeOH), C (Na2SO4), D (Na2SO4) (4)	MW102D-0406	05/07/2013 10:40					
02 D05362	Soil/ Adam Roy	Discrete Interval	Metals - PP13 plus Ba and V, Volatiles (VOAs), Volatiles (VOAs)	A (4 C), B (MeOH), C (Na2SO4), D (Na2SO4) (4)	DUP-01	05/07/2013 10:45					
03 D05363	Liquid/ Adam Roy	Grab	Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs)	B (MeOH), C (Na2SO4), D (Na2SO4) (3)	Trip Blank-01	05/07/2013 11:00					
04 D05364	Soil/ Adam Roy	Discrete Interval	Metals - PP13 plus Ba and V, Volatiles (VOAs), Volatiles (VOAs)	A (4 C), B (MeOH), C (Na2SO4), D (Na2SO4) (4)	MW105D-1012	05/08/2013 08:30					
05 D05365	Soil/ Adam Roy	Grab	Metals - PP13 plus Ba and V, Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V, Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs)	A (4 C), B (MeOH), C (Na2SO4), D (Na2SO4), E (4 C), F (4 C), G (MeOH), H (MeOH), I (Na2SO4), J (Na2SO4), K (Na2SO4), L (Na2SO4) (12)	MW101D-0608	05/08/2013 14:00					
06 D05366	Soil/ Adam Roy	Grab	Metals - PP13 plus Ba and V, Volatiles (VOAs), Volatiles (VOAs)	A (4 C), B (MeOH), C (Na2SO4), D (Na2SO4) (4)	MW106D-0406	05/09/2013 11:30					
MCP Chem project, SW-2 per build. Sample(s) to be used for Lab QC: D05365 MRP-5/13/13 Analysis Key											
Shipment for Case Complete? N Samples Transferred From Chain of Custody #											
Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Trans For		5/11/13		5/10/13	11:30						
		5/10/13		5/10/13	18:00						

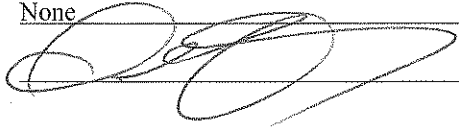
NOBIS ENGINEERING, INC.
FIELD SAMPLING BILL OF LADING FORM

Name:	Nobis Engineering, Inc.
Address:	585 Middlesex Street
City/State:	Lowell, Massachusetts 01851
Telephone:	978-683-0891

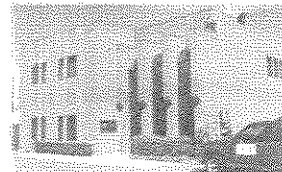
No. & type of Packages	HM (X)	Description of Articles	Quantity Per Package	Total Quantity
	X	NA2212, Asbestos (Sample), Class 9, PG III		
	X	UN1760, Corrosive Liquid, n.o.s. (Sample), Class 8, PG II		
	X	UN1993, Flammable Liquid, n.o.s. (Sample), Class 3, PG II		
	X	UN2924, Flammable Liquids, Corrosive, n.o.s. (Sample), Class 3, PG II		
	X	UN3175, Solids Containing Flammable Liquids, n.o.s. (Sample), Division 4.1, PG II		
	X	NA3334 Other Regulated Substance, Liquid, n.o.s. (Sample), Class 9, PG III		
	X	NA3335 Other Regulated Substance, Solid, n.o.s. (Sample), Class 9, PG III		
	X	UN2315, Polychlorinated Biphenyls, Liquid, Class 9, PG II		
	X	UN3432, Polychlorinated Biphenyls, Solid, Class 9, PG II		
	X	UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Sample), Class 9, PG III		
	X	UN3077, Environmentally Hazardous Substance, Solid, n.o.s., (Sample), Class 9, PG III		
6	X	Environmental Samples Preserved with Methanol	15 ML	85 ML
		Environmental Samples		

Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable to international and national government regulations.

Placards to be Offered: None

Authorized Signature:  Date: 5/10/13

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Nobis RECEIVED BY: KKM DATE: 5/10/13

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.6

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	<u>7</u>	2 oz amber/clear jar	<u>5</u>
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>24</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 8

Doc# 277 # Bisulfate 16 # DI Water _____

Rev. 3 May 2012 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 13E0369

Project Location: 80078

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

13E0369-01 thru 13E0369-06

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B ()	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	8082 PCB CAM V A ()	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☒ Yes ☐ No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes ☐ No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	☒ Yes ☐ No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes ☐ No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	☒ Yes ☐ No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☒ Yes ☐ No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☒ No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes ☒ No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: 

Position: Laboratory Manager

Printed Name: Daren J. Damboragian

Date: 05/17/13

May 24, 2013

Gail DeRuzzo
Nobis Engineering
585 Middlesex Street
Lowell, MA 01851

Project Location: 80078
Client Job Number:
Project Number: 80078
Laboratory Work Order Number: 13E0614

Enclosed are results of analyses for samples received by the laboratory on May 17, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Nobis Engineering
585 Middlesex Street
Lowell, MA 01851
ATTN: Gail DeRuzzo

REPORT DATE: 5/24/2013

PURCHASE ORDER NUMBER: MO-13-008

PROJECT NUMBER: 80078

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13E0614

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 80078

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
D05367	13E0614-01	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05368	13E0614-02	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05369	13E0614-03	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05370	13E0614-04	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05371	13E0614-05	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05372	13E0614-06	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05373	13E0614-07	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05374	13E0614-08	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05375	13E0614-09	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05376	13E0614-10	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05377	13E0614-11	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05378	13E0614-12	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05379	13E0614-13	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	

Nobis Engineering
585 Middlesex Street
Lowell, MA 01851
ATTN: Gail DeRuzzo

REPORT DATE: 5/24/2013

PURCHASE ORDER NUMBER: MO-13-008

PROJECT NUMBER: 80078

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13E0614

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 80078

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
D05380	13E0614-14	Ground Water	MW101D-0608	SW-846 6020A SW-846 7470A SW-846 8260C	
D05381	13E0614-15	Trip Blank Water	MW101D-0608	SW-846 8260C	
D05382	13E0614-16	Ground Water	MW101D-0608	SM18-20 4500 H B SW-846 1010 SW-846 6020A SW-846 7470A SW-846 8015C SW-846 8082A SW-846 8260C SW-846 9014 SW-846 9030A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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For method 6020, only PP13 metals, Ba and V were requested and reported for all samples except sample 13E0614-16 which only had RCRA 8 metals requested and reported.

SM18-20 4500 H B**Qualifications:**

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

13E0614-16[D05382], B073325-DUP1

SW-846 8260C**Qualifications:**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

B073417-BS1, B073417-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBCP), Naphthalene**

B073417-BSD1

Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

Analyte & Samples(s) Qualified:**2-Butanone (MEK), 2-Hexanone (MBK), Acetone, Bromomethane, Chloromethane, Dichlorodifluoromethane (Freon 12)**

B073334-BS1, B073334-BSD1, B073417-BS1, B073417-BSD1

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Bromomethane, Chloromethane, Dichlorodifluoromethane (Freon 12)**

13E0614-01[D05367], B073334-MS1, B073334-MSD1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

B073334-MS1

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**Carbon Disulfide, Methylene Chloride**

13E0614-01[D05367], 13E0614-02[D05368], 13E0614-03[D05369], 13E0614-04[D05370], 13E0614-05[D05371], 13E0614-06[D05372], 13E0614-07[D05373], 13E0614-08[D05374], 13E0614-09[D05375], 13E0614-10[D05376], 13E0614-11[D05377], 13E0614-12[D05378], 13E0614-13[D05379], 13E0614-14[D05380], 13E0614-15[D05381]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Chloromethane**

13E0614-01[D05367], 13E0614-02[D05368], 13E0614-03[D05369], 13E0614-05[D05371], 13E0614-06[D05372], 13E0614-08[D05374], 13E0614-09[D05375], 13E0614-10[D05376], 13E0614-11[D05377], 13E0614-12[D05378], 13E0614-13[D05379], B073334-BLK1, B073334-BS1, B073334-BSD1, B073334-MS1, B073334-MSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

13E0614-01[D05367], 13E0614-02[D05368], 13E0614-03[D05369], 13E0614-04[D05370], 13E0614-05[D05371], 13E0614-06[D05372], 13E0614-07[D05373], 13E0614-08[D05374], 13E0614-09[D05375], 13E0614-10[D05376], 13E0614-11[D05377], 13E0614-12[D05378], 13E0614-13[D05379], 13E0614-14[D05380], 13E0614-15[D05381], 13E0614-16[D05382], B073334-BLK1, B073334-BS1, B073334-BSD1, B073334-MS1, B073334-MSD1, B073417-BLK1, B073417-BS1, B073417-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Bromomethane, Methylene Chloride**

B073417-BS1, B073417-BSD1, B073334-BS1, B073334-BSD1, B073334-MS1, B073334-MSD1

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05367

Sampled: 5/15/2013 16:45

Sample ID: 13E0614-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Bromomethane	ND	2.0	µg/L	1	MS-07A	SW-846 8260C	5/20/13	5/21/13 2:19	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Chloromethane	ND	2.0	µg/L	1	MS-07A, V-05	SW-846 8260C	5/20/13	5/21/13 2:19	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	MS-07A	SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05367

Sampled: 5/15/2013 16:45

Sample ID: 13E0614-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 2:19	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Tetrachloroethylene	1.5	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Trichloroethylene	2.7	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	96.1	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	102	70-130	

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05367

Sampled: 5/15/2013 16:45

Sample ID: 13E0614-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:06	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:06	KSH
Barium	130	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 17:51	KSH
Beryllium	0.96	0.40	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:43	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:06	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:43	KSH
Copper	29	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:06	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:43	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:11	SAJ
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:06	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:06	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:06	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:43	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:43	KSH
Zinc	11	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:06	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05368

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/20/13	5/21/13 2:45	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,1-Dichloroethane	20	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,1-Dichloroethylene	6.9	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
cis-1,2-Dichloroethylene	3.5	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05368

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 2:45	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Tetrachloroethylene	45	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,1,1-Trichloroethane	17	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Trichloroethylene	390	50	µg/L	50		SW-846 8260C	5/20/13	5/21/13 17:58	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 2:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	97.4	70-130	5/21/13 17:58
1,2-Dichloroethane-d4	96.8	70-130	5/21/13 2:45
Toluene-d8	99.8	70-130	5/21/13 17:58
Toluene-d8	100	70-130	5/21/13 2:45
4-Bromofluorobenzene	106	70-130	5/21/13 17:58
4-Bromofluorobenzene	104	70-130	5/21/13 2:45

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05368

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:10	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:10	KSH
Barium	170	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 17:54	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:47	KSH
Cadmium	1.1	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:10	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:47	KSH
Copper	20	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:10	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:47	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:12	SAJ
Nickel	8.9	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:10	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:10	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:10	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:47	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:47	KSH
Zinc	200	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 17:54	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05369

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/20/13	5/21/13 3:11	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,1-Dichloroethane	19	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,1-Dichloroethylene	7.5	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
cis-1,2-Dichloroethylene	6.3	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05369

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Methyl tert-Butyl Ether (MTBE)	1.1	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 3:11	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Tetrachloroethylene	1600	100	µg/L	100		SW-846 8260C	5/20/13	5/21/13 18:50	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,1,1-Trichloroethane	57	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Trichloroethylene	1600	100	µg/L	100		SW-846 8260C	5/20/13	5/21/13 18:50	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 3:11	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	94.9	70-130	5/21/13 18:50
1,2-Dichloroethane-d4	100	70-130	5/21/13 3:11
Toluene-d8	98.8	70-130	5/21/13 3:11
Toluene-d8	100	70-130	5/21/13 18:50
4-Bromofluorobenzene	103	70-130	5/21/13 18:50
4-Bromofluorobenzene	104	70-130	5/21/13 3:11

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05369

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:13	KSH
Arsenic	0.42	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:13	KSH
Barium	200	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 17:58	KSH
Beryllium	2.0	0.40	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:54	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:13	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:54	KSH
Copper	27	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:13	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:54	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:14	SAJ
Nickel	10	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:13	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:13	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:13	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:54	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 15:54	KSH
Zinc	270	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 17:58	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05370

Sampled: 5/15/2013 15:55

Sample ID: 13E0614-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
sec-Butylbenzene	4.9	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05370

Sampled: 5/15/2013 15:55

Sample ID: 13E0614-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/21/13	5/21/13 14:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 14:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	96.2	70-130	5/21/13 14:23
Toluene-d8	96.4	70-130	5/21/13 14:23
4-Bromofluorobenzene	112	70-130	5/21/13 14:23

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05370

Sampled: 5/15/2013 15:55

Sample ID: 13E0614-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	1.3	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:17	KSH
Arsenic	1.4	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:17	KSH
Barium	130	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 18:02	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:01	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:17	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:01	KSH
Copper	14	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:17	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:01	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:16	SAJ
Nickel	70	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:17	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:17	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:17	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:01	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:01	KSH
Zinc	12	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:17	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05371

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/20/13	5/21/13 4:03	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05371

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 4:03	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Tetrachloroethylene	2.6	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Trichloroethylene	4.1	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:03	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	94.2	70-130							
Toluene-d8	99.8	70-130							
4-Bromofluorobenzene	103	70-130							

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05371

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:21	KSH
Arsenic	0.80	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:21	KSH
Barium	76	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:21	KSH
Beryllium	4.8	0.40	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:35	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:21	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:35	KSH
Copper	13	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:21	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:21	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:17	SAJ
Nickel	7.3	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:21	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:21	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:21	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:21	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:35	KSH
Zinc	71	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:21	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05372

Sampled: 5/15/2013 10:57

Sample ID: 13E0614-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/20/13	5/21/13 4:29	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
cis-1,2-Dichloroethylene	3.2	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05372

Sampled: 5/15/2013 10:57

Sample ID: 13E0614-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Methyl tert-Butyl Ether (MTBE)	1.8	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 4:29	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Tetrachloroethylene	1100	50	µg/L	50		SW-846 8260C	5/20/13	5/21/13 19:43	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,1,1-Trichloroethane	5.5	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Trichloroethylene	840	50	µg/L	50		SW-846 8260C	5/20/13	5/21/13 19:43	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 4:29	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	94.6	70-130	
1,2-Dichloroethane-d4	96.9	70-130	
Toluene-d8	104	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	100	70-130	
4-Bromofluorobenzene	100	70-130	

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05372

Sampled: 5/15/2013 10:57

Sample ID: 13E0614-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:24	KSH
Arsenic	0.92	0.40	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:31	KSH
Barium	140	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 18:09	KSH
Beryllium	2.3	0.40	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:39	KSH
Cadmium	2.0	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:24	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:39	KSH
Copper	14	5.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:31	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:31	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:19	SAJ
Nickel	15	5.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:31	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:31	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:24	KSH
Thallium	0.21	0.20	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:31	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:39	KSH
Zinc	40	10	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:31	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05373

Sampled: 5/15/2013 09:50

Sample ID: 13E0614-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
cis-1,2-Dichloroethylene	1.1	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05373

Sampled: 5/15/2013 09:50

Sample ID: 13E0614-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/21/13	5/21/13 15:10	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Tetrachloroethylene	5.1	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Trichloroethylene	4.4	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,2,4-Trimethylbenzene	1.3	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 15:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	101	70-130	5/21/13 15:10
Toluene-d8	97.8	70-130	5/21/13 15:10
4-Bromofluorobenzene	106	70-130	5/21/13 15:10

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05373

Sampled: 5/15/2013 09:50

Sample ID: 13E0614-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:52	KSH
Arsenic	1.1	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:52	KSH
Barium	110	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 18:28	KSH
Beryllium	0.70	0.40	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:43	KSH
Cadmium	2.0	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:52	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:43	KSH
Copper	14	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:52	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:38	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:21	SAJ
Nickel	16	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:52	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:52	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:52	KSH
Thallium	0.49	0.20	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:38	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:43	KSH
Zinc	62	10	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:38	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05374

Sampled: 5/15/2013 13:45

Sample ID: 13E0614-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/20/13	5/21/13 5:21	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05374

Sampled: 5/15/2013 13:45

Sample ID: 13E0614-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 5:21	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Tetrachloroethylene	1700	100	µg/L	100		SW-846 8260C	5/20/13	5/21/13 20:09	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,1,1-Trichloroethane	6.9	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Trichloroethylene	760	100	µg/L	100		SW-846 8260C	5/20/13	5/21/13 20:09	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:21	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	98.4	70-130	5/21/13 5:21
1,2-Dichloroethane-d4	94.7	70-130	5/21/13 20:09
Toluene-d8	98.8	70-130	5/21/13 5:21
Toluene-d8	101	70-130	5/21/13 20:09
4-Bromofluorobenzene	105	70-130	5/21/13 5:21
4-Bromofluorobenzene	104	70-130	5/21/13 20:09

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05374

Sampled: 5/15/2013 13:45

Sample ID: 13E0614-08

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:55	KSH
Arsenic	0.67	0.40	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:45	KSH
Barium	24	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:55	KSH
Beryllium	18	0.40	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:46	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:55	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:46	KSH
Copper	18	5.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:45	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:45	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:26	SAJ
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:45	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:45	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:55	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:45	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:46	KSH
Zinc	89	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 18:32	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05375

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/20/13	5/21/13 5:48	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
cis-1,2-Dichloroethylene	4.7	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05375

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 5:48	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Tetrachloroethylene	94	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Trichloroethylene	22	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 5:48	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	94.5	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	104	70-130	

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05375

Sampled: 5/15/2013 14:55

Sample ID: 13E0614-09

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.4	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:59	KSH
Arsenic	4.5	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:59	KSH
Barium	86	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:59	KSH
Beryllium	0.45	0.40	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:50	KSH
Cadmium	0.57	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:59	KSH
Chromium	10	1.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:50	KSH
Copper	26	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:59	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:52	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:28	SAJ
Nickel	51	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:59	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:59	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:59	KSH
Thallium	0.24	0.20	µg/L	1		SW-846 6020A	5/17/13	5/21/13 16:52	KSH
Vanadium	23	5.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:50	KSH
Zinc	21	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 16:59	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05376

Sampled: 5/15/2013 13:36

Sample ID: 13E0614-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/20/13	5/21/13 6:14	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05376

Sampled: 5/15/2013 13:36

Sample ID: 13E0614-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 6:14	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Tetrachloroethylene	41	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Trichloroethylene	16	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:14	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	98.3	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	104	70-130	

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05376

Sampled: 5/15/2013 13:36

Sample ID: 13E0614-10

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:02	KSH
Arsenic	0.92	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:02	KSH
Barium	120	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 18:39	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:53	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:02	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:53	KSH
Copper	26	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:02	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 17:15	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:30	SAJ
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:02	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:02	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:02	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/17/13	5/21/13 17:15	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:53	KSH
Zinc	11	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:02	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05377

Sampled: 5/15/2013 13:45

Sample ID: 13E0614-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/20/13	5/21/13 6:40	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05377

Sampled: 5/15/2013 13:45

Sample ID: 13E0614-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 6:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Tetrachloroethylene	140	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Trichloroethylene	21	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 6:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	93.5	70-130	
Toluene-d8	99.9	70-130	
4-Bromofluorobenzene	101	70-130	

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05377

Sampled: 5/15/2013 13:45

Sample ID: 13E0614-11

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:06	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:06	KSH
Barium	150	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 18:43	KSH
Beryllium	2.3	0.40	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:57	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:06	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:57	KSH
Copper	22	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:06	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/21/13 17:23	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:31	SAJ
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:06	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:06	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:06	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/17/13	5/21/13 17:23	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 12:57	KSH
Zinc	18	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:06	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05378

Sampled: 5/15/2013 15:33

Sample ID: 13E0614-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/20/13	5/21/13 7:06	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05378

Sampled: 5/15/2013 15:33

Sample ID: 13E0614-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 7:06	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Tetrachloroethylene	2.9	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:06	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	95.2	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	102	70-130	

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05378

Sampled: 5/15/2013 15:33

Sample ID: 13E0614-12

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:10	KSH
Arsenic	17	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:10	KSH
Barium	46	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:10	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/17/13	5/22/13 13:01	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:10	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 13:01	KSH
Copper	7.0	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:10	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:10	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:33	SAJ
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:10	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:10	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:10	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:10	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 13:01	KSH
Zinc	ND	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:10	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05379

Sampled: 5/15/2013 16:15

Sample ID: 13E0614-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	23	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/20/13	5/21/13 7:32	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05379

Sampled: 5/15/2013 16:15

Sample ID: 13E0614-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/20/13	5/21/13 7:32	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/20/13	5/21/13 7:32	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	96.1	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	102	70-130							

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05379

Sampled: 5/15/2013 16:15

Sample ID: 13E0614-13

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:13	KSH
Arsenic	1.8	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:13	KSH
Barium	72	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:13	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/17/13	5/22/13 13:04	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:13	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 13:04	KSH
Copper	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:13	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:13	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:35	SAJ
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:13	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:13	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:13	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:13	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 13:04	KSH
Zinc	ND	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:13	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05380

Sampled: 5/15/2013 10:15

Sample ID: 13E0614-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
sec-Butylbenzene	5.2	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05380

Sampled: 5/15/2013 10:15

Sample ID: 13E0614-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/21/13	5/21/13 16:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	96.4	70-130	
Toluene-d8	97.1	70-130	
4-Bromofluorobenzene	107	70-130	

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05380

Sampled: 5/15/2013 10:15

Sample ID: 13E0614-14

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	1.2	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:17	KSH
Arsenic	1.4	0.40	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:17	KSH
Barium	140	50	µg/L	5		SW-846 6020A	5/17/13	5/20/13 18:54	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/17/13	5/22/13 13:08	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:17	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 13:08	KSH
Copper	12	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:17	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:17	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:36	SAJ
Nickel	71	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:17	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:17	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:17	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:17	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/17/13	5/22/13 13:08	KSH
Zinc	ND	10	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:17	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05381

Sampled: 5/14/2013 00:00

Sample ID: 13E0614-15

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05381

Sampled: 5/14/2013 00:00

Sample ID: 13E0614-15

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/21/13	5/21/13 16:57	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/13	5/21/13 16:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	96.8	70-130	5/21/13 16:57
Toluene-d8	101	70-130	5/21/13 16:57
4-Bromofluorobenzene	103	70-130	5/21/13 16:57

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05382

Sampled: 5/15/2013 17:30

Sample ID: 13E0614-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Benzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Bromobenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Bromochloromethane	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Bromodichloromethane	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Bromoform	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Bromomethane	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
2-Butanone (MEK)	ND	100	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Carbon Disulfide	ND	50	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Carbon Tetrachloride	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Chlorobenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Chloroethane	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Chloroform	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Chloromethane	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Dibromomethane	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
cis-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,1-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
cis-1,3-Dichloropropene	ND	4.0	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
trans-1,3-Dichloropropene	ND	4.0	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Diethyl Ether	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,4-Dioxane	ND	500	µg/L	10	V-16	SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Ethylbenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05382

Sampled: 5/15/2013 17:30

Sample ID: 13E0614-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	5.0	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Methylene Chloride	ND	50	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Naphthalene	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Styrene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Tetrachloroethylene	540	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Tetrahydrofuran	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Toluene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,2,3-Trichlorobenzene	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Trichloroethylene	280	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
m+p Xylene	ND	20	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH
o-Xylene	ND	10	µg/L	10		SW-846 8260C	5/21/13	5/21/13 19:16	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	95.9	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	103	70-130	

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05382

Sampled: 5/15/2013 17:30

Sample ID: 13E0614-16

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/21/13	5/22/13 16:44	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/21/13	5/22/13 16:44	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/21/13	5/22/13 16:44	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/21/13	5/22/13 16:44	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/21/13	5/22/13 16:44	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/21/13	5/22/13 16:44	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/21/13	5/22/13 16:44	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/21/13	5/22/13 16:44	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/21/13	5/22/13 16:44	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	73.0	30-150							
Decachlorobiphenyl [2]	73.5	30-150							
Tetrachloro-m-xylene [1]	81.7	30-150							
Tetrachloro-m-xylene [2]	83.6	30-150							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05382

Sampled: 5/15/2013 17:30

Sample ID: 13E0614-16

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	0.40	0.010	mg/L	1		SW-846 8015C	5/21/13	5/21/13 17:45	EEH
Diesel Range Organics	0.28	0.20	mg/L	1		SW-846 8015C	5/21/13	5/23/13 17:19	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
1-Chloro-3-fluorobenzene	92.8		70-130				5/21/13 17:45		
o-Terphenyl	89.6		40-140				5/23/13 17:19		

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05382

Sampled: 5/15/2013 17:30

Sample ID: 13E0614-16

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	60	2.0	µg/L	5		SW-846 6020A	5/17/13	5/20/13 18:57	KSH
Barium	1300	200	µg/L	20		SW-846 6020A	5/17/13	5/21/13 14:58	KSH
Cadmium	15	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:20	KSH
Chromium	250	10	µg/L	10		SW-846 6020A	5/17/13	5/20/13 19:17	KSH
Lead	1500	20	µg/L	20		SW-846 6020A	5/17/13	5/21/13 14:58	KSH
Mercury	0.00073	0.00010	mg/L	1		SW-846 7470A	5/18/13	5/20/13 14:38	SAJ
Selenium	31	25	µg/L	5		SW-846 6020A	5/17/13	5/20/13 18:57	KSH
Silver	4.1	0.50	µg/L	1		SW-846 6020A	5/17/13	5/20/13 17:20	KSH

Project Location: 80078

Sample Description: MW101D-0608

Work Order: 13E0614

Date Received: 5/17/2013

Field Sample #: D05382

Sampled: 5/15/2013 17:30

Sample ID: 13E0614-16

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	5/23/13	5/23/13 17:20	VLA
pH @17°C	6.9		pH Units	1	H-05	SM18-20 4500 H B	5/20/13	5/20/13 9:55	LL
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	5/20/13	5/21/13 15:50	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	5/20/13	5/21/13 19:15	DJM

Sample Extraction Data

SM18-20 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
13E0614-16 [D05382]	B073325	50.0	05/20/13

SW-846 1010

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0614-16 [D05382]	B073651	50.0	50.0	05/23/13

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0614-01 [D05367]	B073285	50.0	50.0	05/17/13
13E0614-02 [D05368]	B073285	50.0	50.0	05/17/13
13E0614-03 [D05369]	B073285	50.0	50.0	05/17/13
13E0614-04 [D05370]	B073285	50.0	50.0	05/17/13
13E0614-05 [D05371]	B073285	50.0	50.0	05/17/13
13E0614-06 [D05372]	B073285	50.0	50.0	05/17/13
13E0614-07 [D05373]	B073285	50.0	50.0	05/17/13
13E0614-08 [D05374]	B073285	50.0	50.0	05/17/13
13E0614-09 [D05375]	B073285	50.0	50.0	05/17/13
13E0614-10 [D05376]	B073285	50.0	50.0	05/17/13
13E0614-11 [D05377]	B073285	50.0	50.0	05/17/13
13E0614-12 [D05378]	B073285	50.0	50.0	05/17/13
13E0614-13 [D05379]	B073285	50.0	50.0	05/17/13
13E0614-14 [D05380]	B073285	50.0	50.0	05/17/13
13E0614-16 [D05382]	B073285	50.0	50.0	05/17/13

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0614-01 [D05367]	B073294	6.00	6.00	05/18/13
13E0614-02 [D05368]	B073294	6.00	6.00	05/18/13
13E0614-03 [D05369]	B073294	6.00	6.00	05/18/13
13E0614-04 [D05370]	B073294	6.00	6.00	05/18/13
13E0614-05 [D05371]	B073294	6.00	6.00	05/18/13
13E0614-06 [D05372]	B073294	6.00	6.00	05/18/13
13E0614-07 [D05373]	B073294	6.00	6.00	05/18/13
13E0614-08 [D05374]	B073294	6.00	6.00	05/18/13
13E0614-09 [D05375]	B073294	6.00	6.00	05/18/13
13E0614-10 [D05376]	B073294	6.00	6.00	05/18/13
13E0614-11 [D05377]	B073294	6.00	6.00	05/18/13
13E0614-12 [D05378]	B073294	6.00	6.00	05/18/13
13E0614-13 [D05379]	B073294	6.00	6.00	05/18/13
13E0614-14 [D05380]	B073294	6.00	6.00	05/18/13
13E0614-16 [D05382]	B073294	6.00	6.00	05/18/13

Prep Method: SW-846 3510C-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0614-16 [D05382]	B073448	1000	1.00	05/21/13

Sample Extraction Data

Prep Method: SW-846 5030B-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0614-16 [D05382]	B073512	5	5.00	05/21/13

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0614-16 [D05382]	B073412	1000	10.0	05/21/13

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0614-01 [D05367]	B073334	5	5.00	05/20/13
13E0614-02 [D05368]	B073334	5	5.00	05/20/13
13E0614-03 [D05369]	B073334	5	5.00	05/20/13
13E0614-05 [D05371]	B073334	5	5.00	05/20/13
13E0614-06 [D05372]	B073334	5	5.00	05/20/13
13E0614-08 [D05374]	B073334	5	5.00	05/20/13
13E0614-09 [D05375]	B073334	5	5.00	05/20/13
13E0614-10 [D05376]	B073334	5	5.00	05/20/13
13E0614-11 [D05377]	B073334	5	5.00	05/20/13
13E0614-12 [D05378]	B073334	5	5.00	05/20/13
13E0614-13 [D05379]	B073334	5	5.00	05/20/13

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0614-02RE1 [D05368]	B073417	0.1	5.00	05/20/13
13E0614-03RE1 [D05369]	B073417	0.05	5.00	05/20/13
13E0614-04 [D05370]	B073417	5	5.00	05/21/13
13E0614-06RE1 [D05372]	B073417	0.1	5.00	05/20/13
13E0614-07 [D05373]	B073417	5	5.00	05/21/13
13E0614-08RE1 [D05374]	B073417	0.05	5.00	05/20/13
13E0614-14 [D05380]	B073417	5	5.00	05/21/13
13E0614-15 [D05381]	B073417	5	5.00	05/21/13
13E0614-16 [D05382]	B073417	0.5	5.00	05/21/13

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0614-16 [D05382]	B073391	25.1	250	05/20/13

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0614-16 [D05382]	B073393	25.1	250	05/20/13

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073334 - SW-846 5035										
Blank (B073334-BLK1)				Prepared: 05/20/13 Analyzed: 05/21/13						
Acetone	ND	10	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B073334 - SW-846 5035
Blank (B073334-BLK1)

Prepared: 05/20/13 Analyzed: 05/21/13

n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.5		µg/L	25.0		97.9	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.7	70-130			

LCS (B073334-BS1)

Prepared & Analyzed: 05/20/13

Acetone	157	10	µg/L	100		157	40-160		L-14	†
tert-Amyl Methyl Ether (TAME)	11.4	0.50	µg/L	10.0		114	70-130			
Benzene	9.80	1.0	µg/L	10.0		98.0	70-130			
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130			
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130			
Bromodichloromethane	10.3	1.0	µg/L	10.0		103	70-130			
Bromoform	10.1	1.0	µg/L	10.0		101	70-130			
Bromomethane	4.32	2.0	µg/L	10.0		43.2	40-160		L-14	†
2-Butanone (MEK)	135	10	µg/L	100		135	40-160		L-14	†
n-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
tert-Butyl Ethyl Ether (TBEE)	11.5	0.50	µg/L	10.0		115	70-130			
Carbon Disulfide	10.5	5.0	µg/L	10.0		105	70-130			
Carbon Tetrachloride	9.79	1.0	µg/L	10.0		97.9	70-130			
Chlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
Chlorodibromomethane	10.7	0.50	µg/L	10.0		107	70-130			
Chloroethane	10.5	2.0	µg/L	10.0		105	70-130			
Chloroform	10.0	2.0	µg/L	10.0		100	70-130			
Chloromethane	7.15	2.0	µg/L	10.0		71.5	40-160		V-05	†
2-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130			
4-Chlorotoluene	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.6	2.0	µg/L	10.0		116	70-130			
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111	70-130			
Dibromomethane	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073334 - SW-846 5035										
LCS (B073334-BS1)				Prepared & Analyzed: 05/20/13						
Dichlorodifluoromethane (Freon 12)	6.21	2.0	µg/L	10.0		62.1	40-160			L-14 †
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,2-Dichloroethane	9.67	1.0	µg/L	10.0		96.7	70-130			
1,1-Dichloroethylene	9.44	1.0	µg/L	10.0		94.4	70-130			
cis-1,2-Dichloroethylene	9.56	1.0	µg/L	10.0		95.6	70-130			
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130			
2,2-Dichloropropane	9.02	1.0	µg/L	10.0		90.2	70-130			
1,1-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130			
cis-1,3-Dichloropropene	10.3	0.40	µg/L	10.0		103	70-130			
trans-1,3-Dichloropropene	10.9	0.40	µg/L	10.0		109	70-130			
Diethyl Ether	10.0	2.0	µg/L	10.0		100	70-130			
Diisopropyl Ether (DIPE)	11.3	0.50	µg/L	10.0		113	70-130			
1,4-Dioxane	113	50	µg/L	100		113	40-160			V-16 †
Ethylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Hexachlorobutadiene	10.6	0.50	µg/L	10.0		106	70-130			
2-Hexanone (MBK)	134	10	µg/L	100		134	40-160			L-14 †
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130			
p-Isopropyltoluene (p-Cymene)	11.0	1.0	µg/L	10.0		110	70-130			
Methyl tert-Butyl Ether (MTBE)	12.0	1.0	µg/L	10.0		120	70-130			
Methylene Chloride	12.5	5.0	µg/L	10.0		125	70-130			V-20
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100		113	40-160			†
Naphthalene	12.0	2.0	µg/L	10.0		120	70-130			
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Styrene	10.9	1.0	µg/L	10.0		109	70-130			
1,1,1,2-Tetrachloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,1,1,2,2-Tetrachloroethane	11.1	0.50	µg/L	10.0		111	70-130			
Tetrachloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
Tetrahydrofuran	11.6	2.0	µg/L	10.0		116	70-130			
Toluene	10.5	1.0	µg/L	10.0		105	70-130			
1,2,3-Trichlorobenzene	12.2	2.0	µg/L	10.0		122	70-130			
1,2,4-Trichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130			
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	9.70	2.0	µg/L	10.0		97.0	70-130			
1,2,3-Trichloropropane	11.2	2.0	µg/L	10.0		112	70-130			
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3,5-Trimethylbenzene	9.95	1.0	µg/L	10.0		99.5	70-130			
Vinyl Chloride	8.75	2.0	µg/L	10.0		87.5	70-130			
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130			
o-Xylene	11.1	1.0	µg/L	10.0		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.2		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073334 - SW-846 5035										
LCS Dup (B073334-BSD1)				Prepared & Analyzed: 05/20/13						
Acetone	155	10	µg/L	100		155	40-160	1.69	20	L-14 †
tert-Amyl Methyl Ether (TAME)	10.9	0.50	µg/L	10.0		109	70-130	4.03	20	
Benzene	10.0	1.0	µg/L	10.0		100	70-130	2.12	20	
Bromobenzene	10.5	1.0	µg/L	10.0		105	70-130	1.06	20	
Bromochloromethane	10.1	1.0	µg/L	10.0		101	70-130	2.92	20	
Bromodichloromethane	9.88	1.0	µg/L	10.0		98.8	70-130	4.16	20	
Bromoform	10.2	1.0	µg/L	10.0		102	70-130	1.18	20	
Bromomethane	4.49	2.0	µg/L	10.0		44.9	40-160	3.86	20	L-14 †
2-Butanone (MEK)	132	10	µg/L	100		132	40-160	2.70	20	L-14 †
n-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	0.372	20	
sec-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130	0.903	20	
tert-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130	1.09	20	
tert-Butyl Ethyl Ether (TBEE)	11.0	0.50	µg/L	10.0		110	70-130	4.53	20	
Carbon Disulfide	9.84	5.0	µg/L	10.0		98.4	70-130	6.68	20	
Carbon Tetrachloride	10.0	1.0	µg/L	10.0		100	70-130	2.22	20	
Chlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	0.895	20	
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	70-130	2.64	20	
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130	3.48	20	
Chloroform	10.0	2.0	µg/L	10.0		100	70-130	0.300	20	
Chloromethane	7.48	2.0	µg/L	10.0		74.8	40-160	4.51	20	V-05 †
2-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130	0.361	20	
4-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130	1.77	20	
1,2-Dibromo-3-chloropropane (DBCP)	12.5	2.0	µg/L	10.0		125	70-130	7.97	20	
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130	3.19	20	
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130	4.59	20	
1,2-Dichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130	4.07	20	
1,3-Dichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130	1.70	20	
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	0.294	20	
Dichlorodifluoromethane (Freon 12)	6.38	2.0	µg/L	10.0		63.8	40-160	2.70	20	L-14 †
1,1-Dichloroethane	9.95	1.0	µg/L	10.0		99.5	70-130	3.26	20	
1,2-Dichloroethane	8.93	1.0	µg/L	10.0		89.3	70-130	7.96	20	
1,1-Dichloroethylene	9.41	1.0	µg/L	10.0		94.1	70-130	0.318	20	
cis-1,2-Dichloroethylene	9.19	1.0	µg/L	10.0		91.9	70-130	3.95	20	
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	1.33	20	
1,2-Dichloropropane	9.58	1.0	µg/L	10.0		95.8	70-130	6.27	20	
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130	3.69	20	
2,2-Dichloropropane	8.69	1.0	µg/L	10.0		86.9	70-130	3.73	20	
1,1-Dichloropropene	9.83	0.50	µg/L	10.0		98.3	70-130	2.01	20	
cis-1,3-Dichloropropene	9.75	0.40	µg/L	10.0		97.5	70-130	5.58	20	
trans-1,3-Dichloropropene	10.9	0.40	µg/L	10.0		109	70-130	0.367	20	
Diethyl Ether	9.95	2.0	µg/L	10.0		99.5	70-130	0.801	20	
Diisopropyl Ether (DIPE)	11.0	0.50	µg/L	10.0		110	70-130	2.61	20	
1,4-Dioxane	113	50	µg/L	100		113	40-160	0.300	20	V-16 †
Ethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.194	20	
Hexachlorobutadiene	11.1	0.50	µg/L	10.0		111	70-130	5.35	20	
2-Hexanone (MBK)	133	10	µg/L	100		133	40-160	0.749	20	L-14 †
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.0		111	70-130	2.64	20	
p-Isopropyltoluene (p-Cymene)	11.2	1.0	µg/L	10.0		112	70-130	2.08	20	
Methyl tert-Butyl Ether (MTBE)	12.0	1.0	µg/L	10.0		120	70-130	0.416	20	
Methylene Chloride	12.3	5.0	µg/L	10.0		123	70-130	1.45	20	V-20
4-Methyl-2-pentanone (MIBK)	111	10	µg/L	100		111	40-160	2.61	20	†
Naphthalene	12.6	2.0	µg/L	10.0		126	70-130	4.95	20	

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B073334 - SW-846 5035
LCS Dup (B073334-BSD1)

Prepared & Analyzed: 05/20/13

n-Propylbenzene	11.2	1.0	µg/L	10.0		112	70-130	1.63	20	
Styrene	10.9	1.0	µg/L	10.0		109	70-130	0.550	20	
1,1,1,2-Tetrachloroethane	10.2	1.0	µg/L	10.0		102	70-130	2.22	20	
1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.0		112	70-130	1.70	20	
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130	0.679	20	
Tetrahydrofuran	11.0	2.0	µg/L	10.0		110	70-130	6.11	20	
Toluene	10.3	1.0	µg/L	10.0		103	70-130	1.82	20	
1,2,3-Trichlorobenzene	12.9	2.0	µg/L	10.0		129	70-130	5.27	20	
1,2,4-Trichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	0.624	20	
1,1,1-Trichloroethane	9.87	1.0	µg/L	10.0		98.7	70-130	2.01	20	
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130	2.33	20	
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	0.981	20	
Trichlorofluoromethane (Freon 11)	9.75	2.0	µg/L	10.0		97.5	70-130	0.514	20	
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.0		115	70-130	2.47	20	
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130	4.03	20	
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	4.61	20	
Vinyl Chloride	8.53	2.0	µg/L	10.0		85.3	70-130	2.55	20	
m+p Xylene	21.5	2.0	µg/L	20.0		108	70-130	1.64	20	
o-Xylene	11.1	1.0	µg/L	10.0		111	70-130	0.0903	20	
Surrogate: 1,2-Dichloroethane-d4	23.8		µg/L	25.0		95.4	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	25.6		µg/L	25.0		102	70-130			

Matrix Spike (B073334-MS1)

Source: 13E0614-01

Prepared: 05/20/13 Analyzed: 05/21/13

Acetone	83.6	10	µg/L	100	ND	83.6	70-130			
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.0	ND	100	70-130			
Benzene	9.86	1.0	µg/L	10.0	ND	98.6	70-130			
Bromobenzene	10.2	1.0	µg/L	10.0	ND	102	70-130			
Bromochloromethane	9.88	1.0	µg/L	10.0	ND	98.8	70-130			
Bromodichloromethane	9.06	1.0	µg/L	10.0	ND	90.6	70-130			
Bromoform	9.53	1.0	µg/L	10.0	ND	95.3	70-130			
Bromomethane	6.35	2.0	µg/L	10.0	ND	63.5	* 70-130			MS-07A
2-Butanone (MEK)	85.8	10	µg/L	100	ND	85.8	70-130			
n-Butylbenzene	10.3	1.0	µg/L	10.0	ND	103	70-130			
sec-Butylbenzene	11.3	1.0	µg/L	10.0	ND	113	70-130			
tert-Butylbenzene	11.0	1.0	µg/L	10.0	ND	110	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.2	0.50	µg/L	10.0	ND	102	70-130			
Carbon Disulfide	9.15	5.0	µg/L	10.0	ND	91.5	70-130			
Carbon Tetrachloride	10.5	1.0	µg/L	10.0	ND	105	70-130			
Chlorobenzene	11.1	1.0	µg/L	10.0	ND	111	70-130			
Chlorodibromomethane	10.5	0.50	µg/L	10.0	ND	105	70-130			
Chloroethane	10.1	2.0	µg/L	10.0	ND	101	70-130			
Chloroform	9.94	2.0	µg/L	10.0	ND	99.4	70-130			
Chloromethane	6.06	2.0	µg/L	10.0	ND	60.6	* 70-130			MS-07A, V-05
2-Chlorotoluene	11.1	1.0	µg/L	10.0	ND	111	70-130			
4-Chlorotoluene	11.4	1.0	µg/L	10.0	ND	114	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.83	2.0	µg/L	10.0	ND	98.3	70-130			
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0	ND	105	70-130			
Dibromomethane	10.7	1.0	µg/L	10.0	ND	107	70-130			
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.0	ND	109	70-130			
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.0	ND	112	70-130			
1,4-Dichlorobenzene	10.0	1.0	µg/L	10.0	ND	100	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073334 - SW-846 5035										
Matrix Spike (B073334-MS1)	Source: 13E0614-01			Prepared: 05/20/13 Analyzed: 05/21/13						
Dichlorodifluoromethane (Freon 12)	6.43	2.0	µg/L	10.0	ND	64.3	*	70-130		MS-07A
1,1-Dichloroethane	10.1	1.0	µg/L	10.0	ND	101		70-130		
1,2-Dichloroethane	9.10	1.0	µg/L	10.0	ND	91.0		70-130		
1,1-Dichloroethylene	9.96	1.0	µg/L	10.0	ND	99.6		70-130		
cis-1,2-Dichloroethylene	9.14	1.0	µg/L	10.0	ND	91.4		70-130		
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0	ND	106		70-130		
1,2-Dichloropropane	9.44	1.0	µg/L	10.0	ND	94.4		70-130		
1,3-Dichloropropane	10.3	0.50	µg/L	10.0	ND	103		70-130		
2,2-Dichloropropane	7.67	1.0	µg/L	10.0	ND	76.7		70-130		
1,1-Dichloropropene	10.2	0.50	µg/L	10.0	ND	102		70-130		
cis-1,3-Dichloropropene	9.49	0.40	µg/L	10.0	ND	94.9		70-130		
trans-1,3-Dichloropropene	9.75	0.40	µg/L	10.0	ND	97.5		70-130		
Diethyl Ether	9.55	2.0	µg/L	10.0	ND	95.5		70-130		
Diisopropyl Ether (DIPE)	10.5	0.50	µg/L	10.0	ND	105		70-130		
1,4-Dioxane	60.3	50	µg/L	100	ND	60.3	*	70-130		MS-22, V-16
Ethylbenzene	10.7	1.0	µg/L	10.0	ND	107		70-130		
Hexachlorobutadiene	9.46	0.50	µg/L	10.0	ND	94.6		70-130		
2-Hexanone (MBK)	97.0	10	µg/L	100	ND	97.0		70-130		
Isopropylbenzene (Cumene)	11.6	1.0	µg/L	10.0	ND	116		70-130		
p-Isopropyltoluene (p-Cymene)	11.0	1.0	µg/L	10.0	ND	110		70-130		
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0	ND	107		70-130		
Methylene Chloride	9.52	5.0	µg/L	10.0	ND	95.2		70-130		V-20
4-Methyl-2-pentanone (MIBK)	98.9	10	µg/L	100	ND	98.9		70-130		
Naphthalene	9.29	2.0	µg/L	10.0	ND	92.9		70-130		
n-Propylbenzene	11.5	1.0	µg/L	10.0	ND	115		70-130		
Styrene	10.8	1.0	µg/L	10.0	ND	108		70-130		
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0	ND	104		70-130		
1,1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.0	ND	109		70-130		
Tetrachloroethylene	12.5	1.0	µg/L	10.0	1.47	110		70-130		
Tetrahydrofuran	9.23	2.0	µg/L	10.0	ND	92.3		70-130		
Toluene	10.4	1.0	µg/L	10.0	ND	104		70-130		
1,2,3-Trichlorobenzene	9.53	2.0	µg/L	10.0	ND	95.3		70-130		
1,2,4-Trichlorobenzene	9.76	1.0	µg/L	10.0	ND	97.6		70-130		
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0	ND	102		70-130		
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0	ND	102		70-130		
Trichloroethylene	12.9	1.0	µg/L	10.0	2.66	103		70-130		
Trichlorofluoromethane (Freon 11)	10.0	2.0	µg/L	10.0	ND	100		70-130		
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0	ND	106		70-130		
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0	ND	102		70-130		
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0	ND	107		70-130		
Vinyl Chloride	9.02	2.0	µg/L	10.0	ND	90.2		70-130		
m+p Xylene	22.0	2.0	µg/L	20.0	ND	110		70-130		
o-Xylene	11.4	1.0	µg/L	10.0	ND	114		70-130		
Surrogate: 1,2-Dichloroethane-d4	22.9		µg/L	25.0		91.6		70-130		
Surrogate: Toluene-d8	25.2		µg/L	25.0		101		70-130		
Surrogate: 4-Bromofluorobenzene	26.2		µg/L	25.0		105		70-130		

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073334 - SW-846 5035										
Matrix Spike Dup (B073334-MSD1)		Source: 13E0614-01		Prepared: 05/20/13 Analyzed: 05/21/13						
Acetone	89.1	10	µg/L	100	ND	89.1	70-130	6.38	30	
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.0	ND	100	70-130	0.100	30	
Benzene	10.2	1.0	µg/L	10.0	ND	102	70-130	3.00	30	
Bromobenzene	10.4	1.0	µg/L	10.0	ND	104	70-130	1.45	30	
Bromochloromethane	9.96	1.0	µg/L	10.0	ND	99.6	70-130	0.806	30	
Bromodichloromethane	10.0	1.0	µg/L	10.0	ND	100	70-130	10.4	30	
Bromoform	9.83	1.0	µg/L	10.0	ND	98.3	70-130	3.10	30	
Bromomethane	6.89	2.0	µg/L	10.0	ND	68.9	* 70-130	8.16	30	MS-07A
2-Butanone (MEK)	90.1	10	µg/L	100	ND	90.1	70-130	4.87	30	
n-Butylbenzene	10.8	1.0	µg/L	10.0	ND	108	70-130	5.02	30	
sec-Butylbenzene	11.3	1.0	µg/L	10.0	ND	113	70-130	0.0884	30	
tert-Butylbenzene	11.5	1.0	µg/L	10.0	ND	115	70-130	4.61	30	
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0	ND	101	70-130	0.494	30	
Carbon Disulfide	9.47	5.0	µg/L	10.0	ND	94.7	70-130	3.44	30	
Carbon Tetrachloride	10.2	1.0	µg/L	10.0	ND	102	70-130	2.80	30	
Chlorobenzene	11.3	1.0	µg/L	10.0	ND	113	70-130	2.23	30	
Chlorodibromomethane	10.1	0.50	µg/L	10.0	ND	101	70-130	3.20	30	
Chloroethane	9.87	2.0	µg/L	10.0	ND	98.7	70-130	2.40	30	
Chloroform	10.2	2.0	µg/L	10.0	ND	102	70-130	2.88	30	
Chloromethane	5.84	2.0	µg/L	10.0	ND	58.4	* 70-130	3.70	30	MS-07A, V-05
2-Chlorotoluene	11.5	1.0	µg/L	10.0	ND	115	70-130	3.72	30	
4-Chlorotoluene	11.6	1.0	µg/L	10.0	ND	116	70-130	1.48	30	
1,2-Dibromo-3-chloropropane (DBCP)	10.7	2.0	µg/L	10.0	ND	107	70-130	8.38	30	
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.0	ND	110	70-130	4.00	30	
Dibromomethane	10.5	1.0	µg/L	10.0	ND	105	70-130	1.70	30	
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.0	ND	109	70-130	0.368	30	
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.0	ND	112	70-130	0.447	30	
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0	ND	103	70-130	2.96	30	
Dichlorodifluoromethane (Freon 12)	6.43	2.0	µg/L	10.0	ND	64.3	* 70-130	0.00	30	MS-07A
1,1-Dichloroethane	10.3	1.0	µg/L	10.0	ND	103	70-130	2.16	30	
1,2-Dichloroethane	9.03	1.0	µg/L	10.0	ND	90.3	70-130	0.772	30	
1,1-Dichloroethylene	10.4	1.0	µg/L	10.0	ND	104	70-130	4.51	30	
cis-1,2-Dichloroethylene	9.25	1.0	µg/L	10.0	ND	92.5	70-130	1.20	30	
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0	ND	105	70-130	1.23	30	
1,2-Dichloropropane	9.76	1.0	µg/L	10.0	ND	97.6	70-130	3.33	30	
1,3-Dichloropropane	10.1	0.50	µg/L	10.0	ND	101	70-130	1.47	30	
2,2-Dichloropropane	7.53	1.0	µg/L	10.0	ND	75.3	70-130	1.84	30	
1,1-Dichloropropene	10.5	0.50	µg/L	10.0	ND	105	70-130	3.39	30	
cis-1,3-Dichloropropene	9.25	0.40	µg/L	10.0	ND	92.5	70-130	2.56	30	
trans-1,3-Dichloropropene	9.95	0.40	µg/L	10.0	ND	99.5	70-130	2.03	30	
Diethyl Ether	9.72	2.0	µg/L	10.0	ND	97.2	70-130	1.76	30	
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.0	ND	106	70-130	0.760	30	
1,4-Dioxane	70.4	50	µg/L	100	ND	70.4	70-130	15.5	30	V-16
Ethylbenzene	11.0	1.0	µg/L	10.0	ND	110	70-130	2.58	30	
Hexachlorobutadiene	10.2	0.50	µg/L	10.0	ND	102	70-130	7.63	30	
2-Hexanone (MBK)	98.6	10	µg/L	100	ND	98.6	70-130	1.60	30	
Isopropylbenzene (Cumene)	11.5	1.0	µg/L	10.0	ND	115	70-130	0.869	30	
p-Isopropyltoluene (p-Cymene)	11.5	1.0	µg/L	10.0	ND	115	70-130	4.10	30	
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0	ND	107	70-130	0.00	30	
Methylene Chloride	9.59	5.0	µg/L	10.0	ND	95.9	70-130	0.733	30	V-20
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100	ND	101	70-130	1.75	30	
Naphthalene	10.4	2.0	µg/L	10.0	ND	104	70-130	11.0	30	

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B073334 - SW-846 5035

Matrix Spike Dup (B073334-MSD1)		Source: 13E0614-01		Prepared: 05/20/13		Analyzed: 05/21/13				
n-Propylbenzene	11.7	1.0	µg/L	10.0	ND	117	70-130	1.64	30	
Styrene	10.6	1.0	µg/L	10.0	ND	106	70-130	1.59	30	
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0	ND	101	70-130	2.24	30	
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0	ND	108	70-130	0.921	30	
Tetrachloroethylene	12.7	1.0	µg/L	10.0	1.47	112	70-130	1.90	30	
Tetrahydrofuran	9.34	2.0	µg/L	10.0	ND	93.4	70-130	1.18	30	
Toluene	10.5	1.0	µg/L	10.0	ND	105	70-130	1.25	30	
1,2,3-Trichlorobenzene	11.0	2.0	µg/L	10.0	ND	110	70-130	13.9	30	
1,2,4-Trichlorobenzene	10.5	1.0	µg/L	10.0	ND	105	70-130	7.40	30	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0	ND	104	70-130	1.94	30	
1,1,2-Trichloroethane	10.0	1.0	µg/L	10.0	ND	100	70-130	1.58	30	
Trichloroethylene	13.0	1.0	µg/L	10.0	2.66	104	70-130	0.847	30	
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0	ND	104	70-130	3.90	30	
1,2,3-Trichloropropane	10.8	2.0	µg/L	10.0	ND	108	70-130	1.86	30	
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.0	ND	106	70-130	4.05	30	
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.0	ND	104	70-130	2.18	30	
Vinyl Chloride	9.18	2.0	µg/L	10.0	ND	91.8	70-130	1.76	30	
m+p Xylene	22.4	2.0	µg/L	20.0	ND	112	70-130	2.25	30	
o-Xylene	11.2	1.0	µg/L	10.0	ND	112	70-130	1.95	30	
Surrogate: 1,2-Dichloroethane-d4	24.1		µg/L	25.0		96.4	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			

Batch B073417 - SW-846 5035

Blank (B073417-BLK1)				Prepared & Analyzed: 05/21/13						
Acetone	ND	10	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073417 - SW-846 5035										
Blank (B073417-BLK1)				Prepared & Analyzed: 05/21/13						
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.2		µg/L	25.0		96.6	70-130			
Surrogate: Toluene-d8	24.1		µg/L	25.0		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	26.4		µg/L	25.0		106	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073417 - SW-846 5035										
LCS (B073417-BS1)				Prepared & Analyzed: 05/21/13						
Acetone	155	10	µg/L	100		155	40-160			L-14 †
tert-Amyl Methyl Ether (TAME)	11.5	0.50	µg/L	10.0		115	70-130			
Benzene	10.2	1.0	µg/L	10.0		102	70-130			
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Bromochloromethane	10.9	1.0	µg/L	10.0		109	70-130			
Bromodichloromethane	10.3	1.0	µg/L	10.0		103	70-130			
Bromoform	10.3	1.0	µg/L	10.0		103	70-130			
Bromomethane	4.19	2.0	µg/L	10.0		41.9	40-160			L-14, V-20 †
2-Butanone (MEK)	144	10	µg/L	100		144	40-160			L-14 †
n-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
sec-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
tert-Butyl Ethyl Ether (TBEE)	11.6	0.50	µg/L	10.0		116	70-130			
Carbon Disulfide	10.3	5.0	µg/L	10.0		103	70-130			
Carbon Tetrachloride	10.4	1.0	µg/L	10.0		104	70-130			
Chlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
Chlorodibromomethane	11.3	0.50	µg/L	10.0		113	70-130			
Chloroethane	9.17	2.0	µg/L	10.0		91.7	70-130			
Chloroform	10.5	2.0	µg/L	10.0		105	70-130			
Chloromethane	5.21	2.0	µg/L	10.0		52.1	40-160			L-14 †
2-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130			
4-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	12.6	2.0	µg/L	10.0		126	70-130			
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130			
Dibromomethane	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
Dichlorodifluoromethane (Freon 12)	5.79	2.0	µg/L	10.0		57.9	40-160			L-14 †
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloroethane	9.80	1.0	µg/L	10.0		98.0	70-130			
1,1-Dichloroethylene	9.88	1.0	µg/L	10.0		98.8	70-130			
cis-1,2-Dichloroethylene	9.45	1.0	µg/L	10.0		94.5	70-130			
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	70-130			
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130			
2,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	70-130			
1,1-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	10.7	0.40	µg/L	10.0		107	70-130			
trans-1,3-Dichloropropene	11.4	0.40	µg/L	10.0		114	70-130			
Diethyl Ether	10.0	2.0	µg/L	10.0		100	70-130			
Diisopropyl Ether (DIPE)	11.4	0.50	µg/L	10.0		114	70-130			
1,4-Dioxane	108	50	µg/L	100		108	40-160			V-16 †
Ethylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
Hexachlorobutadiene	10.8	0.50	µg/L	10.0		108	70-130			
2-Hexanone (MBK)	133	10	µg/L	100		133	40-160			L-14 †
Isopropylbenzene (Cumene)	11.5	1.0	µg/L	10.0		115	70-130			
p-Isopropyltoluene (p-Cymene)	10.7	1.0	µg/L	10.0		107	70-130			
Methyl tert-Butyl Ether (MTBE)	12.4	1.0	µg/L	10.0		124	70-130			
Methylene Chloride	13.2	5.0	µg/L	10.0		132 *	70-130			V-20 †
4-Methyl-2-pentanone (MIBK)	125	10	µg/L	100		125	40-160			†
Naphthalene	12.9	2.0	µg/L	10.0		129	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073417 - SW-846 5035										
LCS (B073417-BS1)										
Prepared & Analyzed: 05/21/13										
n-Propylbenzene	11.5	1.0	µg/L	10.0		115	70-130			
Styrene	11.0	1.0	µg/L	10.0		110	70-130			
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,1,2,2-Tetrachloroethane	12.2	0.50	µg/L	10.0		122	70-130			
Tetrachloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
Tetrahydrofuran	12.0	2.0	µg/L	10.0		120	70-130			
Toluene	10.8	1.0	µg/L	10.0		108	70-130			
1,2,3-Trichlorobenzene	13.7	2.0	µg/L	10.0		137	* 70-130			L-02
1,2,4-Trichlorobenzene	11.8	1.0	µg/L	10.0		118	70-130			
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	9.81	2.0	µg/L	10.0		98.1	70-130			
1,2,3-Trichloropropane	12.2	2.0	µg/L	10.0		122	70-130			
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Vinyl Chloride	8.74	2.0	µg/L	10.0		87.4	70-130			
m+p Xylene	21.4	2.0	µg/L	20.0		107	70-130			
o-Xylene	11.3	1.0	µg/L	10.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.3		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	26.0		µg/L	25.0		104	70-130			
LCS Dup (B073417-BSD1)										
Prepared & Analyzed: 05/21/13										
Acetone	143	10	µg/L	100		143	40-160	8.13	20	L-14 †
tert-Amyl Methyl Ether (TAME)	11.2	0.50	µg/L	10.0		112	70-130	2.46	20	
Benzene	9.73	1.0	µg/L	10.0		97.3	70-130	5.21	20	
Bromobenzene	10.1	1.0	µg/L	10.0		101	70-130	4.62	20	
Bromochloromethane	10.5	1.0	µg/L	10.0		105	70-130	3.84	20	
Bromodichloromethane	10.0	1.0	µg/L	10.0		100	70-130	2.86	20	
Bromoform	10.4	1.0	µg/L	10.0		104	70-130	1.45	20	
Bromomethane	4.26	2.0	µg/L	10.0		42.6	40-160	1.66	20	L-14, V-20 †
2-Butanone (MEK)	135	10	µg/L	100		135	40-160	6.13	20	L-14 †
n-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	3.67	20	
sec-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	4.11	20	
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130	4.17	20	
tert-Butyl Ethyl Ether (TBEE)	11.5	0.50	µg/L	10.0		115	70-130	0.432	20	
Carbon Disulfide	9.58	5.0	µg/L	10.0		95.8	70-130	7.53	20	
Carbon Tetrachloride	9.72	1.0	µg/L	10.0		97.2	70-130	7.14	20	
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	4.81	20	
Chlorodibromomethane	11.1	0.50	µg/L	10.0		111	70-130	1.43	20	
Chloroethane	9.04	2.0	µg/L	10.0		90.4	70-130	1.43	20	
Chloroform	10.0	2.0	µg/L	10.0		100	70-130	4.66	20	
Chloromethane	5.76	2.0	µg/L	10.0		57.6	40-160	10.0	20	L-14 †
2-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130	1.87	20	
4-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130	3.11	20	
1,2-Dibromo-3-chloropropane (DBCP)	13.1	2.0	µg/L	10.0		131	* 70-130	3.90	20	L-07
1,2-Dibromoethane (EDB)	11.7	0.50	µg/L	10.0		117	70-130	1.80	20	
Dibromomethane	10.9	1.0	µg/L	10.0		109	70-130	3.08	20	
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	4.31	20	
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	2.57	20	
1,4-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130	3.53	20	

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073417 - SW-846 5035										
LCS Dup (B073417-BSD1)				Prepared & Analyzed: 05/21/13						
Dichlorodifluoromethane (Freon 12)	5.37	2.0	µg/L	10.0		53.7	40-160	7.53	20	L-14 †
1,1-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130	5.35	20	
1,2-Dichloroethane	9.34	1.0	µg/L	10.0		93.4	70-130	4.81	20	
1,1-Dichloroethylene	9.55	1.0	µg/L	10.0		95.5	70-130	3.40	20	
cis-1,2-Dichloroethylene	9.24	1.0	µg/L	10.0		92.4	70-130	2.25	20	
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	3.71	20	
1,2-Dichloropropane	9.82	1.0	µg/L	10.0		98.2	70-130	4.48	20	
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130	0.455	20	
2,2-Dichloropropane	9.72	1.0	µg/L	10.0		97.2	70-130	6.28	20	
1,1-Dichloropropene	9.87	0.50	µg/L	10.0		98.7	70-130	6.66	20	
cis-1,3-Dichloropropene	10.4	0.40	µg/L	10.0		104	70-130	2.64	20	
trans-1,3-Dichloropropene	11.3	0.40	µg/L	10.0		113	70-130	0.616	20	
Diethyl Ether	10.0	2.0	µg/L	10.0		100	70-130	0.0999	20	
Diisopropyl Ether (DIPE)	11.0	0.50	µg/L	10.0		110	70-130	3.47	20	
1,4-Dioxane	119	50	µg/L	100		119	40-160	10.2	20	V-16 †
Ethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	3.99	20	
Hexachlorobutadiene	10.6	0.50	µg/L	10.0		106	70-130	2.52	20	
2-Hexanone (MBK)	130	10	µg/L	100		130	40-160	2.10	20	L-14 †
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130	6.12	20	
p-Isopropyltoluene (p-Cymene)	11.0	1.0	µg/L	10.0		110	70-130	2.85	20	
Methyl tert-Butyl Ether (MTBE)	12.0	1.0	µg/L	10.0		120	70-130	3.85	20	
Methylene Chloride	13.0	5.0	µg/L	10.0		130	70-130	1.76	20	V-20
4-Methyl-2-pentanone (MIBK)	122	10	µg/L	100		122	40-160	2.62	20	†
Naphthalene	13.8	2.0	µg/L	10.0		138 *	70-130	6.98	20	L-07
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130	4.35	20	
Styrene	10.4	1.0	µg/L	10.0		104	70-130	5.87	20	
1,1,1,2-Tetrachloroethane	10.5	1.0	µg/L	10.0		105	70-130	1.24	20	
1,1,2,2-Tetrachloroethane	12.1	0.50	µg/L	10.0		121	70-130	0.576	20	
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130	5.11	20	
Tetrahydrofuran	11.7	2.0	µg/L	10.0		117	70-130	2.03	20	
Toluene	10.6	1.0	µg/L	10.0		106	70-130	2.52	20	
1,2,3-Trichlorobenzene	14.4	2.0	µg/L	10.0		144 *	70-130	4.34	20	L-02
1,2,4-Trichlorobenzene	11.6	1.0	µg/L	10.0		116	70-130	1.62	20	
1,1,1-Trichloroethane	9.80	1.0	µg/L	10.0		98.0	70-130	6.80	20	
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130	3.47	20	
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	1.28	20	
Trichlorofluoromethane (Freon 11)	9.49	2.0	µg/L	10.0		94.9	70-130	3.32	20	
1,2,3-Trichloropropane	11.8	2.0	µg/L	10.0		118	70-130	3.41	20	
1,2,4-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	2.83	20	
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	4.72	20	
Vinyl Chloride	7.92	2.0	µg/L	10.0		79.2	70-130	9.84	20	
m+p Xylene	20.9	2.0	µg/L	20.0		105	70-130	2.41	20	
o-Xylene	10.9	1.0	µg/L	10.0		109	70-130	3.06	20	
Surrogate: 1,2-Dichloroethane-d4	24.8		µg/L	25.0		99.4	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B073412 - SW-846 3510C
Blank (B073412-BLK1)

Prepared: 05/21/13 Analyzed: 05/22/13

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.25		µg/L	2.00		62.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.22		µg/L	2.00		61.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.75		µg/L	2.00		87.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.77		µg/L	2.00		88.5	30-150			

LCS (B073412-BS1)

Prepared: 05/21/13 Analyzed: 05/22/13

Aroclor-1016	0.47	0.20	µg/L	0.500		93.3	40-140			
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.6	40-140			
Aroclor-1260	0.42	0.20	µg/L	0.500		84.0	40-140			
Aroclor-1260 [2C]	0.42	0.20	µg/L	0.500		83.7	40-140			
Surrogate: Decachlorobiphenyl	1.30		µg/L	2.00		65.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.32		µg/L	2.00		66.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.57		µg/L	2.00		78.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.66		µg/L	2.00		82.8	30-150			

LCS Dup (B073412-BSD1)

Prepared: 05/21/13 Analyzed: 05/22/13

Aroclor-1016	0.49	0.20	µg/L	0.500		98.5	40-140	5.39	20	
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		94.4	40-140	4.16	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.6	40-140	8.63	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.5	40-140	7.81	20	
Surrogate: Decachlorobiphenyl	1.00		µg/L	2.00		50.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.997		µg/L	2.00		49.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.65		µg/L	2.00		82.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.70		µg/L	2.00		84.9	30-150			

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073448 - SW-846 3510C										
Blank (B073448-BLK1)				Prepared: 05/21/13 Analyzed: 05/23/13						
Diesel Range Organics	ND	0.20	mg/L							
Surrogate: o-Terphenyl	0.0849		mg/L	0.100		84.9	40-140			
LCS (B073448-BS1)				Prepared: 05/21/13 Analyzed: 05/23/13						
Diesel Range Organics	0.726	0.20	mg/L	1.00		72.6	40-140			
Surrogate: o-Terphenyl	0.0835		mg/L	0.100		83.5	40-140			
LCS Dup (B073448-BSD1)				Prepared: 05/21/13 Analyzed: 05/23/13						
Diesel Range Organics	0.839	0.20	mg/L	1.00		83.9	40-140	14.5		
Surrogate: o-Terphenyl	0.0930		mg/L	0.100		93.0	40-140			
Batch B073512 - SW-846 5030B										
Blank (B073512-BLK1)				Prepared & Analyzed: 05/21/13						
Gasoline Range Organics (GRO)	ND	0.010	mg/L							
Surrogate: 1-Chloro-3-fluorobenzene	0.0137		mg/L	0.0150		91.2	70-130			
LCS (B073512-BS1)				Prepared & Analyzed: 05/21/13						
Gasoline Range Organics (GRO)	0.204	0.010	mg/L	0.250		81.5	80-120			
Surrogate: 1-Chloro-3-fluorobenzene	0.0130		mg/L	0.0150		86.8	70-130			
LCS Dup (B073512-BSD1)				Prepared & Analyzed: 05/21/13						
Gasoline Range Organics (GRO)	0.212	0.010	mg/L	0.250		84.7	80-120	3.83	30	
Surrogate: 1-Chloro-3-fluorobenzene	0.0144		mg/L	0.0150		96.3	70-130			

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B073285 - SW-846 3005A
Blank (B073285-BLK1)

Prepared: 05/17/13 Analyzed: 05/20/13

Antimony	ND	1.0	µg/L
Arsenic	ND	0.40	µg/L
Barium	ND	10	µg/L
Beryllium	ND	0.40	µg/L
Cadmium	ND	0.50	µg/L
Chromium	ND	1.0	µg/L
Copper	ND	5.0	µg/L
Lead	ND	1.0	µg/L
Nickel	ND	5.0	µg/L
Selenium	ND	5.0	µg/L
Silver	ND	0.50	µg/L
Thallium	ND	0.20	µg/L
Vanadium	ND	5.0	µg/L
Zinc	ND	10	µg/L

LCS (B073285-BS1)

Prepared: 05/17/13 Analyzed: 05/20/13

Antimony	278	5.0	µg/L	250	111	80-120
Arsenic	271	2.0	µg/L	250	108	80-120
Barium	268	50	µg/L	250	107	80-120
Beryllium	265	2.0	µg/L	250	106	80-120
Cadmium	279	2.5	µg/L	250	112	80-120
Chromium	282	5.0	µg/L	250	113	80-120
Copper	283	25	µg/L	250	113	80-120
Lead	273	5.0	µg/L	250	109	80-120
Nickel	277	25	µg/L	250	111	80-120
Selenium	278	25	µg/L	250	111	80-120
Silver	276	2.5	µg/L	250	111	80-120
Thallium	276	1.0	µg/L	250	110	80-120
Vanadium	296	25	µg/L	250	118	80-120
Zinc	287	50	µg/L	250	115	80-120

LCS Dup (B073285-BSD1)

Prepared: 05/17/13 Analyzed: 05/20/13

Antimony	272	5.0	µg/L	250	109	80-120	2.00	20
Arsenic	271	2.0	µg/L	250	108	80-120	0.0207	20
Barium	262	50	µg/L	250	105	80-120	2.14	20
Beryllium	268	2.0	µg/L	250	107	80-120	0.908	20
Cadmium	277	2.5	µg/L	250	111	80-120	0.788	20
Chromium	281	5.0	µg/L	250	113	80-120	0.233	20
Copper	281	25	µg/L	250	112	80-120	0.693	20
Lead	272	5.0	µg/L	250	109	80-120	0.524	20
Nickel	275	25	µg/L	250	110	80-120	0.758	20
Selenium	274	25	µg/L	250	110	80-120	1.44	20
Silver	275	2.5	µg/L	250	110	80-120	0.511	20
Thallium	256	1.0	µg/L	250	102	80-120	7.66	20
Vanadium	296	25	µg/L	250	119	80-120	0.219	20
Zinc	285	50	µg/L	250	114	80-120	0.641	20

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B073285 - SW-846 3005A

Duplicate (B073285-DUP1)		Source: 13E0614-01		Prepared: 05/17/13		Analyzed: 05/20/13				
Antimony	ND	1.0	µg/L		ND			NC	20	
Arsenic	ND	0.40	µg/L		ND			NC	20	
Barium	128	50	µg/L		130			1.57	20	
Beryllium	1.05	0.40	µg/L		0.958			9.19	20	
Cadmium	ND	0.50	µg/L		ND			NC	20	
Chromium	ND	1.0	µg/L		ND			NC	20	
Copper	28.3	5.0	µg/L		29.1			2.93	20	
Lead	ND	1.0	µg/L		ND			NC	20	
Nickel	ND	5.0	µg/L		ND			NC	20	
Selenium	ND	5.0	µg/L		ND			NC	20	
Silver	ND	0.50	µg/L		ND			NC	20	
Thallium	ND	0.20	µg/L		ND			NC	20	
Vanadium	ND	5.0	µg/L		ND			NC	20	
Zinc	11.1	10	µg/L		10.9			1.86	20	

Matrix Spike (B073285-MS1)		Source: 13E0614-01		Prepared: 05/17/13		Analyzed: 05/20/13				
Antimony	263	10	µg/L	250	ND	105	75-125			
Arsenic	259	4.0	µg/L	250	ND	104	75-125			
Barium	366	100	µg/L	250	130	94.3	75-125			
Beryllium	261	4.0	µg/L	250	0.958	104	75-125			
Cadmium	253	5.0	µg/L	250	ND	101	75-125			
Chromium	255	10	µg/L	250	ND	102	75-125			
Copper	272	50	µg/L	250	29.1	97.2	75-125			
Lead	259	10	µg/L	250	ND	104	75-125			
Nickel	250	50	µg/L	250	2.14	99.3	75-125			
Selenium	255	50	µg/L	250	ND	102	75-125			
Silver	237	5.0	µg/L	250	0.137	94.6	75-125			
Thallium	245	2.0	µg/L	250	ND	98.0	75-125			
Vanadium	261	50	µg/L	250	ND	104	75-125			
Zinc	264	100	µg/L	250	10.9	101	75-125			

Matrix Spike Dup (B073285-MSD1)		Source: 13E0614-01		Prepared: 05/17/13		Analyzed: 05/20/13				
Antimony	280	10	µg/L	250	ND	112	75-125	6.36	20	
Arsenic	272	4.0	µg/L	250	ND	109	75-125	4.70	20	
Barium	392	100	µg/L	250	130	105	75-125	6.78	20	
Beryllium	275	4.0	µg/L	250	0.958	110	75-125	5.14	20	
Cadmium	270	5.0	µg/L	250	ND	108	75-125	6.48	20	
Chromium	267	10	µg/L	250	ND	107	75-125	4.66	20	
Copper	285	50	µg/L	250	29.1	103	75-125	4.77	20	
Lead	277	10	µg/L	250	ND	111	75-125	6.63	20	
Nickel	260	50	µg/L	250	2.14	103	75-125	3.80	20	
Selenium	265	50	µg/L	250	ND	106	75-125	3.87	20	
Silver	250	5.0	µg/L	250	0.137	100	75-125	5.52	20	
Thallium	269	2.0	µg/L	250	ND	108	75-125	9.37	20	
Vanadium	272	50	µg/L	250	ND	109	75-125	4.09	20	
Zinc	277	100	µg/L	250	10.9	107	75-125	5.08	20	

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073294 - SW-846 7470A Prep										
Blank (B073294-BLK1)				Prepared: 05/18/13 Analyzed: 05/20/13						
Mercury	ND	0.00010	mg/L							
LCS (B073294-BS1)				Prepared: 05/18/13 Analyzed: 05/20/13						
Mercury	0.00231	0.00010	mg/L	0.00200		115	80-120			
LCS Dup (B073294-BSD1)				Prepared: 05/18/13 Analyzed: 05/20/13						
Mercury	0.00233	0.00010	mg/L	0.00200		117	80-120	1.01	20	
Duplicate (B073294-DUP1)				Source: 13E0614-01		Prepared: 05/18/13 Analyzed: 05/20/13				
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B073294-MS1)				Source: 13E0614-01		Prepared: 05/18/13 Analyzed: 05/20/13				
Mercury	0.00230	0.00010	mg/L	0.00200	ND	115	75-125			
Matrix Spike Dup (B073294-MSD1)				Source: 13E0614-01		Prepared: 05/18/13 Analyzed: 05/20/13				
Mercury	0.00219	0.00010	mg/L	0.00200	ND	110	75-125	5.10	20	

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073325 - SM18-20 4500 H B										
LCS (B073325-BS1)				Prepared & Analyzed: 05/20/13						
pH	6.00		pH Units	6.00		100	99-102			
Duplicate (B073325-DUP1)				Source: 13E0614-16		Prepared & Analyzed: 05/20/13				
pH	6.8		pH Units		6.9			0.146	5.27	H-05
Batch B073391 - SW-846 9014										
Blank (B073391-BLK1)				Prepared: 05/20/13 Analyzed: 05/21/13						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B073391-BS1)				Prepared: 05/20/13 Analyzed: 05/21/13						
Reactive Cyanide	10	0.40	mg/Kg	10.0		104	81.3-112			
Batch B073393 - SW-846 9030A										
Blank (B073393-BLK1)				Prepared: 05/20/13 Analyzed: 05/21/13						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B073393-BS1)				Prepared: 05/20/13 Analyzed: 05/21/13						
Reactive Sulfide	8.8	2.0	mg/Kg	14.9		59.1	15.2-146			
Batch B073651 - SW-846 1010										
Blank (B073651-BLK1)				Prepared & Analyzed: 05/23/13						
Flashpoint	> 212 °F		°F							
LCS (B073651-BS1)				Prepared & Analyzed: 05/23/13						
Flashpoint	81		°F	81.0		100	98.8-101			
LCS Dup (B073651-BSD1)				Prepared & Analyzed: 05/23/13						
Flashpoint	81		°F	81.0		100	98.8-101	0.00	1.34	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
SM18-20 4500 H B in Water	
pH	CT,MA,RI
SW-846 6020A in Water	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,NC,ME,VA
Barium	CT,NH,NY,NC,ME,VA
Beryllium	CT,NH,NY,NC,ME,VA
Cadmium	CT,NH,NY,RI,NC,ME,VA
Chromium	CT,NH,NY,NC,ME,VA
Copper	CT,NH,NY,NC,ME,VA
Lead	CT,NH,NY,NC,ME,VA
Nickel	CT,NH,NY,NC,ME,VA
Selenium	CT,NH,NY,NC,ME,VA
Silver	CT,NH,NY,NC,ME,VA
Thallium	CT,NH,NY,NC,ME,VA
Vanadium	CT,NC,NH,NY,ME,VA
Zinc	CT,NH,NY,NC,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8015C in Water	
Gasoline Range Organics (GRO)	NY,VA,NH
Diesel Range Organics	NY,VA,NH
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

SW-846 9014 in Soil

Reactive Cyanide	NY,CT
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SW-846 9030A in Soil

Reactive Sulfide	CT,NY
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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

USEPA CLP Generic COC (REGION COPY)

Date Shipped: 5/17/2013

Carrier Name: Contest Driver

Airbill No: NA

CHAIN OF CUSTODY RECORD

Nu Style

Project Code:

Cooler #:

No: 1-051613-134626-0002

Lab: Contest

Lab Contact: Meghan Kelley

Lab Phone: 413-525-6405

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Sample Type
D05367	Ground Water/ David Gorhan	Grab	Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V, Metals - PP13 plus Ba and V, Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), D (HCl), E (HCl), F (HCl), G (HCl), H (HCl), I (HCl), J (HNO3), K (HNO3), L (HNO3) (12)	GW-MMW14- 2122-051513-01	05/15/2013 16:45	Lab QC
D05368	Ground Water/ David Gorhan	Grab	Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MMW101S- 1516-051513-01	05/15/2013 14:55	Field Sample
D05369	Ground Water/ David Gorhan	Grab	Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MMW101D- 3031-051513-01	05/15/2013 14:55	Field Sample
D05370	Ground Water/ David Gorhan	Grab	Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MMW102S- 1314-051513-01	05/15/2013 15:55	Field Sample
D05371	Ground Water/ David Gorhan	Grab	Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MMW102D- 2728-051513-01	05/15/2013 14:55	Field Sample
D05372	Ground Water/ Andy Robichaud	Grab	Volatiles (VOAs), Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MMW103D- 2324-051513-01	05/15/2013 10:57	Field Sample

Sample(s) to be used for Lab QC: D05367

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
DeLong	Mr. DeLong	5/17/13	Mr. DeLong	5/17/13	13:15						
DeLong	Mr. DeLong	5/17/13	Mr. DeLong	5/17/13	16:25						

USEPA CLP Generic COC (REGION COPY)

Date Shipped: 5/17/2013

Carrier Name: Contest Driver

Airbill No: NA

13E0614
CHAIN OF CUSTODY RECORD

Nu Style

Project Code:

Cooler #:

No: 1-051613-134626-0002

Lab: Contest

Lab Contact: Meghan Kelley

Lab Phone: 413-525-6405

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Sample Type
07 D05373	Ground Water/ Andy Robichaud	Grab	Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MW103S- 1718-051513-01	05/15/2013 09:50	Field Sample
08 D05374	Ground Water/ David Gorhan	Grab	Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MW104D- 2627-051513-01	05/15/2013 13:45	Field Sample
09 D05375	Ground Water/ David Gorhan	Grab	Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MW104S- 1617-051513-01	05/15/2013 14:55	Field Sample
10 D05376	Ground Water/ Andy Robichaud	Grab	Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MW105D- 3132-051513-01	05/15/2013 13:36	Field Sample
11 D05377	Ground Water/ Andy Robichaud	Grab	Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MW105S- 2223-051513-01	05/15/2013 13:45	Field Sample
12 D05378	Ground Water/ Andy Robichaud	Grab	Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MW106D- 3031-051513	05/15/2013 15:33	Field Sample
13 D05379	Ground Water/ Andy Robichaud	Grab	Volatiles (VOAs), Volatiles (VOAs), Metals - PP13 plus Ba and V	A (HCl), B (HCl), C (HCl), J (HNO3) (4)	GW-MW106S- 1415-051513-01	05/15/2013 16:15 (Dg)	Field Sample

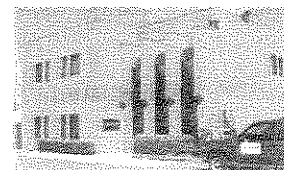
Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Delivery	A. L. L.	5/12/13	5/17/13	5/17/13	12:05						



Sample Receipt Checklist

CLIENT NAME: Nobis RECEIVED BY: JMK DATE: 5/17/17

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

Yes No

If not, explain:

3) Are all the samples in good condition?

Yes No

If not, explain:

4) How were the samples received:

On Ice ☒

Direct from Sampling ☐

Ambient ☐

In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)?

Yes No N/A

Temperature °C by Temp blank

Temperature °C by Temp gun

4.9°C

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>4</u>	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic	<u>1</u>	Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	<u>17</u>	Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>63</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle	<u>1</u>	Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl <u>63</u>	# Methanol _____	Time and Date Frozen: _____
Doc# 277 # Bisulfate _____	# DI Water _____	
Rev. 3 May 2012 # Thiosulfate _____	Unpreserved _____	

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 13E0614

Project Location: 80078

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

13E0614-01 thru 13E0614-16

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B ()	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A ()	6020 Metals CAM III D (X)	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☒ Yes ☐ No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes ☐ No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	☒ Yes ☐ No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes ☐ No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	☒ Yes ☐ No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☒ No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☒ No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes ☒ No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: 

Position: Laboratory Manager

Printed Name: Daren J. Damboragian

Date: 05/24/13

August 29, 2013

Gail DeRuzzo
Nobis Engineering
585 Middlesex Street
Lowell, MA 01851

Project Location: Nu-Style Franklin MA
Client Job Number:
Project Number: 80078.03
Laboratory Work Order Number: 13H0884

Enclosed are results of analyses for samples received by the laboratory on August 22, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Nobis Engineering
585 Middlesex Street
Lowell, MA 01851
ATTN: Gail DeRuzzo

REPORT DATE: 8/29/2013

PURCHASE ORDER NUMBER: MO-13-008

PROJECT NUMBER: 80078.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13H0884

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Nu-Style Franklin MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-102S	13H0884-01	Ground Water		SW-846 8260C	
MW-102D	13H0884-02	Ground Water		SW-846 8260C	
MW-104S	13H0884-03	Ground Water		SW-846 8260C	
MW-104D	13H0884-04	Ground Water		SW-846 8260C	
MW-105S	13H0884-05	Ground Water		SW-846 8260C	
MW-105D	13H0884-06	Ground Water		SW-846 8260C	
MW-103S	13H0884-07	Ground Water		SW-846 8260C	
MW-103D	13H0884-08	Ground Water		SW-846 8260C	
Dup-1	13H0884-09	Ground Water		SW-846 8260C	
MW-14	13H0884-10	Ground Water		SW-846 8260C	
MW-101S	13H0884-11	Ground Water		SW-846 8260C	
MW-2	13H0884-12	Ground Water		SW-846 8260C	
MW-3	13H0884-13	Ground Water		SW-846 8260C	
MW-101D	13H0884-14	Ground Water		SW-846 8260C	
MW-106S	13H0884-15	Ground Water		SW-846 8260C	
MW-106D	13H0884-16	Ground Water		SW-846 8260C	
MW-17	13H0884-17	Ground Water		SW-846 8260C	
MW-1	13H0884-18	Ground Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260C

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene, Naphthalene**

B079540-BS1, B079540-BSD1

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**2,2-Dichloropropane, Bromomethane, Chloromethane, Styrene, Trichlorofluoromethane (Freon 11), Vinyl Chloride**

13H0884-07[MW-103S], 13H0884-08[MW-103D], 13H0884-09[Dup-1], 13H0884-10[MW-14], 13H0884-11[MW-101S], 13H0884-12[MW-2], 13H0884-13[MW-3], 13H0884-14[MW-101D], 13H0884-17[MW-17], 13H0884-18[MW-1], B079447-BLK1, B079447-BS1, B079447-BSD1, B079447-MS1, B079447-MSD1, B079651-BLK1, B079651-BS1, B079651-BSD1, 13H0884-01[MW-102S], 13H0884-02[MW-102D], 13H0884-03[MW-104S], 13H0884-04[MW-104D], 13H0884-05[MW-105S], 13H0884-06[MW-105D], 13H0884-15[MW-106S], 13H0884-16[MW-106D], B079445-BLK1, B079445-BS1, B079445-BSD1, B079540-BLK1, B079540-BS1, B079540-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Bromomethane**

B079445-BS1, B079447-BS1

Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

Analyte & Samples(s) Qualified:**Bromomethane, Dichlorodifluoromethane (Freon 12)**

B079445-BSD1, B079447-BSD1, B079540-BS1, B079540-BSD1, B079445-BS1, B079447-BS1, B079651-BS1, B079651-BSD1

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**2,2-Dichloropropane, Bromomethane, Chloromethane, Dichlorodifluoromethane (Freon 12)**

13H0884-10[MW-14], B079447-MS1, B079447-MSD1

Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

13H0884-02[MW-102D], 13H0884-04[MW-104D], 13H0884-05[MW-105S], 13H0884-08[MW-103D], 13H0884-09[Dup-1]

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**Carbon Disulfide, Methylene Chloride**

13H0884-01[MW-102S], 13H0884-03[MW-104S], 13H0884-06[MW-105D], 13H0884-07[MW-103S], 13H0884-10[MW-14], 13H0884-11[MW-101S], 13H0884-12[MW-2], 13H0884-13[MW-3], 13H0884-14[MW-101D], 13H0884-15[MW-106S], 13H0884-16[MW-106D], 13H0884-17[MW-17], 13H0884-18[MW-1]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,4-Dioxane, 2,2-Dichloropropane, Acetone, Bromomethane, Chloromethane, Dichlorodifluoromethane (Freon 12), Trichlorofluoromethane (Freon 11)**

13H0884-08[MW-103D], 13H0884-09[Dup-1], 13H0884-10[MW-14], 13H0884-11[MW-101S], 13H0884-12[MW-2], 13H0884-13[MW-3], 13H0884-14[MW-101D], 13H0884-17[MW-17], 13H0884-18[MW-1], B079447-BLK1, B079447-BS1, B079447-BSD1, B079447-MS1, B079447-MSD1, 13H0884-01[MW-102S], 13H0884-02[MW-102D], 13H0884-03[MW-104S], 13H0884-04[MW-104D], 13H0884-05[MW-105S], 13H0884-06[MW-105D], 13H0884-07[MW-103S], B079445-BLK1, B079445-BS1, B079445-BSD1, B079651-BLK1, B079651-BS1, B079651-BSD1, 13H0884-15[MW-106S], 13H0884-16[MW-106D], B079540-BLK1, B079540-BS1, B079540-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

13H0884-01[MW-102S], 13H0884-02[MW-102D], 13H0884-03[MW-104S], 13H0884-04[MW-104D], 13H0884-05[MW-105S], 13H0884-06[MW-105D], 13H0884-07[MW-103S], 13H0884-08[MW-103D], 13H0884-09[Dup-1], 13H0884-10[MW-14], 13H0884-11[MW-101S], 13H0884-12[MW-2], 13H0884-13[MW-3], 13H0884-14[MW-101D], 13H0884-15[MW-106S], 13H0884-16[MW-106D], 13H0884-17[MW-17], 13H0884-18[MW-1], B079445-BLK1, B079445-BS1, B079445-BSD1, B079447-BLK1, B079447-BS1, B079447-BSD1, B079447-MS1, B079447-MSD1, B079540-BLK1, B079540-BS1, B079540-BSD1, B079651-BLK1, B079651-BS1, B079651-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene, Naphthalene**

B079540-BS1, B079540-BSD1, B079651-BS1, B079651-BSD1

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-102S

Sampled: 8/20/2013 10:45

Sample ID: 13H0884-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 10:17	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
sec-Butylbenzene	2.5	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Chloromethane	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 10:17	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-102S

Sampled: 8/20/2013 10:45

Sample ID: 13H0884-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 10:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	91.8	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	103	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-102D

Sampled: 8/20/2013 09:55

Sample ID: 13H0884-02

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	40	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Benzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Bromobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Bromochloromethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Bromodichloromethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Bromoform	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Bromomethane	ND	8.0	µg/L	4	V-05	SW-846 8260C	8/23/13	8/24/13 9:51	EEH
2-Butanone (MEK)	ND	40	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
n-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
sec-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
tert-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Carbon Disulfide	ND	20	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Carbon Tetrachloride	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Chlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Chlorodibromomethane	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Chloroethane	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Chloroform	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Chloromethane	ND	8.0	µg/L	4	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 9:51	EEH
2-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
4-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,2-Dibromoethane (EDB)	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Dibromomethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,2-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,3-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,4-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Dichlorodifluoromethane (Freon 12)	ND	8.0	µg/L	4	V-05	SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,1-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,2-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,1-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
cis-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
trans-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,3-Dichloropropane	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
2,2-Dichloropropane	ND	4.0	µg/L	4	V-05	SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,1-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
cis-1,3-Dichloropropene	ND	1.6	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
trans-1,3-Dichloropropene	ND	1.6	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Diethyl Ether	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Diisopropyl Ether (DIPE)	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,4-Dioxane	ND	200	µg/L	4	V-16	SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Ethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-102D

Sampled: 8/20/2013 09:55

Sample ID: 13H0884-02

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
2-Hexanone (MBK)	ND	40	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Isopropylbenzene (Cumene)	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
p-Isopropyltoluene (p-Cymene)	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Methyl tert-Butyl Ether (MTBE)	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Methylene Chloride	ND	20	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
4-Methyl-2-pentanone (MIBK)	ND	40	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Naphthalene	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
n-Propylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Styrene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,1,1,2-Tetrachloroethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Tetrachloroethylene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Tetrahydrofuran	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Toluene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,2,3-Trichlorobenzene	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,2,4-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,1,1-Trichloroethane	4.0	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,1,2-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Trichloroethylene	140	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Trichlorofluoromethane (Freon 11)	ND	8.0	µg/L	4	V-05	SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,2,3-Trichloropropane	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,2,4-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
1,3,5-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Vinyl Chloride	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
m+p Xylene	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
o-Xylene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 9:51	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	92.0	70-130							
Toluene-d8	99.4	70-130							
4-Bromofluorobenzene	101	70-130							

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-104S

Sampled: 8/20/2013 12:00

Sample ID: 13H0884-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 10:43	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Chloromethane	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 10:43	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
cis-1,2-Dichloroethylene	6.8	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-104S

Sampled: 8/20/2013 12:00

Sample ID: 13H0884-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 10:43	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Tetrachloroethylene	42	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Trichloroethylene	15	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 10:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	90.0	70-130	8/24/13 10:43
Toluene-d8	96.6	70-130	8/24/13 10:43
4-Bromofluorobenzene	97.8	70-130	8/24/13 10:43

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-104D

Sampled: 8/20/2013 11:45

Sample ID: 13H0884-04

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
tert-Amyl Methyl Ether (TAME)	ND	25	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Benzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Bromobenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Bromochloromethane	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Bromodichloromethane	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Bromoform	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Bromomethane	ND	100	µg/L	50	V-05	SW-846 8260C	8/23/13	8/24/13 11:10	EEH
2-Butanone (MEK)	ND	500	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
n-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
sec-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
tert-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	25	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Carbon Disulfide	ND	250	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Carbon Tetrachloride	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Chlorobenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Chlorodibromomethane	ND	25	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Chloroethane	ND	100	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Chloroform	ND	100	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Chloromethane	ND	100	µg/L	50	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 11:10	EEH
2-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
4-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,2-Dibromoethane (EDB)	ND	25	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Dibromomethane	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,2-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,3-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,4-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Dichlorodifluoromethane (Freon 12)	ND	100	µg/L	50	V-05	SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,1-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,2-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,1-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
cis-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
trans-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,3-Dichloropropane	ND	25	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
2,2-Dichloropropane	ND	50	µg/L	50	V-05	SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,1-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
cis-1,3-Dichloropropene	ND	20	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
trans-1,3-Dichloropropene	ND	20	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Diethyl Ether	ND	100	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Diisopropyl Ether (DIPE)	ND	25	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,4-Dioxane	ND	2500	µg/L	50	V-16	SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Ethylbenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-104D

Sampled: 8/20/2013 11:45

Sample ID: 13H0884-04

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	25	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
2-Hexanone (MBK)	ND	500	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Isopropylbenzene (Cumene)	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
p-Isopropyltoluene (p-Cymene)	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Methyl tert-Butyl Ether (MTBE)	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Methylene Chloride	ND	250	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
4-Methyl-2-pentanone (MIBK)	ND	500	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Naphthalene	ND	100	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
n-Propylbenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Styrene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,1,1,2-Tetrachloroethane	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,1,2,2-Tetrachloroethane	ND	25	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Tetrachloroethylene	1700	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Tetrahydrofuran	ND	100	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Toluene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,2,3-Trichlorobenzene	ND	100	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,2,4-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,1,1-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,1,2-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Trichloroethylene	850	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Trichlorofluoromethane (Freon 11)	ND	100	µg/L	50	V-05	SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,2,3-Trichloropropane	ND	100	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,2,4-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
1,3,5-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
Vinyl Chloride	ND	100	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
m+p Xylene	ND	100	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH
o-Xylene	ND	50	µg/L	50		SW-846 8260C	8/23/13	8/24/13 11:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	91.6	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	100	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-105S

Sampled: 8/20/2013 13:30

Sample ID: 13H0884-05

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	40	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Benzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Bromobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Bromochloromethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Bromodichloromethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Bromoform	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Bromomethane	ND	8.0	µg/L	4	V-05	SW-846 8260C	8/23/13	8/24/13 11:36	EEH
2-Butanone (MEK)	ND	40	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
n-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
sec-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
tert-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Carbon Disulfide	ND	20	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Carbon Tetrachloride	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Chlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Chlorodibromomethane	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Chloroethane	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Chloroform	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Chloromethane	ND	8.0	µg/L	4	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 11:36	EEH
2-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
4-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,2-Dibromoethane (EDB)	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Dibromomethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,2-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,3-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,4-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Dichlorodifluoromethane (Freon 12)	ND	8.0	µg/L	4	V-05	SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,1-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,2-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,1-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
cis-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
trans-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,3-Dichloropropane	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
2,2-Dichloropropane	ND	4.0	µg/L	4	V-05	SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,1-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
cis-1,3-Dichloropropene	ND	1.6	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
trans-1,3-Dichloropropene	ND	1.6	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Diethyl Ether	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Diisopropyl Ether (DIPE)	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,4-Dioxane	ND	200	µg/L	4	V-16	SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Ethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-105S

Sampled: 8/20/2013 13:30

Sample ID: 13H0884-05

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
2-Hexanone (MBK)	ND	40	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Isopropylbenzene (Cumene)	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
p-Isopropyltoluene (p-Cymene)	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Methyl tert-Butyl Ether (MTBE)	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Methylene Chloride	ND	20	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
4-Methyl-2-pentanone (MIBK)	ND	40	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Naphthalene	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
n-Propylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Styrene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,1,1,2-Tetrachloroethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Tetrachloroethylene	86	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Tetrahydrofuran	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Toluene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,2,3-Trichlorobenzene	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,2,4-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,1,1-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,1,2-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Trichloroethylene	16	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Trichlorofluoromethane (Freon 11)	ND	8.0	µg/L	4	V-05	SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,2,3-Trichloropropane	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,2,4-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
1,3,5-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
Vinyl Chloride	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
m+p Xylene	ND	8.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH
o-Xylene	ND	4.0	µg/L	4		SW-846 8260C	8/23/13	8/24/13 11:36	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	92.8	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	102	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-105D

Sampled: 8/20/2013 13:45

Sample ID: 13H0884-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 12:02	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Chloromethane	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 12:02	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-105D

Sampled: 8/20/2013 13:45

Sample ID: 13H0884-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 12:02	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Tetrachloroethylene	25	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Trichloroethylene	15	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 12:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	95.4	70-130	
Toluene-d8	98.5	70-130	
4-Bromofluorobenzene	101	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-103S

Sampled: 8/20/2013 15:20

Sample ID: 13H0884-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Bromomethane	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	8/27/13	8/27/13 15:45	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Chloromethane	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	8/27/13	8/27/13 15:45	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
cis-1,2-Dichloroethylene	7.8	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-103S

Sampled: 8/20/2013 15:20

Sample ID: 13H0884-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/27/13	8/27/13 15:45	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Tetrachloroethylene	1.5	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Trichloroethylene	3.4	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1	L-04	SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
Vinyl Chloride	3.8	2.0	µg/L	1	L-04	SW-846 8260C	8/27/13	8/27/13 15:45	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/27/13	8/27/13 15:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	95.7	70-130	8/27/13 15:45
Toluene-d8	99.2	70-130	8/27/13 15:45
4-Bromofluorobenzene	101	70-130	8/27/13 15:45

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-103D

Sampled: 8/20/2013 15:20

Sample ID: 13H0884-08

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	10	V-05	SW-846 8260C	8/23/13	8/24/13 20:50	EEH
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Benzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Bromobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Bromochloromethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Bromodichloromethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Bromoform	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Bromomethane	ND	20	µg/L	10	V-05	SW-846 8260C	8/23/13	8/24/13 20:50	EEH
2-Butanone (MEK)	ND	100	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Carbon Disulfide	ND	50	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Carbon Tetrachloride	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Chlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Chloroethane	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Chloroform	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Chloromethane	ND	20	µg/L	10	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 20:50	EEH
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Dibromomethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10	V-05	SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
cis-1,2-Dichloroethylene	46	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
2,2-Dichloropropane	ND	10	µg/L	10	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,1-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
cis-1,3-Dichloropropene	ND	4.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
trans-1,3-Dichloropropene	ND	4.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Diethyl Ether	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,4-Dioxane	ND	500	µg/L	10	V-05, V-16	SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Ethylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-103D

Sampled: 8/20/2013 15:20

Sample ID: 13H0884-08

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Methylene Chloride	ND	50	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Naphthalene	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Styrene	ND	10	µg/L	10	L-04	SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Tetrachloroethylene	1100	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Tetrahydrofuran	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Toluene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,2,3-Trichlorobenzene	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Trichloroethylene	1200	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10	V-05	SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
m+p Xylene	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH
o-Xylene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 20:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	91.2	70-130	
Toluene-d8	98.6	70-130	
4-Bromofluorobenzene	97.8	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: Dup-1

Sampled: 8/21/2013 00:00

Sample ID: 13H0884-09

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	10	V-05	SW-846 8260C	8/23/13	8/24/13 21:16	EEH
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Benzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Bromobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Bromochloromethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Bromodichloromethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Bromoform	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Bromomethane	ND	20	µg/L	10	V-05	SW-846 8260C	8/23/13	8/24/13 21:16	EEH
2-Butanone (MEK)	ND	100	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Carbon Disulfide	ND	50	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Carbon Tetrachloride	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Chlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Chloroethane	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Chloroform	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Chloromethane	ND	20	µg/L	10	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 21:16	EEH
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Dibromomethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10	V-05	SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,1-Dichloroethane	50	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,1-Dichloroethylene	19	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
cis-1,2-Dichloroethylene	16	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
2,2-Dichloropropane	ND	10	µg/L	10	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,1-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
cis-1,3-Dichloropropene	ND	4.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
trans-1,3-Dichloropropene	ND	4.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Diethyl Ether	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,4-Dioxane	ND	500	µg/L	10	V-05, V-16	SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Ethylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: Dup-1

Sampled: 8/21/2013 00:00

Sample ID: 13H0884-09

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Methylene Chloride	ND	50	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Naphthalene	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Styrene	ND	10	µg/L	10	L-04	SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Tetrachloroethylene	1100	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Tetrahydrofuran	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Toluene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,2,3-Trichlorobenzene	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,1,1-Trichloroethane	340	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Trichloroethylene	4600	200	µg/L	200		SW-846 8260C	8/23/13	8/26/13 21:27	EEH
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10	V-05	SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
m+p Xylene	ND	20	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH
o-Xylene	ND	10	µg/L	10		SW-846 8260C	8/23/13	8/24/13 21:16	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	93.4	70-130	8/26/13 21:27
1,2-Dichloroethane-d4	95.9	70-130	8/24/13 21:16
Toluene-d8	97.2	70-130	8/26/13 21:27
Toluene-d8	97.6	70-130	8/24/13 21:16
4-Bromofluorobenzene	103	70-130	8/26/13 21:27
4-Bromofluorobenzene	103	70-130	8/24/13 21:16

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-14

Sampled: 8/21/2013 00:00

Sample ID: 13H0884-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 16:26	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Bromomethane	ND	2.0	µg/L	1	V-05, MS-09	SW-846 8260C	8/23/13	8/24/13 16:26	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Chloromethane	ND	2.0	µg/L	1	L-04, MS-09, V-05	SW-846 8260C	8/23/13	8/24/13 16:26	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	MS-09, V-05	SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	L-04, MS-09, V-05	SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-14

Sampled: 8/21/2013 00:00

Sample ID: 13H0884-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 16:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Styrene	ND	1.0	µg/L	1	L-04	SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Tetrachloroethylene	1.8	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Trichloroethylene	3.7	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	93.8	70-130	
Toluene-d8	99.4	70-130	
4-Bromofluorobenzene	101	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-101S

Sampled: 8/21/2013 11:20

Sample ID: 13H0884-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 16:52	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 16:52	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Chloromethane	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 16:52	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,1-Dichloroethane	6.6	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,1-Dichloroethylene	3.8	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
cis-1,2-Dichloroethylene	4.1	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-101S

Sampled: 8/21/2013 11:20

Sample ID: 13H0884-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 16:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Styrene	ND	1.0	µg/L	1	L-04	SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Tetrachloroethylene	44	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,1,1-Trichloroethane	22	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Trichloroethylene	260	20	µg/L	20		SW-846 8260C	8/23/13	8/26/13 21:53	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 16:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	96.3	70-130	
1,2-Dichloroethane-d4	93.2	70-130	
Toluene-d8	100	70-130	
Toluene-d8	97.4	70-130	
4-Bromofluorobenzene	105	70-130	
4-Bromofluorobenzene	102	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-2

Sampled: 8/21/2013 10:40

Sample ID: 13H0884-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 17:19	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 17:19	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Chloromethane	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 17:19	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
cis-1,2-Dichloroethylene	7.2	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-2

Sampled: 8/21/2013 10:40

Sample ID: 13H0884-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 17:19	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Styrene	ND	1.0	µg/L	1	L-04	SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Tetrachloroethylene	18	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Trichloroethylene	17	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	95.2	70-130	
Toluene-d8	98.1	70-130	
4-Bromofluorobenzene	103	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-3

Sampled: 8/21/2013 15:15

Sample ID: 13H0884-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 17:45	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 17:45	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Chloromethane	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 17:45	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-3

Sampled: 8/21/2013 15:15

Sample ID: 13H0884-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 17:45	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Styrene	ND	1.0	µg/L	1	L-04	SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Tetrachloroethylene	24	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Trichloroethylene	16	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 17:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	94.3	70-130	
Toluene-d8	95.3	70-130	
4-Bromofluorobenzene	100	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-101D

Sampled: 8/21/2013 11:05

Sample ID: 13H0884-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 18:12	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 18:12	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, L-04	SW-846 8260C	8/23/13	8/24/13 18:12	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,1-Dichloroethane	64	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,1-Dichloroethylene	26	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
cis-1,2-Dichloroethylene	20	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-101D

Sampled: 8/21/2013 11:05

Sample ID: 13H0884-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 18:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Styrene	ND	1.0	µg/L	1	L-04	SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Tetrachloroethylene	1400	100	µg/L	100		SW-846 8260C	8/23/13	8/26/13 22:19	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,1,1-Trichloroethane	410	100	µg/L	100		SW-846 8260C	8/23/13	8/26/13 22:19	EEH
1,1,2-Trichloroethane	1.3	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Trichloroethylene	4600	100	µg/L	100		SW-846 8260C	8/23/13	8/26/13 22:19	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 18:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	94.0	70-130	8/24/13 18:12
1,2-Dichloroethane-d4	89.6	70-130	8/26/13 22:19
Toluene-d8	97.2	70-130	8/24/13 18:12
Toluene-d8	101	70-130	8/26/13 22:19
4-Bromofluorobenzene	100	70-130	8/24/13 18:12
4-Bromofluorobenzene	103	70-130	8/26/13 22:19

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-106S

Sampled: 8/21/2013 13:08

Sample ID: 13H0884-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Chloromethane	ND	2.0	µg/L	1	V-05, L-04	SW-846 8260C	8/26/13	8/26/13 18:49	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-106S

Sampled: 8/21/2013 13:08

Sample ID: 13H0884-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/26/13	8/26/13 18:49	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 18:49	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	94.7	70-130	
Toluene-d8	97.9	70-130	
4-Bromofluorobenzene	100	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-106D

Sampled: 8/21/2013 13:20

Sample ID: 13H0884-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Chloromethane	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	8/26/13	8/26/13 19:15	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-106D

Sampled: 8/21/2013 13:20

Sample ID: 13H0884-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/26/13	8/26/13 19:15	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/26/13	8/26/13 19:15	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	92.9	70-130	
Toluene-d8	97.0	70-130	
4-Bromofluorobenzene	98.4	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-17

Sampled: 8/21/2013 14:50

Sample ID: 13H0884-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 19:31	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 19:31	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Chloromethane	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 19:31	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-17

Sampled: 8/21/2013 14:50

Sample ID: 13H0884-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 19:31	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Styrene	ND	1.0	µg/L	1	L-04	SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:31	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	95.4	70-130	
Toluene-d8	97.6	70-130	
4-Bromofluorobenzene	99.0	70-130	

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-1

Sampled: 8/21/2013 14:55

Sample ID: 13H0884-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 19:57	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 19:57	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Chloromethane	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 19:57	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH

Project Location: Nu-Style Franklin MA

Sample Description:

Work Order: 13H0884

Date Received: 8/22/2013

Field Sample #: MW-1

Sampled: 8/21/2013 14:55

Sample ID: 13H0884-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	8/23/13	8/24/13 19:57	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Styrene	ND	1.0	µg/L	1	L-04	SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/23/13	8/24/13 19:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	92.7	70-130	8/24/13 19:57
Toluene-d8	98.0	70-130	8/24/13 19:57
4-Bromofluorobenzene	105	70-130	8/24/13 19:57

Sample Extraction Data**Prep Method: SW-846 5030B-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13H0884-01 [MW-102S]	B079445	5	5.00	08/23/13
13H0884-02 [MW-102D]	B079445	1.25	5.00	08/23/13
13H0884-03 [MW-104S]	B079445	5	5.00	08/23/13
13H0884-04 [MW-104D]	B079445	0.1	5.00	08/23/13
13H0884-05 [MW-105S]	B079445	1.25	5.00	08/23/13
13H0884-06 [MW-105D]	B079445	5	5.00	08/23/13

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13H0884-08 [MW-103D]	B079447	0.5	5.00	08/23/13
13H0884-09 [Dup-1]	B079447	0.5	5.00	08/23/13
13H0884-10 [MW-14]	B079447	5	5.00	08/23/13
13H0884-11 [MW-101S]	B079447	5	5.00	08/23/13
13H0884-12 [MW-2]	B079447	5	5.00	08/23/13
13H0884-13 [MW-3]	B079447	5	5.00	08/23/13
13H0884-14 [MW-101D]	B079447	5	5.00	08/23/13
13H0884-17 [MW-17]	B079447	5	5.00	08/23/13
13H0884-18 [MW-1]	B079447	5	5.00	08/23/13

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13H0884-09RE1 [Dup-1]	B079540	0.025	5.00	08/23/13
13H0884-11RE1 [MW-101S]	B079540	0.25	5.00	08/23/13
13H0884-14RE1 [MW-101D]	B079540	0.05	5.00	08/23/13
13H0884-15 [MW-106S]	B079540	5	5.00	08/26/13
13H0884-16 [MW-106D]	B079540	5	5.00	08/26/13

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13H0884-07 [MW-103S]	B079651	5	5.00	08/27/13

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079445 - SW-846 5030B										
Blank (B079445-BLK1)				Prepared: 08/23/13 Analyzed: 08/24/13						
Acetone	ND	10	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-05
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							L-04, V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							V-05
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							V-05
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079445 - SW-846 5030B										
Blank (B079445-BLK1)										
Prepared: 08/23/13 Analyzed: 08/24/13										
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							V-05
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.0		µg/L	25.0		92.0	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			
LCS (B079445-BS1)										
Prepared: 08/23/13 Analyzed: 08/24/13										
Acetone	75.7	10	µg/L	100		75.7	40-160			†
tert-Amyl Methyl Ether (TAME)	10.4	0.50	µg/L	10.0		104	70-130			
Benzene	8.93	1.0	µg/L	10.0		89.3	70-130			
Bromobenzene	9.75	1.0	µg/L	10.0		97.5	70-130			
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130			
Bromodichloromethane	8.90	1.0	µg/L	10.0		89.0	70-130			
Bromoform	8.83	1.0	µg/L	10.0		88.3	70-130			
Bromomethane	3.63	2.0	µg/L	10.0		36.3	* 40-160			L-07, V-05 †
2-Butanone (MEK)	84.6	10	µg/L	100		84.6	40-160			†
n-Butylbenzene	8.96	1.0	µg/L	10.0		89.6	70-130			
sec-Butylbenzene	9.50	1.0	µg/L	10.0		95.0	70-130			
tert-Butylbenzene	9.34	1.0	µg/L	10.0		93.4	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.6	0.50	µg/L	10.0		106	70-130			
Carbon Disulfide	9.31	5.0	µg/L	10.0		93.1	70-130			
Carbon Tetrachloride	8.13	1.0	µg/L	10.0		81.3	70-130			
Chlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130			
Chlorodibromomethane	9.08	0.50	µg/L	10.0		90.8	70-130			
Chloroethane	8.60	2.0	µg/L	10.0		86.0	70-130			
Chloroform	9.01	2.0	µg/L	10.0		90.1	70-130			
Chloromethane	3.54	2.0	µg/L	10.0		35.4	* 40-160			L-04, V-05 †
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130			
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.0	2.0	µg/L	10.0		110	70-130			
1,2-Dibromoethane (EDB)	9.97	0.50	µg/L	10.0		99.7	70-130			
Dibromomethane	9.71	1.0	µg/L	10.0		97.1	70-130			
1,2-Dichlorobenzene	9.91	1.0	µg/L	10.0		99.1	70-130			
1,3-Dichlorobenzene	9.84	1.0	µg/L	10.0		98.4	70-130			
1,4-Dichlorobenzene	9.11	1.0	µg/L	10.0		91.1	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079445 - SW-846 5030B										
LCS (B079445-BS1)					Prepared: 08/23/13 Analyzed: 08/24/13					
Dichlorodifluoromethane (Freon 12)	5.98	2.0	µg/L	10.0		59.8	40-160			L-14, V-05 †
1,1-Dichloroethane	9.50	1.0	µg/L	10.0		95.0	70-130			
1,2-Dichloroethane	7.77	1.0	µg/L	10.0		77.7	70-130			
1,1-Dichloroethylene	8.74	1.0	µg/L	10.0		87.4	70-130			
cis-1,2-Dichloroethylene	8.59	1.0	µg/L	10.0		85.9	70-130			
trans-1,2-Dichloroethylene	9.53	1.0	µg/L	10.0		95.3	70-130			
1,2-Dichloropropane	9.48	1.0	µg/L	10.0		94.8	70-130			
1,3-Dichloropropane	10.0	0.50	µg/L	10.0		100	70-130			
2,2-Dichloropropane	7.08	1.0	µg/L	10.0		70.8	70-130			V-05
1,1-Dichloropropene	8.82	0.50	µg/L	10.0		88.2	70-130			
cis-1,3-Dichloropropene	9.10	0.40	µg/L	10.0		91.0	70-130			
trans-1,3-Dichloropropene	9.71	0.40	µg/L	10.0		97.1	70-130			
Diethyl Ether	9.73	2.0	µg/L	10.0		97.3	70-130			
Diisopropyl Ether (DIPE)	10.3	0.50	µg/L	10.0		103	70-130			
1,4-Dioxane	86.0	50	µg/L	100		86.0	40-160			V-16 †
Ethylbenzene	9.25	1.0	µg/L	10.0		92.5	70-130			
Hexachlorobutadiene	8.77	0.50	µg/L	10.0		87.7	70-130			
2-Hexanone (MBK)	88.2	10	µg/L	100		88.2	40-160			†
Isopropylbenzene (Cumene)	9.74	1.0	µg/L	10.0		97.4	70-130			
p-Isopropyltoluene (p-Cymene)	9.53	1.0	µg/L	10.0		95.3	70-130			
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108	70-130			
Methylene Chloride	10.6	5.0	µg/L	10.0		106	70-130			
4-Methyl-2-pentanone (MIBK)	89.9	10	µg/L	100		89.9	40-160			†
Naphthalene	12.0	2.0	µg/L	10.0		120	70-130			
n-Propylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Styrene	9.08	1.0	µg/L	10.0		90.8	70-130			
1,1,1,2-Tetrachloroethane	9.28	1.0	µg/L	10.0		92.8	70-130			
1,1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130			
Tetrachloroethylene	8.65	1.0	µg/L	10.0		86.5	70-130			
Tetrahydrofuran	9.45	2.0	µg/L	10.0		94.5	70-130			
Toluene	9.23	1.0	µg/L	10.0		92.3	70-130			
1,2,3-Trichlorobenzene	12.3	2.0	µg/L	10.0		123	70-130			
1,2,4-Trichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1-Trichloroethane	8.11	1.0	µg/L	10.0		81.1	70-130			
1,1,2-Trichloroethane	9.41	1.0	µg/L	10.0		94.1	70-130			
Trichloroethylene	8.48	1.0	µg/L	10.0		84.8	70-130			
Trichlorofluoromethane (Freon 11)	8.06	2.0	µg/L	10.0		80.6	70-130			V-05
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.0		102	70-130			
1,2,4-Trimethylbenzene	8.92	1.0	µg/L	10.0		89.2	70-130			
1,3,5-Trimethylbenzene	8.95	1.0	µg/L	10.0		89.5	70-130			
Vinyl Chloride	7.53	2.0	µg/L	10.0		75.3	70-130			
m+p Xylene	18.8	2.0	µg/L	20.0		94.0	70-130			
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.8		µg/L	25.0		95.2	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.8		µg/L	25.0		103	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079445 - SW-846 5030B										
LCS Dup (B079445-BSD1)					Prepared: 08/23/13 Analyzed: 08/24/13					
Acetone	73.6	10	µg/L	100		73.6	40-160	2.83	20	†
tert-Amyl Methyl Ether (TAME)	9.49	0.50	µg/L	10.0		94.9	70-130	9.15	20	
Benzene	9.05	1.0	µg/L	10.0		90.5	70-130	1.33	20	
Bromobenzene	9.49	1.0	µg/L	10.0		94.9	70-130	2.70	20	
Bromochloromethane	9.99	1.0	µg/L	10.0		99.9	70-130	4.12	20	
Bromodichloromethane	8.52	1.0	µg/L	10.0		85.2	70-130	4.36	20	
Bromoform	7.79	1.0	µg/L	10.0		77.9	70-130	12.5	20	
Bromomethane	4.08	2.0	µg/L	10.0		40.8	40-160	11.7	20	L-14, V-05 †
2-Butanone (MEK)	76.6	10	µg/L	100		76.6	40-160	9.88	20	†
n-Butylbenzene	8.79	1.0	µg/L	10.0		87.9	70-130	1.92	20	
sec-Butylbenzene	9.49	1.0	µg/L	10.0		94.9	70-130	0.105	20	
tert-Butylbenzene	9.25	1.0	µg/L	10.0		92.5	70-130	0.968	20	
tert-Butyl Ethyl Ether (TBEE)	10.0	0.50	µg/L	10.0		100	70-130	5.53	20	
Carbon Disulfide	8.43	5.0	µg/L	10.0		84.3	70-130	9.92	20	
Carbon Tetrachloride	8.01	1.0	µg/L	10.0		80.1	70-130	1.49	20	
Chlorobenzene	9.81	1.0	µg/L	10.0		98.1	70-130	0.610	20	
Chlorodibromomethane	8.66	0.50	µg/L	10.0		86.6	70-130	4.74	20	
Chloroethane	8.21	2.0	µg/L	10.0		82.1	70-130	4.64	20	
Chloroform	8.75	2.0	µg/L	10.0		87.5	70-130	2.93	20	
Chloromethane	3.74	2.0	µg/L	10.0		37.4	* 40-160	5.49	20	L-04, V-05 †
2-Chlorotoluene	9.70	1.0	µg/L	10.0		97.0	70-130	4.83	20	
4-Chlorotoluene	9.60	1.0	µg/L	10.0		96.0	70-130	6.45	20	
1,2-Dibromo-3-chloropropane (DBCP)	9.95	2.0	µg/L	10.0		99.5	70-130	9.57	20	
1,2-Dibromoethane (EDB)	9.38	0.50	µg/L	10.0		93.8	70-130	6.10	20	
Dibromomethane	9.31	1.0	µg/L	10.0		93.1	70-130	4.21	20	
1,2-Dichlorobenzene	9.81	1.0	µg/L	10.0		98.1	70-130	1.01	20	
1,3-Dichlorobenzene	9.94	1.0	µg/L	10.0		99.4	70-130	1.01	20	
1,4-Dichlorobenzene	8.97	1.0	µg/L	10.0		89.7	70-130	1.55	20	
Dichlorodifluoromethane (Freon 12)	5.55	2.0	µg/L	10.0		55.5	40-160	7.46	20	L-14, V-05 †
1,1-Dichloroethane	9.13	1.0	µg/L	10.0		91.3	70-130	3.97	20	
1,2-Dichloroethane	7.23	1.0	µg/L	10.0		72.3	70-130	7.20	20	
1,1-Dichloroethylene	8.26	1.0	µg/L	10.0		82.6	70-130	5.65	20	
cis-1,2-Dichloroethylene	8.16	1.0	µg/L	10.0		81.6	70-130	5.13	20	
trans-1,2-Dichloroethylene	8.96	1.0	µg/L	10.0		89.6	70-130	6.17	20	
1,2-Dichloropropane	9.09	1.0	µg/L	10.0		90.9	70-130	4.20	20	
1,3-Dichloropropane	9.42	0.50	µg/L	10.0		94.2	70-130	5.97	20	
2,2-Dichloropropane	7.06	1.0	µg/L	10.0		70.6	70-130	0.283	20	V-05
1,1-Dichloropropene	8.21	0.50	µg/L	10.0		82.1	70-130	7.16	20	
cis-1,3-Dichloropropene	8.58	0.40	µg/L	10.0		85.8	70-130	5.88	20	
trans-1,3-Dichloropropene	9.46	0.40	µg/L	10.0		94.6	70-130	2.61	20	
Diethyl Ether	8.81	2.0	µg/L	10.0		88.1	70-130	9.92	20	
Diisopropyl Ether (DIPE)	9.88	0.50	µg/L	10.0		98.8	70-130	4.45	20	
1,4-Dioxane	85.6	50	µg/L	100		85.6	40-160	0.501	20	V-16 †
Ethylbenzene	8.78	1.0	µg/L	10.0		87.8	70-130	5.21	20	
Hexachlorobutadiene	8.67	0.50	µg/L	10.0		86.7	70-130	1.15	20	
2-Hexanone (MBK)	81.7	10	µg/L	100		81.7	40-160	7.71	20	†
Isopropylbenzene (Cumene)	9.27	1.0	µg/L	10.0		92.7	70-130	4.94	20	
p-Isopropyltoluene (p-Cymene)	9.66	1.0	µg/L	10.0		96.6	70-130	1.35	20	
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102	70-130	5.64	20	
Methylene Chloride	10.1	5.0	µg/L	10.0		101	70-130	4.73	20	
4-Methyl-2-pentanone (MIBK)	81.6	10	µg/L	100		81.6	40-160	9.66	20	†
Naphthalene	11.2	2.0	µg/L	10.0		112	70-130	6.21	20	

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B079445 - SW-846 5030B
LCS Dup (B079445-BSD1)

Prepared: 08/23/13 Analyzed: 08/24/13

n-Propylbenzene	9.66	1.0	µg/L	10.0		96.6	70-130	6.70	20	
Styrene	8.98	1.0	µg/L	10.0		89.8	70-130	1.11	20	
1,1,1,2-Tetrachloroethane	8.82	1.0	µg/L	10.0		88.2	70-130	5.08	20	
1,1,2,2-Tetrachloroethane	9.77	0.50	µg/L	10.0		97.7	70-130	6.15	20	
Tetrachloroethylene	8.51	1.0	µg/L	10.0		85.1	70-130	1.63	20	
Tetrahydrofuran	8.43	2.0	µg/L	10.0		84.3	70-130	11.4	20	
Toluene	8.75	1.0	µg/L	10.0		87.5	70-130	5.34	20	
1,2,3-Trichlorobenzene	11.4	2.0	µg/L	10.0		114	70-130	7.33	20	
1,2,4-Trichlorobenzene	9.88	1.0	µg/L	10.0		98.8	70-130	3.68	20	
1,1,1-Trichloroethane	8.10	1.0	µg/L	10.0		81.0	70-130	0.123	20	
1,1,2-Trichloroethane	8.94	1.0	µg/L	10.0		89.4	70-130	5.12	20	
Trichloroethylene	8.11	1.0	µg/L	10.0		81.1	70-130	4.46	20	
Trichlorofluoromethane (Freon 11)	7.63	2.0	µg/L	10.0		76.3	70-130	5.48	20	V-05
1,2,3-Trichloropropane	9.27	2.0	µg/L	10.0		92.7	70-130	10.0	20	
1,2,4-Trimethylbenzene	9.01	1.0	µg/L	10.0		90.1	70-130	1.00	20	
1,3,5-Trimethylbenzene	8.63	1.0	µg/L	10.0		86.3	70-130	3.64	20	
Vinyl Chloride	7.32	2.0	µg/L	10.0		73.2	70-130	2.83	20	
m+p Xylene	18.2	2.0	µg/L	20.0		91.2	70-130	2.92	20	
o-Xylene	9.89	1.0	µg/L	10.0		98.9	70-130	1.90	20	
Surrogate: 1,2-Dichloroethane-d4	23.8		µg/L	25.0		95.4	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			

Batch B079447 - SW-846 5030B
Blank (B079447-BLK1)

Prepared: 08/23/13 Analyzed: 08/24/13

Acetone	ND	10	µg/L							V-05
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-05
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							L-04, V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079447 - SW-846 5030B										
Blank (B079447-BLK1)				Prepared: 08/23/13 Analyzed: 08/24/13						
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							V-05
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							L-04, V-05
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-05, V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							L-04
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							V-05
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.1		µg/L	25.0		96.5	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.0		102	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079447 - SW-846 5030B										
LCS (B079447-BS1)				Prepared: 08/23/13 Analyzed: 08/24/13						
Acetone	73.3	10	µg/L	100		73.3	40-160			V-05 †
tert-Amyl Methyl Ether (TAME)	10.2	0.50	µg/L	10.0		102	70-130			
Benzene	8.99	1.0	µg/L	10.0		89.9	70-130			
Bromobenzene	9.72	1.0	µg/L	10.0		97.2	70-130			
Bromochloromethane	10.5	1.0	µg/L	10.0		105	70-130			
Bromodichloromethane	8.70	1.0	µg/L	10.0		87.0	70-130			
Bromoform	8.80	1.0	µg/L	10.0		88.0	70-130			
Bromomethane	3.71	2.0	µg/L	10.0		37.1	* 40-160			L-07, V-05 †
2-Butanone (MEK)	85.2	10	µg/L	100		85.2	40-160			†
n-Butylbenzene	8.45	1.0	µg/L	10.0		84.5	70-130			
sec-Butylbenzene	9.38	1.0	µg/L	10.0		93.8	70-130			
tert-Butylbenzene	9.02	1.0	µg/L	10.0		90.2	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.4	0.50	µg/L	10.0		104	70-130			
Carbon Disulfide	9.03	5.0	µg/L	10.0		90.3	70-130			
Carbon Tetrachloride	8.03	1.0	µg/L	10.0		80.3	70-130			
Chlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130			
Chlorodibromomethane	8.77	0.50	µg/L	10.0		87.7	70-130			
Chloroethane	8.57	2.0	µg/L	10.0		85.7	70-130			
Chloroform	9.01	2.0	µg/L	10.0		90.1	70-130			
Chloromethane	3.21	2.0	µg/L	10.0		32.1	* 40-160			V-05, L-04 †
2-Chlorotoluene	9.93	1.0	µg/L	10.0		99.3	70-130			
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.4	2.0	µg/L	10.0		104	70-130			
1,2-Dibromoethane (EDB)	9.60	0.50	µg/L	10.0		96.0	70-130			
Dibromomethane	9.48	1.0	µg/L	10.0		94.8	70-130			
1,2-Dichlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130			
1,3-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,4-Dichlorobenzene	8.89	1.0	µg/L	10.0		88.9	70-130			
Dichlorodifluoromethane (Freon 12)	5.82	2.0	µg/L	10.0		58.2	40-160			L-14, V-05 †
1,1-Dichloroethane	9.33	1.0	µg/L	10.0		93.3	70-130			
1,2-Dichloroethane	7.58	1.0	µg/L	10.0		75.8	70-130			
1,1-Dichloroethylene	8.24	1.0	µg/L	10.0		82.4	70-130			
cis-1,2-Dichloroethylene	8.81	1.0	µg/L	10.0		88.1	70-130			
trans-1,2-Dichloroethylene	9.40	1.0	µg/L	10.0		94.0	70-130			
1,2-Dichloropropane	9.29	1.0	µg/L	10.0		92.9	70-130			
1,3-Dichloropropane	9.53	0.50	µg/L	10.0		95.3	70-130			
2,2-Dichloropropane	6.15	1.0	µg/L	10.0		61.5	* 70-130			L-04, V-05
1,1-Dichloropropene	8.84	0.50	µg/L	10.0		88.4	70-130			
cis-1,3-Dichloropropene	8.66	0.40	µg/L	10.0		86.6	70-130			
trans-1,3-Dichloropropene	9.18	0.40	µg/L	10.0		91.8	70-130			
Diethyl Ether	9.10	2.0	µg/L	10.0		91.0	70-130			
Diisopropyl Ether (DIPE)	10.4	0.50	µg/L	10.0		104	70-130			
1,4-Dioxane	75.6	50	µg/L	100		75.6	40-160			V-05, V-16 †
Ethylbenzene	9.34	1.0	µg/L	10.0		93.4	70-130			
Hexachlorobutadiene	8.46	0.50	µg/L	10.0		84.6	70-130			
2-Hexanone (MBK)	85.3	10	µg/L	100		85.3	40-160			†
Isopropylbenzene (Cumene)	9.74	1.0	µg/L	10.0		97.4	70-130			
p-Isopropyltoluene (p-Cymene)	9.13	1.0	µg/L	10.0		91.3	70-130			
Methyl tert-Butyl Ether (MTBE)	10.9	1.0	µg/L	10.0		109	70-130			
Methylene Chloride	10.1	5.0	µg/L	10.0		101	70-130			
4-Methyl-2-pentanone (MIBK)	86.4	10	µg/L	100		86.4	40-160			†
Naphthalene	12.1	2.0	µg/L	10.0		121	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079447 - SW-846 5030B										
LCS (B079447-BS1)										
Prepared: 08/23/13 Analyzed: 08/24/13										
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
Styrene	6.38	1.0	µg/L	10.0		63.8 *	70-130			L-04
1,1,1,2-Tetrachloroethane	9.30	1.0	µg/L	10.0		93.0	70-130			
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105	70-130			
Tetrachloroethylene	8.20	1.0	µg/L	10.0		82.0	70-130			
Tetrahydrofuran	9.42	2.0	µg/L	10.0		94.2	70-130			
Toluene	8.88	1.0	µg/L	10.0		88.8	70-130			
1,2,3-Trichlorobenzene	12.6	2.0	µg/L	10.0		126	70-130			
1,2,4-Trichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1-Trichloroethane	8.22	1.0	µg/L	10.0		82.2	70-130			
1,1,2-Trichloroethane	9.17	1.0	µg/L	10.0		91.7	70-130			
Trichloroethylene	8.18	1.0	µg/L	10.0		81.8	70-130			
Trichlorofluoromethane (Freon 11)	7.90	2.0	µg/L	10.0		79.0	70-130			V-05
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.0		101	70-130			
1,2,4-Trimethylbenzene	8.86	1.0	µg/L	10.0		88.6	70-130			
1,3,5-Trimethylbenzene	8.96	1.0	µg/L	10.0		89.6	70-130			
Vinyl Chloride	7.45	2.0	µg/L	10.0		74.5	70-130			
m+p Xylene	18.9	2.0	µg/L	20.0		94.4	70-130			
o-Xylene	9.91	1.0	µg/L	10.0		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.1		µg/L	25.0		96.4	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	25.6		µg/L	25.0		103	70-130			
LCS Dup (B079447-BSD1)										
Prepared: 08/23/13 Analyzed: 08/24/13										
Acetone	74.0	10	µg/L	100		74.0	40-160	0.991	20	V-05 †
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.0		100	70-130	1.78	20	
Benzene	8.68	1.0	µg/L	10.0		86.8	70-130	3.51	20	
Bromobenzene	9.86	1.0	µg/L	10.0		98.6	70-130	1.43	20	
Bromochloromethane	10.2	1.0	µg/L	10.0		102	70-130	3.19	20	
Bromodichloromethane	8.77	1.0	µg/L	10.0		87.7	70-130	0.801	20	
Bromoform	8.98	1.0	µg/L	10.0		89.8	70-130	2.02	20	
Bromomethane	4.24	2.0	µg/L	10.0		42.4	40-160	13.3	20	L-14, V-05 †
2-Butanone (MEK)	86.4	10	µg/L	100		86.4	40-160	1.36	20	†
n-Butylbenzene	8.74	1.0	µg/L	10.0		87.4	70-130	3.37	20	
sec-Butylbenzene	9.54	1.0	µg/L	10.0		95.4	70-130	1.69	20	
tert-Butylbenzene	9.18	1.0	µg/L	10.0		91.8	70-130	1.76	20	
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103	70-130	1.64	20	
Carbon Disulfide	8.54	5.0	µg/L	10.0		85.4	70-130	5.58	20	
Carbon Tetrachloride	7.93	1.0	µg/L	10.0		79.3	70-130	1.25	20	
Chlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	5.61	20	
Chlorodibromomethane	8.99	0.50	µg/L	10.0		89.9	70-130	2.48	20	
Chloroethane	8.34	2.0	µg/L	10.0		83.4	70-130	2.72	20	
Chloroform	8.94	2.0	µg/L	10.0		89.4	70-130	0.780	20	
Chloromethane	3.37	2.0	µg/L	10.0		33.7 *	40-160	4.86	20	L-04, V-05 †
2-Chlorotoluene	9.98	1.0	µg/L	10.0		99.8	70-130	0.502	20	
4-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130	2.50	20	
1,2-Dibromo-3-chloropropane (DBCP)	10.2	2.0	µg/L	10.0		102	70-130	2.33	20	
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130	4.78	20	
Dibromomethane	9.64	1.0	µg/L	10.0		96.4	70-130	1.67	20	
1,2-Dichlorobenzene	9.99	1.0	µg/L	10.0		99.9	70-130	1.21	20	
1,3-Dichlorobenzene	9.93	1.0	µg/L	10.0		99.3	70-130	1.20	20	
1,4-Dichlorobenzene	9.03	1.0	µg/L	10.0		90.3	70-130	1.56	20	

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079447 - SW-846 5030B										
LCS Dup (B079447-BSD1)					Prepared: 08/23/13 Analyzed: 08/24/13					
Dichlorodifluoromethane (Freon 12)	5.92	2.0	µg/L	10.0		59.2	40-160	1.70	20	L-14, V-05 †
1,1-Dichloroethane	9.28	1.0	µg/L	10.0		92.8	70-130	0.537	20	
1,2-Dichloroethane	7.70	1.0	µg/L	10.0		77.0	70-130	1.57	20	
1,1-Dichloroethylene	8.42	1.0	µg/L	10.0		84.2	70-130	2.16	20	
cis-1,2-Dichloroethylene	8.34	1.0	µg/L	10.0		83.4	70-130	5.48	20	
trans-1,2-Dichloroethylene	9.18	1.0	µg/L	10.0		91.8	70-130	2.37	20	
1,2-Dichloropropane	9.06	1.0	µg/L	10.0		90.6	70-130	2.51	20	
1,3-Dichloropropane	9.83	0.50	µg/L	10.0		98.3	70-130	3.10	20	
2,2-Dichloropropane	6.05	1.0	µg/L	10.0		60.5 *	70-130	1.64	20	L-04, V-05
1,1-Dichloropropene	8.45	0.50	µg/L	10.0		84.5	70-130	4.51	20	
cis-1,3-Dichloropropene	8.68	0.40	µg/L	10.0		86.8	70-130	0.231	20	
trans-1,3-Dichloropropene	9.60	0.40	µg/L	10.0		96.0	70-130	4.47	20	
Diethyl Ether	8.61	2.0	µg/L	10.0		86.1	70-130	5.53	20	
Diisopropyl Ether (DIPE)	10.1	0.50	µg/L	10.0		101	70-130	3.02	20	
1,4-Dioxane	82.2	50	µg/L	100		82.2	40-160	8.44	20	V-05, V-16 †
Ethylbenzene	9.42	1.0	µg/L	10.0		94.2	70-130	0.853	20	
Hexachlorobutadiene	8.64	0.50	µg/L	10.0		86.4	70-130	2.11	20	
2-Hexanone (MBK)	89.3	10	µg/L	100		89.3	40-160	4.56	20	†
Isopropylbenzene (Cumene)	9.67	1.0	µg/L	10.0		96.7	70-130	0.721	20	
p-Isopropyltoluene (p-Cymene)	9.43	1.0	µg/L	10.0		94.3	70-130	3.23	20	
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0		107	70-130	1.95	20	
Methylene Chloride	9.77	5.0	µg/L	10.0		97.7	70-130	3.22	20	
4-Methyl-2-pentanone (MIBK)	89.4	10	µg/L	100		89.4	40-160	3.40	20	†
Naphthalene	12.4	2.0	µg/L	10.0		124	70-130	2.77	20	
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130	2.04	20	
Styrene	6.88	1.0	µg/L	10.0		68.8 *	70-130	7.54	20	L-04
1,1,1,2-Tetrachloroethane	9.17	1.0	µg/L	10.0		91.7	70-130	1.41	20	
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107	70-130	2.07	20	
Tetrachloroethylene	8.63	1.0	µg/L	10.0		86.3	70-130	5.11	20	
Tetrahydrofuran	9.57	2.0	µg/L	10.0		95.7	70-130	1.58	20	
Toluene	8.97	1.0	µg/L	10.0		89.7	70-130	1.01	20	
1,2,3-Trichlorobenzene	12.5	2.0	µg/L	10.0		125	70-130	0.399	20	
1,2,4-Trichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	2.80	20	
1,1,1-Trichloroethane	8.08	1.0	µg/L	10.0		80.8	70-130	1.72	20	
1,1,2-Trichloroethane	9.51	1.0	µg/L	10.0		95.1	70-130	3.64	20	
Trichloroethylene	8.16	1.0	µg/L	10.0		81.6	70-130	0.245	20	
Trichlorofluoromethane (Freon 11)	7.75	2.0	µg/L	10.0		77.5	70-130	1.92	20	V-05
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106	70-130	4.63	20	
1,2,4-Trimethylbenzene	8.83	1.0	µg/L	10.0		88.3	70-130	0.339	20	
1,3,5-Trimethylbenzene	9.22	1.0	µg/L	10.0		92.2	70-130	2.86	20	
Vinyl Chloride	7.48	2.0	µg/L	10.0		74.8	70-130	0.402	20	
m+p Xylene	18.9	2.0	µg/L	20.0		94.4	70-130	0.00	20	
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130	1.80	20	
Surrogate: 1,2-Dichloroethane-d4	23.4		µg/L	25.0		93.8	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	25.8		µg/L	25.0		103	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079447 - SW-846 5030B										
Matrix Spike (B079447-MS1)	Source: 13H0884-10			Prepared: 08/23/13 Analyzed: 08/24/13						
Acetone	70.0	10	µg/L	100	ND	70.0	70-130			V-05
tert-Amyl Methyl Ether (TAME)	9.66	0.50	µg/L	10.0	ND	96.6	70-130			
Benzene	9.47	1.0	µg/L	10.0	ND	94.7	70-130			
Bromobenzene	9.85	1.0	µg/L	10.0	ND	98.5	70-130			
Bromochloromethane	10.5	1.0	µg/L	10.0	ND	105	70-130			
Bromodichloromethane	9.10	1.0	µg/L	10.0	ND	91.0	70-130			
Bromoform	8.56	1.0	µg/L	10.0	ND	85.6	70-130			
Bromomethane	4.51	2.0	µg/L	10.0	ND	45.1	* 70-130			MS-09, V-05
2-Butanone (MEK)	73.2	10	µg/L	100	ND	73.2	70-130			
n-Butylbenzene	9.66	1.0	µg/L	10.0	ND	96.6	70-130			
sec-Butylbenzene	10.5	1.0	µg/L	10.0	ND	105	70-130			
tert-Butylbenzene	10.2	1.0	µg/L	10.0	ND	102	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.2	0.50	µg/L	10.0	ND	102	70-130			
Carbon Disulfide	8.65	5.0	µg/L	10.0	ND	86.5	70-130			
Carbon Tetrachloride	8.87	1.0	µg/L	10.0	ND	88.7	70-130			
Chlorobenzene	10.7	1.0	µg/L	10.0	ND	107	70-130			
Chlorodibromomethane	9.09	0.50	µg/L	10.0	ND	90.9	70-130			
Chloroethane	8.87	2.0	µg/L	10.0	ND	88.7	70-130			
Chloroform	9.19	2.0	µg/L	10.0	ND	91.9	70-130			
Chloromethane	4.10	2.0	µg/L	10.0	ND	41.0	* 70-130			L-04, MS-09, V-05
2-Chlorotoluene	10.4	1.0	µg/L	10.0	ND	104	70-130			
4-Chlorotoluene	10.4	1.0	µg/L	10.0	ND	104	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.53	2.0	µg/L	10.0	ND	95.3	70-130			
1,2-Dibromoethane (EDB)	9.59	0.50	µg/L	10.0	ND	95.9	70-130			
Dibromomethane	9.82	1.0	µg/L	10.0	ND	98.2	70-130			
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0	ND	103	70-130			
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0	ND	105	70-130			
1,4-Dichlorobenzene	9.49	1.0	µg/L	10.0	ND	94.9	70-130			
Dichlorodifluoromethane (Freon 12)	6.71	2.0	µg/L	10.0	ND	67.1	* 70-130			MS-09, V-05
1,1-Dichloroethane	9.93	1.0	µg/L	10.0	ND	99.3	70-130			
1,2-Dichloroethane	7.70	1.0	µg/L	10.0	ND	77.0	70-130			
1,1-Dichloroethylene	9.43	1.0	µg/L	10.0	ND	94.3	70-130			
cis-1,2-Dichloroethylene	8.84	1.0	µg/L	10.0	ND	88.4	70-130			
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0	ND	102	70-130			
1,2-Dichloropropane	9.78	1.0	µg/L	10.0	ND	97.8	70-130			
1,3-Dichloropropane	9.86	0.50	µg/L	10.0	ND	98.6	70-130			
2,2-Dichloropropane	5.66	1.0	µg/L	10.0	ND	56.6	* 70-130			L-04, MS-09, V-05
1,1-Dichloropropene	9.50	0.50	µg/L	10.0	ND	95.0	70-130			
cis-1,3-Dichloropropene	9.09	0.40	µg/L	10.0	ND	90.9	70-130			
trans-1,3-Dichloropropene	9.29	0.40	µg/L	10.0	ND	92.9	70-130			
Diethyl Ether	8.99	2.0	µg/L	10.0	ND	89.9	70-130			
Diisopropyl Ether (DIPE)	10.3	0.50	µg/L	10.0	ND	103	70-130			
1,4-Dioxane	73.0	50	µg/L	100	ND	73.0	70-130			V-05, V-16
Ethylbenzene	9.88	1.0	µg/L	10.0	ND	98.8	70-130			
Hexachlorobutadiene	8.46	0.50	µg/L	10.0	ND	84.6	70-130			
2-Hexanone (MBK)	81.1	10	µg/L	100	ND	81.1	70-130			
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0	ND	104	70-130			
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0	ND	102	70-130			
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.0	ND	105	70-130			
Methylene Chloride	9.40	5.0	µg/L	10.0	ND	94.0	70-130			
4-Methyl-2-pentanone (MIBK)	85.2	10	µg/L	100	ND	85.2	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079447 - SW-846 5030B										
Matrix Spike (B079447-MS1)	Source: 13H0884-10			Prepared: 08/23/13 Analyzed: 08/24/13						
Naphthalene	10.3	2.0	µg/L	10.0	ND	103	70-130			L-04
n-Propylbenzene	10.8	1.0	µg/L	10.0	ND	108	70-130			
Styrene	10.1	1.0	µg/L	10.0	ND	101	70-130			
1,1,1,2-Tetrachloroethane	9.51	1.0	µg/L	10.0	ND	95.1	70-130			
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0	ND	100	70-130			
Tetrachloroethylene	12.3	1.0	µg/L	10.0	1.76	105	70-130			
Tetrahydrofuran	9.59	2.0	µg/L	10.0	ND	95.9	70-130			
Toluene	9.84	1.0	µg/L	10.0	ND	98.4	70-130			
1,2,3-Trichlorobenzene	10.6	2.0	µg/L	10.0	ND	106	70-130			
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.0	ND	100	70-130			
1,1,1-Trichloroethane	8.96	1.0	µg/L	10.0	ND	89.6	70-130			V-05
1,1,2-Trichloroethane	9.44	1.0	µg/L	10.0	ND	94.4	70-130			
Trichloroethylene	14.2	1.0	µg/L	10.0	3.71	105	70-130			
Trichlorofluoromethane (Freon 11)	8.86	2.0	µg/L	10.0	ND	88.6	70-130			
1,2,3-Trichloropropane	9.50	2.0	µg/L	10.0	ND	95.0	70-130			
1,2,4-Trimethylbenzene	9.47	1.0	µg/L	10.0	ND	94.7	70-130			
1,3,5-Trimethylbenzene	9.62	1.0	µg/L	10.0	ND	96.2	70-130			
Vinyl Chloride	8.39	2.0	µg/L	10.0	ND	83.9	70-130			
m+p Xylene	20.5	2.0	µg/L	20.0	ND	103	70-130			
o-Xylene	10.5	1.0	µg/L	10.0	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.8		µg/L	25.0		91.3	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			
Matrix Spike Dup (B079447-MSD1)	Source: 13H0884-10			Prepared: 08/23/13 Analyzed: 08/24/13						
Acetone	74.8	10	µg/L	100	ND	74.8	70-130	6.60	30	V-05
tert-Amyl Methyl Ether (TAME)	9.50	0.50	µg/L	10.0	ND	95.0	70-130	1.67	30	
Benzene	9.53	1.0	µg/L	10.0	ND	95.3	70-130	0.632	30	
Bromobenzene	9.58	1.0	µg/L	10.0	ND	95.8	70-130	2.78	30	
Bromochloromethane	10.2	1.0	µg/L	10.0	ND	102	70-130	2.41	30	
Bromodichloromethane	8.94	1.0	µg/L	10.0	ND	89.4	70-130	1.77	30	
Bromoform	8.29	1.0	µg/L	10.0	ND	82.9	70-130	3.20	30	
Bromomethane	5.29	2.0	µg/L	10.0	ND	52.9	* 70-130	15.9	30	V-05, MS-09
2-Butanone (MEK)	77.2	10	µg/L	100	ND	77.2	70-130	5.23	30	
n-Butylbenzene	9.56	1.0	µg/L	10.0	ND	95.6	70-130	1.04	30	
sec-Butylbenzene	10.3	1.0	µg/L	10.0	ND	103	70-130	2.21	30	
tert-Butylbenzene	10.2	1.0	µg/L	10.0	ND	102	70-130	0.196	30	
tert-Butyl Ethyl Ether (TBEE)	9.74	0.50	µg/L	10.0	ND	97.4	70-130	4.71	30	
Carbon Disulfide	8.78	5.0	µg/L	10.0	ND	87.8	70-130	1.49	30	
Carbon Tetrachloride	8.75	1.0	µg/L	10.0	ND	87.5	70-130	1.36	30	
Chlorobenzene	10.4	1.0	µg/L	10.0	ND	104	70-130	2.28	30	
Chlorodibromomethane	8.71	0.50	µg/L	10.0	ND	87.1	70-130	4.27	30	
Chloroethane	9.02	2.0	µg/L	10.0	ND	90.2	70-130	1.68	30	
Chloroform	9.33	2.0	µg/L	10.0	ND	93.3	70-130	1.51	30	
Chloromethane	4.31	2.0	µg/L	10.0	ND	43.1	* 70-130	4.99	30	L-04, MS-09, V-05
2-Chlorotoluene	10.0	1.0	µg/L	10.0	ND	100	70-130	3.43	30	
4-Chlorotoluene	10.5	1.0	µg/L	10.0	ND	105	70-130	1.34	30	
1,2-Dibromo-3-chloropropane (DBCP)	9.46	2.0	µg/L	10.0	ND	94.6	70-130	0.737	30	
1,2-Dibromoethane (EDB)	9.43	0.50	µg/L	10.0	ND	94.3	70-130	1.68	30	
Dibromomethane	9.42	1.0	µg/L	10.0	ND	94.2	70-130	4.16	30	
1,2-Dichlorobenzene	10.0	1.0	µg/L	10.0	ND	100	70-130	2.46	30	
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0	ND	101	70-130	3.97	30	

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079447 - SW-846 5030B										
Matrix Spike Dup (B079447-MSD1)	Source: 13H0884-10			Prepared: 08/23/13 Analyzed: 08/24/13						
1,4-Dichlorobenzene	9.36	1.0	µg/L	10.0	ND	93.6	70-130	1.38	30	
Dichlorodifluoromethane (Freon 12)	6.40	2.0	µg/L	10.0	ND	64.0 *	70-130	4.73	30	MS-09, V-05
1,1-Dichloroethane	9.77	1.0	µg/L	10.0	ND	97.7	70-130	1.62	30	
1,2-Dichloroethane	7.67	1.0	µg/L	10.0	ND	76.7	70-130	0.390	30	
1,1-Dichloroethylene	9.37	1.0	µg/L	10.0	ND	93.7	70-130	0.638	30	
cis-1,2-Dichloroethylene	8.65	1.0	µg/L	10.0	ND	86.5	70-130	2.17	30	
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0	ND	101	70-130	1.18	30	
1,2-Dichloropropane	9.68	1.0	µg/L	10.0	ND	96.8	70-130	1.03	30	
1,3-Dichloropropane	9.41	0.50	µg/L	10.0	ND	94.1	70-130	4.67	30	
2,2-Dichloropropane	5.61	1.0	µg/L	10.0	ND	56.1 *	70-130	0.887	30	L-04, MS-09, V-05
1,1-Dichloropropene	9.30	0.50	µg/L	10.0	ND	93.0	70-130	2.13	30	
cis-1,3-Dichloropropene	8.64	0.40	µg/L	10.0	ND	86.4	70-130	5.08	30	
trans-1,3-Dichloropropene	9.03	0.40	µg/L	10.0	ND	90.3	70-130	2.84	30	
Diethyl Ether	8.82	2.0	µg/L	10.0	ND	88.2	70-130	1.91	30	
Diisopropyl Ether (DIPE)	10.7	0.50	µg/L	10.0	ND	107	70-130	4.01	30	
1,4-Dioxane	73.6	50	µg/L	100	ND	73.6	70-130	0.764	30	V-05, V-16
Ethylbenzene	9.74	1.0	µg/L	10.0	ND	97.4	70-130	1.43	30	
Hexachlorobutadiene	9.34	0.50	µg/L	10.0	ND	93.4	70-130	9.89	30	
2-Hexanone (MBK)	78.1	10	µg/L	100	ND	78.1	70-130	3.82	30	
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0	ND	103	70-130	1.35	30	
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0	ND	104	70-130	2.72	30	
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0	ND	101	70-130	3.59	30	
Methylene Chloride	9.44	5.0	µg/L	10.0	ND	94.4	70-130	0.425	30	
4-Methyl-2-pentanone (MIBK)	81.7	10	µg/L	100	ND	81.7	70-130	4.11	30	
Naphthalene	11.2	2.0	µg/L	10.0	ND	112	70-130	8.17	30	
n-Propylbenzene	10.9	1.0	µg/L	10.0	ND	109	70-130	0.831	30	
Styrene	9.84	1.0	µg/L	10.0	ND	98.4	70-130	2.51	30	L-04
1,1,1,2-Tetrachloroethane	9.25	1.0	µg/L	10.0	ND	92.5	70-130	2.77	30	
1,1,2,2-Tetrachloroethane	9.74	0.50	µg/L	10.0	ND	97.4	70-130	2.73	30	
Tetrachloroethylene	11.7	1.0	µg/L	10.0	1.76	99.2	70-130	5.09	30	
Tetrahydrofuran	8.21	2.0	µg/L	10.0	ND	82.1	70-130	15.5	30	
Toluene	9.56	1.0	µg/L	10.0	ND	95.6	70-130	2.89	30	
1,2,3-Trichlorobenzene	11.5	2.0	µg/L	10.0	ND	115	70-130	7.88	30	
1,2,4-Trichlorobenzene	10.1	1.0	µg/L	10.0	ND	101	70-130	0.995	30	
1,1,1-Trichloroethane	8.91	1.0	µg/L	10.0	ND	89.1	70-130	0.560	30	
1,1,2-Trichloroethane	8.99	1.0	µg/L	10.0	ND	89.9	70-130	4.88	30	
Trichloroethylene	13.5	1.0	µg/L	10.0	3.71	98.2	70-130	4.62	30	
Trichlorofluoromethane (Freon 11)	8.31	2.0	µg/L	10.0	ND	83.1	70-130	6.41	30	V-05
1,2,3-Trichloropropane	9.28	2.0	µg/L	10.0	ND	92.8	70-130	2.34	30	
1,2,4-Trimethylbenzene	9.53	1.0	µg/L	10.0	ND	95.3	70-130	0.632	30	
1,3,5-Trimethylbenzene	9.49	1.0	µg/L	10.0	ND	94.9	70-130	1.36	30	
Vinyl Chloride	8.44	2.0	µg/L	10.0	ND	84.4	70-130	0.594	30	
m+p Xylene	19.9	2.0	µg/L	20.0	ND	99.5	70-130	3.07	30	
o-Xylene	10.2	1.0	µg/L	10.0	ND	102	70-130	2.71	30	
Surrogate: 1,2-Dichloroethane-d4	23.3		µg/L	25.0		93.2	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079540 - SW-846 5030B										
Blank (B079540-BLK1)				Prepared & Analyzed: 08/26/13						
Acetone	ND	10	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							L-04, V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079540 - SW-846 5030B										
Blank (B079540-BLK1)										
Prepared & Analyzed: 08/26/13										
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.3		µg/L	25.0		93.2	70-130			
Surrogate: Toluene-d8	24.3		µg/L	25.0		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	25.8		µg/L	25.0		103	70-130			
LCS (B079540-BS1)										
Prepared & Analyzed: 08/26/13										
Acetone	84.1	10	µg/L	100		84.1	40-160			†
tert-Amyl Methyl Ether (TAME)	10.8	0.50	µg/L	10.0		108	70-130			
Benzene	9.39	1.0	µg/L	10.0		93.9	70-130			
Bromobenzene	9.78	1.0	µg/L	10.0		97.8	70-130			
Bromochloromethane	10.6	1.0	µg/L	10.0		106	70-130			
Bromodichloromethane	9.12	1.0	µg/L	10.0		91.2	70-130			
Bromoform	9.80	1.0	µg/L	10.0		98.0	70-130			
Bromomethane	4.72	2.0	µg/L	10.0		47.2	40-160		L-14	†
2-Butanone (MEK)	98.6	10	µg/L	100		98.6	40-160			†
n-Butylbenzene	9.54	1.0	µg/L	10.0		95.4	70-130			
sec-Butylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130			
tert-Butylbenzene	9.51	1.0	µg/L	10.0		95.1	70-130			
tert-Butyl Ethyl Ether (TBEE)	11.0	0.50	µg/L	10.0		110	70-130			
Carbon Disulfide	9.48	5.0	µg/L	10.0		94.8	70-130			
Carbon Tetrachloride	8.51	1.0	µg/L	10.0		85.1	70-130			
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Chlorodibromomethane	9.65	0.50	µg/L	10.0		96.5	70-130			
Chloroethane	8.73	2.0	µg/L	10.0		87.3	70-130			
Chloroform	9.21	2.0	µg/L	10.0		92.1	70-130			
Chloromethane	2.99	2.0	µg/L	10.0		29.9	* 40-160		L-04, V-05	†
2-Chlorotoluene	9.95	1.0	µg/L	10.0		99.5	70-130			
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	12.1	2.0	µg/L	10.0		121	70-130			
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130			
Dibromomethane	9.95	1.0	µg/L	10.0		99.5	70-130			
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,4-Dichlorobenzene	9.63	1.0	µg/L	10.0		96.3	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079540 - SW-846 5030B										
LCS (B079540-BS1)				Prepared & Analyzed: 08/26/13						
Dichlorodifluoromethane (Freon 12)	5.80	2.0	µg/L	10.0		58.0	40-160			L-14 †
1,1-Dichloroethane	9.68	1.0	µg/L	10.0		96.8	70-130			
1,2-Dichloroethane	7.65	1.0	µg/L	10.0		76.5	70-130			
1,1-Dichloroethylene	8.68	1.0	µg/L	10.0		86.8	70-130			
cis-1,2-Dichloroethylene	8.83	1.0	µg/L	10.0		88.3	70-130			
trans-1,2-Dichloroethylene	9.93	1.0	µg/L	10.0		99.3	70-130			
1,2-Dichloropropane	9.40	1.0	µg/L	10.0		94.0	70-130			
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130			
2,2-Dichloropropane	8.91	1.0	µg/L	10.0		89.1	70-130			
1,1-Dichloropropene	8.88	0.50	µg/L	10.0		88.8	70-130			
cis-1,3-Dichloropropene	9.72	0.40	µg/L	10.0		97.2	70-130			
trans-1,3-Dichloropropene	10.1	0.40	µg/L	10.0		101	70-130			
Diethyl Ether	9.41	2.0	µg/L	10.0		94.1	70-130			
Diisopropyl Ether (DIPE)	10.9	0.50	µg/L	10.0		109	70-130			
1,4-Dioxane	100	50	µg/L	100		100	40-160			V-16 †
Ethylbenzene	9.18	1.0	µg/L	10.0		91.8	70-130			
Hexachlorobutadiene	9.75	0.50	µg/L	10.0		97.5	70-130			
2-Hexanone (MBK)	97.8	10	µg/L	100		97.8	40-160			†
Isopropylbenzene (Cumene)	9.81	1.0	µg/L	10.0		98.1	70-130			
p-Isopropyltoluene (p-Cymene)	9.99	1.0	µg/L	10.0		99.9	70-130			
Methyl tert-Butyl Ether (MTBE)	11.9	1.0	µg/L	10.0		119	70-130			
Methylene Chloride	10.0	5.0	µg/L	10.0		100	70-130			
4-Methyl-2-pentanone (MIBK)	98.3	10	µg/L	100		98.3	40-160			†
Naphthalene	14.2	2.0	µg/L	10.0		142 *	70-130			L-02, V-20
n-Propylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Styrene	10.3	1.0	µg/L	10.0		103	70-130			
1,1,1,2-Tetrachloroethane	9.59	1.0	µg/L	10.0		95.9	70-130			
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113	70-130			
Tetrachloroethylene	8.70	1.0	µg/L	10.0		87.0	70-130			
Tetrahydrofuran	10.5	2.0	µg/L	10.0		105	70-130			
Toluene	9.22	1.0	µg/L	10.0		92.2	70-130			
1,2,3-Trichlorobenzene	13.9	2.0	µg/L	10.0		139 *	70-130			L-02, V-20
1,2,4-Trichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
1,1,1-Trichloroethane	8.62	1.0	µg/L	10.0		86.2	70-130			
1,1,2-Trichloroethane	9.82	1.0	µg/L	10.0		98.2	70-130			
Trichloroethylene	8.29	1.0	µg/L	10.0		82.9	70-130			
Trichlorofluoromethane (Freon 11)	8.10	2.0	µg/L	10.0		81.0	70-130			
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.0		109	70-130			
1,2,4-Trimethylbenzene	9.37	1.0	µg/L	10.0		93.7	70-130			
1,3,5-Trimethylbenzene	9.37	1.0	µg/L	10.0		93.7	70-130			
Vinyl Chloride	7.74	2.0	µg/L	10.0		77.4	70-130			
m+p Xylene	19.5	2.0	µg/L	20.0		97.6	70-130			
o-Xylene	9.94	1.0	µg/L	10.0		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.2		µg/L	25.0		97.0	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079540 - SW-846 5030B										
LCS Dup (B079540-BSD1)				Prepared & Analyzed: 08/26/13						
Acetone	80.1	10	µg/L	100		80.1	40-160	4.92	20	†
tert-Amyl Methyl Ether (TAME)	10.7	0.50	µg/L	10.0		107	70-130	1.03	20	
Benzene	9.19	1.0	µg/L	10.0		91.9	70-130	2.15	20	
Bromobenzene	10.5	1.0	µg/L	10.0		105	70-130	7.01	20	
Bromochloromethane	10.2	1.0	µg/L	10.0		102	70-130	4.51	20	
Bromodichloromethane	8.97	1.0	µg/L	10.0		89.7	70-130	1.66	20	
Bromoform	9.70	1.0	µg/L	10.0		97.0	70-130	1.03	20	
Bromomethane	4.27	2.0	µg/L	10.0		42.7	40-160	10.0	20	L-14 †
2-Butanone (MEK)	94.6	10	µg/L	100		94.6	40-160	4.12	20	†
n-Butylbenzene	9.53	1.0	µg/L	10.0		95.3	70-130	0.105	20	
sec-Butylbenzene	9.62	1.0	µg/L	10.0		96.2	70-130	3.07	20	
tert-Butylbenzene	9.24	1.0	µg/L	10.0		92.4	70-130	2.88	20	
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	µg/L	10.0		109	70-130	1.18	20	
Carbon Disulfide	9.24	5.0	µg/L	10.0		92.4	70-130	2.56	20	
Carbon Tetrachloride	8.17	1.0	µg/L	10.0		81.7	70-130	4.08	20	
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.189	20	
Chlorodibromomethane	9.31	0.50	µg/L	10.0		93.1	70-130	3.59	20	
Chloroethane	8.39	2.0	µg/L	10.0		83.9	70-130	3.97	20	
Chloroform	9.33	2.0	µg/L	10.0		93.3	70-130	1.29	20	
Chloromethane	3.21	2.0	µg/L	10.0		32.1	* 40-160	7.10	20	L-04, V-05 †
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130	4.90	20	
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130	1.97	20	
1,2-Dibromo-3-chloropropane (DBCP)	12.0	2.0	µg/L	10.0		120	70-130	0.745	20	
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130	4.17	20	
Dibromomethane	10.3	1.0	µg/L	10.0		103	70-130	3.07	20	
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	1.41	20	
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	0.0961	20	
1,4-Dichlorobenzene	9.45	1.0	µg/L	10.0		94.5	70-130	1.89	20	
Dichlorodifluoromethane (Freon 12)	5.87	2.0	µg/L	10.0		58.7	40-160	1.20	20	L-14 †
1,1-Dichloroethane	9.46	1.0	µg/L	10.0		94.6	70-130	2.30	20	
1,2-Dichloroethane	7.78	1.0	µg/L	10.0		77.8	70-130	1.69	20	
1,1-Dichloroethylene	8.35	1.0	µg/L	10.0		83.5	70-130	3.88	20	
cis-1,2-Dichloroethylene	8.72	1.0	µg/L	10.0		87.2	70-130	1.25	20	
trans-1,2-Dichloroethylene	9.44	1.0	µg/L	10.0		94.4	70-130	5.06	20	
1,2-Dichloropropane	9.17	1.0	µg/L	10.0		91.7	70-130	2.48	20	
1,3-Dichloropropane	9.96	0.50	µg/L	10.0		99.6	70-130	1.69	20	
2,2-Dichloropropane	8.75	1.0	µg/L	10.0		87.5	70-130	1.81	20	
1,1-Dichloropropene	8.60	0.50	µg/L	10.0		86.0	70-130	3.20	20	
cis-1,3-Dichloropropene	9.46	0.40	µg/L	10.0		94.6	70-130	2.71	20	
trans-1,3-Dichloropropene	10.1	0.40	µg/L	10.0		101	70-130	0.00	20	
Diethyl Ether	9.39	2.0	µg/L	10.0		93.9	70-130	0.213	20	
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.0		106	70-130	2.42	20	
1,4-Dioxane	98.1	50	µg/L	100		98.1	40-160	2.06	20	V-16 †
Ethylbenzene	9.69	1.0	µg/L	10.0		96.9	70-130	5.41	20	
Hexachlorobutadiene	9.19	0.50	µg/L	10.0		91.9	70-130	5.91	20	
2-Hexanone (MBK)	94.6	10	µg/L	100		94.6	40-160	3.30	20	†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130	3.70	20	
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130	2.08	20	
Methyl tert-Butyl Ether (MTBE)	11.4	1.0	µg/L	10.0		114	70-130	3.69	20	
Methylene Chloride	9.90	5.0	µg/L	10.0		99.0	70-130	1.01	20	
4-Methyl-2-pentanone (MIBK)	91.1	10	µg/L	100		91.1	40-160	7.61	20	†
Naphthalene	13.4	2.0	µg/L	10.0		134	* 70-130	5.85	20	L-02, V-20

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B079540 - SW-846 5030B
LCS Dup (B079540-BSD1)

Prepared & Analyzed: 08/26/13

n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130	6.74	20	
Styrene	10.5	1.0	µg/L	10.0		105	70-130	2.12	20	
1,1,1,2-Tetrachloroethane	10.0	1.0	µg/L	10.0		100	70-130	4.68	20	
1,1,2,2-Tetrachloroethane	11.5	0.50	µg/L	10.0		115	70-130	2.02	20	
Tetrachloroethylene	8.74	1.0	µg/L	10.0		87.4	70-130	0.459	20	
Tetrahydrofuran	9.78	2.0	µg/L	10.0		97.8	70-130	7.29	20	
Toluene	8.84	1.0	µg/L	10.0		88.4	70-130	4.21	20	
1,2,3-Trichlorobenzene	13.6	2.0	µg/L	10.0		136	* 70-130	2.10	20	L-02, V-20
1,2,4-Trichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	1.79	20	
1,1,1-Trichloroethane	8.40	1.0	µg/L	10.0		84.0	70-130	2.59	20	
1,1,2-Trichloroethane	9.39	1.0	µg/L	10.0		93.9	70-130	4.48	20	
Trichloroethylene	8.18	1.0	µg/L	10.0		81.8	70-130	1.34	20	
Trichlorofluoromethane (Freon 11)	7.93	2.0	µg/L	10.0		79.3	70-130	2.12	20	
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110	70-130	0.457	20	
1,2,4-Trimethylbenzene	9.36	1.0	µg/L	10.0		93.6	70-130	0.107	20	
1,3,5-Trimethylbenzene	9.66	1.0	µg/L	10.0		96.6	70-130	3.05	20	
Vinyl Chloride	7.68	2.0	µg/L	10.0		76.8	70-130	0.778	20	
m+p Xylene	19.9	2.0	µg/L	20.0		99.6	70-130	2.03	20	
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130	1.89	20	
Surrogate: 1,2-Dichloroethane-d4	23.5		µg/L	25.0		93.8	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	25.8		µg/L	25.0		103	70-130			

Batch B079651 - SW-846 5030B
Blank (B079651-BLK1)

Prepared: 08/26/13 Analyzed: 08/27/13

Acetone	ND	10	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							L-04, V-05
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							L-04, V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079651 - SW-846 5030B										
Blank (B079651-BLK1)				Prepared: 08/26/13 Analyzed: 08/27/13						
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							L-04, V-05
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							L-04
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							L-04
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	22.7		µg/L	25.0		90.9	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.0		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	25.6		µg/L	25.0		102	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079651 - SW-846 5030B										
LCS (B079651-BS1)										
Prepared: 08/26/13 Analyzed: 08/27/13										
Acetone	73.7	10	µg/L	100		73.7	40-160			†
tert-Amyl Methyl Ether (TAME)	9.55	0.50	µg/L	10.0		95.5	70-130			
Benzene	8.39	1.0	µg/L	10.0		83.9	70-130			
Bromobenzene	9.48	1.0	µg/L	10.0		94.8	70-130			
Bromochloromethane	9.86	1.0	µg/L	10.0		98.6	70-130			
Bromodichloromethane	8.34	1.0	µg/L	10.0		83.4	70-130			
Bromoform	8.50	1.0	µg/L	10.0		85.0	70-130			
Bromomethane	3.48	2.0	µg/L	10.0		34.8	* 40-160			L-04, V-05 †
2-Butanone (MEK)	78.0	10	µg/L	100		78.0	40-160			†
n-Butylbenzene	8.13	1.0	µg/L	10.0		81.3	70-130			
sec-Butylbenzene	8.67	1.0	µg/L	10.0		86.7	70-130			
tert-Butylbenzene	8.47	1.0	µg/L	10.0		84.7	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.82	0.50	µg/L	10.0		98.2	70-130			
Carbon Disulfide	8.18	5.0	µg/L	10.0		81.8	70-130			
Carbon Tetrachloride	7.28	1.0	µg/L	10.0		72.8	70-130			
Chlorobenzene	9.42	1.0	µg/L	10.0		94.2	70-130			
Chlorodibromomethane	8.54	0.50	µg/L	10.0		85.4	70-130			
Chloroethane	8.44	2.0	µg/L	10.0		84.4	70-130			
Chloroform	8.48	2.0	µg/L	10.0		84.8	70-130			
Chloromethane	3.24	2.0	µg/L	10.0		32.4	* 40-160			L-04, V-05 †
2-Chlorotoluene	9.36	1.0	µg/L	10.0		93.6	70-130			
4-Chlorotoluene	9.28	1.0	µg/L	10.0		92.8	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.81	2.0	µg/L	10.0		98.1	70-130			
1,2-Dibromoethane (EDB)	9.20	0.50	µg/L	10.0		92.0	70-130			
Dibromomethane	9.09	1.0	µg/L	10.0		90.9	70-130			
1,2-Dichlorobenzene	9.33	1.0	µg/L	10.0		93.3	70-130			
1,3-Dichlorobenzene	9.36	1.0	µg/L	10.0		93.6	70-130			
1,4-Dichlorobenzene	8.73	1.0	µg/L	10.0		87.3	70-130			
Dichlorodifluoromethane (Freon 12)	4.72	2.0	µg/L	10.0		47.2	40-160			L-14 †
1,1-Dichloroethane	8.47	1.0	µg/L	10.0		84.7	70-130			
1,2-Dichloroethane	7.23	1.0	µg/L	10.0		72.3	70-130			
1,1-Dichloroethylene	7.50	1.0	µg/L	10.0		75.0	70-130			
cis-1,2-Dichloroethylene	8.00	1.0	µg/L	10.0		80.0	70-130			
trans-1,2-Dichloroethylene	8.32	1.0	µg/L	10.0		83.2	70-130			
1,2-Dichloropropane	8.81	1.0	µg/L	10.0		88.1	70-130			
1,3-Dichloropropane	9.12	0.50	µg/L	10.0		91.2	70-130			
2,2-Dichloropropane	6.35	1.0	µg/L	10.0		63.5	* 70-130			V-05, L-04
1,1-Dichloropropene	7.71	0.50	µg/L	10.0		77.1	70-130			
cis-1,3-Dichloropropene	8.31	0.40	µg/L	10.0		83.1	70-130			
trans-1,3-Dichloropropene	8.57	0.40	µg/L	10.0		85.7	70-130			
Diethyl Ether	8.23	2.0	µg/L	10.0		82.3	70-130			
Diisopropyl Ether (DIPE)	9.82	0.50	µg/L	10.0		98.2	70-130			
1,4-Dioxane	83.0	50	µg/L	100		83.0	40-160			V-16 †
Ethylbenzene	8.40	1.0	µg/L	10.0		84.0	70-130			
Hexachlorobutadiene	8.01	0.50	µg/L	10.0		80.1	70-130			
2-Hexanone (MBK)	78.1	10	µg/L	100		78.1	40-160			†
Isopropylbenzene (Cumene)	8.79	1.0	µg/L	10.0		87.9	70-130			
p-Isopropyltoluene (p-Cymene)	8.84	1.0	µg/L	10.0		88.4	70-130			
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102	70-130			
Methylene Chloride	8.96	5.0	µg/L	10.0		89.6	70-130			
4-Methyl-2-pentanone (MIBK)	80.1	10	µg/L	100		80.1	40-160			†
Naphthalene	11.3	2.0	µg/L	10.0		113	70-130			

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079651 - SW-846 5030B										
LCS (B079651-BS1)										
Prepared: 08/26/13 Analyzed: 08/27/13										
n-Propylbenzene	9.22	1.0	µg/L	10.0		92.2	70-130			
Styrene	9.03	1.0	µg/L	10.0		90.3	70-130			
1,1,1,2-Tetrachloroethane	8.59	1.0	µg/L	10.0		85.9	70-130			
1,1,2,2-Tetrachloroethane	9.83	0.50	µg/L	10.0		98.3	70-130			
Tetrachloroethylene	7.64	1.0	µg/L	10.0		76.4	70-130			
Tetrahydrofuran	8.81	2.0	µg/L	10.0		88.1	70-130			
Toluene	8.23	1.0	µg/L	10.0		82.3	70-130			
1,2,3-Trichlorobenzene	11.8	2.0	µg/L	10.0		118	70-130			V-20
1,2,4-Trichlorobenzene	9.77	1.0	µg/L	10.0		97.7	70-130			
1,1,1-Trichloroethane	7.49	1.0	µg/L	10.0		74.9	70-130			
1,1,2-Trichloroethane	8.93	1.0	µg/L	10.0		89.3	70-130			
Trichloroethylene	7.39	1.0	µg/L	10.0		73.9	70-130			
Trichlorofluoromethane (Freon 11)	6.93	2.0	µg/L	10.0		69.3	* 70-130			L-04
1,2,3-Trichloropropane	9.48	2.0	µg/L	10.0		94.8	70-130			
1,2,4-Trimethylbenzene	8.54	1.0	µg/L	10.0		85.4	70-130			
1,3,5-Trimethylbenzene	8.24	1.0	µg/L	10.0		82.4	70-130			
Vinyl Chloride	6.42	2.0	µg/L	10.0		64.2	* 70-130			L-04
m+p Xylene	17.6	2.0	µg/L	20.0		87.8	70-130			
o-Xylene	9.29	1.0	µg/L	10.0		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.6		µg/L	25.0		94.4	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.0		102	70-130			
LCS Dup (B079651-BS1)										
Prepared: 08/26/13 Analyzed: 08/27/13										
Acetone	76.3	10	µg/L	100		76.3	40-160	3.37	20	†
tert-Amyl Methyl Ether (TAME)	9.70	0.50	µg/L	10.0		97.0	70-130	1.56	20	
Benzene	8.51	1.0	µg/L	10.0		85.1	70-130	1.42	20	
Bromobenzene	9.35	1.0	µg/L	10.0		93.5	70-130	1.38	20	
Bromochloromethane	9.67	1.0	µg/L	10.0		96.7	70-130	1.95	20	
Bromodichloromethane	8.54	1.0	µg/L	10.0		85.4	70-130	2.37	20	
Bromoform	8.29	1.0	µg/L	10.0		82.9	70-130	2.50	20	
Bromomethane	3.97	2.0	µg/L	10.0		39.7	* 40-160	13.2	20	L-04, V-05 †
2-Butanone (MEK)	77.2	10	µg/L	100		77.2	40-160	0.992	20	†
n-Butylbenzene	8.34	1.0	µg/L	10.0		83.4	70-130	2.55	20	
sec-Butylbenzene	8.77	1.0	µg/L	10.0		87.7	70-130	1.15	20	
tert-Butylbenzene	8.52	1.0	µg/L	10.0		85.2	70-130	0.589	20	
tert-Butyl Ethyl Ether (TBEE)	9.98	0.50	µg/L	10.0		99.8	70-130	1.62	20	
Carbon Disulfide	8.13	5.0	µg/L	10.0		81.3	70-130	0.613	20	
Carbon Tetrachloride	7.32	1.0	µg/L	10.0		73.2	70-130	0.548	20	
Chlorobenzene	9.34	1.0	µg/L	10.0		93.4	70-130	0.853	20	
Chlorodibromomethane	8.89	0.50	µg/L	10.0		88.9	70-130	4.02	20	
Chloroethane	8.43	2.0	µg/L	10.0		84.3	70-130	0.119	20	
Chloroform	8.41	2.0	µg/L	10.0		84.1	70-130	0.829	20	
Chloromethane	3.31	2.0	µg/L	10.0		33.1	* 40-160	2.14	20	L-04, V-05 †
2-Chlorotoluene	9.32	1.0	µg/L	10.0		93.2	70-130	0.428	20	
4-Chlorotoluene	9.42	1.0	µg/L	10.0		94.2	70-130	1.50	20	
1,2-Dibromo-3-chloropropane (DBCP)	9.48	2.0	µg/L	10.0		94.8	70-130	3.42	20	
1,2-Dibromoethane (EDB)	9.54	0.50	µg/L	10.0		95.4	70-130	3.63	20	
Dibromomethane	9.52	1.0	µg/L	10.0		95.2	70-130	4.62	20	
1,2-Dichlorobenzene	9.65	1.0	µg/L	10.0		96.5	70-130	3.37	20	
1,3-Dichlorobenzene	9.45	1.0	µg/L	10.0		94.5	70-130	0.957	20	
1,4-Dichlorobenzene	8.58	1.0	µg/L	10.0		85.8	70-130	1.73	20	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079651 - SW-846 5030B										
LCS Dup (B079651-BSD1)					Prepared: 08/26/13 Analyzed: 08/27/13					
Dichlorodifluoromethane (Freon 12)	4.80	2.0	µg/L	10.0		48.0	40-160	1.68	20	L-14 †
1,1-Dichloroethane	8.54	1.0	µg/L	10.0		85.4	70-130	0.823	20	
1,2-Dichloroethane	7.43	1.0	µg/L	10.0		74.3	70-130	2.73	20	
1,1-Dichloroethylene	7.86	1.0	µg/L	10.0		78.6	70-130	4.69	20	
cis-1,2-Dichloroethylene	8.00	1.0	µg/L	10.0		80.0	70-130	0.00	20	
trans-1,2-Dichloroethylene	8.62	1.0	µg/L	10.0		86.2	70-130	3.54	20	
1,2-Dichloropropane	9.02	1.0	µg/L	10.0		90.2	70-130	2.36	20	
1,3-Dichloropropane	9.20	0.50	µg/L	10.0		92.0	70-130	0.873	20	
2,2-Dichloropropane	6.31	1.0	µg/L	10.0		63.1 *	70-130	0.632	20	L-04, V-05
1,1-Dichloropropene	7.87	0.50	µg/L	10.0		78.7	70-130	2.05	20	
cis-1,3-Dichloropropene	8.62	0.40	µg/L	10.0		86.2	70-130	3.66	20	
trans-1,3-Dichloropropene	9.31	0.40	µg/L	10.0		93.1	70-130	8.28	20	
Diethyl Ether	8.77	2.0	µg/L	10.0		87.7	70-130	6.35	20	
Diisopropyl Ether (DIPE)	9.57	0.50	µg/L	10.0		95.7	70-130	2.58	20	
1,4-Dioxane	81.8	50	µg/L	100		81.8	40-160	1.41	20	V-16 †
Ethylbenzene	8.39	1.0	µg/L	10.0		83.9	70-130	0.119	20	
Hexachlorobutadiene	8.08	0.50	µg/L	10.0		80.8	70-130	0.870	20	
2-Hexanone (MBK)	81.7	10	µg/L	100		81.7	40-160	4.46	20	†
Isopropylbenzene (Cumene)	8.67	1.0	µg/L	10.0		86.7	70-130	1.37	20	
p-Isopropyltoluene (p-Cymene)	8.87	1.0	µg/L	10.0		88.7	70-130	0.339	20	
Methyl tert-Butyl Ether (MTBE)	10.0	1.0	µg/L	10.0		100	70-130	1.78	20	
Methylene Chloride	9.10	5.0	µg/L	10.0		91.0	70-130	1.55	20	
4-Methyl-2-pentanone (MIBK)	81.2	10	µg/L	100		81.2	40-160	1.44	20	†
Naphthalene	10.9	2.0	µg/L	10.0		109	70-130	4.06	20	
n-Propylbenzene	9.09	1.0	µg/L	10.0		90.9	70-130	1.42	20	
Styrene	8.89	1.0	µg/L	10.0		88.9	70-130	1.56	20	
1,1,1,2-Tetrachloroethane	8.49	1.0	µg/L	10.0		84.9	70-130	1.17	20	
1,1,2,2-Tetrachloroethane	9.55	0.50	µg/L	10.0		95.5	70-130	2.89	20	
Tetrachloroethylene	7.87	1.0	µg/L	10.0		78.7	70-130	2.97	20	
Tetrahydrofuran	9.04	2.0	µg/L	10.0		90.4	70-130	2.58	20	
Toluene	8.29	1.0	µg/L	10.0		82.9	70-130	0.726	20	
1,2,3-Trichlorobenzene	11.0	2.0	µg/L	10.0		110	70-130	6.92	20	V-20
1,2,4-Trichlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130	1.02	20	
1,1,1-Trichloroethane	7.37	1.0	µg/L	10.0		73.7	70-130	1.62	20	
1,1,2-Trichloroethane	8.93	1.0	µg/L	10.0		89.3	70-130	0.00	20	
Trichloroethylene	7.91	1.0	µg/L	10.0		79.1	70-130	6.80	20	
Trichlorofluoromethane (Freon 11)	6.87	2.0	µg/L	10.0		68.7 *	70-130	0.870	20	L-04
1,2,3-Trichloropropane	9.48	2.0	µg/L	10.0		94.8	70-130	0.00	20	
1,2,4-Trimethylbenzene	8.51	1.0	µg/L	10.0		85.1	70-130	0.352	20	
1,3,5-Trimethylbenzene	8.22	1.0	µg/L	10.0		82.2	70-130	0.243	20	
Vinyl Chloride	6.76	2.0	µg/L	10.0		67.6 *	70-130	5.16	20	L-04
m+p Xylene	17.5	2.0	µg/L	20.0		87.7	70-130	0.171	20	
o-Xylene	9.08	1.0	µg/L	10.0		90.8	70-130	2.29	20	
Surrogate: 1,2-Dichloroethane-d4	23.3		µg/L	25.0		93.2	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.5		µg/L	25.0		98.2	70-130			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
MS-09	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
RL-05	Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME

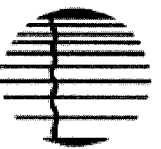
CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



con-test

ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

Company Name: Nosis Engineering
Address: 585 Middlesex St
Lowell MA 01851

Telephone: 978-683-0891
Project # 8007803

Attention: Jeff Brunelle

Project Location: Nu-Style Franklin MA

Sampled By: JWB, JCA, DVC

Project Proposal Provided? (for billing purposes)
☐ Yes ☐ No

Collection

Beginning Date/Time

Ending Date/Time

Composite

Grab

Matrix

Conc

Units

Enhanced Data Package

Matrix

Conc

Units

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

Matrix

Conc

Units

Enhanced Data Package

Matrix

Conc

Units

01 MW-102S

8-20

1045

✓

6M

U/M

✓

✓

✓

✓

✓

✓

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02 MW-102D

✓

955

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03 MW-104S

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04 MW-104B

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05 MW-105S

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06 MW-105B

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07 MW-103S

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08 MW-103B

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09 DW-1

8-21

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10 MS/MSD (MW-14)

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Comments:

Turnaround

7-Day

10-Day

Other

RUSH

12-Hr

14-Hr

Require lab approval

Other:

Massachusetts:

Connecticut:

Other:

Relinquish by (signature)

Date/Time:

Turnaround

7-Day

10-Day

Other

RUSH

12-Hr

14-Hr

Require lab approval

Other:

Massachusetts:

Connecticut:

Other:

Received by (signature)

Date/Time:

Turnaround

7-Day

10-Day

Other

RUSH

12-Hr

14-Hr

Require lab approval

Other:

Massachusetts:

Connecticut:

Other:

Relinquish by (signature)

Date/Time:

Turnaround

7-Day

10-Day

Other

RUSH

12-Hr

14-Hr

Require lab approval

Other:

Massachusetts:

Connecticut:

Other:

Received by (signature)

Date/Time:

Turnaround

7-Day

10-Day

Other

RUSH

12-Hr

14-Hr

Require lab approval

Other:

Massachusetts:

Connecticut:

Other:

Relinquish by (signature)

Date/Time:

Turnaround

7-Day

10-Day

Other

RUSH

12-Hr

14-Hr

Require lab approval

Other:

Massachusetts:

Connecticut:

Other:

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

Turnaround

7-Day

10-Day

Other

RUSH

12-Hr

14-Hr

Require lab approval

Other:

Massachusetts:

Connecticut:

Other:

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

Turnaround

7-Day

10-Day

Other

RUSH

12-Hr

14-Hr

Require lab approval

Other:

Massachusetts:

Connecticut:

Other:



CON-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: NBBAS

Address:

Project # 80078.03

Attention: Jeff Banelle

Project Location: NW-STYLE FRANKLIN

Sampled By: JNS, DUE, JEN

Project Proposal Provided? (for billing purposes)
☐ Yes ☐ No

Client PO#

DATA DELIVERY (check all that apply)
☐ FAX ☐ EMAIL ☐ WEBSITE

Fax #

Email:

Format:

☐ PDF ☐ EXCEL ☐ GIS
☐ OTHER

Collection

Con-Test Lab ID
(Laboratory use only)

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

Lab Code

11 MW-1015

10 MW-14

12 MW-2

13 MW-3

14 MW-101D

15 MW-106S

16 MW-106D

17 MW-106D

18 MW-1

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature] Date/Time: 8-22-13

Received by: (signature) [Signature] Date/Time: 8-22-13

Relinquished by: (signature) [Signature] Date/Time: 8-22-13

Received by: (signature) [Signature] Date/Time: 8-22-13

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

ANALYSIS REQUESTED

Dissolved Metals
☐ Field Filtered
☐ Lab to Filter

***Cont. Code:

A=amber glass
G=glass
P=plastic
ST=sterile
V=vial

S=summary can
T=tetradar bag
O=Other

**Preservation

I=iced
H=HCL
M=Methanol
N=Nitric Acid
S=Sulfuric Acid
B=Sodium bisulfate
X=Na hydroxide
T=Na thiosulfate
O=Other

*Matrix Code:

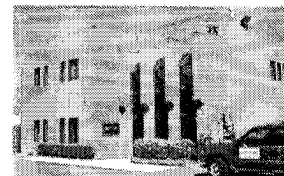
GW= groundwater
WW= wastewater
DW= drinking water
A= air
S= soil/solid
SL= sludge
O= other

Is your project MCP or RCP?

☐ MCP Form Required
☐ RCP Form Required
☐ MA State DW Form Required PWSID #

NEIAC & AIHA-LAP, LLC
Accredited
WBE/DBE Certified

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Nobis Engineering RECEIVED BY: JMH DATE: 8/22/13

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.7

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>60</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 60 # Methanol _____

Time and Date Frozen:

Doc# 277 # Bisulfate _____ # DI Water _____

Rev. 3 May 2012 # Thiosulfate _____ Unpreserved

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 13H0884

Project Location: Nu-Style Franklin MA

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

13H0884-01 thru 13H0884-18

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB ()	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B ()	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A ()	6020 Metals CAM III D ()	8082 PCB CAM V A ()	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☒ Yes ☐ No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes ☐ No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	☒ Yes ☐ No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes ☐ No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	☒ Yes ☐ No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☒ No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☒ No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☒ Yes ☐ No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: 

Position: Laboratory Manager

Printed Name: Daren J. Damboragian

Date: 08/29/13

A P P E N D I X D



September 5, 2013
Nobis File No. 80078

Mr. Jim Byrne
EPA-New England Region I
5 Post Office Square
Suite 100, Mailcode OSRR07-4
Boston, MA 02109-3912

Re: Contract No.: EP-S1-06-03
Task Order No. 0078-SI-BZ-0100
Case No. 0120S, Sample Delivery Group (SDG) No. D05480, Lab No.:13H0884
Con-Test Analytical Laboratory, East Longmeadow, Massachusetts
NU Style Site
Franklin, Massachusetts

Tier I Modified, Stage 2A Organic Data Review (S2AVM)

VOCs:

18/GW: MW-1, 2, 3, 14, 17, 101D, 101S, 102D, 102S, 103D,
103S, 104D, 104S, 105D, 105S, 106D, 106S, DUP-1
1/Field Duplicate: DUP-1/MW-101D

Dear Mr. Byrne:

Nobis Engineering, Inc. performed a Tier I Modified, Stage 2A manual data review in accordance with the EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Specific Guidance/Procedures, (April, 2013) on the organic analytical data for 18 groundwater samples collected by Nobis Engineering, Inc. at the NU Style Site located in Franklin, Massachusetts. The groundwater samples were analyzed for volatile organic compounds (VOCs) by SW-846 Method 8260C. DAS Technical Specification DAS-RAC2-072 requirements were also followed by the laboratory, which required Massachusetts Contingency Plan (MCP) protocols. A Tier I Modified, Stage 2A manual data review was deemed sufficient at this time.

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- * • Data Completeness
- * • Preservation and Technical Holding Times
- * • Blanks
- Laboratory Control Samples (LCS)
- * • Field Duplicates
- Matrix Spike/Matrix Spike Duplicate
- * • Surrogate Compounds
- * • Internal Standards
- * • Reported Quantitation Limits

* All criteria were met for this parameter.

NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The objective for the sampling activity is to assess the extent of contaminant impacts to bedrock groundwater in the area of the former boiler area. The results of the investigation are intended to support a Response Action Outcome (RAO) that would be prepared by an environmental consultant working for the Town. Groundwater data collected during the course of the TBA will be compared with applicable Massachusetts Contingency Plan (MCP) Method 1 Standards to assess potential risks to human health and the environment associated with suspected contaminants of concern (COCs).

Analytes, groundwater samples and groundwater standards exceeded are as follows:

Analyte	RCGW Standards	GW-2 Standard
1,1-Dichloroethene	MW-101D	None
Tetrachloroethene	MW-101S, MW-101D, MW-103D, MW-103S, MW-104D, MW-104S, MW-105D, MW-105S	MW-101D, MW-103D, MW-104D, MW-104S, MW-105S
Trichloroethene	MW-101D, MW-101S, MW-102D, MW-103D, MW-104D, MW-104S, MW-105D, MW-105S, MW-2, MW-3	MW-101D, MW-101S, MW-102D, MW-103D, MW-104D, MW-105S
1,1,1-Trichloroethane	MW-101D, MW-101S	MW-101D
Vinyl chloride	MW-103S	MW-103S

Data are of sufficient quality for the project objectives. Relative biases are noted below based on criteria evaluated. VOC sample results were qualified as estimated biased low for laboratory control sample and matrix spike recovery criteria not being met.

Data Completeness:

The data package was complete. All samples were analyzed for requested analyses.

Data presented in the Summary Tables include qualifiers assigned by the laboratory and data reviewer.

Laboratory Control Samples:

For batch B079540, 1,2,3-trichlorobenzene and naphthalene were recovered above the upper control limit (UCL) in the LCS and/or LCSD. The associated sample results were non-detect, therefore, there was no impact on the data. Chloromethane was recovered below the lower control limit (LCL) in the LCS and/or LCSD. The associated sample results (DUP-1RE, MW-101SRE, MW-101DRE, MW-106S, and MW-106D) should be considered biased low for this analyte. Only MW016S and MW106D were reported for chloromethane from this batch; therefore, only these results are qualified (UJ).

For batch B079445, bromomethane and chloromethane were recovered below the LCL in the LCS and/or LCSD. The associated sample results (MW-102S, MW-102D, MW-104S, MW-104D, MW-105S, and MW-105D) should be considered biased low for these analytes and are qualified (UJ).

For batch B079447, bromomethane, chloromethane, 2,2-dichloropropane, and styrene were recovered below the LCL in the LCS and/or LCSD. The associated sample results (MW-103D, DUP-1, MW-14, MW-101S, MW-2, MW-3, MW-101D, MW-106S, MW016D, MW-17, and MW-1) should be considered biased low for these analytes and are qualified (UJ).

For batch B079651, bromomethane, chloromethane, 2,2-dichloropropane, trichlorofluoromethane, and vinyl chloride were recovered below the LCL in the LCS and/or LCSD. The associated sample results (MW-103S) should be considered biased low for these analytes and are qualified (UJ).

Matrix Spikes:

Matrix spike/matrix spike duplicate samples (MS/MSDs) were analyzed for VOCs on sample MW-14. The following analytes were recovered low in the MS and/or MSD: bromomethane, chloromethane, and dichlorodifluoromethane. Results for these analytes in sample MW-14 should be considered biased low and are qualified (UJ).

Reporting Limits:

Samples DUP-1, MW-102D, MW-103D, MW-104D, and MW-105S were analyzed at dilutions due to high concentrations of target analytes in the samples. Samples DUP-1 and MW-101S were also run at a second dilution to obtain trichloroethene within the calibration range. Sample MW-101D was run at a second dilution for tetrachloroethene, trichloroethene, and 1,1,1-trichloroethane. Reporting limits were adjusted according to the dilutions tested. Because of the dilutions that were necessary, some project action limits were not achieved. These are bolded in the data summary table.

Please contact me at (978) 703-6021 or gderuzzo@nobiseng.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS ENGINEERING, INC.

A handwritten signature in black ink, appearing to read "Gail DeRuzzo".

Gail DeRuzzo
Lead Chemist

Tables: Data Summary Tables

Enclosures: Data Review Checklist
Chains-of-Custody

DATA SUMMARY TABLE
Tier I Modified, Stage 2A Reviewed Data
Groundwater Samples
NU Style Site
Franklin, MA

Sample Location							MW-1		MW-101D		MW-101D		MW-101S	
EPA Sample Number							MW-1		Dup-1		MW-101D		MW-101S	
Sample Date							08/21/2013		08/21/2013		08/21/2013		08/21/2013	
Labnumber							13H0884-18		13H0884-09		13H0884-14		13H0884-11	
	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units		Qual		Qual		Qual		Qual
SW-846 8260C														
ACETONE	50000	50000	6300	50000	100000	µg/L	10	U	100	U	10	U	10	U
TERT-AMYL METHYL ETHER	~	~	~	~	~	µg/L	0.5	U	5	U	0.5	U	0.5	U
BENZENE	2000	10000	5	2000	100000	µg/L	1	U	10	U	1	U	1	U
BROMOBENZENE	~	~	1000	10000	~	µg/L	1	U	10	U	1	U	1	U
BROMOCHLOROMETHANE	~	~	~	~	~	µg/L	1	U	10	U	1	U	1	U
BROMODICHLOROMETHANE	6	50000	3	6	100000	µg/L	1	U	10	U	1	U	1	U
BROMOFORM	700	50000	4	700	100000	µg/L	1	U	10	U	1	U	1	U
BROMOMETHANE	7	800	7	7	8000	µg/L	2	UJ	20	UJ	2	UJ	2	UJ
2-BUTANONE (MEK)	50000	50000	4000	50000	100000	µg/L	10	U	100	U	10	U	10	U
N-BUTYLBENZENE	~	~	~	~	~	µg/L	1	U	10	U	1	U	1	U
SEC-BUTYLBENZENE	~	~	~	~	~	µg/L	1	U	10	U	1	U	1	U
TERT-BUTYLBENZENE	~	~	1000	10000	~	µg/L	1	U	10	U	1	U	1	U
TERT-BUTYLETHYL ETHER	~	~	~	~	~	µg/L	0.5	U	5	U	0.5	U	0.5	U
CARBON DISULFIDE	~	~	1000	10000	~	µg/L	5	U	50	U	5	U	5	U
CARBON TETRACHLORIDE	2	5000	2	2	50000	µg/L	1	U	10	U	1	U	1	U
CHLOROBENZENE	200	1000	100	200	10000	µg/L	1	U	10	U	1	U	1	U
CHLORODIBROMOMETHANE	20	50000	2	20	~	µg/L	0.5	U	5	U	0.5	U	0.5	U
CHLOROETHANE	~	~	1000	10000	~	µg/L	2	U	20	U	2	U	2	U
CHLOROFORM	50	20000	50	50	100000	µg/L	2	U	20	U	2	U	2	U
CHLOROMETHANE	~	~	1000	10000	~	µg/L	2	UJ	20	UJ	2	UJ	2	UJ
2-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	1	U	10	U	1	U	1	U
4-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	1	U	10	U	1	U	1	U
1,2-DIBROMO-3-CHLOROPROPANE	~	~	100	1000	~	µg/L	2	U	20	U	2	U	2	U
1,2-DIBROMOETHANE (EDB)	2	50000	0.02	2	100000	µg/L	0.5	U	5	U	0.5	U	0.5	U
DIBROMOMETHANE	~	~	5000	50000	~	µg/L	1	U	10	U	1	U	1	U
1,2-DICHLOROETHANE	2000	2000	600	2000	20000	µg/L	1	U	10	U	1	U	1	U
1,3-DICHLOROETHANE	2000	50000	40	2000	100000	µg/L	1	U	10	U	1	U	1	U
1,4-DICHLOROETHANE	200	8000	5	200	80000	µg/L	1	U	10	U	1	U	1	U
DICHLORODIFLUOROMETHANE	~	~	10000	100000	~	µg/L	2	U	20	U	2	U	2	U
1,1-DICHLOROETHANE	1000	20000	70	1000	100000	µg/L	1	U	50	U	64	U	6.6	U
1,2-DICHLOROETHANE	5	20000	5	5	100000	µg/L	1	U	10	U	1	U	1	U
1,1-DICHLOROETHYLENE	80	30000	7	80	100000	µg/L	1	U	19	U	26	U	3.8	U
CIS-1,2-DICHLOROETHYLENE	100	50000	70	100	100000	µg/L	1	U	16	U	20	U	4.1	U
TRANS-1,2-DICHLOROETHYLENE	90	50000	90	90	100000	µg/L	1	U	10	U	1	U	1	U
1,2-DICHLOROPROPANE	3	50000	3	3	100000	µg/L	1	U	10	U	1	U	1	U
1,3-DICHLOROPROPANE	~	~	5000	50000	~	µg/L	0.5	U	5	U	0.5	U	0.5	U
2,2-DICHLOROPROPANE	~	~	5	9	~	µg/L	1	UJ	10	UJ	1	UJ	1	UJ
1,1-DICHLOROPROPENE	~	~	0.5	5	~	µg/L	0.5	U	5	U	0.5	U	0.5	U
CIS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	0.4	U	4	U	0.4	U	0.4	U
TRANS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	0.4	U	4	U	0.4	U	0.4	U
DIETHYL ETHER	~	~	1000	10000	~	µg/L	2	U	20	U	2	U	2	U
DIISOPROPYL ETHER	~	~	1000	10000	~	µg/L	0.5	U	5	U	0.5	U	0.5	U
1,4-DIOXANE	6000	50000	3	6000	100000	µg/L	50	U	500	U	50	U	50	U
ETHYLBENZENE	20000	5000	700	5000	100000	µg/L	1	U	10	U	1	U	1	U
HEXACHLOROBUTADIENE	1	3000	0.6	1	30000	µg/L	0.5	U	5	U	0.5	U	0.5	U
2-HEXANONE	~	~	1000	10000	~	µg/L	10	U	100	U	10	U	10	U
ISOPROPYLBENZENE	~	~	10000	100000	~	µg/L	1	U	10	U	1	U	1	U
P-ISOPROPYLTOLUENE	~	~	1000	10000	~	µg/L	1	U	10	U	1	U	1	U
METHYL TERT-BUTYL ETHER (MTBE)	50000	50000	70	5000	100000	µg/L	1	U	10	U	1	U	1	U
METHYLENE CHLORIDE	10000	50000	5	10000	100000	µg/L	5	U	50	U	5	U	5	U
4-METHYL-2-PENTANONE (MIBK)	50000	50000	350	50000	100000	µg/L	10	U	100	U	10	U	10	U
NAPHTHALENE	1000	20000	140	1000	100000	µg/L	2	U	20	U	2	U	2	U

DATA SUMMARY TABLE
Tier I Modified, Stage 2A Reviewed Data
Groundwater Samples
NU Style Site
Franklin, MA

Sample Location							MW-1		MW-101D		MW-101D		MW-101S	
EPA Sample Number							MW-1		Dup-1		MW-101D		MW-101S	
Sample Date							08/21/2013		08/21/2013		08/21/2013		08/21/2013	
Labnumber							13H0884-18		13H0884-09		13H0884-14		13H0884-11	
	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units		Qual		Qual		Qual		Qual
N-PROPYLBENZENE	~	~	1000	10000	~	µg/L	1	U	10	U	1	U	1	U
STYRENE	100	6000	100	100	60000	µg/L	1	UJ	10	UJ	1	UJ	1	UJ
1,1,1,2-TETRACHLOROETHANE	10	50000	5	10	100000	µg/L	1	U	10	U	1	U	1	U
1,1,2,2-TETRACHLOROETHANE	9	50000	2	9	100000	µg/L	0.5	U	5	U	0.5	U	0.5	U
TETRACHLOROETHYLENE	50	30000	5	50	100000	µg/L	1	U	1,100	U	1,400	U	44	U
TETRAHYDROFURAN	~	~	5000	50000	~	µg/L	2	U	20	U	2	U	2	U
TOLUENE	50000	40000	1000	40000	100000	µg/L	1	U	10	U	1	U	1	U
1,2,3-TRICHLOROBENZENE	~	~	~	~	~	µg/L	2	U	20	U	2	U	2	U
1,2,4-TRICHLOROBENZENE	2000	50000	70	2000	100000	µg/L	1	U	10	U	1	U	1	U
1,1,1-TRICHLOROETHANE	4000	20000	200	4000	100000	µg/L	1	U	340	U	410	U	22	U
1,1,2-TRICHLOROETHANE	900	50000	5	900	100000	µg/L	1	U	10	U	1.3	U	1	U
TRICHLOROETHYLENE	30	5000	5	30	50000	µg/L	1	U	4,600	U	4,600	U	260	U
TRICHLOROFLUOROMETHANE	~	~	10000	100000	~	µg/L	2	U	20	U	2	U	2	U
1,2,3-TRICHLOROPROPANE	~	~	1000	10000	~	µg/L	2	U	20	U	2	U	2	U
1,2,4-TRIMETHYLBENZENE	~	~	10000	100000	~	µg/L	1	U	10	U	1	U	1	U
1,3,5-TRIMETHYLBENZENE	~	~	100	1000	~	µg/L	1	U	10	U	1	U	1	U
VINYL CHLORIDE	2	50000	2	2	100000	µg/L	2	U	20	U	2	U	2	U
M/P-XYLENE	9000	5000	5000	5000	100000	µg/L	2	U	20	U	2	U	2	U
O-XYLENE	9000	5000	5000	5000	100000	µg/L	1	U	10	U	1	U	1	U
NOTES:														
1. U = Not detected above the lab reporting limits shown in parenthesis.														
2. NT = Not tested.														
3. ~ = No regulatory limits found														
4. Values in italics exceed the GW-1, GW-2, or GW-3 Concentration.														
5. Bolded values exceed the RCGW-1 or RCGW-2 Concentration.														
6. Grey shaded values exceed the UCL Concentration.														
7. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.														
8. UJ = analyte not detected; quantitation limit is an estimated quantity.														

DATA SUMMARY TABLE
Tier I Modified, Stage 2A Reviewed Data
Groundwater Samples
NU Style Site
Franklin, MA

Sample Location							MW-102D		MW-102S		MW-103D		MW-103S	
EPA Sample Number							MW-102D		MW-102S		MW-103D		MW-103S	
Sample Date							08/20/2013		08/20/2013		08/20/2013		08/20/2013	
Labnumber							13H0884-02		13H0884-01		13H0884-08		13H0884-07	
	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units		Qual		Qual		Qual		Qual
SW-846 8260C														
ACETONE	50000	50000	6300	50000	100000	µg/L	40	U	10	U	100	U	10	U
TERT-AMYL METHYL ETHER	~	~	~	~	~	µg/L	2	U	0.5	U	5	U	0.5	U
BENZENE	2000	10000	5	2000	100000	µg/L	4	U	1	U	10	U	1	U
BROMOBENZENE	~	~	1000	10000	~	µg/L	4	U	1	U	10	U	1	U
BROMOCHLOROMETHANE	~	~	~	~	~	µg/L	4	U	1	U	10	U	1	U
BROMODICHLOROMETHANE	6	50000	3	6	100000	µg/L	4	U	1	U	10	U	1	U
BROMOFORM	700	50000	4	700	100000	µg/L	4	U	1	U	10	U	1	U
BROMOMETHANE	7	800	7	7	8000	µg/L	8	UJ	2	UJ	20	UJ	2	UJ
2-BUTANONE (MEK)	50000	50000	4000	50000	100000	µg/L	40	U	10	U	100	U	10	U
N-BUTYLBENZENE	~	~	~	~	~	µg/L	4	U	1	U	10	U	1	U
SEC-BUTYLBENZENE	~	~	~	~	~	µg/L	4	U	2.5	U	10	U	1	U
TERT-BUTYLBENZENE	~	~	1000	10000	~	µg/L	4	U	1	U	10	U	1	U
TERT-BUTYLETHYL ETHER	~	~	~	~	~	µg/L	2	U	0.5	U	5	U	0.5	U
CARBON DISULFIDE	~	~	1000	10000	~	µg/L	20	U	5	U	50	U	5	U
CARBON TETRACHLORIDE	2	5000	2	2	50000	µg/L	4	U	1	U	10	U	1	U
CHLOROBENZENE	200	1000	100	200	10000	µg/L	4	U	1	U	10	U	1	U
CHLORODIBROMOMETHANE	20	50000	2	20	~	µg/L	2	U	0.5	U	5	U	0.5	U
CHLOROETHANE	~	~	1000	10000	~	µg/L	8	U	2	U	20	U	2	U
CHLOROFORM	50	20000	50	50	100000	µg/L	8	U	2	U	20	U	2	U
CHLOROMETHANE	~	~	1000	10000	~	µg/L	8	UJ	2	UJ	20	UJ	2	UJ
2-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	4	U	1	U	10	U	1	U
4-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	4	U	1	U	10	U	1	U
1,2-DIBROMO-3-CHLOROPROPANE	~	~	100	1000	~	µg/L	8	U	2	U	20	U	2	U
1,2-DIBROMOETHANE (EDB)	2	50000	0.02	2	100000	µg/L	2	U	0.5	U	5	U	0.5	U
DIBROMOMETHANE	~	~	5000	50000	~	µg/L	4	U	1	U	10	U	1	U
1,2-DICHLOROBENZENE	2000	2000	600	2000	20000	µg/L	4	U	1	U	10	U	1	U
1,3-DICHLOROBENZENE	2000	50000	40	2000	100000	µg/L	4	U	1	U	10	U	1	U
1,4-DICHLOROBENZENE	200	8000	5	200	80000	µg/L	4	U	1	U	10	U	1	U
DICHLORODIFLUOROMETHANE	~	~	10000	100000	~	µg/L	8	U	2	U	20	U	2	U
1,1-DICHLOROETHANE	1000	20000	70	1000	100000	µg/L	4	U	1	U	10	U	1	U
1,2-DICHLOROETHANE	5	20000	5	5	100000	µg/L	4	U	1	U	10	U	1	U
1,1-DICHLOROETHYLENE	80	30000	7	80	100000	µg/L	4	U	1	U	10	U	1	U
CIS-1,2-DICHLOROETHYLENE	100	50000	70	100	100000	µg/L	4	U	1	U	46	U	7.8	U
TRANS-1,2-DICHLOROETHYLENE	90	50000	90	90	100000	µg/L	4	U	1	U	10	U	1	U
1,2-DICHLOROPROPANE	3	50000	3	3	100000	µg/L	4	U	1	U	10	U	1	U
1,3-DICHLOROPROPANE	~	~	5000	50000	~	µg/L	2	U	0.5	U	5	U	0.5	U
2,2-DICHLOROPROPANE	~	~	5	9	~	µg/L	4	U	1	U	10	UJ	1	UJ
1,1-DICHLOROPROPENE	~	~	0.5	5	~	µg/L	2	U	0.5	U	5	U	0.5	U
CIS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	1.6	U	0.4	U	4	U	0.4	U
TRANS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	1.6	U	0.4	U	4	U	0.4	U
DIETHYL ETHER	~	~	1000	10000	~	µg/L	8	U	2	U	20	U	2	U
DIISOPROPYL ETHER	~	~	1000	10000	~	µg/L	2	U	0.5	U	5	U	0.5	U
1,4-DIOXANE	6000	50000	3	6000	100000	µg/L	200	U	50	U	500	U	50	U
ETHYLBENZENE	20000	5000	700	5000	100000	µg/L	4	U	1	U	10	U	1	U
HEXACHLOROBUTADIENE	1	3000	0.6	1	30000	µg/L	2	U	0.5	U	5	U	0.5	U
2-HEXANONE	~	~	1000	10000	~	µg/L	40	U	10	U	100	U	10	U
ISOPROPYLBENZENE	~	~	10000	100000	~	µg/L	4	U	1	U	10	U	1	U
P-ISOPROPYLTOLUENE	~	~	1000	10000	~	µg/L	4	U	1	U	10	U	1	U
METHYL TERT-BUTYL ETHER (MTBE)	50000	50000	70	5000	100000	µg/L	4	U	1	U	10	U	1	U
METHYLENE CHLORIDE	10000	50000	5	10000	100000	µg/L	20	U	5	U	50	U	5	U
4-METHYL-2-PENTANONE (MIBK)	50000	50000	350	50000	100000	µg/L	40	U	10	U	100	U	10	U
NAPHTHALENE	1000	20000	140	1000	100000	µg/L	8	U	2	U	20	U	2	U

DATA SUMMARY TABLE
Tier I Modified, Stage 2A Reviewed Data
Groundwater Samples
NU Style Site
Franklin, MA

Sample Location							MW-102D		MW-102S		MW-103D		MW-103S	
EPA Sample Number							MW-102D		MW-102S		MW-103D		MW-103S	
Sample Date							08/20/2013		08/20/2013		08/20/2013		08/20/2013	
Labnumber							13H0884-02		13H0884-01		13H0884-08		13H0884-07	
	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units		Qual		Qual		Qual		Qual
N-PROPYLBENZENE	~	~	1000	10000	~	µg/L	4	U	1	U	10	U	1	U
STYRENE	100	6000	100	100	60000	µg/L	4	U	1	U	10	UJ	1	U
1,1,1,2-TETRACHLOROETHANE	10	50000	5	10	100000	µg/L	4	U	1	U	10	U	1	U
1,1,2,2-TETRACHLOROETHANE	9	50000	2	9	100000	µg/L	2	U	0.5	U	5	U	0.5	U
TETRACHLOROETHYLENE	50	30000	5	50	100000	µg/L	4	U	1	U	1,100		1.5	
TETRAHYDROFURAN	~	~	5000	50000	~	µg/L	8	U	2	U	20	U	2	U
TOLUENE	50000	40000	1000	40000	100000	µg/L	4	U	1	U	10	U	1	U
1,2,3-TRICHLOROBENZENE	~	~	~	~	~	µg/L	8	U	2	U	20	U	2	U
1,2,4-TRICHLOROBENZENE	2000	50000	70	2000	100000	µg/L	4	U	1	U	10	U	1	U
1,1,1-TRICHLOROETHANE	4000	20000	200	4000	100000	µg/L	4		1	U	10	U	1	U
1,1,2-TRICHLOROETHANE	900	50000	5	900	100000	µg/L	4	U	1	U	10	U	1	U
TRICHLOROETHYLENE	30	5000	5	30	50000	µg/L	140		1	U	1,200		3.4	
TRICHLOROFLUOROMETHANE	~	~	10000	100000	~	µg/L	8	U	2	U	20	U	2	UJ
1,2,3-TRICHLOROPROPANE	~	~	1000	10000	~	µg/L	8	U	2	U	20	U	2	U
1,2,4-TRIMETHYLBENZENE	~	~	10000	100000	~	µg/L	4	U	1	U	10	U	1	U
1,3,5-TRIMETHYLBENZENE	~	~	100	1000	~	µg/L	4	U	1	U	10	U	1	U
VINYL CHLORIDE	2	50000	2	2	100000	µg/L	8	U	2	U	20	U	3.8	
M/P-XYLENE	9000	5000	5000	5000	100000	µg/L	8	U	2	U	20	U	2	U
O-XYLENE	9000	5000	5000	5000	100000	µg/L	4	U	1	U	10	U	1	U
NOTES:														
1. U = Not detected above the lab reporting limits shown in parenthesis.														
2. NT = Not tested.														
3. ~ = No regulatory limits found														
4. Values in italics exceed the GW-1, GW-2, or GW-3 Concentration.														
5. Bolded values exceed the RCGW-1 or RCGW-2 Concentration.														
6. Grey shaded values exceed the UCL Concentration.														
7. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.														
8. UJ = analyte not detected; quantitation limit is an estimated quantity.														

DATA SUMMARY TABLE
Tier I Modified, Stage 2A Reviewed Data
Groundwater Samples
NU Style Site
Franklin, MA

Sample Location							MW-104D		MW-104S		MW-105D		MW-105S	
EPA Sample Number							MW-104D		MW-104S		MW-105D		MW-105S	
Sample Date							08/20/2013		08/20/2013		08/20/2013		08/20/2013	
Labnumber							13H0884-04		13H0884-03		13H0884-06		13H0884-05	
	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units		Qual		Qual		Qual		Qual
SW-846 8260C														
ACETONE	50000	50000	6300	50000	100000	µg/L	500	U	10	U	10	U	40	U
TERT-AMYL METHYL ETHER	~	~	~	~	~	µg/L	25	U	0.5	U	0.5	U	2	U
BENZENE	2000	10000	5	2000	100000	µg/L	50	U	1	U	1	U	4	U
BROMOBENZENE	~	~	1000	10000	~	µg/L	50	U	1	U	1	U	4	U
BROMOCHLOROMETHANE	~	~	~	~	~	µg/L	50	U	1	U	1	U	4	U
BROMODICHLOROMETHANE	6	50000	3	6	100000	µg/L	50	U	1	U	1	U	4	U
BROMOFORM	700	50000	4	700	100000	µg/L	50	U	1	U	1	U	4	U
BROMOMETHANE	7	800	7	7	8000	µg/L	100	UJ	2	UJ	2	UJ	8	UJ
2-BUTANONE (MEK)	50000	50000	4000	50000	100000	µg/L	500	U	10	U	10	U	40	U
N-BUTYLBENZENE	~	~	~	~	~	µg/L	50	U	1	U	1	U	4	U
SEC-BUTYLBENZENE	~	~	~	~	~	µg/L	50	U	1	U	1	U	4	U
TERT-BUTYLBENZENE	~	~	1000	10000	~	µg/L	50	U	1	U	1	U	4	U
TERT-BUTYLETHYL ETHER	~	~	~	~	~	µg/L	25	U	0.5	U	0.5	U	2	U
CARBON DISULFIDE	~	~	1000	10000	~	µg/L	250	U	5	U	5	U	20	U
CARBON TETRACHLORIDE	2	5000	2	2	50000	µg/L	50	U	1	U	1	U	4	U
CHLOROBENZENE	200	1000	100	200	10000	µg/L	50	U	1	U	1	U	4	U
CHLORODIBROMOMETHANE	20	50000	2	20	~	µg/L	25	U	0.5	U	0.5	U	2	U
CHLOROETHANE	~	~	1000	10000	~	µg/L	100	U	2	U	2	U	8	U
CHLOROFORM	50	20000	50	50	100000	µg/L	100	U	2	U	2	U	8	U
CHLOROMETHANE	~	~	1000	10000	~	µg/L	100	UJ	2	UJ	2	UJ	8	UJ
2-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	50	U	1	U	1	U	4	U
4-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	50	U	1	U	1	U	4	U
1,2-DIBROMO-3-CHLOROPROPANE	~	~	100	1000	~	µg/L	100	U	2	U	2	U	8	U
1,2-DIBROMOETHANE (EDB)	2	50000	0.02	2	100000	µg/L	25	U	0.5	U	0.5	U	2	U
DIBROMOMETHANE	~	~	5000	50000	~	µg/L	50	U	1	U	1	U	4	U
1,2-DICHLOROBENZENE	2000	2000	600	2000	20000	µg/L	50	U	1	U	1	U	4	U
1,3-DICHLOROBENZENE	2000	50000	40	2000	100000	µg/L	50	U	1	U	1	U	4	U
1,4-DICHLOROBENZENE	200	8000	5	200	80000	µg/L	50	U	1	U	1	U	4	U
DICHLORODIFLUOROMETHANE	~	~	10000	100000	~	µg/L	100	U	2	U	2	U	8	U
1,1-DICHLOROETHANE	1000	20000	70	1000	100000	µg/L	50	U	1	U	1	U	4	U
1,2-DICHLOROETHANE	5	20000	5	5	100000	µg/L	50	U	1	U	1	U	4	U
1,1-DICHLOROETHYLENE	80	30000	7	80	100000	µg/L	50	U	1	U	1	U	4	U
CIS-1,2-DICHLOROETHYLENE	100	50000	70	100	100000	µg/L	50	U	6.8	U	1	U	4	U
TRANS-1,2-DICHLOROETHYLENE	90	50000	90	90	100000	µg/L	50	U	1	U	1	U	4	U
1,2-DICHLOROPROPANE	3	50000	3	3	100000	µg/L	50	U	1	U	1	U	4	U
1,3-DICHLOROPROPANE	~	~	5000	50000	~	µg/L	25	U	0.5	U	0.5	U	2	U
2,2-DICHLOROPROPANE	~	~	5	9	~	µg/L	50	U	1	U	1	U	4	U
1,1-DICHLOROPROPENE	~	~	0.5	5	~	µg/L	25	U	0.5	U	0.5	U	2	U
CIS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	20	U	0.4	U	0.4	U	1.6	U
TRANS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	20	U	0.4	U	0.4	U	1.6	U
DIETHYL ETHER	~	~	1000	10000	~	µg/L	100	U	2	U	2	U	8	U
DIISOPROPYL ETHER	~	~	1000	10000	~	µg/L	25	U	0.5	U	0.5	U	2	U
1,4-DIOXANE	6000	50000	3	6000	100000	µg/L	2,500	U	50	U	50	U	200	U
ETHYLBENZENE	20000	5000	700	5000	100000	µg/L	50	U	1	U	1	U	4	U
HEXACHLOROBUTADIENE	1	3000	0.6	1	30000	µg/L	25	U	0.5	U	0.5	U	2	U
2-HEXANONE	~	~	1000	10000	~	µg/L	500	U	10	U	10	U	40	U
ISOPROPYLBENZENE	~	~	10000	100000	~	µg/L	50	U	1	U	1	U	4	U
P-ISOPROPYLTOLUENE	~	~	1000	10000	~	µg/L	50	U	1	U	1	U	4	U
METHYL TERT-BUTYL ETHER (MTBE)	50000	50000	70	5000	100000	µg/L	50	U	1	U	1	U	4	U
METHYLENE CHLORIDE	10000	50000	5	10000	100000	µg/L	250	U	5	U	5	U	20	U
4-METHYL-2-PENTANONE (MIBK)	50000	50000	350	50000	100000	µg/L	500	U	10	U	10	U	40	U
NAPHTHALENE	1000	20000	140	1000	100000	µg/L	100	U	2	U	2	U	8	U

DATA SUMMARY TABLE
Tier I Modified, Stage 2A Reviewed Data
Groundwater Samples
NU Style Site
Franklin, MA

Sample Location							MW-104D		MW-104S		MW-105D		MW-105S	
EPA Sample Number							MW-104D		MW-104S		MW-105D		MW-105S	
Sample Date							08/20/2013		08/20/2013		08/20/2013		08/20/2013	
Labnumber							13H0884-04		13H0884-03		13H0884-06		13H0884-05	
	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units		Qual		Qual		Qual		Qual
N-PROPYLBENZENE	~	~	1000	10000	~	µg/L	50	U	1	U	1	U	4	U
STYRENE	100	6000	100	100	60000	µg/L	50	U	1	U	1	U	4	U
1,1,1,2-TETRACHLOROETHANE	10	50000	5	10	100000	µg/L	50	U	1	U	1	U	4	U
1,1,2,2-TETRACHLOROETHANE	9	50000	2	9	100000	µg/L	25	U	0.5	U	0.5	U	2	U
TETRACHLOROETHYLENE	50	30000	5	50	100000	µg/L	1,700		42		25		86	
TETRAHYDROFURAN	~	~	5000	50000	~	µg/L	100	U	2	U	2	U	8	U
TOLUENE	50000	40000	1000	40000	100000	µg/L	50	U	1	U	1	U	4	U
1,2,3-TRICHLOROBENZENE	~	~	~	~	~	µg/L	100	U	2	U	2	U	8	U
1,2,4-TRICHLOROBENZENE	2000	50000	70	2000	100000	µg/L	50	U	1	U	1	U	4	U
1,1,1-TRICHLOROETHANE	4000	20000	200	4000	100000	µg/L	50	U	1	U	1	U	4	U
1,1,2-TRICHLOROETHANE	900	50000	5	900	100000	µg/L	50	U	1	U	1	U	4	U
TRICHLOROETHYLENE	30	5000	5	30	50000	µg/L	850		15		15		16	
TRICHLOROFLUOROMETHANE	~	~	10000	100000	~	µg/L	100	U	2	U	2	U	8	U
1,2,3-TRICHLOROPROPANE	~	~	1000	10000	~	µg/L	100	U	2	U	2	U	8	U
1,2,4-TRIMETHYLBENZENE	~	~	10000	100000	~	µg/L	50	U	1	U	1	U	4	U
1,3,5-TRIMETHYLBENZENE	~	~	100	1000	~	µg/L	50	U	1	U	1	U	4	U
VINYL CHLORIDE	2	50000	2	2	100000	µg/L	100	U	2	U	2	U	8	U
M/P-XYLENE	9000	5000	5000	5000	100000	µg/L	100	U	2	U	2	U	8	U
O-XYLENE	9000	5000	5000	5000	100000	µg/L	50	U	1	U	1	U	4	U
NOTES:														
1. U = Not detected above the lab reporting limits shown in parenthesis.														
2. NT = Not tested.														
3. ~ = No regulatory limits found														
4. Values in italics exceed the GW-1, GW-2, or GW-3 Concentration.														
5. Bolded values exceed the RCGW-1 or RCGW-2 Concentration.														
6. Grey shaded values exceed the UCL Concentration.														
7. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.														
8. UJ = analyte not detected; quantitation limit is an estimated quantity.														

DATA SUMMARY TABLE
Tier I Modified, Stage 2A Reviewed Data
Groundwater Samples
NU Style Site
Franklin, MA

Sample Location							MW-106D MW-106D		MW-106S MW-106S		MW-14 MW-14		MW-17 MW-17	
EPA Sample Number							08/21/2013		08/21/2013		08/21/2013		08/21/2013	
Sample Date							13H0884-16		13H0884-15		13H0884-10		13H0884-17	
Labnumber	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units	Qual		Qual		Qual		Qual	
SW-846 8260C														
ACETONE	50000	50000	6300	50000	100000	µg/L	10	U	10	U	10	U	10	U
TERT-AMYL METHYL ETHER	~	~	~	~	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
BENZENE	2000	10000	5	2000	100000	µg/L	1	U	1	U	1	U	1	U
BROMOBENZENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
BROMOCHLOROMETHANE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
BROMODICHLOROMETHANE	6	50000	3	6	100000	µg/L	1	U	1	U	1	U	1	U
BROMOFORM	700	50000	4	700	100000	µg/L	1	U	1	U	1	U	1	U
BROMOMETHANE	7	800	7	7	8000	µg/L	2	UJ	2	UJ	2	UJ	2	UJ
2-BUTANONE (MEK)	50000	50000	4000	50000	100000	µg/L	10	U	10	U	10	U	10	U
N-BUTYLBENZENE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
SEC-BUTYLBENZENE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
TERT-BUTYLBENZENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
TERT-BUTYLETHYL ETHER	~	~	~	~	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
CARBON DISULFIDE	~	~	1000	10000	~	µg/L	5	U	5	U	5	U	5	U
CARBON TETRACHLORIDE	2	5000	2	2	50000	µg/L	1	U	1	U	1	U	1	U
CHLOROBENZENE	200	1000	100	200	10000	µg/L	1	U	1	U	1	U	1	U
CHLORODIBROMOMETHANE	20	50000	2	20	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
CHLOROETHANE	~	~	1000	10000	~	µg/L	2	U	2	U	2	U	2	U
CHLOROFORM	50	20000	50	50	100000	µg/L	2	U	2	U	2	U	2	U
CHLOROMETHANE	~	~	1000	10000	~	µg/L	2	UJ	2	UJ	2	UJ	2	UJ
2-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
4-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
1,2-DIBROMO-3-CHLOROPROPANE	~	~	100	1000	~	µg/L	2	U	2	U	2	U	2	U
1,2-DIBROMOETHANE (EDB)	2	50000	0.02	2	100000	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
DIBROMOMETHANE	~	~	5000	50000	~	µg/L	1	U	1	U	1	U	1	U
1,2-DICHLOROBENZENE	2000	2000	600	2000	20000	µg/L	1	U	1	U	1	U	1	U
1,3-DICHLOROBENZENE	2000	50000	40	2000	100000	µg/L	1	U	1	U	1	U	1	U
1,4-DICHLOROBENZENE	200	8000	5	200	80000	µg/L	1	U	1	U	1	U	1	U
DICHLORODIFLUOROMETHANE	~	~	10000	100000	~	µg/L	2	U	2	U	2	UJ	2	U
1,1-DICHLOROETHANE	1000	20000	70	1000	100000	µg/L	1	U	1	U	1	U	1	U
1,2-DICHLOROETHANE	5	20000	5	5	100000	µg/L	1	U	1	U	1	U	1	U
1,1-DICHLOROETHYLENE	80	30000	7	80	100000	µg/L	1	U	1	U	1	U	1	U
CIS-1,2-DICHLOROETHYLENE	100	50000	70	100	100000	µg/L	1	U	1	U	1	U	1	U
TRANS-1,2-DICHLOROETHYLENE	90	50000	90	90	100000	µg/L	1	U	1	U	1	U	1	U
1,2-DICHLOROPROPANE	3	50000	3	3	100000	µg/L	1	U	1	U	1	U	1	U
1,3-DICHLOROPROPANE	~	~	5000	50000	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
2,2-DICHLOROPROPANE	~	~	5	9	~	µg/L	1	UJ	1	UJ	1	UJ	1	UJ
1,1-DICHLOROPROPENE	~	~	0.5	5	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
CIS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	0.4	U	0.4	U	0.4	U	0.4	U
TRANS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	0.4	U	0.4	U	0.4	U	0.4	U
DIETHYL ETHER	~	~	1000	10000	~	µg/L	2	U	2	U	2	U	2	U
DIISOPROPYL ETHER	~	~	1000	10000	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
1,4-DIOXANE	6000	50000	3	6000	100000	µg/L	50	U	50	U	50	U	50	U
ETHYLBENZENE	20000	5000	700	5000	100000	µg/L	1	U	1	U	1	U	1	U
HEXACHLOROBUTADIENE	1	3000	0.6	1	30000	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
2-HEXANONE	~	~	1000	10000	~	µg/L	10	U	10	U	10	U	10	U
ISOPROPYLBENZENE	~	~	10000	100000	~	µg/L	1	U	1	U	1	U	1	U
P-ISOPROPYLTOLUENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
METHYL TERT-BUTYL ETHER (MTBE)	50000	50000	70	5000	100000	µg/L	1	U	1	U	1	U	1	U
METHYLENE CHLORIDE	10000	50000	5	10000	100000	µg/L	5	U	5	U	5	U	5	U
4-METHYL-2-PENTANONE (MIBK)	50000	50000	350	50000	100000	µg/L	10	U	10	U	10	U	10	U
NAPHTHALENE	1000	20000	140	1000	100000	µg/L	2	UJ	2	UJ	2	U	2	U

DATA SUMMARY TABLE
Tier I Modified, Stage 2A Reviewed Data
Groundwater Samples
NU Style Site
Franklin, MA

Sample Location							MW-106D		MW-106S		MW-14		MW-17	
EPA Sample Number							MW-106D		MW-106S		MW-14		MW-17	
Sample Date							08/21/2013		08/21/2013		08/21/2013		08/21/2013	
Labnumber							13H0884-16		13H0884-15		13H0884-10		13H0884-17	
	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units		Qual		Qual		Qual		Qual
N-PROPYLBENZENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
STYRENE	100	6000	100	100	60000	µg/L	1	UJ	1	UJ	1	UJ	1	UJ
1,1,1,2-TETRACHLOROETHANE	10	50000	5	10	100000	µg/L	1	U	1	U	1	U	1	U
1,1,2,2-TETRACHLOROETHANE	9	50000	2	9	100000	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
TETRACHLOROETHYLENE	50	30000	5	50	100000	µg/L	1	U	1	U	1.8	U	1	U
TETRAHYDROFURAN	~	~	5000	50000	~	µg/L	2	U	2	U	2	U	2	U
TOLUENE	50000	40000	1000	40000	100000	µg/L	1	U	1	U	1	U	1	U
1,2,3-TRICHLOROBENZENE	~	~	~	~	~	µg/L	2	UJ	2	UJ	2	U	2	U
1,2,4-TRICHLOROBENZENE	2000	50000	70	2000	100000	µg/L	1	U	1	U	1	U	1	U
1,1,1-TRICHLOROETHANE	4000	20000	200	4000	100000	µg/L	1	U	1	U	1	U	1	U
1,1,2-TRICHLOROETHANE	900	50000	5	900	100000	µg/L	1	U	1	U	1	U	1	U
TRICHLOROETHYLENE	30	5000	5	30	50000	µg/L	1	U	1	U	3.7	U	1	U
TRICHLOROFLUOROMETHANE	~	~	10000	100000	~	µg/L	2	U	2	U	2	U	2	U
1,2,3-TRICHLOROPROPANE	~	~	1000	10000	~	µg/L	2	U	2	U	2	U	2	U
1,2,4-TRIMETHYLBENZENE	~	~	10000	100000	~	µg/L	1	U	1	U	1	U	1	U
1,3,5-TRIMETHYLBENZENE	~	~	100	1000	~	µg/L	1	U	1	U	1	U	1	U
VINYL CHLORIDE	2	50000	2	2	100000	µg/L	2	U	2	U	2	U	2	U
M/P-XYLENE	9000	5000	5000	5000	100000	µg/L	2	U	2	U	2	U	2	U
O-XYLENE	9000	5000	5000	5000	100000	µg/L	1	U	1	U	1	U	1	U
NOTES:														
1. U = Not detected above the lab reporting limits shown in parenthesis.														
2. NT = Not tested.														
3. ~ = No regulatory limits found														
4. Values in italics exceed the GW-1, GW-2, or GW-3 Concentration.														
5. Bolded values exceed the RCGW-1 or RCGW-2 Concentration.														
6. Grey shaded values exceed the UCL Concentration.														
7. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.														
8. UJ = analyte not detected; quantitation limit is an estimated quantity.														

DATA SUMMARY TABLE
Tier I Modified, Stage 2A Reviewed Data
Groundwater Samples
NU Style Site
Franklin, MA

Sample Location							MW-2		MW-3	
EPA Sample Number							MW-2		MW-3	
Sample Date							08/21/2013		08/21/2013	
Labnumber							13H0884-12		13H0884-13	
	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units		Qual		Qual
SW-846 8260C										
ACETONE	50000	50000	6300	50000	100000	µg/L	10	U	10	U
TERT-AMYL METHYL ETHER	~	~	~	~	~	µg/L	0.5	U	0.5	U
BENZENE	2000	10000	5	2000	100000	µg/L	1	U	1	U
BROMOBENZENE	~	~	1000	10000	~	µg/L	1	U	1	U
BROMOCHLOROMETHANE	~	~	~	~	~	µg/L	1	U	1	U
BROMODICHLOROMETHANE	6	50000	3	6	100000	µg/L	1	U	1	U
BROMOFORM	700	50000	4	700	100000	µg/L	1	U	1	U
BROMOMETHANE	7	800	7	7	8000	µg/L	2	UJ	2	UJ
2-BUTANONE (MEK)	50000	50000	4000	50000	100000	µg/L	10	U	10	U
N-BUTYLBENZENE	~	~	~	~	~	µg/L	1	U	1	U
SEC-BUTYLBENZENE	~	~	~	~	~	µg/L	1	U	1	U
TERT-BUTYLBENZENE	~	~	1000	10000	~	µg/L	1	U	1	U
TERT-BUTYLETHYL ETHER	~	~	~	~	~	µg/L	0.5	U	0.5	U
CARBON DISULFIDE	~	~	1000	10000	~	µg/L	5	U	5	U
CARBON TETRACHLORIDE	2	5000	2	2	50000	µg/L	1	U	1	U
CHLOROBENZENE	200	1000	100	200	10000	µg/L	1	U	1	U
CHLORODIBROMOMETHANE	20	50000	2	20	~	µg/L	0.5	U	0.5	U
CHLOROETHANE	~	~	1000	10000	~	µg/L	2	U	2	U
CHLOROFORM	50	20000	50	50	100000	µg/L	2	U	2	U
CHLOROMETHANE	~	~	1000	10000	~	µg/L	2	UJ	2	UJ
2-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	1	U	1	U
4-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	1	U	1	U
1,2-DIBROMO-3-CHLOROPROPANE	~	~	100	1000	~	µg/L	2	U	2	U
1,2-DIBROMOETHANE (EDB)	2	50000	0.02	2	100000	µg/L	0.5	U	0.5	U
DIBROMOMETHANE	~	~	5000	50000	~	µg/L	1	U	1	U
1,2-DICHLOROBENZENE	2000	2000	600	2000	20000	µg/L	1	U	1	U
1,3-DICHLOROBENZENE	2000	50000	40	2000	100000	µg/L	1	U	1	U
1,4-DICHLOROBENZENE	200	8000	5	200	80000	µg/L	1	U	1	U
DICHLORODIFLUOROMETHANE	~	~	10000	100000	~	µg/L	2	U	2	U
1,1-DICHLOROETHANE	1000	20000	70	1000	100000	µg/L	1	U	1	U
1,2-DICHLOROETHANE	5	20000	5	5	100000	µg/L	1	U	1	U
1,1-DICHLOROETHYLENE	80	30000	7	80	100000	µg/L	1	U	1	U
CIS-1,2-DICHLOROETHYLENE	100	50000	70	100	100000	µg/L	7.2	U	1	U
TRANS-1,2-DICHLOROETHYLENE	90	50000	90	90	100000	µg/L	1	U	1	U
1,2-DICHLOROPROPANE	3	50000	3	3	100000	µg/L	1	U	1	U
1,3-DICHLOROPROPANE	~	~	5000	50000	~	µg/L	0.5	U	0.5	U
2,2-DICHLOROPROPANE	~	~	5	9	~	µg/L	1	UJ	1	UJ
1,1-DICHLOROPROPENE	~	~	0.5	5	~	µg/L	0.5	U	0.5	U
CIS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	0.4	U	0.4	U
TRANS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	0.4	U	0.4	U
DIETHYL ETHER	~	~	1000	10000	~	µg/L	2	U	2	U
DIISOPROPYL ETHER	~	~	1000	10000	~	µg/L	0.5	U	0.5	U
1,4-DIOXANE	6000	50000	3	6000	100000	µg/L	50	U	50	U
ETHYLBENZENE	20000	5000	700	5000	100000	µg/L	1	U	1	U
HEXACHLOROBUTADIENE	1	3000	0.6	1	30000	µg/L	0.5	U	0.5	U
2-HEXANONE	~	~	1000	10000	~	µg/L	10	U	10	U
ISOPROPYLBENZENE	~	~	10000	100000	~	µg/L	1	U	1	U
P-ISOPROPYLTOLUENE	~	~	1000	10000	~	µg/L	1	U	1	U
METHYL TERT-BUTYL ETHER (MTBE)	50000	50000	70	5000	100000	µg/L	1	U	1	U
METHYLENE CHLORIDE	10000	50000	5	10000	100000	µg/L	5	U	5	U
4-METHYL-2-PENTANONE (MIBK)	50000	50000	350	50000	100000	µg/L	10	U	10	U
NAPHTHALENE	1000	20000	140	1000	100000	µg/L	2	U	2	U

DATA SUMMARY TABLE
Tier I Modified, Stage 2A Reviewed Data
Groundwater Samples
NU Style Site
Franklin, MA

Sample Location							MW-2		MW-3	
EPA Sample Number							MW-2		MW-3	
Sample Date							08/21/2013		08/21/2013	
Labnumber							13H0884-12		13H0884-13	
	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units		Qual		Qual
N-PROPYLBENZENE	~	~	1000	10000	~	µg/L	1	U	1	U
STYRENE	100	6000	100	100	60000	µg/L	1	UJ	1	UJ
1,1,1,2-TETRACHLOROETHANE	10	50000	5	10	100000	µg/L	1	U	1	U
1,1,2,2-TETRACHLOROETHANE	9	50000	2	9	100000	µg/L	0.5	U	0.5	U
TETRACHLOROETHYLENE	50	30000	5	50	100000	µg/L	18		24	
TETRAHYDROFURAN	~	~	5000	50000	~	µg/L	2	U	2	U
TOLUENE	50000	40000	1000	40000	100000	µg/L	1	U	1	U
1,2,3-TRICHLOROBENZENE	~	~	~	~	~	µg/L	2	U	2	U
1,2,4-TRICHLOROBENZENE	2000	50000	70	2000	100000	µg/L	1	U	1	U
1,1,1-TRICHLOROETHANE	4000	20000	200	4000	100000	µg/L	1	U	1	U
1,1,2-TRICHLOROETHANE	900	50000	5	900	100000	µg/L	1	U	1	U
TRICHLOROETHYLENE	30	5000	5	30	50000	µg/L	17		16	
TRICHLOROFLUOROMETHANE	~	~	10000	100000	~	µg/L	2	U	2	U
1,2,3-TRICHLOROPROPANE	~	~	1000	10000	~	µg/L	2	U	2	U
1,2,4-TRIMETHYLBENZENE	~	~	10000	100000	~	µg/L	1	U	1	U
1,3,5-TRIMETHYLBENZENE	~	~	100	1000	~	µg/L	1	U	1	U
VINYL CHLORIDE	2	50000	2	2	100000	µg/L	2	U	2	U
M/P-XYLENE	9000	5000	5000	5000	100000	µg/L	2	U	2	U
O-XYLENE	9000	5000	5000	5000	100000	µg/L	1	U	1	U
NOTES:										
1. U = Not detected above the lab reporting limits shown in parenthesis.										
2. NT = Not tested.										
3. ~ = No regulatory limits found										
4. Values in italics exceed the GW-1, GW-2, or GW-3 Concentration.										
5. Bolded values exceed the RCGW-1 or RCGW-2 Concentration.										
6. Grey shaded values exceed the UCL Concentration.										
7. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.										
8. UJ = analyte not detected; quantitation limit is an estimated quantity.										

Generic Data Review Checklist

Project: NUSyle
Project #: 80078
Case#: 0120S
Date: 9/5/13
Methods: 8260
Laboratory: Con-Test
SDG: D05480, 13H0884
Reviewer: Gail DeRuzzo

1. Case Narrative and Data Package Completeness (COC and Analyte List Review)

GW

D05480-D05505 (18 samples) – DAS sample IDs were not used.

2. Holding Time and Sample Preservation Compliance

OK

3. Lab and Field Blanks

No trip blank submitted.

4. Laboratory Control Samples

VOCS: B079540 – 1,2,3-TCB, naph – out high – samples ND – no impact

CM low – samples are biased low (samples 9RE, 11RE, 14RE, 15, 16) (DUP-1, 101S, 101D, 106S, 106D)

B079445 – BM, CM out low (samples 1-6) (102S, 102D, 104S, 104D, 105S, 105D)

B079447 – BM, CM, 2,2-DCP, styrene, low (samples 8-18) (103D, DUP-1, 14, 101S, 2, 3, 101D, 106S, 106D, 17, 1)

B079651 – BM, CM, 2,2-DCP, TCFM, VC low (sample 7) (MW103S)

5. Field Duplicate Precision

DUP-1/MW-101D – results >RL within limits <30%

6. Laboratory Duplicate Precision

NA

7. Matrix Spikes

VOCs (sample 10 MW-14) – low – 2,2-DCP, BM, CM, DCDFM – biased low

8. Surrogate Spikes

ok

9. Internal Standards

ok

10. Performance Evaluation Samples

NA

11. Reporting Limits

Samples 02 (MW-102D), 4 (MW-104D), 5 (MW-105S), 8 (MW-103D), and 9 (DUP-1) required dilution due to high concentrations
CS2 and MeCl2 reported to lowest cal pt, not meeting CAM RL.

12. Calibration Issues

VOCs: low bias in CCV – all samples affected: 1,4-dioxane, 2,2-DCP, acetone, BM, CM, DCDFM, TCFM
RF low for 1,4-dioxane
CCV high bias for 1,2,3-TCB, naph – no impact; samples ND.

13. Other

**con-test**

ANALYTICAL LABORATORY

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

www.contestlabs.com

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East longmeadow, MA 01028Page 1 of 2

1340884

Rev 04.05.12

Company Name: Nosis EngineeringTelephone: 978-683-0891Address: 585 MIDWESSEX STProject # 8007803LOWELL MA 01851

Client PO#

Attention: JEFF BRUNELLE

DATA DELIVERY (check all that apply)

Project Location: NU-STYLE FRANKLIN MA☐ FAX ☐ EMAIL ☐ WEBSITESampled By: JNB, JCM, DMC

Fax #

Email: jbrunelle@nosiseng.com

Format:

☒ PDF ☒ EXCEL ☐ GIS☐ OTHER☐ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)

☐ yes ☐ no proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection		Composite	Grab	*Matrix Code	Conc Code												
		Beginning Date/Time	Ending Date/Time																
01	MW-102S	8-20	1045		✓	GW	U/M	X											
02	MW-102D		955		✓			X											
03	MW-104S		1200		✓			X											
04	MW-104D		1145		✓			X											
05	MW-105S		1330		✓			X											
06	MW-105D		1345		✓			X											
07	MW-103S		1520		✓			X											
08	MW-103D		1520		✓			X											
09	DUP-1	8-21	2400		✓			X											
10	MS/MSD (MW-14)				✓			X											

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by (signature)

Date/Time:

Turnaround ^{††}☒ 7-Day☐ 10-Day☐ OtherRUSH [†]☐ 24-Hr ☐ 48-Hr☐ 72-Hr ☐ 4-Day[†] Require lab approval

Detection Limit Requirements

Massachusetts:

Connecticut:

Other:

Is your project MCP or RCP?

☐ MCP Form Required☐ RCP Form Required☐ MA State DW Form Required PWSID #NELAC & AIHA-LAP, LLC
Accredited

WBE/DBE Certified

^{††} TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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ANALYTICAL LABORATORY

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Email: info@contestlabs.com

www.contestlabs.com

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1340884
Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028

Page 2 of 2

Company Name: Nobis

Telephone: _____

Address: _____

Project # 80078.03

Client PO# _____

Attention: JEFF Brunelle

DATA DELIVERY (check all that apply)

☐ FAX ☐ EMAIL ☐ WEBSITE

Project Location: NU-STYLE FRANKLIN

Fax # _____

Sampled By: JNB, DWK, JCM

Email: _____

Project Proposal Provided? (for billing purposes)

☐ yes _____ proposal date

Format:

☐ PDF ☐ EXCEL ☐ GIS

☐ OTHER _____

☐ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection		Composite	Grab	*Matrix Code	Conc Code	ANALYSIS REQUESTED											
		Beginning Date/Time	Ending Date/Time																
11	MW-101S	8-21	1120		✓	GW	V/L	✓											
10	MW-14		1040		✓			✓											
12	MW-2		1510		✓			✓											
13	MW-3		1515		✓			✓											
14	MW-101D		1105		✓			✓											
15	MW-106S		1308		✓			✓											
16	MW-106D		1320		✓			✓											
17	MW-12-17		1450		✓			✓											
18	MW-1		1455		✓			✓											

Comments: _____

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) _____

Date/Time: _____

Turnaround ^{††}

☒ 7-Day

☐ 10-Day

☐ Other _____

RUSH [†]

☐ 24-Hr ☐ 48-Hr

☐ 72-Hr ☐ 14-Day

[†] Require lab approval

Detection Limit Requirements

Massachusetts: _____

Connecticut: _____

Other: _____

Is your project MCP or RCP?

☐ MCP Form Required

☐ RCP Form Required

☐ MA State DW Form Required PWSID # _____



NELAC & AIHA-LAP, LLC
Accredited

WBE/DBE Certified

^{††} TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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Engineering a Sustainable Future

Nobis Engineering, Inc. | NH | MA | NJ | VT | MD

May 28, 2013
Nobis File No. 80078

Mr. Jim Byrne
EPA-New England Region I
5 Post Office Square
Suite 100, Mailcode OSRR07-4
Boston, MA 02109-3912

Re: Contract No.: EP-S1-06-03
Task Order No. 0078-SI-BZ-0100
Case No. 0116S, Sample Delivery Group (SDG) No. D05367, Lab Nos.:13E0614
Con-Test Analytical Laboratory, East Longmeadow, Massachusetts
NU Style Site
Franklin, Massachusetts

Tier I Modified Organic and Inorganic Data Validation

VOCs, PP Metals:

14/GW: D05367-D05380
1/Field Duplicate: D05370/D05380
1/Trip Blank: D05381

VOCs, PCBs, RCRA Metals, GRO, DRO, Reactivity, Corrosivity, Ignitability:
1/IDW: D05382

Dear Mr. Byrne:

Nobis Engineering, Inc. performed a Tier I Modified data validation in accordance with the EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Specific Guidance/Procedures, (April, 2013) on the organic and inorganic analytical data for 14 groundwater samples, one investigative-derived waste (IDW) sample, and one trip blank collected by Nobis Engineering, Inc. at the NU Style Site located in Franklin, Massachusetts. The groundwater samples were analyzed for volatile organic compounds (VOCs) by SW-846 Method 8260C and Priority Pollutant (PP) metals plus barium and vanadium by SW-846 Methods 6020A/7470A. The IDW sample was analyzed for VOCs, polychlorinated biphenyls (PCBs) by SW-846 Method 8082A, gasoline range organics (GRO) and diesel range organics (DRO) by SW-846 Method 8010C, Resource Conservation and Recovery Act (RCRA) list metals by SW-846 Methods 6020A/7470A, reactive cyanide and sulfide by SW-846 Methods 9014 and 9030A, respectively, corrosivity (pH) by Standard Methods SM 4500-H B, and ignitability by SW-846 Method 1010. DAS Technical Specification DAS-RAC2-072 requirements were also followed by the laboratory, which required Massachusetts Contingency Plan (MCP) protocols. A Tier I modified data validation was deemed sufficient at this time.

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- * • Data Completeness
- * • Preservation and Technical Holding Times
- * • Blanks
- Laboratory Control Samples
- * • Field Duplicates
- Matrix Spike/Matrix Spike Duplicate
- * • Surrogate Compounds
- * • Internal Standards
- * • Reported Quantitation Limits

* All criteria were met for this parameter.

NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The objective for the sampling activity is to assess the extent of contaminant impacts to bedrock groundwater in the area of the former boiler area. The results of the investigation are intended to support a Response Action Outcome (RAO) that would be prepared by an environmental consultant working for the Town. Soil and groundwater data collected during the course of the TBA will be compared with applicable Massachusetts Contingency Plan (MCP) Method 1 Standards to assess potential risks to human health and the environment associated with suspected contaminants of concern (COCs).

Analytes, groundwater samples and groundwater standards exceeded are as follows:

<u>Analyte</u>	<u>RCGW Standards</u>	<u>GW-2 Standard</u>
Beryllium	MW102D, MW016D, MW014D	None
1,1-Dichloroethene	MW101D	None
Tetrachloroethene	MW101S, MW101D, MW103D, MW103S, MW014D, MW104S, MW105D, MW015S	MW101D, MW103D, MW014D, MW104S, MW015S
Trichloroethene	MW101D, MW101S, MW103D, MW014D, MW104S, MW105D, MW015S	MW101D, MW101S, MW103D, MW014D

No TCLP IDW standards were exceeded.

Data are of sufficient quality for the project objectives. Relative biases are noted below based on criteria evaluated.

Data Completeness:

The data package was complete. All samples were analyzed for requested analyses.

Data presented in the Summary Tables include qualifiers assigned by the laboratory. Qualifications for these parameters were not assessed under the Tier I modified validation.

Laboratory Control Samples:

VOCs:

For batch B073417, methylene chloride, 1,2,3-trichlorobenzene, 1,2-dibromo-3-chloropropane, and naphthalene were recovered above the upper control limit in the LCS and/or LCSD. The associated sample results were non-detect, therefore, there was no impact on the data.

Matrix Spikes:

Matrix spike/matrix spike duplicates (MS/MSDs) were analyzed for VOCs and metals on sample D05367.

VOCs:

The following analytes were recovered low in the MS and/or MSD: bromomethane, chloromethane, dichlorodifluoromethane, and 1,4-dioxane. Results for these analytes in sample D05367 should be considered biased low.

Please contact me at (978) 703-6021 or gderuzzo@nobiseng.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS ENGINEERING, INC.



Gail DeRuzzo
Lead Chemist

Tables: Data Summary Tables

Enclosures: Data Review Checklist
Chains-of-Custody

DATA SUMMARY TABLE
Groundwater Results
NU Style Site
Franklin, MA

Sample Location EPA Sample Number	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units	GW-MW14 D05367 05/15/2013 13E0614-01	Qual	GW-MW101S D05368 05/15/2013 13E0614-02	Qual	GW-MW101D D05369 05/15/2013 13E0614-03	Qual	GW-MW102S D05370 05/15/2013 13E0614-04	Qual
Labnumber	SW-846 6020A													
ANTIMONY	~	8000	6	8000	80000	µg/L	1	U	1	U	1	U	1.3	U
ARSENIC	~	900	10	900	9000	µg/L	0.4	U	0.4	U	0.42	U	1.4	U
BARIUM	~	50000	2000	50000	1000000	µg/L	130	U	170	U	200	U	130	U
BERYLLIUM	~	200	4	200	2000	µg/L	0.95	U	1.1	U	0.5	U	0.4	U
CADMIUM	~	4	4	4	50	µg/L	0.5	U	1	U	0.5	U	0.5	U
CHROMIUM	~	300	100	300	3000	µg/L	1	U	1	U	1	U	1	U
COPPER	~	~	10000	100000	~	µg/L	29	U	20	U	27	U	14	U
LEAD	~	10	10	10	150	µg/L	1	U	1	U	1	U	1	U
NICKEL	~	200	100	200	2000	µg/L	5	U	8.9	U	10	U	70	U
SELENIUM	~	100	50	100	1000	µg/L	5	U	5	U	5	U	5	U
SILVER	~	7	7	7	1000	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
THALLIUM	~	3000	2	3000	30000	µg/L	0.2	U	0.2	U	0.2	U	0.2	U
VANADIUM	~	4000	30	4000	40000	µg/L	5	U	5	U	5	U	5	U
ZINC	~	900	900	900	50000	µg/L	11	U	200	U	270	U	12	U
SW-846 7470A														
MERCURY	~	0.02	0.002	0.02	0.2	mg/L	0.0001	U	0.0001	U	0.0001	U	0.0001	U
SW-846 8260C														
ACETONE	50000	50000	6300	50000	100000	µg/L	10	U	10	U	10	U	10	U
TERT-AMYL METHYL ETHER	~	~	~	~	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
BENZENE	2000	10000	5	2000	100000	µg/L	1	U	1	U	1	U	1	U
BROMOBENZENE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
BROMODICHLOROMETHANE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
BROMODICHLOROMETHANE	6	50000	3	6	100000	µg/L	1	U	1	U	1	U	1	U
BROMOFORM	700	50000	4	700	100000	µg/L	1	U	1	U	1	U	1	U
BROMOMETHANE	7	800	7	7	8000	µg/L	2	U	2	U	2	U	2	U
2-BUTANONE (MEK)	50000	50000	4000	50000	100000	µg/L	10	U	10	U	10	U	10	U
N-BUTYL BENZENE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
SEC-BUTYL BENZENE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
TERT-BUTYL BENZENE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
TERT-BUTYLETHYL ETHER	~	~	~	~	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
CARBON DISULFIDE	~	~	~	~	~	µg/L	5	U	5	U	5	U	5	U
CARBON TETRACHLORIDE	2	5000	2	2	50000	µg/L	1	U	1	U	1	U	1	U
CHLOROBENZENE	200	1000	100	200	10000	µg/L	1	U	1	U	1	U	1	U
CHLORODIBROMOMETHANE	20	50000	2	20	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
CHLOROETHANE	~	~	~	~	~	µg/L	2	U	2	U	2	U	2	U
CHLOROFORM	50	20000	50	50	100000	µg/L	2	U	2	U	2	U	2	U
CHLOROMETHANE	~	~	~	~	~	µg/L	2	U	2	U	2	U	2	U
2-CHLOROTOLUENE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
4-CHLOROTOLUENE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
1,2-DIBROMO-3-CHLOROPROPANE	~	~	~	~	~	µg/L	2	U	2	U	2	U	2	U
EDB	~	~	~	~	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
DIBROMOMETHANE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
1,2-DICHLOROBENZENE	2000	20000	600	2000	20000	µg/L	1	U	1	U	1	U	1	U
1,3-DICHLOROBENZENE	2000	50000	40	2000	100000	µg/L	1	U	1	U	1	U	1	U
1,4-DICHLOROBENZENE	200	8000	5	200	80000	µg/L	1	U	1	U	1	U	1	U
DICHLORODIFLUOROMETHANE	~	~	~	~	~	µg/L	2	U	2	U	2	U	2	U
1,1-DICHLOROETHANE	1000	20000	70	1000	100000	µg/L	1	U	20	U	19	U	1	U
1,2-DICHLOROETHANE	5	20000	5	5	100000	µg/L	1	U	1	U	1	U	1	U
1,1-DICHLOROETHYLENE	80	30000	7	80	100000	µg/L	1	U	6.9	U	7.5	U	1	U
CIS-1,2-DICHLOROETHYLENE	100	50000	70	100	100000	µg/L	1	U	3.5	U	6.3	U	1	U
TRANS-1,2-DICHLOROETHYLENE	90	50000	90	90	100000	µg/L	1	U	1	U	1	U	1	U
1,2-DICHLOROPROPANE	3	50000	3	3	100000	µg/L	1	U	1	U	1	U	1	U
1,3-DICHLOROPROPANE	~	~	~	~	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
2,2-DICHLOROPROPANE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U

DATA SUMMARY TABLE
Groundwater Results
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Sample Location	Sample Date	Lab Number	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units	GW-MW14 D05367 05/15/2013 13E0614-01	GW-MW101S D05368 05/15/2013 13E0614-02	GW-MW101D D05369 05/15/2013 13E0614-03	GW-MW102S D05370 05/15/2013 13E0614-04
Sample Name												
Lab Number												
1,1-DICHLOROPROPENE	~	~	0.5	5	~	~	~	µg/L	0.5	U	0.5	U
CIS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	~	2000	µg/L	0.4	U	0.4	U
TRANS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	~	2000	µg/L	0.4	U	0.4	U
DIETHYL ETHER	~	~	1000	10000	~	~	~	µg/L	2	U	2	U
DIISOPROPYL ETHER	~	~	1000	10000	~	~	~	µg/L	0.5	U	0.5	U
1,4-DIOXANE	6000	50000	3	6000	100000	~	100000	µg/L	50	U	50	U
ETHYLBENZENE	20000	5000	700	5000	100000	~	100000	µg/L	1	U	1	U
HEXACHLOROBUTADIENE	1	3000	0.6	1	30000	~	30000	µg/L	0.5	U	0.5	U
2-HEXANONE	~	~	1000	10000	~	~	~	µg/L	10	U	10	U
ISOPROPYLBENZENE	~	~	10000	100000	~	~	~	µg/L	1	U	1	U
P-ISOPROPYLTOLUENE	~	~	1000	10000	~	~	~	µg/L	1	U	1	U
MTBE	50000	50000	70	5000	100000	~	100000	µg/L	1	U	1.1	U
METHYLENE CHLORIDE	10000	50000	5	10000	100000	~	100000	µg/L	5	U	5	U
MIBK	50000	50000	350	50000	100000	~	100000	µg/L	10	U	10	U
NAPHTHALENE	1000	20000	140	1000	100000	~	100000	µg/L	2	U	2	U
N-PROPYLBENZENE	~	~	1000	10000	~	~	~	µg/L	1	U	1	U
STYRENE	100	6000	100	100	60000	~	60000	µg/L	1	U	1	U
1,1,1,2-TETRACHLOROETHANE	10	50000	5	10	100000	~	100000	µg/L	0.5	U	0.5	U
1,1,2,2-TETRACHLOROETHANE	9	50000	2	9	100000	~	100000	µg/L	1.5	U	1,600	U
TETRACHLOROETHYLENE	50	30000	5	50	100000	~	100000	µg/L	2	U	2	U
TETRAHYDROFURAN	~	~	5000	50000	~	~	~	µg/L	1	U	1	U
TOLUENE	50000	40000	1000	40000	100000	~	100000	µg/L	1	U	1	U
1,2,3-TRICHLOROBENZENE	~	~	~	~	~	~	~	µg/L	2	U	2	U
1,2,4-TRICHLOROBENZENE	2000	50000	70	2000	100000	~	100000	µg/L	1	U	1	U
1,1,1-TRICHLOROETHANE	4000	20000	200	4000	100000	~	100000	µg/L	1	U	57	U
1,1,2-TRICHLOROETHANE	900	50000	5	900	100000	~	100000	µg/L	1	U	1	U
TRICHLOROETHYLENE	30	5000	5	30	50000	~	50000	µg/L	2.7	U	1,600	U
TRICHLOROFLUOROMETHANE	~	~	10000	100000	~	~	~	µg/L	2	U	2	U
1,2,3-TRICHLOROPROPANE	~	~	1000	10000	~	~	~	µg/L	2	U	2	U
1,2,4-TRIMETHYLBENZENE	~	~	10000	100000	~	~	~	µg/L	1	U	1	U
1,3,5-TRIMETHYLBENZENE	~	~	100	1000	~	~	~	µg/L	1	U	1	U
VINYL CHLORIDE	2	50000	2	2	100000	~	100000	µg/L	2	U	2	U
MIP-XYLENE	9000	5000	5000	5000	100000	~	100000	µg/L	2	U	2	U
O-XYLENE	9000	5000	5000	5000	100000	~	100000	µg/L	1	U	1	U

NOTES:

1. U = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. ~ = No regulatory limits found
4. Values in italics exceed the GW-1, GW-2, or GW-3 Concentration.
5. Bolded values exceed the RCGW-1 or RCGW-2 Concentration.
6. Grey shaded values exceed the UCL Concentration.
7. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.

DATA SUMMARY TABLE
Groundwater Results
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Sample Location EPA Sample Number Sample Date Labnumber	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units	GW-MW102D D05371 05/15/2013 13E0614-05	Qual	GW-MW103D D05372 05/15/2013 13E0614-06	Qual	GW-MW103S D05373 05/15/2013 13E0614-07	Qual	GW-MW014D D05374 05/15/2013 13E0614-08	Qual
SW-846 6020A														
ANTIMONY	~	8000	6	8000	80000	µg/L	1	U	1	U	1	U	1	U
ARSENIC	~	900	10	900	9000	µg/L	0.8	U	0.82	U	1.1	U	0.67	U
BARIUM	~	50000	2000	50000	100000	µg/L	76	24	140	24	110	140	18	U
BERYLLIUM	~	200	4	200	2000	µg/L	4.8	U	2.3	U	2	U	0.5	U
CADMIUM	~	4	4	4	50	µg/L	0.5	U	2	U	1	U	0.5	U
CHROMIUM	~	300	100	300	3000	µg/L	13	U	1	U	1	U	1	U
COPPER	~	~	10000	100000	~	µg/L	1	U	14	U	14	U	18	U
LEAD	~	10	10	10	150	µg/L	7.3	U	1	U	1	U	1	U
NICKEL	~	200	100	200	2000	µg/L	5	U	5	U	5	U	5	U
SELENIUM	~	100	50	100	1000	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
SILVER	~	7	7	7	1000	µg/L	0.2	U	0.21	U	0.49	U	0.2	U
THALLIUM	~	3000	2	3000	30000	µg/L	5	U	5	U	5	U	5	U
VANADIUM	~	4000	30	4000	40000	µg/L	71	U	40	U	62	U	89	U
ZINC	~	900	900	900	50000	µg/L	0.0001	U	0.0001	U	0.0001	U	0.0001	U
SW-846 7470A														
MERCURY	~	0.02	0.002	0.02	0.2	mg/L	10	U	10	U	10	U	10	U
SW-846 8260C														
ACETONE	50000	50000	6300	50000	100000	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
TERT-AMYL METHYL ETHER	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
BENZENE	2000	10000	5	2000	100000	µg/L	1	U	1	U	1	U	1	U
BROMOBENZENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
BROMODICHLOROMETHANE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
BROMODICHLOROMETHANE	6	50000	3	6	100000	µg/L	1	U	1	U	1	U	1	U
BROMOFORM	700	50000	4	700	100000	µg/L	1	U	1	U	1	U	1	U
BROMOMETHANE	7	800	7	7	8000	µg/L	2	U	2	U	2	U	2	U
2-BUTANONE (MEK)	50000	50000	4000	50000	100000	µg/L	10	U	10	U	10	U	10	U
N-BUTYLBENZENE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
SEC-BUTYLBENZENE	~	~	~	~	~	µg/L	1	U	1	U	1	U	1	U
TERT-BUTYLBENZENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
TERT-BUTYLETHYL ETHER	~	~	~	~	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
CARBON DISULFIDE	~	~	1000	10000	~	µg/L	5	U	5	U	5	U	5	U
CARBON TETRACHLORIDE	2	5000	2	2	50000	µg/L	1	U	1	U	1	U	1	U
CHLOROBENZENE	200	1000	100	200	10000	µg/L	1	U	1	U	1	U	1	U
CHLORODIBROMOMETHANE	20	50000	2	20	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
CHLOROETHANE	~	~	1000	10000	~	µg/L	2	U	2	U	2	U	2	U
CHLOROFORM	50	20000	50	50	100000	µg/L	2	U	2	U	2	U	2	U
CHLOROMETHANE	~	~	1000	10000	~	µg/L	2	U	2	U	2	U	2	U
2-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
4-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
1,2-DIBROMO-3-CHLOROPROPANE	~	~	100	1000	~	µg/L	2	U	2	U	2	U	2	U
EDB	~	~	~	~	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
DIBROMOMETHANE	~	~	5000	50000	~	µg/L	1	U	1	U	1	U	1	U
1,2-DICHLOROBENZENE	2000	20000	600	2000	20000	µg/L	1	U	1	U	1	U	1	U
1,3-DICHLOROBENZENE	2000	50000	40	2000	100000	µg/L	1	U	1	U	1	U	1	U
1,4-DICHLOROBENZENE	200	8000	5	200	80000	µg/L	1	U	1	U	1	U	1	U
DICHLORODIFLUOROMETHANE	~	~	10000	100000	~	µg/L	2	U	2	U	2	U	2	U
1,1-DICHLOROETHANE	1000	20000	70	1000	100000	µg/L	1	U	1	U	1	U	1	U
1,2-DICHLOROETHANE	5	20000	5	5	100000	µg/L	1	U	1	U	1	U	1	U
1,1-DICHLOROETHYLENE	80	30000	7	80	100000	µg/L	1	U	1	U	1	U	1	U
CIS-1,2-DICHLOROETHYLENE	100	50000	70	100	100000	µg/L	1	U	3.2	U	1.1	U	1	U
TRANS-1,2-DICHLOROETHYLENE	90	50000	90	90	100000	µg/L	1	U	1	U	1	U	1	U
1,2-DICHLOROPROPANE	3	50000	3	3	100000	µg/L	1	U	1	U	1	U	1	U
1,3-DICHLOROPROPANE	~	~	5000	50000	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
2,2-DICHLOROPROPANE	~	~	5	9	~	µg/L	1	U	1	U	1	U	1	U

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Sample Location	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units	GW-MW102D D05371 05/15/2013 13E0614-05	Qual	GW-MW103D D05372 05/15/2013 13E0614-06	Qual	GW-MW103S D05373 05/15/2013 13E0614-07	Qual	GW-MW014D D05374 05/15/2013 13E0614-08	Qual
1,1-DICHLOROPROPENE	~	~	0.5	5	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
CIS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	0.4	U	0.4	U	0.4	U	0.4	U
TRANS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	0.4	U	0.4	U	0.4	U	0.4	U
DIETHYL ETHER	~	~	1000	10000	~	µg/L	2	U	2	U	2	U	2	U
DIISOPROPYL ETHER	~	~	1000	10000	~	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
1,4-DIOXANE	6000	50000	3	6000	100000	µg/L	50	U	50	U	50	U	50	U
ETHYLBENZENE	20000	50000	700	5000	1000000	µg/L	1	U	1	U	1	U	1	U
HEXACHLOROBUTADIENE	1	3000	0.6	1	30000	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
2-HEXANONE	~	~	1000	10000	~	µg/L	10	U	10	U	10	U	10	U
ISOPROPYLBENZENE	~	~	10000	100000	~	µg/L	1	U	1	U	1	U	1	U
P-ISOPROPYLTOLUENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
MTBE	50000	50000	70	5000	100000	µg/L	1	U	1.8	U	1	U	1	U
METHYLENE CHLORIDE	10000	50000	5	10000	100000	µg/L	5	U	5	U	5	U	5	U
MIBK	50000	50000	350	50000	100000	µg/L	10	U	10	U	10	U	10	U
NAPHTHALENE	1000	20000	140	1000	100000	µg/L	2	U	2	U	2	U	2	U
N-PROPYLBENZENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U	1	U
STYRENE	100	6000	100	100	60000	µg/L	1	U	1	U	1	U	1	U
1,1,1,2-TETRACHLOROETHANE	10	50000	5	10	100000	µg/L	1	U	0.5	U	0.5	U	0.5	U
1,1,2,2-TETRACHLOROETHANE	9	50000	2	9	100000	µg/L	0.5	U	0.5	U	0.5	U	0.5	U
TETRACHLOROETHYLENE	50	30000	5	50	100000	µg/L	2.6	U	1,100	U	5.1	U	1,700	U
TETRAHYDROFURAN	~	~	5000	50000	~	µg/L	2	U	2	U	2	U	2	U
TOLUENE	50000	40000	1000	40000	100000	µg/L	1	U	1	U	1	U	1	U
1,2,3-TRICHLOROBENZENE	~	~	~	~	~	µg/L	2	U	2	U	2	U	2	U
1,2,4-TRICHLOROBENZENE	2000	50000	70	2000	100000	µg/L	1	U	1	U	1	U	1	U
1,1,1-TRICHLOROETHANE	4000	20000	200	4000	100000	µg/L	1	U	5.5	U	1	U	6.9	U
1,1,2-TRICHLOROETHANE	900	50000	5	900	100000	µg/L	1	U	1	U	1	U	1	U
TRICHLOROETHYLENE	30	5000	5	30	50000	µg/L	4.1	U	8.40	U	4.4	U	7.60	U
TRICHLOROFLUOROMETHANE	~	~	10000	100000	~	µg/L	2	U	2	U	2	U	2	U
1,2,3-TRICHLOROPROPANE	~	~	1000	10000	~	µg/L	2	U	2	U	2	U	2	U
1,2,4-TRIMETHYLBENZENE	~	~	10000	100000	~	µg/L	1	U	1	U	1.3	U	1	U
1,3,5-TRIMETHYLBENZENE	~	~	100	1000	~	µg/L	1	U	1	U	1	U	1	U
VINYL CHLORIDE	2	50000	2	2	100000	µg/L	2	U	2	U	2	U	2	U
MIP-XYLENE	9000	5000	5000	5000	100000	µg/L	2	U	2	U	2	U	2	U
O-XYLENE	9000	5000	5000	5000	100000	µg/L	1	U	1	U	1	U	1	U

NOTES:

1. U = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. ~ = No regulatory limits found
4. Values in italics exceed the GW-1, GW-2, or GW-3 Concentration.
5. Bolded values exceed the RCGW-1 or RCGW-2 Concentration.
6. Grey shaded values exceed the UCL Concentration.
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Sample Location EPA Sample Number Sample Date Lab number	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units	GW-MW104S D053675 05/15/2013 13E0614-09	GW-MW105D D05376 05/15/2013 13E0614-10	GW-MW105S D05377 05/15/2013 13E0614-11	GW-MW106D D05378 05/15/2013 13E0614-12	Qual
SW-846 6020A											
ANTIMONY	~	8000	6	8000	80000	µg/L	2.4	1	1	1	U
ARSENIC	~	900	10	900	9000	µg/L	4.5	0.92	0.4	17	U
BARIUM	~	50000	2000	50000	100000	µg/L	86	120	150	46	U
BERYLLIUM	~	200	4	200	2000	µg/L	0.45	0.4	2.3	0.4	U
CADMIUM	~	4	4	4	50	µg/L	0.57	0.5	0.5	0.5	U
CHROMIUM	~	300	100	300	3000	µg/L	10	1	1	1	U
COPPER	~	~	10000	100000	~	µg/L	26	26	22	7	U
LEAD	~	10	10	10	150	µg/L	1	1	1	1	U
NICKEL	~	200	100	200	2000	µg/L	51	5	5	5	U
SELENIUM	~	100	50	100	1000	µg/L	5	5	5	5	U
SILVER	~	7	7	7	1000	µg/L	0.5	0.5	0.5	0.5	U
THALLIUM	~	3000	2	3000	30000	µg/L	0.24	0.2	0.2	0.2	U
VANADIUM	~	4000	30	4000	40000	µg/L	23	5	5	5	U
ZINC	~	900	900	900	50000	µg/L	21	11	18	10	U
SW-846 7470A											
MERCURY	~	0.02	0.002	0.02	0.2	mg/L	0.0001	0.0001	0.0001	0.0001	U
SW-846 8260C											
ACETONE	50000	50000	6300	50000	100000	µg/L	10	10	10	10	U
TERT-AMYL METHYL ETHER	~	~	~	~	~	µg/L	0.5	0.5	0.5	0.5	U
BENZENE	2000	10000	5	2000	100000	µg/L	1	1	1	1	U
BROMOBENZENE	~	~	1000	10000	~	µg/L	1	1	1	1	U
BROMOCHLOROMETHANE	~	~	~	~	~	µg/L	1	1	1	1	U
BROMODICHLOROMETHANE	6	50000	3	6	100000	µg/L	1	1	1	1	U
BROMOFORM	700	50000	4	700	100000	µg/L	1	1	1	1	U
BROMOMETHANE	7	800	7	7	8000	µg/L	2	2	2	2	U
2-BUTANONE (MEK)	50000	50000	4000	50000	100000	µg/L	10	10	10	10	U
N-BUTYLBENZENE	~	~	~	~	~	µg/L	1	1	1	1	U
SEC-BUTYLBENZENE	~	~	~	~	~	µg/L	1	1	1	1	U
TERT-BUTYLBENZENE	~	~	1000	10000	~	µg/L	1	1	1	1	U
TERT-BUTYLETHYL ETHER	~	~	~	~	~	µg/L	0.5	0.5	0.5	0.5	U
CARBON DISULFIDE	~	~	1000	10000	~	µg/L	5	5	5	5	U
CARBON TETRACHLORIDE	2	5000	2	2	50000	µg/L	1	1	1	1	U
CHLOROBENZENE	200	1000	100	200	10000	µg/L	1	1	1	1	U
CHLORODIBROMOMETHANE	20	50000	2	20	~	µg/L	0.5	0.5	0.5	0.5	U
CHLOROETHANE	~	~	1000	10000	~	µg/L	2	2	2	2	U
CHLOROFORM	50	20000	50	50	100000	µg/L	2	2	2	2	U
CHLOROMETHANE	~	~	1000	10000	~	µg/L	2	2	2	2	U
2-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	1	1	1	1	U
4-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	2	2	2	2	U
1,2-DIBROMO-3-CHLOROPROPANE	~	~	100	1000	~	µg/L	0.5	0.5	0.5	0.5	U
EDB	~	~	~	~	~	µg/L	1	1	1	1	U
DIBROMOMETHANE	~	~	5000	50000	~	µg/L	1	1	1	1	U
1,2-DICHLOROBENZENE	2000	2000	600	2000	20000	µg/L	1	1	1	1	U
1,3-DICHLOROBENZENE	2000	50000	40	2000	100000	µg/L	1	1	1	1	U
1,4-DICHLOROBENZENE	200	8000	5	200	80000	µg/L	1	1	1	1	U
DICHLORODIFLUOROMETHANE	~	~	10000	100000	~	µg/L	2	2	2	2	U
1,1-DICHLOROETHANE	1000	20000	70	1000	100000	µg/L	1	1	1	1	U
1,2-DICHLOROETHANE	5	20000	5	5	100000	µg/L	1	1	1	1	U
1,1-DICHLOROETHYLENE	80	30000	7	80	100000	µg/L	1	1	1	1	U
CIS-1,2-DICHLOROETHYLENE	100	50000	70	100	100000	µg/L	4.7	1	1	1	U
TRANS-1,2-DICHLOROETHYLENE	90	50000	90	90	100000	µg/L	1	1	1	1	U
1,2-DICHLOROPROPANE	3	50000	3	3	100000	µg/L	1	1	1	1	U
1,3-DICHLOROPROPANE	~	~	5000	50000	~	µg/L	0.5	0.5	0.5	0.5	U
2,2-DICHLOROPROPANE	~	~	5	9	~	µg/L	1	1	1	1	U

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NU Style Site
Franklin, MA

Sample Location EPA Sample Number Sample Date Lab number	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units	GW-MW104S D053675 05/15/2013 13E0614-09	GW-MW105D D05376 05/15/2013 13E0614-10	GW-MW015S D05377 05/15/2013 13E0614-11	GW-MW106D D05378 05/15/2013 13E0614-12	Qual
1,1-DICHLOROPROPENE	~	~	0.5	5	~	µg/L	0.5	0.5	0.5	0.5	U
CIS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	0.4	0.4	0.4	0.4	U
TRANS-1,3-DICHLOROPROPENE	10	200	0.5	5	2000	µg/L	0.4	0.4	0.4	0.4	U
DIETHYL ETHER	~	~	1000	10000	~	µg/L	2	2	2	2	U
DIISOPROPYL ETHER	~	~	1000	10000	~	µg/L	0.5	0.5	0.5	0.5	U
1,4-DIOXANE	6000	50000	3	6000	100000	µg/L	50	50	50	50	U
ETHYLBENZENE	20000	5000	700	5000	100000	µg/L	1	1	1	1	U
HEXACHLOROBUTADIENE	1	3000	0.6	1	30000	µg/L	0.5	0.5	0.5	0.5	U
2-HEXANONE	~	~	1000	10000	~	µg/L	10	10	10	10	U
ISOPROPYLBENZENE	~	~	10000	100000	~	µg/L	1	1	1	1	U
P-ISOPROPYLTOLUENE	~	~	1000	10000	~	µg/L	1	1	1	1	U
MTBE	50000	50000	70	5000	100000	µg/L	1	1	1	1	U
METHYLENE CHLORIDE	10000	50000	5	10000	100000	µg/L	5	5	5	5	U
MIBK	50000	50000	350	50000	100000	µg/L	10	10	10	10	U
NAPHTHALENE	1000	20000	140	1000	100000	µg/L	2	2	2	2	U
N-PROPYLBENZENE	~	~	1000	10000	~	µg/L	1	1	1	1	U
STYRENE	100	6000	100	100	60000	µg/L	1	1	1	1	U
1,1,1,2-TETRACHLOROETHANE	10	50000	5	10	100000	µg/L	1	1	1	1	U
1,1,2,2-TETRACHLOROETHANE	9	50000	2	50	100000	µg/L	0.5	0.5	0.5	0.5	U
TETRACHLOROETHYLENE	50	30000	5	50	100000	µg/L	94	41	140	2.9	U
TETRAHYDROFURAN	~	~	5000	50000	~	µg/L	2	2	2	2	U
TOLUENE	50000	40000	1000	40000	100000	µg/L	1	1	1	1	U
1,2,3-TRICHLOROBENZENE	~	~	~	~	~	µg/L	2	2	2	2	U
1,2,4-TRICHLOROBENZENE	2000	50000	70	2000	100000	µg/L	1	1	1	1	U
1,1,1-TRICHLOROETHANE	4000	20000	200	4000	100000	µg/L	1	1	1	1	U
1,1,2-TRICHLOROETHANE	900	50000	5	900	100000	µg/L	1	1	1	1	U
TRICHLOROETHYLENE	30	5000	5	30	50000	µg/L	22	16	21	1	U
TRICHLOROFLUOROMETHANE	~	~	10000	100000	~	µg/L	2	2	2	2	U
1,2,3-TRICHLOROPROPANE	~	~	1000	10000	~	µg/L	2	2	2	2	U
1,2,4-TRIMETHYLBENZENE	~	~	10000	100000	~	µg/L	1	1	1	1	U
1,3,5-TRIMETHYLBENZENE	~	~	100	1000	~	µg/L	1	1	1	1	U
VINYL CHLORIDE	2	50000	2	2	100000	µg/L	2	2	2	2	U
MIP-XYLENE	9000	5000	5000	5000	100000	µg/L	2	2	2	2	U
O-XYLENE	9000	5000	5000	5000	100000	µg/L	1	1	1	1	U

NOTES:
1. U = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. ~ = No regulatory limits found
4. Values in italics exceed the GW-1, GW-2, or GW-3 Concentration.
5. Bolded values exceed the RCGW-1 or RCGW-2 Concentration.
6. Grey shaded values exceed the UCL Concentration.
7. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.

DATA SUMMARY TABLE
Groundwater Results
NU Style Site
Franklin, MA

Sample Location EPA Sample Number	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units	GW-MW016S D05379 05/15/2013 13E0614-13	Qual	GW-MW102S D05380 05/15/2013 13E0614-14	Qual	GW-TB01 D05381 05/14/2013 13E0614-15	Qual
Lab Number												
SW-846 6020A												
ANTIMONY	~	8000	6	8000	80000	µg/L	1	U	1.2	U	NT	NT
ARSENIC	~	900	10	900	9000	µg/L	1.8	U	1.4	U	NT	NT
BARIUM	~	50000	2000	50000	100000	µg/L	72	U	140	U	NT	NT
BERYLLIUM	~	200	4	200	2000	µg/L	0.4	U	0.4	U	NT	NT
CADMIUM	~	4	4	4	50	µg/L	0.5	U	0.5	U	NT	NT
CHROMIUM	~	300	100	300	3000	µg/L	1	U	1	U	NT	NT
COPPER	~	~	10000	100000	~	µg/L	5	U	12	U	NT	NT
LEAD	~	10	10	10	150	µg/L	1	U	1	U	NT	NT
NICKEL	~	200	100	200	2000	µg/L	5	U	71	U	NT	NT
SELENIUM	~	100	50	100	1000	µg/L	5	U	5	U	NT	NT
SILVER	~	7	7	7	1000	µg/L	0.5	U	0.5	U	NT	NT
THALLIUM	~	3000	2	3000	30000	µg/L	0.2	U	0.2	U	NT	NT
VANADIUM	~	4000	30	4000	40000	µg/L	5	U	5	U	NT	NT
ZINC	~	900	900	900	50000	µg/L	10	U	10	U	NT	NT
SW-846 7470A												
MERCURY	~	0.02	0.002	0.02	0.2	mg/L	0.0001	U	0.0001	U	NT	NT
SW-846 8260C												
ACETONE	50000	50000	6300	50000	100000	µg/L	23	U	10	U	10	U
TERT-AMYL METHYL ETHER	~	~	~	~	~	µg/L	0.5	U	0.5	U	0.5	U
BENZENE	2000	10000	5	2000	100000	µg/L	1	U	1	U	1	U
BROMOBENZENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U
BROMOCHLOROMETHANE	~	~	~	~	~	µg/L	1	U	1	U	1	U
BROMODICHLOROMETHANE	6	50000	3	6	100000	µg/L	1	U	1	U	1	U
BROMOFORM	700	50000	4	700	100000	µg/L	1	U	1	U	1	U
BROMOMETHANE	7	800	7	7	8000	µg/L	2	U	2	U	2	U
2-BUTANONE (MEK)	50000	50000	4000	50000	100000	µg/L	10	U	10	U	10	U
N-BUTYL BENZENE	~	~	~	~	~	µg/L	1	U	1	U	1	U
SEC-BUTYL BENZENE	~	~	~	~	~	µg/L	1	U	5.2	U	1	U
TERT-BUTYL BENZENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U
TERT-BUTYLETHYL ETHER	~	~	~	~	~	µg/L	0.5	U	0.5	U	0.5	U
CARBON DISULFIDE	~	~	1000	10000	~	µg/L	5	U	5	U	5	U
CARBON TETRACHLORIDE	2	5000	2	2	50000	µg/L	1	U	1	U	1	U
CHLOROBENZENE	200	1000	100	200	10000	µg/L	1	U	1	U	1	U
CHLORODIBROMOMETHANE	20	50000	2	20	~	µg/L	0.5	U	0.5	U	0.5	U
CHLOROETHANE	~	~	1000	10000	~	µg/L	2	U	2	U	2	U
CHLOROFORM	50	20000	50	50	100000	µg/L	2	U	2	U	2	U
CHLOROMETHANE	~	~	1000	10000	~	µg/L	2	U	2	U	2	U
2-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U
4-CHLOROTOLUENE	~	~	1000	10000	~	µg/L	1	U	1	U	1	U
1,2-DIBROMO-3-CHLOROPROPANE	~	~	100	1000	~	µg/L	2	U	2	U	2	U
EDB	~	~	~	~	~	µg/L	0.5	U	0.5	U	0.5	U
DIBROMOMETHANE	~	~	5000	50000	~	µg/L	1	U	1	U	1	U
1,2-DICHLOROBENZENE	2000	2000	600	2000	20000	µg/L	1	U	1	U	1	U
1,3-DICHLOROBENZENE	2000	50000	40	2000	100000	µg/L	1	U	1	U	1	U
1,4-DICHLOROBENZENE	200	8000	5	200	80000	µg/L	1	U	1	U	1	U
DICHLORODIFLUOROMETHANE	~	~	10000	100000	~	µg/L	2	U	2	U	2	U
1,1-DICHLOROETHANE	1000	20000	70	1000	100000	µg/L	1	U	1	U	1	U
1,2-DICHLOROETHANE	5	20000	5	5	100000	µg/L	1	U	1	U	1	U
1,1-DICHLOROETHYLENE	80	30000	7	80	100000	µg/L	1	U	1	U	1	U
CIS-1,2-DICHLOROETHYLENE	100	50000	70	100	100000	µg/L	1	U	1	U	1	U
TRANS-1,2-DICHLOROETHYLENE	90	50000	90	90	100000	µg/L	1	U	1	U	1	U
1,2-DICHLOROPROPANE	3	50000	3	3	100000	µg/L	1	U	1	U	1	U
1,3-DICHLOROPROPANE	~	~	5000	50000	~	µg/L	0.5	U	0.5	U	0.5	U
2,2-DICHLOROPROPANE	~	~	5	9	~	µg/L	1	U	1	U	1	U

DATA SUMMARY TABLE
Groundwater Results
NU Style Site
Franklin, MA

Sample Location	Sample Number	Sample Date	Labnumber	GW-2	GW-3	RCGW-1	RCGW-2	UCL	Units	Qual	GW-MW016S D05379 05/15/2013 13E0614-13	Qual	GW-MW102S D05380 05/15/2013 13E0614-14 GW-DUP01	Qual	GW-TB01 D05381 05/14/2013 13E0614-15	Qual
1,1-DICHLOROPROPENE	~	~	~	0.5	5	~	~	~	µg/L	U	0.5	U	0.5	U	0.5	U
CIS-1,3-DICHLOROPROPENE	10	200	~	0.5	5	2000	~	~	µg/L	U	0.4	U	0.4	U	0.4	U
TRANS-1,3-DICHLOROPROPENE	10	200	~	0.5	5	2000	~	~	µg/L	U	0.4	U	0.4	U	0.4	U
DIETHYL ETHER	~	~	~	1000	10000	~	~	~	µg/L	U	2	U	2	U	2	U
DIISOPROPYL ETHER	~	~	~	1000	10000	~	~	~	µg/L	U	0.5	U	0.5	U	0.5	U
1,4-DIOXANE	6000	50000	~	3	6000	100000	~	~	µg/L	U	50	U	50	U	50	U
ETHYLBENZENE	20000	5000	~	700	5000	100000	~	~	µg/L	U	1	U	1	U	1	U
HEXACHLOROBUTADIENE	1	3000	~	0.6	1	30000	~	~	µg/L	U	0.5	U	0.5	U	0.5	U
2-HEXANONE	~	~	~	1000	10000	~	~	~	µg/L	U	10	U	10	U	10	U
ISOPROPYLBENZENE	~	~	~	10000	100000	~	~	~	µg/L	U	1	U	1	U	1	U
P-ISOPROPYLTOLUENE	~	~	~	1000	10000	~	~	~	µg/L	U	1	U	1	U	1	U
MTBE	50000	50000	~	70	5000	100000	~	~	µg/L	U	1	U	1	U	1	U
METHYLENE CHLORIDE	10000	50000	~	5	10000	100000	~	~	µg/L	U	5	U	5	U	5	U
MIBK	50000	50000	~	350	50000	100000	~	~	µg/L	U	10	U	10	U	10	U
NAPHTHALENE	1000	20000	~	140	1000	100000	~	~	µg/L	U	2	U	2	U	2	U
N-PROPYLBENZENE	~	~	~	1000	10000	~	~	~	µg/L	U	1	U	1	U	1	U
STYRENE	100	6000	~	100	1000	60000	~	~	µg/L	U	1	U	1	U	1	U
1,1,1,2-TETRACHLOROETHANE	10	50000	~	5	10	100000	~	~	µg/L	U	1	U	1	U	1	U
1,1,2,2-TETRACHLOROETHANE	9	50000	~	2	9	100000	~	~	µg/L	U	0.5	U	0.5	U	0.5	U
TETRACHLOROETHYLENE	50	30000	~	5	50	100000	~	~	µg/L	U	1	U	1	U	1	U
TETRAHYDROFURAN	~	~	~	5000	50000	~	~	~	µg/L	U	2	U	2	U	2	U
TOLUENE	50000	40000	~	1000	40000	100000	~	~	µg/L	U	1	U	1	U	1	U
1,2,3-TRICHLOROBENZENE	~	~	~	~	~	~	~	~	µg/L	U	2	U	2	U	2	U
1,2,4-TRICHLOROBENZENE	2000	50000	~	70	2000	100000	~	~	µg/L	U	1	U	1	U	1	U
1,1,1-TRICHLOROETHANE	4000	20000	~	200	4000	100000	~	~	µg/L	U	1	U	1	U	1	U
1,1,2-TRICHLOROETHANE	900	50000	~	5	900	100000	~	~	µg/L	U	1	U	1	U	1	U
TRICHLOROETHYLENE	30	5000	~	5	30	50000	~	~	µg/L	U	1	U	1	U	1	U
TRICHLOROFLUOROMETHANE	~	~	~	10000	100000	~	~	~	µg/L	U	2	U	2	U	2	U
1,2,3-TRICHLOROPROPANE	~	~	~	1000	10000	~	~	~	µg/L	U	2	U	2	U	2	U
1,2,4-TRIMETHYLBENZENE	~	~	~	10000	100000	~	~	~	µg/L	U	1	U	1	U	1	U
1,3,5-TRIMETHYLBENZENE	~	~	~	100	1000	~	~	~	µg/L	U	1	U	1	U	1	U
VINYL CHLORIDE	2	50000	~	2	2	100000	~	~	µg/L	U	2	U	2	U	2	U
MIP-XYLENE	9000	5000	~	5000	5000	100000	~	~	µg/L	U	2	U	2	U	2	U
O-XYLENE	9000	5000	~	5000	5000	100000	~	~	µg/L	U	1	U	1	U	1	U

NOTES:

1. U = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. ~ = No regulatory limits found
4. Values in italics exceed the GW-1, GW-2, or GW-3 Concentration.
5. Bolded values exceed the RCGW-1 or RCGW-2 Concentration.
6. Grey shaded values exceed the UCL Concentration.
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DATA SUMMARY TABLE

IDW Results
NU Style Site
Franklin, MA

Sample Location			GW-DRUM	
EPA Sample Number			D05382	
Sample Date			05/15/2013	
Labnumber			13E0614-16	
	TCLP	Units		Qual
SM18-20 4500 H B				
PH	>2, <12	pH Units	6.9	
SW-846 1010				
FLASHPOINT	>140°F	°F	> 212 °F	
SW-846 6020A				
ARSENIC	5000	µg/L	60	
BARIUM	100000	µg/L	1,300	
CADMIUM	1000	µg/L	15	
CHROMIUM	5000	µg/L	250	
LEAD	5000	µg/L	1,500	
SELENIUM	1000	µg/L	31	
SILVER	5000	µg/L	4.1	
SW-846 7470A				
MERCURY	200	mg/L	0.00073	
SW-846 8015C				
TPH-GRO		mg/L	0.4	
DIESEL RANGE ORGANICS		mg/L	0.28	
SW-846 8082A				
PCB 1016		µg/L	0.2	U
PCB 1221		µg/L	0.2	U
PCB 1232		µg/L	0.2	U
PCB 1242		µg/L	0.2	U
PCB 1248		µg/L	0.2	U
PCB 1254		µg/L	0.2	U
PCB 1260		µg/L	0.2	U
PCB 1262		µg/L	0.2	U
PCB 1268		µg/L	0.2	U
Total PCBs	50000	µg/L		
SW-846 8260C				
ACETONE		µg/L	100	U
TERT-AMYLMETHYL ETHER		µg/L	5	U
BENZENE	500	µg/L	10	U
BROMOBENZENE		µg/L	10	U
BROMOCHLOROMETHANE		µg/L	10	U
BROMODICHLOROMETHANE		µg/L	10	U
BROMOFORM		µg/L	10	U
BROMOMETHANE		µg/L	20	U
2-BUTANONE (MEK)	200000	µg/L	100	U
N-BUTYLBENZENE		µg/L	10	U
SEC-BUTYLBENZENE		µg/L	10	U
TERT-BUTYLBENZENE		µg/L	10	U
TERT-BUTYLETHYL ETHER		µg/L	5	U
CARBON DISULFIDE		µg/L	50	U
CARBON TETRACHLORIDE	500	µg/L	10	U
CHLOROBENZENE	100000	µg/L	10	U
CHLORODIBROMOMETHANE		µg/L	5	U
CHLOROETHANE		µg/L	20	U
CHLOROFORM	6000	µg/L	20	U
CHLOROMETHANE		µg/L	20	U
2-CHLOROTOLUENE		µg/L	10	U
4-CHLOROTOLUENE		µg/L	10	U
1,2-DIBROMO-3-CHLOROPROPANE		µg/L	20	U
EDB		µg/L	5	U
DIBROMOMETHANE		µg/L	10	U
1,2-DICHLOROBENZENE		µg/L	10	U
1,3-DICHLOROBENZENE		µg/L	10	U
1,4-DICHLOROBENZENE		µg/L	10	U
DICHLORODIFLUOROMETHANE		µg/L	20	U
1,1-DICHLOROETHANE		µg/L	10	U
1,2-DICHLOROETHANE	500	µg/L	10	U
1,1-DICHLOROETHYLENE	700	µg/L	10	U
CIS-1,2-DICHLOROETHYLENE		µg/L	10	U
TRANS-1,2-DICHLOROETHYLENE		µg/L	10	U
1,2-DICHLOROPROPANE		µg/L	10	U
1,3-DICHLOROPROPANE		µg/L	5	U
2,2-DICHLOROPROPANE		µg/L	10	U
1,1-DICHLOROPROPENE		µg/L	5	U
CIS-1,3-DICHLOROPROPENE		µg/L	4	U
TRANS-1,3-DICHLOROPROPENE		µg/L	4	U
DIETHYL ETHER		µg/L	20	U
DIISOPROPYL ETHER		µg/L	5	U
1,4-DIOXANE		µg/L	500	U
ETHYLBENZENE		µg/L	10	U
HEXACHLOROBUTADIENE		µg/L	5	U
2-HEXANONE		µg/L	100	U
ISOPROPYLBENZENE		µg/L	10	U
P-ISOPROPYLTOLUENE		µg/L	10	U
MTBE		µg/L	10	U
METHYLENE CHLORIDE		µg/L	50	U

DATA SUMMARY TABLE

IDW Results
 NU Style Site
 Franklin, MA

Sample Location		GW-DRUM	
EPA Sample Number		D05382	
Sample Date		05/15/2013	
Labnumber		13E0614-16	
	TCLP	Units	Qual
MIBK		µg/L	100 U
NAPHTHALENE		µg/L	20 U
N-PROPYLBENZENE		µg/L	10 U
STYRENE		µg/L	10 U
1,1,1,2-TETRACHLOROETHANE		µg/L	10 U
1,1,2,2-TETRACHLOROETHANE		µg/L	5 U
TETRACHLOROETHYLENE	700	µg/L	540 U
TETRAHYDROFURAN		µg/L	20 U
TOLUENE		µg/L	10 U
1,2,3-TRICHLOROBENZENE		µg/L	20 U
1,2,4-TRICHLOROBENZENE		µg/L	10 U
1,1,1-TRICHLOROETHANE		µg/L	10 U
1,1,2-TRICHLOROETHANE		µg/L	10 U
TRICHLOROETHYLENE	500	µg/L	280 U
TRICHLOROFLUOROMETHANE		µg/L	20 U
1,2,3-TRICHLOROPROPANE		µg/L	20 U
1,2,4-TRIMETHYLBENZENE		µg/L	10 U
1,3,5-TRIMETHYLBENZENE		µg/L	10 U
VINYL CHLORIDE	200	µg/L	20 U
M/P-XYLENE		µg/L	20 U
O-XYLENE		µg/L	10 U
SW-846 9014			
REACTIVE CYANIDE	250	mg/Kg	4 U
SW-846 9030A			
REACTIVE SULFIDE	500	mg/Kg	20 U
NOTES:			
1. U = Not detected above the lab reporting limits shown in parenthesis.			
2. Bolded values exceed the TCLP limit.			
3. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.			



Engineering a Sustainable Future

Generic Data Review Checklist

Project: NUStyle
Project #: 80078
Case#: 0116S
Date: 5/28/13
Methods: 8260 and metals (6010C/7470A)
Laboratory: Con-Test
SDG: D05367, 13E0614
Reviewer: Gail DeRuzzo

1. Case Narrative and Data Package Completeness (COC and Analyte List Review)

GW

D05367-80, 81 (TB), 82 (IDW)

IDW tested for VOCs, PCBs, GRO, DRO, RCRA metals, RCI

2. Holding Time and Sample Preservation Compliance

OK

3. Lab and Field Blanks

TB (D05381) - ND

4. Laboratory Control Samples

VOCS: B073417 – high – , MeCl₂, 1,2,3-TCB – samples ND

DBCP , naph out high samples ND (02RE, 03RE, 04, 06RE, 07, 08RE, 14-16)

5. Field Duplicate Precision

D05370/D05380 - ok

6. Laboratory Duplicate Precision

Metals – 01

pH - 16

7. Matrix Spikes

VOCs (sample 01) – low – bromomethane, chloromethane, DCDFM

1,4-dioxane out low

8. Surrogate Spikes

ok

9. Internal Standards

Project: NUStyle
Project #: 80078

ok

10. Performance Evaluation Samples

NA

11. Reporting Limits

CS2 and MeCl2 reported to lowest cal pt, not meeting CAM RL.

12. Calibration Issues

VOCs: low chloromethane in CCV – batch B073334 (01-03, 05, 06, 08-13)

RRF low for 1,4-dioxane – all samples.

CCV high – bromomethane and MeCl2 – B073417, B073334 – samples ND

13. Other



Engineering a Sustainable Future

Nobis Engineering, Inc. | NH | MA | NJ | VT | MD

May 23, 2013
Nobis File No. 80078

Mr. Jim Byrne
EPA-New England Region I
5 Post Office Square
Suite 100, Mailcode OSRR07-4
Boston, MA 02109-3912

Re: Contract No.: EP-S1-06-03
Task Order No. 0078-SI-BZ-0100
Case No. 0116S, Sample Delivery Group (SDG) No. D05361, Lab Nos.:13E0369
Con-Test Analytical Laboratory, East Longmeadow, Massachusetts
NU Style Site
Franklin, Massachusetts

Tier I Modified Organic and Inorganic Data Validation

VOCs, PP Metals:

5/Soils: D05361, D05362, D05364-D05366
1/Field Duplicate: D05361/D05362
1/Trip Blank: D05363

Dear Mr. Byrne:

Nobis Engineering, Inc. performed a Tier I Modified data validation in accordance with the EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Specific Guidance/Procedures, (April, 2013) on the organic and inorganic analytical data for 5 soil samples and one trip blank collected by Nobis Engineering, Inc. at the NU Style Site located in Franklin, Massachusetts. The samples were analyzed for volatile organic compounds (VOCs) by SW-846 Method 8260C and Priority Pollutant (PP) metals plus barium and vanadium by SW-846 Methods 6010C/7471B and per DAS Technical Specification DAS-RAC2-072, which required Massachusetts Contingency Plan (MCP) protocols. A Tier I modified data validation was deemed sufficient at this time.

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- * • Data Completeness
- * • Preservation and Technical Holding Times
- * • Blanks
- Laboratory Control Samples
- Field Duplicates
- Matrix Spike/Matrix Spike Duplicate
- * • Surrogate Compounds
- * • Internal Standards
- * • Reported Quantitation Limits

* All criteria were met for this parameter.

NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The objective for the sampling activity is to assess the extent of contaminant impacts to bedrock groundwater in the area of the former boiler area. The results of the investigation are intended to support a Response Action Outcome (RAO) that would be prepared by an environmental consultant working for the Town. Soil and groundwater data collected during the course of the TBA will be compared with applicable Massachusetts Contingency Plan (MCP) Method 1 Standards to assess potential risks to human health and the environment associated with suspected contaminants of concern (COCs).

Sample D05365 (MW101D-0608) exceeds the RCS-1, RCS-2, and GW-2 standards for cis-1,2-dichloroethene.

Data are of sufficient quality for the project objectives. Relative biases are noted below based on criteria evaluated.

Data Completeness:

The data package was complete. All samples were analyzed for requested analyses.

Data presented in the Summary Tables include qualifiers assigned by the laboratory. Qualifications for these parameters were not assessed under the Tier I modified validation.

Laboratory Control Samples:

VOCs:

For batches B072892 and B072996, acetone was recovered above the upper control limit. The associated sample results were non-detect, therefore, there was no impact on the data.

For batch B072892, bromoform was recovered below the lower control limit. The associated results for samples D05361-D05363 should be considered biased low. The RPD was outside control limits for bromomethane. The results for this analyte should be considered uncertain.

For batch B072996, bromoform, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane, naphthalene, and hexachlorobutadiene were recovered below the lower control limits. The results for these analytes in the samples D05364-D05366 should be considered biased low. The RPD was outside control limits for bromomethane. The results for this analyte should be considered uncertain.

Field Duplicates:

Samples D05361 and D05362 were collected as field duplicates and were analyzed for all parameters. All parameters met the project criteria of results between the two samples within 50 percent RPD except for Chromium by Method 6010C. Positive chromium results in the field duplicate pair should be considered estimated due to variability in the samples.

Matrix Spikes:

Matrix spike/matrix spike duplicates (MS/MSDs) were analyzed for all parameters on sample D05365.

VOCs:

The following analytes were recovered low in the MS and/or MSD: 1,1,1,2-trichloroethane, 1,4-dichlorobenzene, bromobenzene, chlorodibromomethane, cis-1,3-dichloropropene, trans-1,3-dichloropropene, dichlorodifluoromethane, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane, bromoform, bromomethane, hexachlorobutadiene, naphthalene, 1,2-dichlorobenzene, 1,2-dichlorobenzene, 2-hexanone, n-butylbenzene, and styrene. Results for these analytes in sample D05365 should be considered biased low.

Metals:

Antimony and zinc were recovered low in the MS and/or MSD. Antimony and zinc results for all samples should be considered biased low.

Reporting Limits:Metals:

Samples B05361 and B05362 were analyzed with a 2-fold dilution for beryllium due to interferences.

Please contact me at (978) 703-6021 or gderuzzo@nobiseng.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS ENGINEERING, INC.



Gail DeRuzzo
Lead Chemist

Tables: Data Summary Tables

Enclosures: Data Review Checklist
Chains-of-Custody



DATA SUMMARY TABLE

Soil Results
NU Style Site
Franklin, MA

Sample Location	RCS-1	RCS-2	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	S-3/GW-2	S-3/GW-3	UCL	Units	Qual	MW102D-0406 D05361 05/07/2013 13E0369-01	Qual	MW102D-0406 D05362 05/07/2013 13E0369-02 DUP-01	Qual
EPA Sample Number															
Lab Number															
SM 2540G															
% SOLIDS	~	~	~	~	~	~	~	~	~	% Wt		91.7		91.8	
SW-846 5010C															
ANTIMONY	20	30	20	20	30	30	30	30	300	mg/Kg		2.7	U	2.7	U
ARSENIC	20	20	20	20	20	20	20	20	200	mg/Kg		2.7	U	2.7	U
BARIUM	1000	3000	1000	1000	3000	3000	5000	5000	10000	mg/Kg		43		46	
BERYLLIUM	100	200	100	100	200	200	200	200	2000	mg/Kg		0.54	U	0.54	U
CADMIUM	2	30	2	30	30	30	30	30	300	mg/Kg		0.35		0.37	
CHROMIUM	30	200	30	30	200	200	200	200	2000	mg/Kg		29		15	
COPPER	1000	10000	~	~	~	~	~	~	~	mg/Kg		10		13	
LEAD	300	300	300	300	300	300	300	300	3000	mg/Kg		49		43	
NICKEL	20	700	20	20	700	700	700	700	7000	mg/Kg		14		17	
SELENIUM	400	800	400	400	800	800	800	800	8000	mg/Kg		5.4	U	5.4	U
SILVER	100	200	100	100	200	200	200	200	2000	mg/Kg		0.54	U	0.54	U
THALLIUM	8	60	8	8	60	60	80	80	800	mg/Kg		2.7	U	2.7	U
VANADIUM	600	1000	600	600	1000	1000	1000	1000	10000	mg/Kg		16		19	
ZINC	2500	3000	2500	2500	3000	3000	5000	5000	10000	mg/Kg		93		76	
SW-846 7471B															
MERCURY	20	30	20	20	30	30	30	30	300	mg/Kg		0.052		0.042	
SW-846 8280C															
ACETONE	6	50	50	400	50	400	50	400	10000	mg/Kg		0.12	U	0.12	U
TERT-AMYL METHYL ETHER	~	~	~	~	~	~	~	~	~	mg/Kg		0.0012	U	0.0012	U
BENZENE	2	200	30	30	200	200	700	900	9000	mg/Kg		0.0023	U	0.0024	U
BROMOBENZENE	100	1000	~	~	~	~	~	~	~	mg/Kg		0.0023	U	0.0024	U
BROMOCHLOROMETHANE	~	~	~	~	~	~	~	~	~	mg/Kg		0.0023	U	0.0024	U
BROMODICHLOROMETHANE	0.1	0.1	0.1	200	0.1	100	0.1	500	5000	mg/Kg		0.0023	U	0.0024	U
BROMOFORM	0.1	1	1	200	1	800	1	800	10000	mg/Kg		0.0023	U	0.0024	U
BROMOMETHANE	0.5	0.5	0.5	30	0.5	30	0.5	30	10000	mg/Kg		0.012	U	0.012	U
2-BUTANONE (MEK)	4	50	50	400	50	400	50	400	10000	mg/Kg		0.046	U	0.048	U
N-BUTYL BENZENE	~	~	~	~	~	~	~	~	~	mg/Kg		0.0023	U	0.0024	U
SEC-BUTYL BENZENE	~	~	~	~	~	~	~	~	~	mg/Kg		0.0023	U	0.0024	U
TERT-BUTYL BENZENE	100	1000	~	~	~	~	~	~	~	mg/Kg		0.0023	U	0.0024	U
TERT-BUTYLETHYL ETHER	~	~	~	~	~	~	~	~	~	mg/Kg		0.0012	U	0.0012	U
CARBON DISULFIDE	100	1000	~	~	~	~	~	~	~	mg/Kg		0.0069	U	0.0072	U
CARBON TETRACHLORIDE	5	5	5	10	5	60	5	400	4000	mg/Kg		0.0023	U	0.0024	U
CHLOROBENZENE	1	3	3	100	3	100	3	100	10000	mg/Kg		0.0023	U	0.0024	U
CHLORODIBROMOMETHANE	0.005	0.03	0.03	20	0.03	100	0.03	500	5000	mg/Kg		0.0012	U	0.0012	U
CHLOROETHANE	100	1000	~	~	~	~	~	~	~	mg/Kg		0.012	U	0.012	U
CHLOROFORM	0.3	0.3	0.3	400	0.3	800	0.3	800	8000	mg/Kg		0.0046	U	0.0048	U
CHLOROMETHANE	100	1000	~	~	~	~	~	~	~	mg/Kg		0.012	U	0.012	U
2-CHLOROTOLUENE	100	1000	~	~	~	~	~	~	~	mg/Kg		0.0023	U	0.0024	U
4-CHLOROTOLUENE	100	1000	~	~	~	~	~	~	~	mg/Kg		0.0023	U	0.0024	U
1,2-DIBROMO-3-CHLOROPROPANE	10	100	~	~	~	~	~	~	~	mg/Kg		0.0023	U	0.0024	U
EDB	~	~	~	~	~	~	~	~	~	mg/Kg		0.0012	U	0.0012	U
DIBROMOMETHANE	500	5000	~	~	~	~	~	~	~	mg/Kg		0.0023	U	0.0024	U
1,2-DICHLOROBENZENE	9	30	30	300	30	300	30	300	10000	mg/Kg		0.0023	U	0.0024	U
1,3-DICHLOROBENZENE	1	40	40	100	40	500	40	500	5000	mg/Kg		0.0023	U	0.0024	U
1,4-DICHLOROBENZENE	0.7	4	4	50	4	300	4	2000	10000	mg/Kg		0.0023	U	0.0024	U
DICHLORODIFLUOROMETHANE	1000	10000	~	~	~	~	~	~	~	mg/Kg		0.012	U	0.012	U
1,1-DICHLOROETHANE	0.4	5	5	500	5	1000	5	1000	10000	mg/Kg		0.0023	U	0.0024	U
1,2-DICHLOROETHANE	0.1	0.1	0.1	10	0.1	90	0.1	300	6000	mg/Kg		0.0023	U	0.0024	U
1,1-DICHLOROETHYLENE	3	40	40	500	40	1000	40	3000	10000	mg/Kg		0.0046	U	0.0048	U
CIS-1,2-DICHLOROETHYLENE	0.3	0.4	0.4	100	0.4	500	0.4	500	5000	mg/Kg		0.0023	U	0.0024	U
TRANS-1,2-DICHLOROETHYLENE	1	1	1	500	1	1000	1	3000	10000	mg/Kg		0.0023	U	0.0024	U
1,2-DICHLOROPROPANE	0.1	0.1	0.1	10	0.1	100	0.1	600	6000	mg/Kg		0.0023	U	0.0024	U

DATA SUMMARY TABLE
Soil Results
NU Style Site
Franklin, MA

Sample Location EPA Sample Number Sample Date Labnumber	RCS-1	RCS-2	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	S-3/GW-2	S-3/GW-3	UCL	Units	Qual	MW102D-0406 D05361 05/07/2013 13E0369-01	Qual	MW102D-0406 D05362 05/07/2013 13E0369-02 DUP-01	Qual
1,3-DICHLOROPROPANE	500	5000	~	~	~	~	~	~	~	mg/Kg	U	0.0012	U	0.0012	U
2,2-DICHLOROPROPANE	0.1	0.2	~	~	~	~	~	~	~	mg/Kg	U	0.0023	U	0.0024	U
1,1-DICHLOROPROPANE	0.01	0.1	~	~	~	~	~	~	~	mg/Kg	U	0.0023	U	0.0024	U
CIS-1,3-DICHLOROPROPENE	0.01	0.1	0.4	9	0.4	70	0.4	100	4000	mg/Kg	U	0.0012	U	0.0012	U
TRANS-1,3-DICHLOROPROPENE	0.01	0.1	0.4	9	0.4	70	0.4	100	4000	mg/Kg	U	0.0012	U	0.0012	U
DIETHYL ETHER	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.012	U	0.012	U
DIISOPROPYL ETHER	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.0012	U	0.0012	U
1,4-DIOXANE	0.2	6	6	70	6	500	6	500	5000	mg/Kg	U	0.012	U	0.012	U
ETHYLBENZENE	40	1000	500	500	1000	1000	1000	3000	10000	mg/Kg	U	0.0023	U	0.0024	U
HEXACHLOROBUTADIENE	6	90	6	6	90	90	100	100	1000	mg/Kg	U	0.0023	U	0.0024	U
2-HEXANONE	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.023	U	0.024	U
ISOPROPYLBENZENE	1000	10000	~	~	~	~	~	~	~	mg/Kg	U	0.0023	U	0.0024	U
P-ISOPROPYLTOLUENE	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.0023	U	0.0024	U
MTBE	0.1	100	100	100	100	500	100	500	5000	mg/Kg	U	0.0046	U	0.0048	U
METHYLENE CHLORIDE	0.1	20	20	200	20	900	20	900	10000	mg/Kg	U	0.012	U	0.012	U
MIBK	0.4	50	50	400	50	400	50	400	10000	mg/Kg	U	0.023	U	0.024	U
NAPHTHALENE	4	40	40	500	40	1000	40	3000	10000	mg/Kg	U	0.012	U	0.012	U
N-PROPYLBENZENE	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.0023	U	0.0024	U
STYRENE	3	4	4	30	4	200	4	1000	10000	mg/Kg	U	0.0023	U	0.0024	U
1,1,1,2-TETRACHLOROETHANE	0.1	0.1	0.1	7	0.1	100	0.1	300	3000	mg/Kg	U	0.0023	U	0.0024	U
1,1,2,2-TETRACHLOROETHANE	0.005	0.02	0.02	0.8	0.02	10	0.02	40	400	mg/Kg	U	0.0012	U	0.0012	U
TETRACHLOROETHYLENE	1	10	10	30	10	200	10	1000	10000	mg/Kg	U	0.0035	U	0.0036	U
TETRAHYDROFURAN	500	5000	~	~	~	~	~	~	~	mg/Kg	U	0.012	U	0.012	U
TOLUENE	30	1000	500	500	1000	1000	2000	3000	10000	mg/Kg	U	0.0023	U	0.0024	U
1,2,3-TRICHLOROETHYLENE	~	~	~	~	~	~	~	~	~	mg/Kg	U	0.0046	U	0.0048	U
1,2,4-TRICHLOROETHYLENE	2	70	70	500	70	900	70	900	9000	mg/Kg	U	0.012	U	0.012	U
1,1,1-TRICHLOROETHANE	30	600	500	500	600	1000	600	3000	10000	mg/Kg	U	0.0023	U	0.0024	U
1,1,2-TRICHLOROETHANE	0.1	2	2	4	2	60	2	200	2000	mg/Kg	U	0.0023	U	0.0024	U
TRICHLOROETHYLENE	0.3	2	2	90	2	700	2	2000	10000	mg/Kg	U	0.0023	U	0.0024	U
TRICHLOROFUOROMETHANE	1000	10000	~	~	~	~	~	~	~	mg/Kg	U	0.012	U	0.012	U
1,2,3-TRICHLOROPROPANE	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.0023	U	0.0024	U
1,2,4-TRIMETHYLBENZENE	1000	10000	~	~	~	~	~	~	~	mg/Kg	U	0.0023	U	0.0024	U
1,3,5-TRIMETHYLBENZENE	10	100	~	~	~	~	~	~	~	mg/Kg	U	0.0023	U	0.0024	U
VINYL CHLORIDE	0.6	0.7	0.6	0.6	0.7	4	0.7	30	300	mg/Kg	U	0.012	U	0.012	U
M/P-XYLENE	300	300	300	500	300	1000	300	3000	10000	mg/Kg	U	0.0046	U	0.0048	U
O-XYLENE	300	300	300	500	300	1000	300	3000	10000	mg/Kg	U	0.0023	U	0.0024	U
NOTES:															
1. U = Not detected above the lab reporting limits shown in parenthesis.															
2. NT = Not tested.															
3. ~ = No regulatory limits found															
4. Values in italics exceed the S-1 Concentration.															
5. Bolded values exceed the S-2 Concentration.															
6. Grey shaded values exceed the S-3 Concentration.															
7. Single-Bordered values exceed RCS concentration.															
9. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.															

DATA SUMMARY TABLE

Soil Results
NU Style Site
Franklin, MA

Sample Location	Sample Number	Sample Date	Lab Number	RCS-1	RCS-2	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	S-3/GW-2	S-3/GW-3	UCL	Units	Qual	Trip Blank-01 D05363 05/07/2013 13E0369-03	Qual	MW105D-1012 D05364 05/08/2013 13E0369-04	Qual
SM 2540G																		
% SOLIDS																		
ANTIMONY	20	30	20	20	20	30	30	30	30	30	30	300	mg/Kg		NT		73.1	
ARSENIC	20	20	20	20	20	20	20	20	20	20	20	200	mg/Kg		NT		3.4	U
BARUM	1000	3000	1000	1000	1000	3000	3000	3000	3000	5000	5000	10000	mg/Kg		NT		12	
BERYLLIUM	100	200	100	100	100	200	200	200	200	200	200	2000	mg/Kg		NT		35	
CADMIUM	2	30	2	2	2	30	30	30	30	30	30	300	mg/Kg		NT		0.34	U
CHROMIUM	30	200	30	30	30	200	200	200	200	200	200	2000	mg/Kg		NT		0.64	
COPPER	1000	10000															5.4	
LEAD	300	300	300	300	300	300	300	300	300	300	300	3000	mg/Kg		NT		6.4	
NICKEL	20	700	20	20	20	700	700	700	700	700	700	7000	mg/Kg		NT		7.2	
SELENIUM	400	800	400	400	400	800	800	800	800	800	800	8000	mg/Kg		NT		16	
SILVER	100	200	100	100	100	200	200	200	200	200	200	2000	mg/Kg		NT		6.9	U
THALLIUM	8	60	8	8	8	60	60	60	60	60	60	800	mg/Kg		NT		0.69	U
VANADIUM	600	1000	600	600	600	1000	1000	1000	1000	1000	1000	10000	mg/Kg		NT		3.4	U
ZINC	2500	3000	2500	2500	2500	3000	3000	3000	3000	5000	5000	10000	mg/Kg		NT		15	
SW-846 7471B																	67	
MERCURY	20	30	20	20	20	30	30	30	30	30	30	300	mg/Kg		NT		0.033	U
SW-846 8260C																		
ACETONE	6	50	50	400	400	50	50	50	50	50	50	10000	mg/Kg		0.1		0.075	U
TERT-AMYL METHYL ETHER																	0.0075	U
BENZENE	2	200	30	30	30	200	200	200	200	700	700	9000	mg/Kg		0.001		0.0015	U
BROMOBENZENE	100	1000															0.0015	U
BROMOCHLOROMETHANE																	0.0015	U
BROMODICHLOROMETHANE	0.1	0.1	0.1	20	20	0.1	100	0.1	100	0.1	500	5000	mg/Kg		0.002		0.0015	U
BROMOFORM	0.1	1	1	200	1	800	1	800	10000	10000	10000	10000	mg/Kg		0.002		0.0015	U
BROMOMETHANE	0.5	0.5	0.5	30	30	0.5	30	0.5	30	0.5	30	10000	mg/Kg		0.01		0.0015	U
2-BUTANONE (MEK)	4	50	50	400	400	50	400	50	400	50	400	10000	mg/Kg		0.04		0.0075	U
N-BUTYL BENZENE																	0.03	U
SEC-BUTYL BENZENE																	0.0015	U
TERT-BUTYL BENZENE	100	1000															0.0015	U
TERT-BUTYLETHYL ETHER																	0.0015	U
CARBON DISULFIDE	100	1000															0.00075	U
CARBON TETRACHLORIDE	5	5	5	10	10	5	60	5	400	5	400	4000	mg/Kg		0.006		0.0045	U
CHLOROBENZENE	1	3	3	100	3	100	3	100	10000	10000	10000	10000	mg/Kg		0.002		0.0015	U
CHLORODIBROMOMETHANE	0.005	0.03	0.03	20	0.03	100	100	0.03	500	500	500	5000	mg/Kg		0.002		0.0015	U
CHLOROETHANE	100	1000															0.00075	U
CHLOROFORM	0.3	0.3	0.3	400	0.3	800	0.3	800	800	800	800	8000	mg/Kg		0.01		0.0075	U
CHLOROMETHANE	100	1000															0.003	U
2-CHLOROTOLUENE	100	1000															0.0075	U
4-CHLOROTOLUENE	100	1000															0.0015	U
1,2-DIBROMO-3-CHLOROPROPANE	10	100															0.0015	U
EDB																	0.00075	U
DIBROMOMETHANE	500	5000															0.00075	U
1,2-DICHLOROBENZENE	9	30	30	300	30	300	300	30	300	300	300	10000	mg/Kg		0.002		0.0015	U
1,3-DICHLOROBENZENE	1	40	40	100	40	500	40	500	5000	5000	5000	5000	mg/Kg		0.002		0.0015	U
1,4-DICHLOROBENZENE	0.7	4	4	50	4	300	4	300	2000	2000	2000	10000	mg/Kg		0.002		0.0015	U
DICHLORODIFLUOROMETHANE	1000	10000															0.0015	U
1,1-DICHLOROETHANE	0.4	5	5	500	5	1000	5	1000	10000	10000	10000	10000	mg/Kg		0.01		0.0075	U
1,2-DICHLOROETHANE	0.1	0.1	0.1	10	0.1	90	0.1	90	300	300	300	6000	mg/Kg		0.002		0.0015	U
1,1-DICHLOROETHYLENE	3	40	40	500	40	1000	40	1000	4000	4000	4000	10000	mg/Kg		0.002		0.0015	U
CIS-1,2-DICHLOROETHYLENE	0.3	0.4	0.4	100	0.4	500	0.4	500	500	500	500	5000	mg/Kg		0.004		0.003	U
TRANS-1,2-DICHLOROETHYLENE	1	1	1	500	1	1000	1	1000	3000	3000	3000	10000	mg/Kg		0.002		0.0097	U
1,2-DICHLOROPROPANE	0.1	0.1	0.1	10	0.1	100	0.1	100	600	600	600	6000	mg/Kg		0.002		0.0015	U

DATA SUMMARY TABLE
Soil Results
NU Style Site
Franklin, MA

Sample Location	EPA Sample Number	Sample Date	Labnumber	RCS-1	RCS-2	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	S-3/GW-2	S-3/GW-3	UCL	Units	Qual	Trip Blank-01	MW105D-1012
1,3-DICHLOROPROPANE	500	5000											mg/Kg	U	0.0075	U
2,2-DICHLOROPROPANE	0.1	0.2											mg/Kg	U	0.0015	U
1,1-DICHLOROPROPENE	0.01	0.1											mg/Kg	U	0.0015	U
CIS-1,3-DICHLOROPROPENE	0.01	0.1											mg/Kg	U	0.0075	U
TRANS-1,3-DICHLOROPROPENE	0.01	0.1											mg/Kg	U	0.0075	U
DIETHYL ETHER	100	1000											mg/Kg	U	0.0075	U
DIISOPROPYL ETHER	100	1000											mg/Kg	U	0.0075	U
1,4-DIOXANE	0.2	6											mg/Kg	U	0.0015	U
ETHYLBENZENE	40	1000											mg/Kg	U	0.0015	U
HEXACHLOROBUTADIENE	6	90											mg/Kg	U	0.0015	U
2-HEXANONE	100	1000											mg/Kg	U	0.0015	U
ISOPROPYLBENZENE	1000	10000											mg/Kg	U	0.0015	U
P-ISOPROPYLTOLUENE	100	1000											mg/Kg	U	0.0015	U
MTBE	0.1	100											mg/Kg	U	0.003	U
METHYLENE CHLORIDE	0.1	20											mg/Kg	U	0.0075	U
MBK	0.4	50											mg/Kg	U	0.015	U
NAPHTHALENE	4	40											mg/Kg	U	0.003	U
N-PROPYLBENZENE	100	1000											mg/Kg	U	0.0015	U
STYRENE	3	4											mg/Kg	U	0.0015	U
1,1,1,2-TETRACHLOROETHANE	0.1	0.1											mg/Kg	U	0.0015	U
1,1,2,2-TETRACHLOROETHANE	0.005	0.02											mg/Kg	U	0.0015	U
TETRACHLOROETHYLENE	1	10											mg/Kg	U	0.0075	U
TETRAHYDROFURAN	500	5000											mg/Kg	U	0.064	U
TOLUENE	30	1000											mg/Kg	U	0.0075	U
1,2,3-TRICHLOROETHANE	~	~											mg/Kg	U	0.0015	U
1,2,4-TRICHLOROETHANE	2	70											mg/Kg	U	0.0075	U
1,1,1-TRICHLOROETHANE	30	600											mg/Kg	U	0.003	U
1,1,2-TRICHLOROETHANE	0.1	2											mg/Kg	U	0.0015	U
TRICHLOROETHYLENE	0.3	2											mg/Kg	U	0.0015	U
TRICHLOROFLUOROMETHANE	1000	10000											mg/Kg	U	0.085	U
1,2,3-TRIMETHYLBENZENE	100	1000											mg/Kg	U	0.0075	U
1,2,4-TRIMETHYLBENZENE	1000	10000											mg/Kg	U	0.0015	U
1,3,5-TRIMETHYLBENZENE	10	100											mg/Kg	U	0.0015	U
VINYL CHLORIDE	0.6	0.7											mg/Kg	U	0.0015	U
MP-XYLENE	300	300											mg/Kg	U	0.054	U
O-XYLENE	300	300											mg/Kg	U	0.003	U
													mg/Kg	U	0.0015	U

NOTES:
1. U = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. ~ = No regulatory limits found
4. Values in italics exceed the S-1 Concentration.
5. Bolded values exceed the S-2 Concentration.
6. Grey shaded values exceed the S-3 Concentration.
7. Single-Bordered values exceed RCS concentration.
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DATA SUMMARY TABLE
Soil Results
NU Style Site
Franklin, MA

Sample Location	RCS-1	RCS-2	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	S-3/GW-2	S-3/GW-3	UCL	Units	Qual	MS106D-0406 D05366 05/09/2013 13E0369-06
Sample Number	Labnumber	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
SW 2540G												
% SOLIDS										% Wt		89.7
SW-846 6010C												
ANTIMONY	20	30	20	20	30	30	30	30	300	mg/Kg		2.8
ARSENIC	20	20	20	20	20	20	20	20	200	mg/Kg		2.8
BARIUM	1000	3000	1000	1000	3000	3000	5000	5000	10000	mg/Kg		23
BERYLLIUM	100	200	100	100	200	200	200	200	2000	mg/Kg		0.28
CADMIUM	2	30	2	2	30	30	30	30	300	mg/Kg		0.28
CHROMIUM	30	200	30	30	200	200	200	200	2000	mg/Kg		5.3
COPPER	1000	10000								mg/Kg		3.5
LEAD	300	300	300	300	300	300	300	300	3000	mg/Kg		5.1
NICKEL	20	700	20	20	700	700	700	700	7000	mg/Kg		2.7
SELENIUM	400	800	400	400	800	800	800	800	8000	mg/Kg		5.6
SILVER	100	200	100	100	200	200	200	200	2000	mg/Kg		0.56
THALLIUM	8	60	8	8	60	60	80	80	800	mg/Kg		2.8
VANADIUM	600	1000	600	600	1000	1000	1000	1000	10000	mg/Kg		11
ZINC	2500	3000	2500	2500	3000	3000	5000	5000	10000	mg/Kg		22
SW-846 7471B												
MERCURY	20	30	20	20	30	30	30	30	300	mg/Kg		0.027
SW-846 8260C												
ACETONE	6	50	50	400	50	400	50	400	10000	mg/Kg		0.14
TERT-AMYL METHYL ETHER										mg/Kg		0.0014
BENZENE	2	200	30	30	200	200	700	900	9000	mg/Kg		0.0027
BROMOBENZENE	100	1000								mg/Kg		0.0027
BROMOCHLOROMETHANE										mg/Kg		0.0027
BROMODICHLOROMETHANE	0.1	0.1	0.1	200	0.1	100	0.1	500	5000	mg/Kg		0.0027
BROMOFORM	0.1	1	1	200	1	800	1	800	10000	mg/Kg		0.0027
BROMOMETHANE	0.5	0.5	0.5	30	0.5	30	0.5	30	10000	mg/Kg		0.014
2-BUTANONE (MEK)	4	50	50	400	50	400	50	400	10000	mg/Kg		0.054
N-BUTYLBENZENE										mg/Kg		0.0027
SEC-BUTYLBENZENE										mg/Kg		0.0027
TERT-BUTYLBENZENE	100	1000								mg/Kg		0.0027
TERT-BUTYLETHYL ETHER										mg/Kg		0.0014
CARBON DISULFIDE	100	1000								mg/Kg		0.0081
CARBON TETRACHLORIDE	5	5	5	10	5	60	5	400	4000	mg/Kg		0.0027
CHLOROBENZENE	1	3	3	100	3	100	3	100	10000	mg/Kg		0.0027
CHLORODIBROMOMETHANE	0.005	0.03	0.03	20	0.03	100	0.03	500	5000	mg/Kg		0.0014
CHLOROETHANE	100	1000								mg/Kg		0.014
CHLOROFORM	0.3	0.3	0.3	400	0.3	800	0.3	800	8000	mg/Kg		0.0054
CHLOROMETHANE	100	1000								mg/Kg		0.014
2-CHLOROTOLUENE	100	1000								mg/Kg		0.0027
4-CHLOROTOLUENE	100	1000								mg/Kg		0.0027
1,2-DIBROMO-3-CHLOROPROPANE	10	100								mg/Kg		0.0027
EDB										mg/Kg		0.0014
DIBROMOMETHANE	500	5000								mg/Kg		0.0027
1,2-DICHLOROBENZENE	9	30	30	300	30	300	30	300	10000	mg/Kg		0.0027
1,3-DICHLOROBENZENE	1	40	40	100	40	500	40	500	5000	mg/Kg		0.0027
1,4-DICHLOROBENZENE	0.7	4	4	50	4	300	4	2000	10000	mg/Kg		0.0027
DICHLORODIFLUOROMETHANE	1000	10000								mg/Kg		0.014
1,1-DICHLOROETHANE	0.4	5	5	500	5	1000	5	1000	10000	mg/Kg		0.0027
1,2-DICHLOROETHANE	0.1	0.1	0.1	10	0.1	90	0.1	300	6000	mg/Kg		0.0027
1,1-DICHLOROETHYLENE	3	40	40	500	40	1000	40	3000	10000	mg/Kg		0.0054
CIS-1,2-DICHLOROETHYLENE	0.3	0.4	0.4	100	0.4	500	0.4	500	5000	mg/Kg		0.0027
TRANS-1,2-DICHLOROETHYLENE	1	1	1	500	1	1000	1	3000	10000	mg/Kg		0.0027
1,2-DICHLOROPROPANE	0.1	0.1	0.1	10	0.1	100	0.1	600	6000	mg/Kg		0.0027

DATA SUMMARY TABLE

Soil Results
NU Style Site
Franklin, MA

Sample Location EPA Sample Number Sample Date Lab number	RCS-1	RCS-2	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	S-3/GW-2	S-3/GW-3	UCL	Units	Qual	MW101D-0608 D05365 05/08/2013 13E0369-05	Qual	MS106D-0406 D05366 05/09/2013 13E0369-06	Qual
1,3-DICHLOROPROPANE	500	5000	~	~	~	~	~	~	~	mg/Kg	U	0.001	U	0.0014	U
2,2-DICHLOROPROPANE	0.1	0.2	~	~	~	~	~	~	~	mg/Kg	U	0.002	U	0.0027	U
1,1-DICHLOROPROPENE	0.01	0.1	~	~	~	~	~	~	~	mg/Kg	U	0.002	U	0.0027	U
CIS-1,3-DICHLOROPROPENE	0.01	0.1	0.4	9	0.4	70	0.4	100	4000	mg/Kg	U	0.001	U	0.0014	U
TRANS-1,3-DICHLOROPROPENE	0.01	0.1	0.4	9	0.4	70	0.4	100	4000	mg/Kg	U	0.001	U	0.0014	U
DIETHYL ETHER	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.01	U	0.014	U
DIISOPROPYL ETHER	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.001	U	0.0014	U
1,4-DIOXANE	0.2	6	6	70	6	500	6	500	5000	mg/Kg	U	0.1	U	0.14	U
ETHYLBENZENE	40	1000	500	500	1000	1000	1000	3000	10000	mg/Kg	U	0.002	U	0.0027	U
HEXACHLOROBUTADIENE	6	90	6	6	90	90	100	100	1000	mg/Kg	U	0.002	U	0.0027	U
2-HEXANONE	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.02	U	0.027	U
ISOPROPYLBENZENE	1000	10000	~	~	~	~	~	~	~	mg/Kg	U	0.002	U	0.0027	U
P-ISOPROPYLTOLUENE	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.002	U	0.0027	U
MTBE	0.1	100	100	100	100	500	100	500	5000	mg/Kg	U	0.004	U	0.0054	U
METHYLENE CHLORIDE	0.1	20	20	200	20	900	20	900	10000	mg/Kg	U	0.01	U	0.014	U
MBK	0.4	50	50	400	50	400	50	400	10000	mg/Kg	U	0.02	U	0.027	U
NAPHTHALENE	4	40	40	500	40	1000	40	3000	10000	mg/Kg	U	0.004	U	0.0054	U
N-PROPYLBENZENE	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.002	U	0.0027	U
STYRENE	3	4	4	30	4	200	4	1000	10000	mg/Kg	U	0.002	U	0.0027	U
1,1,1,2-TETRACHLOROETHANE	0.1	0.1	0.1	7	0.1	100	0.1	300	3000	mg/Kg	U	0.002	U	0.0027	U
1,1,2,2-TETRACHLOROETHANE	0.005	0.02	0.02	0.8	0.02	10	0.02	40	400	mg/Kg	U	0.001	U	0.0014	U
TRACHLOROETHYLENE	1	10	10	30	10	200	10	1000	10000	mg/Kg	U	0.002	U	0.0027	U
TETRAHYDROFURAN	500	5000	~	~	~	~	~	~	~	mg/Kg	U	0.01	U	0.014	U
TOLUENE	30	1000	500	500	1000	1000	2000	3000	10000	mg/Kg	U	0.002	U	0.0027	U
1,2,3-TRICHLOROETHYLENE	~	~	~	~	~	~	~	~	~	mg/Kg	U	0.01	U	0.014	U
1,2,4-TRICHLOROETHYLENE	2	70	70	500	70	900	70	900	9000	mg/Kg	U	0.004	U	0.0054	U
1,1,1-TRICHLOROETHANE	30	600	500	500	600	1000	600	3000	10000	mg/Kg	U	0.002	U	0.0027	U
1,1,2-TRICHLOROETHANE	0.1	2	2	4	2	60	2	200	2000	mg/Kg	U	0.002	U	0.0027	U
TRICHLOROETHYLENE	0.3	2	2	90	2	700	2	2000	10000	mg/Kg	U	0.013	U	0.0027	U
TRICHLOROFLUOROMETHANE	1000	10000	~	~	~	~	~	~	~	mg/Kg	U	0.01	U	0.014	U
1,2,3-TRICHLOROPROPANE	100	1000	~	~	~	~	~	~	~	mg/Kg	U	0.002	U	0.0027	U
1,2,4-TRIMETHYLBENZENE	10	100	~	~	~	~	~	~	~	mg/Kg	U	0.002	U	0.0027	U
1,3,5-TRIMETHYLBENZENE	10	100	~	~	~	~	~	~	~	mg/Kg	U	0.002	U	0.0027	U
VINYL CHLORIDE	0.6	0.7	0.6	0.6	0.7	4	0.7	30	300	mg/Kg	U	0.01	U	0.014	U
MIP-XYLENE	300	300	300	500	300	1000	300	3000	10000	mg/Kg	U	0.004	U	0.0054	U
O-XYLENE	300	300	300	500	300	1000	300	3000	10000	mg/Kg	U	0.002	U	0.0027	U
NOTES:															
1. U = Not detected above the lab reporting limits shown in parenthesis.															
2. NT = Not tested.															
3. ~ = No regulatory limits found															
4. Values in italics exceed the S-1 Concentration.															
5. Bolded values exceed the S-2 Concentration.															
6. Grey shaded values exceed the S-3 Concentration.															
7. Single-Bordered values exceed RCS concentration.															
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Engineering a Sustainable Future

Generic Data Review Checklist

Project: NUStyle
Project #: 80078
Case#: 0116S
Date: 5/23/13
Methods: 8260 and metals (6010C/7471B)
Laboratory: Con-Test
SDG: D05361, 130E0369
Reviewer: Gail DeRuzzo

1. Case Narrative and Data Package Completeness (COC and Analyte List Review)

Soils

D05361, 62, 64, 65, 66

2. Holding Time and Sample Preservation Compliance

OK

3. Lab and Field Blanks

TB (D05363) - ND

4. Laboratory Control Samples

Acetone out high batch B072892 – samples ND – no impact.

Bromoform out low batch B072892 – qualify all samples.

B072996 – out low bromoform, 1,2,3-TCB, 1,2,4-TCB, DBCP, naph, HCBd; acetone out high; RPD out for HCBd

Bromomethane RPD out B072892 and/or B072996

5. Field Duplicate Precision

D05362/D05361 – CR >50%RPD

6. Laboratory Duplicate Precision

D05365 – metals - ok

7. Matrix Spikes

D05365

Sb low recovery

Zn out of limits - low

Project: NUStyle
Project #: 80078

VOCs: Low – 1,1,1,2-TCA, 1,1,2,2-TCA, 1,4-DCB, bromobenzene, CDBM, cis-1,3-DCP, trans-1,3-DCP, DCDFM, 1,2,3-TCB, 1,2,4-TCB, DBCP, bromoform, bromomethane, HCBd, naph, 1,2-DCB, 1,3-DCB, MBK, n-butylbenzene, styrene

8. Surrogate Spikes

ok

9. Internal Standards

ok

10. Performance Evaluation Samples

NA

11. Reporting Limits

Be elevated RL due to interferences for D05361 and 62 (2x)

12. Calibration Issues

CCV low – 1,1,1,2-TCA, 1,2,3-TCB, 1,2,4-TCB, DBCP, bromoform, DCDFM, HCBd, naph
RRF < min. 1,4-dioxane
CCV high for acetone – no impact – samples ND

13. Other

A P P E N D I X E

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number	
		MP5085204907	1	800 955-1102	001555093 GBF	
5. Generator's Name and Mailing Address		Att: Bryan Taberner		Generator's Site Address (if different than mailing address)		
Franklin, Town of 365 East Central Street Franklin MA 02038				Fmr Nu-Style Site 87 Grove Street Franklin MA 02038		
Generator's Phone:		508 520-4407				
6. Transporter 1 Company Name		ENPRO SERVICES, INC.		U.S. EPA ID Number MAD980670004		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address		ENPRO SERVICES OF VERMONT, INC. 54 AVENUE D WILLISTON VT 05495		U.S. EPA ID Number VTR000517052		
Facility's Phone:		802 860-1200				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
	1. NON DOT, NON RCRA REGULATED MATERIAL	003	UM	130	G	VT98 MA98
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information						
1(X) IDW Ground Water; VT-0913-13593 ENPRO POW#22726 (55) ENPRO JOB# 7973-13						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name		Signature		Month	Day	Year
Bryan W. Taberner				9	25	13
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name		Signature		Month	Day	Year
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number:						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name		Signature		Month	Day	Year