Groundwater Monitoring Report Cover Sheet

Site Name: Mr. Mike's Antrim

Town: Antrim

Permit #: **198904014**

Type of Submittal (*Check all that apply*)

- ☒ Periodic Summary Report (*year*): 2020
- ☒ Data Submittal (*month and year per Condition #7 of Permit*): April 2020

Check each box where the answer to any of the following questions is "YES"

Sampling Results

- ☐ During the most recent monitoring event, were any new compounds detected at any sampling point?
  Well/Compound:
- ☐ Are there any detections of contamination in drinking water that is untreated prior to use?
  Well/Compound:
  - ☐ Do compounds detected exceed AGQS?
- ☐ Was free product detected for the first time in any monitoring point?
  - ☐ Surface Water (*visible sheen*)
  - ☐ Groundwater (*1/8" or greater thickness*)
    Location/Thickness:

Contaminant Trends

- ☐ Do sampling results show an increasing concentration trend in any source area monitoring well?
  Well/Compound:
- ☒ Do sampling results indicate an AGQS violation in any of the GMZ boundary wells?
  Well/Compound: **MW-101/benzene, naphthalene**

Recommendations

- ☒ Does the report include any recommendations requiring DES action? (*Do not check this box if the only recommendation is to continue with existing permit conditions.*)

This form is to be completed for groundwater monitoring data submittals and periodic summary reports submitted to the New Hampshire Department of Environmental Services Waste Management Division.

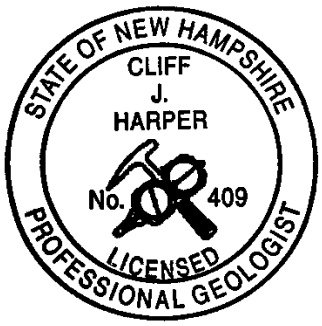
DES Waste Management Division
29 Hazen Drive; P.O. Box 95
Concord, NH 03302-0095

April 2020 Groundwater Data Submittal, Dissolved Contaminant Plume Delineation Report & 2020 Periodic Summary Report

Mr. Mike's Antrim
74 Main Street
Antrim, New Hampshire

NHDES Site #: 198904014
Project Type: LUST
Project Number: 0000764

Prepared For:
74 North Main Street Antrim, LLC
4235 Beaumont Road
Dover, PA 17315
Phone Number: 1-877 717-2782
RP Contact Name: Dinkar Ganti
dinkar.ganti@gmail.com



Prepared By:
Harper Environmental Associates, Inc.
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
Phone Number: (802) 672-6112
Contact Name: Cliff Harper
Contact Email: cliff@harperenv.com

Date of Report: June 24, 2020

June 24, 2020

Permits Coordinator
Oil Remediation and Compliance Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, P.O. Box 95
Concord, NH 03302-0095

Subject: April 2020 Groundwater Management Permit Data Submittal, Dissolved Contaminant Plume Delineation Report, and 2020 Periodic Summary Report: Mr. Mike's Antrim, 74 Main Street, Antrim, New Hampshire (NHDES #198904014; LUST Project #0000764)

Dear Coordinator:

Groundwater sampling was completed at the Mr. Mike's Antrim site on April 6, 2020, following the expansion of the groundwater monitoring well network on March 11 & 18, 2020. This report contains the following three parts:

1. An *April 2020 Groundwater Management Permit (GMP) Data Submittal*, which summarizes sampling results for three pre-existing and one newly-installed onsite monitoring wells (MWs) and three newly-installed offsite MWs, located at adjacent properties to the north and south of the site;
2. A *Dissolved Contaminant Plume Delineation Report*, which includes a summary of recent monitoring well installations, as requested by NHDES in the April 23, 2019 reply letter to HEA's Supplemental Site Investigation Report, submitted January 25, 2019; and
3. A *Periodic Summary Report*, which includes a presentation of groundwater quality data for the period 2017-2020, groundwater data trends, groundwater gradients, petroleum contaminant distributions, human receptor information, an updated conceptual site model, and recommendations for further site activities.

1. April 2020 GMP Data Submittal

Twice-yearly groundwater monitoring under the current Groundwater Management Permit (GMP) is scheduled to occur during April and November of each year. The November 2019 groundwater sampling event was postponed pending expansion of the MW network. Due to difficulties in obtaining property owner permissions and weather delays, the new MWs were not installed until March 2020, with the result that the November 2019 groundwater sampling event did not take place.

On April 6, 2020, static water levels were gauged and groundwater was sampled from the existing onsite wells MW-1, MW-101 and MW-102; the new onsite well, MW-4; and new offsite wells, MW-2, MW-5 and MW-6 (Figure 2). The onsite wells MW-3, MW-105 and RW-1R2 could not be located at the time of sampling. A metal detector search was unsuccessful due to large amounts of scrap metal/debris encountered at the site.

1.1 Groundwater Sampling Method

Prior to sampling, the MWs were gauged from the top of the well casing to groundwater to 1/100th of a foot with a Solinst interface meter. The wells were then purged of 3-5 well volumes of water using disposable bailers. Groundwater was collected in 40mL glass VOAs preserved with hydrochloric acid and placed in an iced cooler.

1.2 Laboratory Analytical Method

Groundwater samples were sent to Eastern Analytical, Inc. in Concord, NH via currier service. Samples were shipped on ice to maintain a temperature of 4-6°C. The samples were analyzed via EPA Methods 8260C and 8270D for volatile organic compounds (VOCs; NH Full List) and polycyclic aromatic hydrocarbons (PAHs), respectively; PAH samples were filtered in the field.

1.3 Depth to Groundwater and Groundwater Flow Direction

Groundwater elevation data from the April 6, 2020 and prior groundwater sampling events are summarized in Table 1. April 2020 depth-to-groundwater measurements ranged from 5.95 to 7.1 feet below the top of the well casing. The groundwater contours plotted during this sampling period indicate that groundwater beneath the site flows to the west/southwest at a gradient of approximately 3.3% (Figure 3A; gradient calculated from groundwater elevations for MWs 1 and 4).

1.4 Groundwater Analytical Results

Analytical results from the April 6, 2020 and prior groundwater sampling events are summarized in Tables 2 (VOCs) and 3 (PAHs). The complete laboratory analytical results for this sampling event are included in the appendix to this report.

- Groundwater from MW-101 contained concentrations of 11 VOCs and 3 PAHs, including concentrations of benzene (32 parts per billion [ppb]) and naphthalene (160 ppb) that exceeded the New Hampshire Ambient Groundwater Quality Standards (AGQS);
- Groundwater from MW-102 contained concentrations of eight VOCs and 3 PAHs, none of which exceeded the AGQS; and
- Groundwater from MW-1 and MW-4 contained minor (i.e., non-exceedance) concentrations of three PAHs (naphthalene/methylnaphthalenes), none of which exceeded the AGQS. No VOCs were detected above reporting limits; and
- No VOCs or PAHs were detected above reporting limits in groundwater from MW-5 and MW-6.

2. Monitoring Well Installation and Dissolved Contaminant Plume Delineation Report

A total of four new MWs were installed to the north, south and east of the existing MW network, in order to define the limits of the dissolved-phase contaminant plume at the site. A *Dissolved Contaminant Plume Delineation Report* is provided, as requested by NHDES in the April 23, 2019 reply letter to HEA's Supplemental Site Investigation Report, submitted January 25, 2019.

2.1 Soil Borings and Well Completions

On March 11 & 18, 2020, HEA oversaw the advancement four soil borings, all of which were completed as permanent two-inch monitoring wells (MWs 2, 4, 5 and 6; Figure 2); a fifth boring, to the north of MW-6, could not be completed due to constant refusals at shallow depths. The soil borings were advanced using a truck-mounted hollow-stem auger to depths of approximately 15 feet below ground surface (fbgs). Presumed bedrock was encountered during drilling from 5 to 15 fbgs. The water table occurrence was observed at approximately 7 fbgs during drilling.

During drilling activities, soil samples were collected continuously and field-screened for the presence of volatile organic compounds (VOCs) using a calibrated photoionization detector (PID) with a 10.6 eV lamp. As detailed in the Soil Boring Logs (Appendix A), elevated PID readings were observed for samples from MW-4, with peak readings recorded for the 8 to 10 fbgs interval (22 parts per million [ppm]). Soils from other borings were consistently negative for VOCs (<1 ppm).

At each boring location, one soil sample was collected for laboratory analysis from where the soil exhibited elevated PID readings, the field-interpreted groundwater table interface, or at the bottom of the completed soil boring. A total of four soil samples were collected for analysis from the five borings. The soil samples were collected from the following intervals: MW-2 (6-8 fbgs), MW-4 (8-10 fbgs), MW-5 (13-15 fbgs), MW-6 (13-15 fbgs). Soil samples were stored in a cooler with ice and transported via UPS overnight delivery to Phoenix Laboratories, Inc. in Manchester, CT for analysis of VOCs via EPA Method 8260C and semi-volatile organic compounds (SVOCs) via EPA Method 8270D. Due to unannounced shipping delays due to the pandemic, the samples were not delivered overnight and were received by the analytical laboratory at elevated temperatures. Replacements were not available and the samples were never analyzed.

Soil cuttings were drummed and removed from the site upon completion of well installation activities. Drummed waste from previous (2017) well installation work, which had been stored at the site, was also removed. This included one 55-gallon drum of non-hazardous soil cuttings and one 55-gallon drum of purge water generated during well development and sampling activities.

2.2 Groundwater Sampling

As described in the *April 2020 GMP Data Submittal*, above, static water levels were gauged and groundwater was sampled from three pre-existing onsite wells (MW-1, MW-101 and MW-102) and the four new wells (MWs 2, 4, 5 and 6) on April 6, 2020 (Figure 2). The onsite wells MW-3, MW-105 and RW-1R2 could not be located at the time of sampling.

Upon arrival onsite, the wells were opened and gauged for the possible presence of free product and the occurrence of the water table using an oil/water interface probe. No evidence of free product (NAPL) was detected at any well. Using groundwater gauging data, the well volume at each monitoring well was calculated and each well was purged of three full well volumes of groundwater. Subsequent to purging each well, groundwater samples were collected in laboratory prepared glassware and prepared for shipment. All groundwater samples were stored in a cooler with ice and transported via currier to Eastern Analytical, Inc. in Concord, NH for analysis of VOCs via EPA Method 8260C and semi-volatile organic compounds (SVOCs) via EPA Method 8270D.

2.3 Groundwater Analytical Results

Analytical results from the April 6, 2020 and prior groundwater sampling events are summarized in Tables 2 (VOCs) and 3 (PAHs). The complete laboratory analytical results for this sampling event are included in the appendix to this report.

- Groundwater from MW-1 contained measurable concentrations of three PAHs, none of which exceeded the AGQS. No VOCs were detected;
- Groundwater from MW-4 contained measurable concentrations of two PAHs, none of which exceeded the AGQS. No VOCs were detected;
- Groundwater from MW-101 contained concentrations of 11 VOCs and three PAHs, including concentrations of benzene (32 ppb) and naphthalene (160 ppb) that exceeded the AGQS;
- Groundwater from MW-102 contained concentrations of eight VOCs and three PAHs, none of which exceeded the AGQS; and
- No VOCs or PAHs were detected above reporting limits in groundwater from MW-2, MW-5 and MW-6.

2.4 Groundwater Dynamics and Contaminant Distribution

Static water measurements from the April 6, 2020 sampling event indicate that groundwater beneath the site flows to the west/southwest at a depth of approximately 6 to 7 fbgs. The calculated horizontal gradient between wells MW-4 and MW-1 was 3.3% (Figure 3A). Static water measurements from the three previous sampling events have suggested a relatively flat water table with groundwater flowing to the south/southeast (Figure 3B), general north (Figure 3C) and east (Figure 3D) at a horizontal gradient of <1%.

As illustrated in Figure 4A, dissolved-phase contamination at the site is presently concentrated in the area of MW-101, near the eastern site boundary; groundwater from this well contained concentrations of benzene (32 ppb) and naphthalene (160 ppb) that exceeded the AGQS. No VOC or PAH exceedances were recorded for any other well during the April 2020 sampling event. Minor concentrations of VOCs and/or PAHs were detected in MW-4 and MW-102, also located near the eastern site boundary, to the north and south, respectively, of MW-101. No VOCs or PAHs were detected above reporting limits in the other sampled wells.

Site wells MW-3, MW-105 and RW-1R2 could not be located and were not sampled during the April 2020 sampling event. PAH exceedances were recorded for two of these wells, MW-3 and RW-1R2, during the November 2017 sampling round (i.e., the last time PAH concentrations were evaluated at the site); minor concentrations of several VOCs were also present in groundwater

from RW-1R2. No petroleum compounds were detected above reporting limits in groundwater from MW-105 during the November 2017 sampling event. A Contaminant Distribution Map from the November 2017 sampling event is provided as Figure 4B.

Current data suggest there is a diminishing VOC plume at the site, centered in the vicinity of MW-101. A comparison of dissolved VOC concentrations at the site during the November 2017 (Figure 4B) and April 2020 (Figure 4A) sampling events shows that the number of AGQS exceedances for VOCs has decreased from 12 to 2, and the number of wells with AGQS exceedances for VOCs has decreased from 3 to 1. Total VOC concentrations have diminished as well, with reductions of approximately 76% and 97% being observed in MW-101 and MW-102, respectively. (Note: Seasonal variations in dissolved contaminant concentrations have been observed at the site, however [see data for MW-1 in Table 2].

As to the horizontal extent of the VOC plume, groundwater monitoring data from recent sampling events show only minor impacts, if any, in wells MW-1 (ND for VOCs in April 2019 and April 2020), MW-3 (historically ND for VOCs except for minor, occasional MTBE concentrations), MW-105 (ND in November 2017; not sampled since) and RW-1R2 (ND for VOCs in April 2019; no VOC exceedances since 2015). The absence of significant concentrations of dissolved VOCs in these wells places the western limit of the VOC plume in the area between MW-101 and RW-1R2. The absence of dissolved VOCs in groundwater from MW-4 and MW-5 defines the horizontal extent of the plume to the north and south, respectively. The eastern limit of the VOC plume is less well defined, due to refusal during drilling of an additional offsite well to the north of MW-6. The contours of the representative naphthalene plume (April 2020) are depicted in Figure 4A.

The lateral extent of the PAH plume, formerly concentrated around MW-3 and RW-1R2 (Figure 4B), is well defined to the north and east, where only minor concentrations of naphthalene and methylnaphthalene isomers were detected in groundwater from MWs 1, 4, 101 and 102 during the April 2020 sampling event. The plume remains undefined to the south and west, however. A comparison of dissolved PAH concentrations for the November 2017 and April 2020 sampling events indicates that naphthalene/methylnaphthalene concentrations in groundwater from MWs 101 and 102 decreased by greater than 90%. Quantitative changes in other dissolved PAH constituents could not be evaluated due to the lack of current groundwater analytical data for MW-3 and RW-1R2.

3. Periodic Groundwater Quality Summary Report, 2017-2020

A total of four groundwater sampling events have taken place at the site since the last Periodic Summary Report was completed: April 2017, November 2017, April 2019 and April 2020.

3.1 April 2017 Sampling Event

On April 3, 2017, a former environmental consultant for the site, ATC Group Services, LLC (ATC), collected static water measurements and groundwater samples from monitoring wells MW-1, MW-3, and replacement well RW-1R2. Groundwater was determined to flow to the east at a depth of approximately eight feet and a horizontal gradient of <1% (Figure 3D; note: the Figure erroneously indicates groundwater flow to the west). Groundwater samples were analyzed for VOCs. The following analytical results were reported (Table 2):

- Groundwater from MW-1 contained minor concentrations of five VOCs, none of which exceeded the AGQS; and.
- No VOCS were detected above reporting limits in groundwater from MW-3 and RW-1R2.

3.2 November 2017 Sampling Event

On November 9, 2017, as summarized in HEA's *Supplemental Site Investigation Report* submitted to NHDES on January 25, 2019, a former environmental consultant for the site, EPS of Vermont (EPSVT), collected static water measurements and groundwater samples from MW-1, MW-3 and RW-1R2 and three newly installed wells, MW-101, MW-102 and MW-105. Groundwater was determined to flow generally to the north, with a northeastern flow component on the west side of the site and a northwestern flow component on the east side of the site, at a depth of approximately eight feet and a horizontal gradient of <1% (Figure 3C). Groundwater samples were analyzed for VOCs, PAHs and TPH. The following analytical results were reported (Tables 2 and 3):

- Groundwater from MW-1 contained gasoline-range petroleum hydrocarbons and measurable concentrations of 11 VOCs, <u>including a concentration of benzene (12 ppb) that exceeded the AGQS</u>. No SVOCs were detected;
- Groundwater from MW-3 contained measurable concentrations of seven SVOCs, <u>including concentrations of benzo(a)anthracene (0.32 ppb), benzo(a)pyrene (0.29 ppb) and indeno(1,2,3-cd)pyrene (0.13 ppb) that exceeded the AGQS</u>. No VOCs or petroleum hydrocarbons were detected;
- Groundwater from RW-1R2 contained minor quantities of diesel- and gasoline-range petroleum hydrocarbons and measureable concentrations of 12 VOCs and SVOCs,

including a concentration of benzo(a)anthracene (0.15 ppb) that exceeded the AGQS;

- Groundwater from MW-101 contained gasoline-range petroleum hydrocarbons and measurable concentrations of 10 VOCs, including concentrations of benzene (97 ppb), ethylbenzene (2200 ppb), naphthalene (520 ppb) and trimethylbenzene isomers (total, 2640 ppb) that exceeded the AGQS. No SVOCs were detected (reporting limits for SVOCs were elevated);
- Groundwater from MW-102 contained gasoline-range petroleum hydrocarbons and measurable concentrations of 11 VOCs, including concentrations of benzene (35 ppb), ethylbenzene (3400 ppb), naphthalene (600 ppb), trimethylbenzene isomers (total, 2910 ppb), n-propylbenzene (340 ppb), toluene (3600 ppb) and xylenes (10,700 ppb) that exceeded the AGQS. No SVOCs were detected (reporting limits for SVOCs were elevated); and
- No petroleum hydrocarbons, VOCs or SVOCs were detected above reporting limits in groundwater from MW-105.

3.3 April 2019 Sampling Event

On April 30, 2019, HEA collected static water measurements and groundwater samples from MW-1, MW-101 and RW-1R2; MW-101 was gauged and sampled in place of MW-3, which was buried under debris at the time of sampling (a metal detector was used to locate MW-3 but was unsuccessful due to the amount of scrap metal encountered at the site). Groundwater was determined to flow to the south/southeast at a depth of approximately seven feet and a horizontal gradient of <1%. Groundwater samples were analyzed for VOCs. The following analytical results were reported (Table 2):

- Groundwater from MW-101 contained concentrations of 12 petroleum compounds, three of which exceeded the AGQS. AGQS exceedances included benzene (26 ppb), naphthalene (140 ppb) and 1,2,4-trimethylbenzene (690 ppb); and
- No VOCs were detected above reporting limits in groundwater from MW-1 and RW-1R2.

3.4 April 2020 Sampling Event

As summarized in the *April 2020 Data Submittal* above, on April 6, 2020, static water levels were gauged and groundwater was sampled from the existing onsite wells MW-1, MW-101 and MW-102; the new onsite well, MW-4; and new offsite wells, MW-2, MW-5 and MW-6 (Figure 2). The onsite wells MW-3, MW-105 and RW-1R2 could not be located at the time of sampling. Groundwater was determined to flow to the west/southwest at a depth of approximately 6.5 feet and a horizontal gradient of approximately 3.3%. Groundwater samples were analyzed for VOCs and PAHs. The following analytical results were reported (Tables 2 and 3):

- Groundwater from MW-101 contained concentrations of 11 VOCs and 3 PAHs, including concentrations of benzene (32 parts per billion [ppb]) and naphthalene (160 ppb) that exceeded the New Hampshire Ambient Groundwater Quality Standards (AGQS);
- Groundwater from MW-102 contained concentrations of eight VOCs and 3 PAHs, none of which exceeded the AGQS; and
- Groundwater from MW-1 and MW-4 contained minor (i.e., non-exceedance) concentrations of three PAHs (naphthalene/methylnaphthalenes), none of which exceeded the AGQS. No VOCs were detected above reporting limits; and
- No VOCs or PAHs were detected above reporting limits in groundwater from MW-5 and MW-6.

3.5 Contaminant Trends - VOCs

Graphs 1-9 show the concentration trends of VOCs for which AGQS exceedances have been recorded since February 2005.

- **MTBE:** Graph 1 illustrates MTBE trends for the historically impacted wells MW-1, MW-3 and RW-1R/1R2. Exceedance values of MTBE were last recorded for the site in 2008 (MW-1); MTBE was last detected at monitoring points MW-3 and RW-1R2 during the November 2016 sampling event.
- **Benzene:** Graph 2 illustrates benzene trends for the historically impacted wells MW-1, RW-1R/1R2, MW-101 and MW-102. Benzene concentrations in groundwater sampled from RW-1R/1R2 have diminished from their historical highpoint in April 2008, but remained elevated at exceedance levels through December 2015. Benzene exceedances have been recorded for MW-1 for the five most recent fall sampling, with minor or no concentrations detected during spring sampling events, including the two most recent ones, which were the sole events for 2019 and 2020. Benzene was detected at exceedance levels in MWs 101 and 102 following their installation in 2017; benzene exceedances have persisted in MW-101, but not MW-102. A benzene concentration of 32 ppb in MW-101 was the only such exceedance recorded for the April 2020 sampling round.
- **Ethylbenzene:** Graph 3 illustrates ethylbenzene trends for the historically impacted wells MW-1, RW-1R/1R2, MW-101 and MW-102. Concentrations of ethylbenzene exceeding the AGQS were recorded for MWs 101 and 102 when they were first sampled in November 2017, but not since.
- **Toluene:** Graph 4 illustrates toluene trends for the historically impacted wells MW-1, RW-1R/1R2, MW-101 and MW-102. A concentration of toluene exceeding the AGQS was

recorded for MW-102 when it was first sampled in November 2017; this represents the only exceedance for this compound at the site. Minor concentrations toluene persist in groundwater from MWs 101 and 102.

- **Xylenes:** Graph 5 illustrates total xylene trends for the historically impacted wells MW-1, RW-1R/1R2, MW-101 and MW-102. A concentration of xylenes exceeding the AGQS was recorded for MW-102 when it was first sampled in November 2017; this represents the only exceedance for this compound at the site. Minor concentrations of xylenes persist in groundwater from MWs 101 and 102.
- **N-Propylbenzene:** Graph 6 illustrates n-propylbenzene trends for the historically impacted wells MW-1, RW-1R/1R2, MW-101 and MW-102. A concentration of n-propylbenzene exceeding the AGQS was recorded for MW-102 when it was first sampled in November 2017; this represents the only exceedance for this compound at the site. Minor concentrations of n-propylbenzene persist in groundwater from MWs 101 and 102.
- **Naphthalene:** Graph 7 illustrates naphthalene trends for the historically impacted wells MW-1, RW-1R/1R2, MW-101 and MW-102. Naphthalene was detected at exceedance levels in MWs 101 and 102 following their installation in 2017; naphthalene exceedances have persisted in MW-101, but not MW-102. A naphthalene concentration of 160 ppb in MW-101 was the only such exceedance recorded for the April 2020 sampling round.
- **1,2,4-Trimethylbenzene:** Graph 8 illustrates 1,2,4-trimethylbenzene trends for the historically impacted wells MW-1, RW-1R/1R2, MW-101 and MW-102. 1,2,4-trimethylbenzene levels exceeding the AGQS were first recorded in MWs 101 and 102 during the November 2017 sampling event. A second exceedance was recorded for MW-101 during the April 2019 sampling event. Only minor concentrations of this compound were detected in groundwater during the April 2020 sampling round.
- **1,3,5-Trimethylbenzene:** Graph 8 illustrates 1,3,5-trimethylbenzene trends for the historically impacted wells MW-1, RW-1R/1R2, MW-101 and MW-102. 1,3,5-trimethylbenzene levels exceeding the AGQS were first recorded in MWs 101 and 102 during the November 2017 sampling event; only minor concentrations have been recorded at these sampling points since.

3.6 Human Receptor Information

A human receptor map and accompanying table of human receptor information are provided. The map (Figure 6) shows all neighboring properties and known private water supply wells within a 1,000-foot radius of the Groundwater Management Zone. The accompanying table (Table 4) includes, for each listed property, the associated tax map and lot number; address; owner's name(s) and address(es); property usage; and private water supply well status.

3.7 Conceptual Site Model

In August 1988, three gasoline USTs and two smaller USTs containing waste oil and heating oil were removed from the site. Approximately 350 cubic yards of petroleum impacted soil were excavated at that time. New gasoline and diesel tanks were installed and used until 2009, when they were closed in place; these tanks were removed from the site in 2015.

Groundwater contamination above the AGQS was initially detected in site wells in 1989. A Groundwater Management Zone (GMZ) was established for the site in 1992, and groundwater quality has been monitored under a Groundwater Management Permit (GMP) since that time. Previous remedial efforts at the site included the use of an in-situ submerged oxygen curtain (iSOC) in 2002 and bio-augmentation via the addition of live bacterial cultures in 2004 to remediate residual petroleum contaminant levels in groundwater at the site. Significant improvements in groundwater quality were observed, though exceedances of the AGQS persisted for benzene and MTBE upon completion of the intervention.

In 2015, two gasoline USTs and one diesel UST that had been previously (2009) closed in place were removed from the site, along with 297.35 tons of petroleum impacted soil. Confirmatory soil sampling indicated the presence of residual contamination at the eastern limit of excavation. Further excavation was prohibited by the proximity to Main Street. A *Supplemental Site Investigation Report* submitted to NHDES on January 25, 2019 concluded that petroleum impacted soils left along the Main Street roadway were a contributing source of dissolved phase petroleum compounds impacting groundwater along the eastern site boundary (i.e., MW-101 and MW-102). Contamination appeared to be primarily from gasoline. Exceedances of PAHs other than naphthalene/methylnaphthalene measured in groundwater from monitoring wells MW-3 and RW-1R2, however, were thought to evidence a separate area of waste oil contamination.

As described in the *Dissolved Contaminant Plume Delineation Report* provided in Section 2 of this document, four additional groundwater monitoring wells were installed in March 2020, and a total of seven wells were gauged and sampled on April 6, 2020. Groundwater was determined to flow to the west/southwest at a depth of approximately 6.5 feet (Figure 3A). Groundwater analytical results from that sampling event indicated a diminishing VOC plume centered around MW-101, with no evidence of lateral extent beyond the site and adjacent Main Street roadway (Figure 4A). The lateral extent of the PAH plume, formerly concentrated around MW-3 and RW-1R2 (Figure 4B), is well defined to the north and east, where only minor concentrations of naphthalene and methylnaphthalene isomers were detected in groundwater from MWs 1, 4, 101 and 102 during the April 2020 sampling event, but remains undefined to the south and west.

3.8 Sensitive Receptors and Migration Pathways

Mill Pond, located approximately 100 feet west of the site; Great Brook that feeds and drains it; and the Contoocook River, located approximately 1,800 feet to the east, are potential sensitive receptors. The absence of VOCs in groundwater sampled from the westernmost wells MW-3 and MW-105 suggests that a significant impact to these receptors is unlikely. No other potential sensitive receptors were identified in the site vicinity. Surrounding homes and businesses are all connected to the municipal water supply.

Underground utilities along Main Street, including storm water, water, sewer, and electrical lines, could provide potential migration pathways for contaminants on- and off-site. However, given the low residual concentrations in groundwater, the southwesterly groundwater flow direction (i.e., away from Main Street) on the eastern side of the site, and the observed depth to groundwater (which is typically greater than the inferred utility depths), they are not expected to be migration pathways.

3.9 Recommendations

In consideration of the information summarized in this Periodic Summary Report, HEA recommends that:

1. The western portion of the site be cleared of excess soil and debris prior to the next sampling event, so that all extant monitoring wells can be located and accessed;
2. All seven onsite and three offsite wells be gauged and sampled in November 2020, with samples analyzed for VOCs and PAHs (PAH samples to be filtered in the field);
3. An updated *Dissolved Contaminant Plume Delineation Report* be prepared and transmitted to NHDES with the November 2020 data submittal; and
4. No changes will be made at this time to the boundaries of the Groundwater Management Zone.

If you have any questions with the summary of field procedures and analytical results presented in this report, please contact us at (802) 672-6112.

Sincerely,

Harper Environmental Associates. Inc

Cliff Harper, PG
Principal
Cliff Harper, PG

Attachments:	Tables 1-3:	Groundwater Elevations & Analytical Results
	Table 4:	Human Receptor Information
	Figure 1:	Site Locus Map
	Figure 2	Site Map
	Figure 3A:	Groundwater Gradient Map, April 2020
	Figure 3B:	Groundwater Gradient Map, April 2019
	Figure 3C:	Groundwater Gradient Map, November 2017
	Figure 3D:	Groundwater Gradient Map, April 2017
	Figure 4A:	Contaminant Distribution Map, April 2020
	Figure 4B:	Contaminant Distribution Map, April 2019
	Figure 5:	Groundwater Management Zone
	Figure 6:	Human Receptor Map
	Graphs 1-9:	Contaminant Trends, 2005-2020
	Appendix A:	Soil Boring/Well Logs
	Appendix B:	Groundwater Analytical Reports, 2017-2020

Cc: Mr. Dinkar Ganti, Responsible Party

Table 1. Groundwater Elevations, Mr. Mike's Antrim, 2006-2020

	4/5/2006	11/1/2006	4/18/2007	11/9/2007	4/9/2008	11/26/2008	4/23/2009	11/18/2009	4/30/2010	11/11/2010	4/20/2011	11/2/2011	4/18/2012	11/28/2012	4/30/2013	11/15/2013	4/9/2014	11/12/2014	4/1/2015	12/18/2015	4/4/2016	11/16/2016	11/9/2017	4/30/2019	4/6/2020
Monitoring Well:	**MW-1**																								
Casing Elevation (ft)	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	100.15	98.21	98.21	98.21
Depth to Water (ft)	8.25	8.14	6.02	8.41	6.63	7.58	7.32	7.89	7.47	7.29	6.5	6.39	8.76	8.57	7.68	9.48	6.35	8.35	7.24	8.3	7.42	9.5	8.06	6.73	6.89
GW Elevation (ft)	**91.9**	**92.01**	**94.13**	**91.74**	**93.52**	**92.57**	**92.83**	**92.26**	**92.68**	**92.86**	**93.65**	**93.76**	**91.39**	**91.58**	**92.47**	**90.67**	**93.8**	**91.8**	**92.91**	**91.85**	**92.73**	**90.65**	**90.15**	**91.48**	**91.32**
Monitoring Well:	**MW-2**																								
Casing Elevation (ft)																									99.58
Depth to Water (ft)																									5.95
GW Elevation (ft)																									**93.63**
Monitoring Well:	**MW-3**																								
Casing Elevation (ft)	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	99.79	97.79	97.79	
Depth to Water (ft)	7.4	7.31	5.94	7.6	6.57	6.83	6.95	7.27	7.38	6.88	6.42	6.15	8.64	8.45	7.51	9.2	6.25	8.05	6.91	7.82	7.18	8.72	7.45	NG*	NG*
GW Elevation (ft)	**92.39**	**92.48**	**93.85**	**92.19**	**93.22**	**92.96**	**92.84**	**92.52**	**92.41**	**92.91**	**93.37**	**93.64**	**91.15**	**91.34**	**92.28**	**90.59**	**93.54**	**91.74**	**92.88**	**91.97**	**92.61**	**91.07**	**90.34**		
Monitoring Well:	**MW-4**																								
Casing Elevation (ft)																									100.73
Depth to Water (ft)																									7.1
GW Elevation (ft)																									**93.63**
Monitoring Well:	**MW-5**																								
Casing Elevation (ft)																									100.73
Depth to Water (ft)																									6.13
GW Elevation (ft)																									**94.6**
Monitoring Well:	**MW-6**																								
Casing Elevation (ft)																									101.44
Depth to Water (ft)																									6.72
GW Elevation (ft)																									**94.72**
Monitoring Well:	**RW-1R/1R2**																								
Casing Elevation (ft)	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.12	100.44	100.44	100.44	98.66	98.66	
Depth to Water (ft)	8.35	8.49	6.28	8.85	6.64	7.49	7.29	7.84	7.39	7.35	6.63	6.55	8.47	8.31	7.55	9.22	6.45	8.22	7	8.65	7.58	10.3	8.57	7.22	NG
GW Elevation (ft)	**91.77**	**91.63**	**93.84**	**91.27**	**93.48**	**92.63**	**92.83**	**92.28**	**92.73**	**92.77**	**93.49**	**93.57**	**91.65**	**91.81**	**92.57**	**90.9**	**93.67**	**91.9**	**93.12**	**91.79**	**92.86**	**90.14**	**90.09**	**91.44**	
Monitoring Well:	**MW-101**																								
Casing Elevation (ft)																							98.63	98.63	100.9
Depth to Water (ft)																							8.43	7.19	6.27
GW Elevation (ft)																							**90.2**	**91.44**	**94.63**
Monitoring Well:	**MW-102**																								
Casing Elevation (ft)																							98.54	98.54	100.9
Depth to Water (ft)																							8	NG	6.79
GW Elevation (ft)																							**90.54**		**94.11**
Monitoring Well:	**MW-105**																								
Casing Elevation (ft)																							98.4	98.4	
Depth to Water (ft)																							8.11	NG	NG
GW Elevation (ft)																							**90.29**		

NG = Not gauged

MWs 101, 102 and 103 were installed on October 25-26, 2017

*** MW-3 could not be located during the April 20, 2019 sampling event**

Table 2. Volatile Organic Compounds in Groundwater (EPA Method 8260), Mr. Mike's Antrim, 2004-2020

Analyte (µg/L)	MW-1																											NHDES AGQS
	2/9/2005	4/5/2006	11/1/2006	4/18/2007	11/9/2007	4/9/2008	11/26/2008	4/23/2009	11/18/2009	4/30/2010	11/11/2010	4/20/2011	11/2/2011	4/18/2012	11/28/2012	4/30/2013	11/15/2013	4/9/2014	11/12/2014	4/1/2015	12/18/2015	4/4/2016	11/16/2016	4/3/2017	11/9/2017	4/30/2019	4/6/2020	
Methyl-t-butyl ether (MtBE)	**35**	3	**35**	<2	**25**	<2	**13.4**	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.07	<1	4.6	<1	2.4	<1	<4	<1	<1	<1	<1	13
Benzene	**27**	**15**	**42**	<2	**62**	<2	**7.9**	<1	4.1	<1	3	<1	<1	<1	<1	<1	**8.21**	<1	**99**	1.4	**88**	<1	**110**	1.7	**12**	<0.7	<1	5
Toluene	13	12	26	<2	32	<2	2.1	<1	4.1	<1	2.1	1.5	<1	<1	<1	<1	<1	<1	3	<1	5.1	<1	<4	<1	1.3	<1	<1	1,000
Ethylbenzene	29	17	60	<2	95	<2	6.5	<1	6.4	<1	7	2.1	<1	<1	<1	<1	2.31	<1	16	2.1	31	<1	<4	4	8	<1	<1	700
Xylenes (Total)	109	71	139	<2	260	<2	8.6	<3	16.6	<3	11.8	8.5	<3	<3	<3	<3	2.02	<3	6.1	8.8	32	<3	<12	15	20	<1	<1	10,000
Isopropylbenzene	3	<2	7	<2	8	<2	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	5.1	<1	7.9	<1	<4	<1	8	<1	<1	800
p-Isopropyltoluene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	<1	<1	<1	260
Naphthalene	17	<5	22	<5	34	<5	4.7	<1	1.5	<1	2.7	<1	<1	<1	<1	<1	1.33	<1	6.7	<2	13	<2	<8	<2	8.6	<1	<1	100
n-Propylbenzene	7	2	14	<2	17	<2	4	<1	1.6	<1	2.3	<1	<1	<1	<1	<1	<1	<1	6.8	<1	11	<1	<4	<1	4.1	<1	<1	260
n-Butylbenzene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	2.4	<1	<4	<1	1.6	<1	<1	260
sec-Butylbenzene	<2	<2	<2	<2	<2	<2	2.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.8	<1	2.4	<1	<4	<1	1.6	<1	<1	260
1,2,4-Trimethylbenzene	110	36	180	<2	260	<2	14.9	2.1	20.2	<1	24.8	5	<1	<1	<1	<1	5.53	<1	59	5.5	79	1.1	<4	2.4	68	<1	<1	330
1,3,5-Trimethylbenzene	16	9	30	<2	50	<2	3.4	<1	4.3	<1	4	1.6	<1	<1	<1	<1	<1	<1	4.2	1.2	4.2	<1	<4	2.1	11	<1	<1	330
TOTAL VOCs	**366**	**165**	**555**	**<5**	**843**	**<2**	**68.3**	**2.1**	**58.8**	**<3**	**58.8**	**18.7**	**<3**	**<3**	**<3**	**<3**	**20.47**	**<3**	**214.3**	**19**	**278.4**	**<3**	**110**	**25.2**	**144.2**	**<1**	**<1**	NL

Analyte (µg/L)	MW-2																											NHDES AGQS
	2/9/2005	4/5/2006	11/1/2006	4/18/2007	11/9/2007	4/9/2008	11/26/2008	4/23/2009	11/18/2009	4/30/2010	11/11/2010	4/20/2011	11/2/2011	4/18/2012	11/28/2012	4/30/2013	11/15/2013	4/9/2014	11/12/2014	4/1/2015	12/18/2015	4/4/2016	11/16/2016	4/3/2017	11/9/2017	4/30/2019	4/6/2020	
Methyl-t-butyl ether (MtBE)																											<1	13
Benzene																											<1	5
Toluene																											<1	1,000
Ethylbenzene																											<1	700
Xylenes (Total)																											<1	10,000
Isopropylbenzene																											<1	800
p-Isopropyltoluene																											<1	260
Naphthalene																											<1	100
n-Propylbenzene																											<1	260
n-Butylbenzene																											<1	260
sec-Butylbenzene																											<1	260
1,2,4-Trimethylbenzene																											<1	330
1,3,5-Trimethylbenzene																											<1	330
TOTAL VOCs																											<1	NL

NHDES AGQS = New Hampshire Department of Environmental Services Ambient Groundwater Quality Standards
Results preceded by < indicate a value below the detection limit of the assay.
Values in Bold Shade exceed NHDES AGQS
NS = Not Sampled; NA = Not Analyzed; NL = no AGQS listed
MW-2 was installed on March 18, 2020

Table 2. Volatile Organic Compounds in Groundwater (EPA Method 8260), Mr. Mike's Antrim, 2004-2020 (Continued)

Analyte (µg/L)	MW-3																										NHDES AGQS
	11/29/2004	4/5/2006	11/1/2006	4/18/2007	11/9/2007	4/9/2008	11/26/2008	4/23/2009	11/18/2009	4/30/2010	11/11/2010	4/20/2011	11/2/2011	4/18/2012	11/28/2012	4/30/2013	11/15/2013	4/9/2014	11/12/2014	4/1/2015	12/18/2015	4/4/2016	11/16/2016	4/3/2017	11/9/2017	4/30/2019	4/6/2020	
Methyl-t-butyl ether (MtBE)	1	<2	<2	<2	8	<2	<1	1.7	<1	2.9	<1	<1	<1	<1	<1	2.05	<1	<1	<1	<1	<1	<1	3.4	<1	<1	NS*	NS*	13
Benzene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.7			5
Toluene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			1,000
Ethylbenzene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			700
Xylenes (Total)	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			10,000
Isopropylbenzene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			800
p-Isopropyltoluene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			260
Naphthalene	<2	<5	<5	<5	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<1			100
n-Propylbenzene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			260
n-Butylbenzene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			260
sec-Butylbenzene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			260
1,2,4-Trimethylbenzene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			330
1,3,5-Trimethylbenzene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			330
TOTAL VOCs	**1**	**<2**	**<2**	**<2**	**8**	**<2**	**<1**	**1.7**	**<1**	**2.9**	**<1**	**<1**	**<1**	**<1**	**<1**	**2.05**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**3.4**	**<2**	**<1**			NL

Analyte (µg/L)	MW-4																										NHDES AGQS
	2/9/2005	4/5/2006	11/1/2006	4/18/2007	11/9/2007	4/9/2008	11/26/2008	4/23/2009	11/18/2009	4/30/2010	11/11/2010	4/20/2011	11/2/2011	4/18/2012	11/28/2012	4/30/2013	11/15/2013	4/9/2014	11/12/2014	4/1/2015	12/18/2015	4/4/2016	11/16/2016	4/3/2017	11/9/2017	4/30/2019	4/6/2020	
Methyl-t-butyl ether (MtBE)																											<1	13
Benzene																											<1	5
Toluene																											<1	1,000
Ethylbenzene																											<1	700
Xylenes (Total)																											<1	10,000
Isopropylbenzene																											<1	800
p-Isopropyltoluene																											<1	260
Naphthalene																											<1	100
n-Propylbenzene																											<1	260
n-Butylbenzene																											<1	260
sec-Butylbenzene																											<1	260
1,2,4-Trimethylbenzene																											<1	330
1,3,5-Trimethylbenzene																											<1	330
TOTAL VOCs																											<1	NL

NHDES AGQS = New Hampshire Department of Environmental Services Ambient Groundwater Quality Standards
Results preceded by < indicate a value below the detection limit of the assay.
Values in Bold Shade exceed NHDES AGQS
NS = Not Sampled; NA = Not Analyzed; NL = no AGQS listed
*** MW-3 could not be located during the April 2019 and April 2020 sampling events**
MW-4 was installed on March 18, 2020

Table 2. Volatile Organic Compounds in Groundwater (EPA Method 8260), Mr. Mike's Antrim, 2004-2020 (Continued)

Analyte (µg/L)	MW-5																										NHDES AGQS
	2/9/2005	4/5/2006	11/1/2006	4/18/2007	11/9/2007	4/9/2008	11/26/2008	4/23/2009	11/18/2009	4/30/2010	11/11/2010	4/20/2011	11/2/2011	4/18/2012	11/28/2012	4/30/2013	11/15/2013	4/9/2014	11/12/2014	4/1/2015	12/18/2015	4/4/2016	11/16/2016	4/3/2017	11/9/2017	4/30/2019	4/6/2020	
Methyl-t-butyl ether (MtBE)																											<1	13
Benzene																											<1	5
Toluene																											<1	1,000
Ethylbenzene																											<1	700
Xylenes (Total)																											<1	10,000
Isopropylbenzene																											<1	800
p-Isopropyltoluene																											<1	260
Naphthalene																											<1	100
n-Propylbenzene																											<1	260
n-Butylbenzene																											<1	260
sec-Butylbenzene																											<1	260
1,2,4-Trimethylbenzene																											<1	330
1,3,5-Trimethylbenzene																											<1	330
TOTAL VOCs																											<1	NL

Analyte (µg/L)	MW-6																										NHDES AGQS
	2/9/2005	4/5/2006	11/1/2006	4/18/2007	11/9/2007	4/9/2008	11/26/2008	4/23/2009	11/18/2009	4/30/2010	11/11/2010	4/20/2011	11/2/2011	4/18/2012	11/28/2012	4/30/2013	11/15/2013	4/9/2014	11/12/2014	4/1/2015	12/18/2015	4/4/2016	11/16/2016	4/3/2017	11/9/2017	4/30/2019	4/6/2020	
Methyl-t-butyl ether (MtBE)																											<1	13
Benzene																											<1	5
Toluene																											<1	1,000
Ethylbenzene																											<1	700
Xylenes (Total)																											<1	10,000
Isopropylbenzene																											<1	800
p-Isopropyltoluene																											<1	260
Naphthalene																											<1	100
n-Propylbenzene																											<1	260
n-Butylbenzene																											<1	260
sec-Butylbenzene																											<1	260
1,2,4-Trimethylbenzene																											<1	330
1,3,5-Trimethylbenzene																											<1	330
TOTAL VOCs																											<1	NL

NHDES AGQS = New Hampshire Department of Environmental Services Ambient Groundwater Quality Standards
Results preceded by < indicate a value below the detection limit of the assay.
Values in Bold Shade exceed NHDES AGQS
NS = Not Sampled; NA = Not Analyzed; NL = no AGQS listed
MWs 5 and 6 were installed on March 18, 2020

Table 2. Volatile Organic Compounds in Groundwater (EPA Method 8260), Mr. Mike's Antrim, 2004-2020 (Continued)

Analyte (µg/L)	RW-1R/1R2																											NHDES AGQS
	2/9/2005	4/5/2006	11/1/2006	4/18/2007	11/9/2007	4/9/2008	11/26/2008	4/23/2009	11/18/2009	4/30/2010	11/11/2010	4/20/2011	11/2/2011	4/18/2012	11/28/2012	4/30/2013	11/15/2013	4/9/2014	11/12/2014	4/1/2015	12/18/2015	4/4/2016	11/16/2016	4/3/2017	11/9/2017	4/30/2019	4/6/2020	
Methyl-t-butyl ether (MtBE)	<2	3	**16**	3	2	4	1.7	1	<1	<1	<5	<1	<1	<1	<1	<5	<5	<5	<2	<2	3.4	<1	2	<1	<1	<1	NS	13
Benzene	3	**19**	**200**	**130**	**86**	**350**	**157**	**46.6**	**58.7**	**29.4**	**24.6**	**15.4**	**9.6**	**34.8**	**119**	**48**	**86.6**	**22.4**	**24**	**12**	**9.2**	<1	1.9	<1	0.9	<0.7		5
Toluene	<2	<2	24	7	18	34	1.7	<1	6.4	101	8.8	2.2	<1	<1	166	<5	<5	8.95	2.3	<2	3.6	<1	<1	<1	<1	<1		1,000
Ethylbenzene	<2	8	78	61	57	91	148	117	91.5	80	129	32.3	45.7	66.5	348	121	254	104	100	48	98	2.7	3.4	<1	2.7	<1		700
Xylenes (Total)	<2	<2	12	15	8	31	7.7	4.2	7.5	6.5	13.8	15.1	<3	1.8	177.3	7.55	12.4	72.8	4.1	6.6	24	3	<3	<1	<1	<1		10,000
Isopropylbenzene	<2	<2	5	4	5	7	9.5	18.9	6.9	19.9	10.3	11.3	9.6	13.3	21.3	15	20.1	25	15	13	14	<1	1.2	<1	1.3	<1		800
p-Isopropyltoluene	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<5	<2	<2	<2	<1	<1	<1	<1	<1		260
Naphthalene	<2	<5	<5	<5	<5	6	5	1.7	2.2	1.8	10.5	4	<1	1.5	26.5	6.4	12.4	20.6	<4	<4	34	<2	<2	<2	<1	<1		100
n-Propylbenzene	<2	<2	9	6	9	11	13.1	32.7	11.7	35	17.9	10.8	14.6	14.6	36.7	20.8	33	41.4	25	21	31	<1	1.1	<1	1.4	<1		260
n-Butylbenzene	<2	<2	<2	<2	<2	<2	3.9	4	1.5	5.1	<5	2.4	2.4	2.4	3.49	<5	5.8	5.95	2.7	3.1	3.8	<1	<1	<1	<1	<1		260
sec-Butylbenzene	<2	<2	<2	<2	<2	<2	3.6	3.9	1.5	4.6	<5	2.7	2.7	2.8	3.92	<5	<5	6.15	3.3	3.6	<2	<1	<1	<1	1.1	<1		260
1,2,4-Trimethylbenzene	<2	<2	5	16	6	24	7.6	24	4	33.8	23.5	27.9	1.4	2.4	29.2	8.1	6.6	154	<2	8.2	31	3.3	<1	<1	<1	<1		330
1,3,5-Trimethylbenzene	<2	<2	<2	<2	<2	<2	<1	<1	<1	37.8	5.3	1.2	<1	<1	5.83	<5	<5	18.4	<2	<2	<2	<1	<1	<1	<1	<1		330
TOTAL VOCs	**3**	**30**	**349**	**242**	**191**	**558**	**359**	**254**	**192**	**355**	**244**	**125**	**86**	**140**	**937**	**227**	**431**	**480**	**176**	**116**	**252**	**9**	**10**	**<2**	**7**	**<1**		NL

Analyte (µg/L)	MW-101																										NHDES AGQS
	2/9/2005	4/5/2006	11/1/2006	4/18/2007	11/9/2007	4/9/2008	11/26/2008	4/23/2009	11/18/2009	4/30/2010	11/11/2010	4/20/2011	11/2/2011	4/18/2012	11/28/2012	4/30/2013	11/15/2013	4/9/2014	11/12/2014	4/1/2015	12/18/2015	4/4/2016	11/16/2016	4/3/2017	11/9/2017	4/30/2019	4/6/2020	
Methyl-t-butyl ether (MtBE)																									<13*	<1	<1	13
Benzene																									**97**	**26**	**32**	5
Toluene																									520	74	40	1,000
Ethylbenzene																									**2200**	620	390	700
Xylenes (Total)																									6400	1200	570	10,000
Isopropylbenzene																									92	38	42	800
p-Isopropyltoluene																									<20*	3.1	5.2	260
Naphthalene																									**520**	**140**	**160**	100
n-Propylbenzene																									220	88	82	260
n-Butylbenzene																									23	7.1	<1	260
sec-Butylbenzene																									<20*	4.9	6.3	260
1,2,4-Trimethylbenzene																									**2100**	**690**	220	330
1,3,5-Trimethylbenzene																									**440**	180	150	330
TOTAL VOCs																									**12,612**	**3071**	**1697**	NL

NHDES AGQS = New Hampshire Department of Environmental Services Ambient Groundwater Quality Standards
Results preceded by < indicate a value below the detection limit of the assay.
Values in Bold Shade exceed NHDES AGQS
NS = Not Sampled; NA = Not Analyzed; NL = no AGQS listed.
***Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.**

Table 2. Volatile Organic Compounds in Groundwater (EPA Method 8260), Mr. Mike's Antrim, 2004-2020 (Continued)

Analyte (µg/L)	MW-102																											NHDES AGQS
	11/29/2004	4/5/2006	11/1/2006	4/18/2007	11/9/2007	4/9/2008	11/26/2008	4/23/2009	11/18/2009	4/30/2010	11/11/2010	4/20/2011	11/2/2011	4/18/2012	11/28/2012	4/30/2013	11/15/2013	4/9/2014	11/12/2014	4/1/2015	12/18/2015	4/4/2016	11/16/2016	4/3/2017	11/9/2017	4/30/2019	4/6/2020	
Methyl-t-butyl ether (MtBE)																									<13*		<1	13
Benzene																									**35**		<1	5
Toluene																									**3600**		87	1,000
Ethylbenzene																									**3400**		76	700
Xylenes (Total)																									**10700**		390	10,000
Isopropylbenzene																									130		2.4	800
p -Isopropyltoluene																									<20*	NS	<1	260
Naphthalene																									**600**		14	100
n -Propylbenzene																									**340**		3.5	260
n -Butylbenzene																									27		<1	260
sec -Butylbenzene																									<20*		<1	260
1,2,4-Trimethylbenzene																									**2300**		85	330
1,3,5-Trimethylbenzene																									**580**		32	330
TOTAL VOCs																									**21,712**		**690**	NL

Analyte (µg/L)	MW-105																											NHDES AGQS
	2/9/2005	4/5/2006	11/1/2006	4/18/2007	11/9/2007	4/9/2008	11/26/2008	4/23/2009	11/18/2009	4/30/2010	11/11/2010	4/20/2011	11/2/2011	4/18/2012	11/28/2012	4/30/2013	11/15/2013	4/9/2014	11/12/2014	4/1/2015	12/18/2015	4/4/2016	11/16/2016	4/3/2017	11/9/2017	4/30/2019	4/6/2020	
Methyl-t-butyl ether (MtBE)																									<1			13
Benzene																									<0.7			5
Toluene																									<1			1,000
Ethylbenzene																									<1			700
Xylenes (Total)																									<1			10,000
Isopropylbenzene																									<1			800
p -Isopropyltoluene																									<1	NS	NS	260
Naphthalene																									<1			100
n -Propylbenzene																									<1			260
n -Butylbenzene																									<1			260
sec -Butylbenzene																									<1			260
1,2,4-Trimethylbenzene																									<1			330
1,3,5-Trimethylbenzene																									<1			330
TOTAL VOCs																									**<1**			NL

NHDES AGQS = New Hampshire Department of Environmental Services Ambient Groundwater Quality Standards
Results preceded by < indicate a value below the detection limit of the assay.
Values in Bold Shade exceed NHDES AGQS
NS = Not Sampled; NA = Not Analyzed; NL = no AGQS listed.
***Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.**

Table 3 : Polycyclic Aromatic Hydrocarbons in Groundwater (EPA Method 8270), Mr. Mike's Antrim, 2017-2020

Sample ID	MW-1 (µg/L)		MW-2 (µg/L)		MW-3 (µg/L)		MW-4 (µg/L)		MW-5 (µg/L)		MW-6 (µg/L)		RW-1R2 (µg/L)		MW-101 (µg/L)		MW-102 (µg/L)		MW-105 (µg/L)		NHDES AGQS
	11/2017	4/2020	11/2017	4/2020	11/2017	4/2020	11/2017	4/2020	11/2017	4/2020	11/2017	4/2020	11/2017	4/2020	11/2017*	4/2020	11/2017*	4/2020	11/2017	4/2020	
1-Methylnaphthalene	NA	0.11		<0.1	NA			0.19		<0.1		<0.1	NA		NA	6.1	NA	2.1	NA		160
2-Methylnaphthalene	0.13	0.11		<0.1	<0.1			<0.1		<0.1		<0.1	<0.1		62	7.1	85	2.6	<0.1		280
Acenaphthene	<0.1	<0.01		<0.1	<0.1			<0.1		<0.1		<0.1	<0.1		<34	<0.1	<35	<0.1	<0.1		420
Acenaphthylene	<0.1	<0.01		<0.1	<0.1			<0.1		<0.1		<0.1	<0.1		<34	<0.1	<35	<0.1	<0.1		420
Anthracene	<0.1	<0.01		<0.1	<0.1			<0.1		<0.1		<0.1	0.1		<34	<0.1	<35	<0.1	<0.1		2,100
Benz(a)anthracene	<0.02	<0.01		<0.1	**0.32**			<0.1		<0.1		<0.1	**0.15**		<16	<0.1	<17	<0.1	<0.02		0.1
Benzo(a)pyrene	<0.02	<0.01		<0.1	**0.29**			<0.1		<0.1		<0.1	0.13		<15	<0.1	<16	<0.1	<0.02		0.2
Benzo(b)fluoranthene	<0.02	<0.01		<0.1	**0.25**			<0.1		<0.1		<0.1	**0.11**		<16	<0.1	<17	<0.1	<0.02		0.1
Benzo(ghi)perylene	<0.01	<0.01		<0.1	0.15			<0.1		<0.1		<0.1	<0.1		<34	<0.1	<35	<0.1	<0.01		210
Benzo(k)fluoranthene	<0.02	<0.01	NS	<0.1	0.24	NS	NS	<0.1	NS	<0.1	NS	<0.1	0.1	NS	<16	<0.1	<17	<0.1	<0.02	NS	0.5
Chrysene	<0.02	<0.01		<0.1	0.24			<0.1		<0.1		<0.1	0.1		<16	<0.1	<17	<0.1	<0.02		5
Dibenz(a,h)anthracene	<0.01	<0.01		<0.1	0.02			<0.1		<0.1		<0.1	0.03		<15	<0.1	<16	<0.1	<0.01		0.1
Fluoranthene	<0.1	<0.01		<0.1	0.53			<0.1		<0.1		<0.1	0.41		<34	<0.1	<35	<0.1	<0.1		280
Fluorene	<0.1	<0.01		<0.1	<0.1			<0.1		<0.1		<0.1	0.31		<34	<0.1	<35	<0.1	<0.1		280
Indeno(1,2,3-cd)pyrene	<0.02	<0.01		<0.1	**0.13**			<0.1		<0.1		<0.1	0.07		<16	<0.1	<17	<0.1	<0.02		0.1
Naphthalene	1.4	0.22		<0.1	<0.1			0.36		<0.1		<0.1	0.16		**290**	25	**480**	16	<0.1		100
Phenanthrene	<0.07	<0.01		<0.1	0.14			<0.1		<0.1		<0.1	0.3		<34	<0.1	<35	<0.1	<0.07		210
Pyrene	<0.1	<0.01		<0.1	0.5			<0.1		<0.1		<0.1	0.31		<34	<0.1	<35	<0.1	<0.1		210
TOTAL PAHs	**1.53**	**0.44**		**<0.1**	**2.81**			**0.55**		**<0.1**		**<0.1**	**2.28**		**352**	**32.1**	**565**	**20.7**	**<0.1**		**NL**

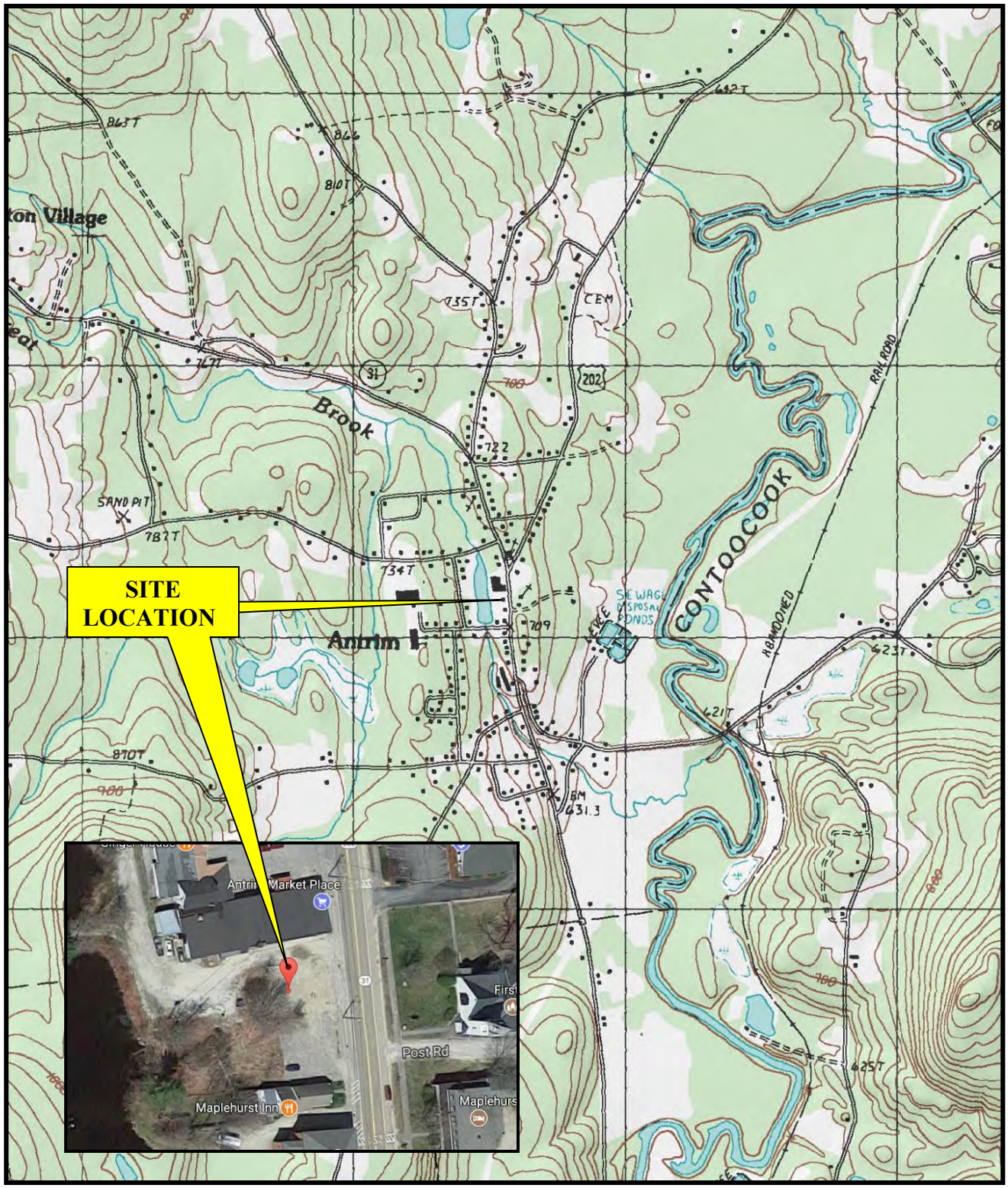
FP = Free product
Results preceded by < indicate a value below the detection limit of the assay.
Values in Bold Shade exceed NHDES AGQS
NS = Not Sampled; NA = Not Analyzed; NL = no AGQS listed.
*** Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required r esulting in an elevated RL for the semivolatile analysis.**

Table 4: Human Receptor Information - Neighboring Properties Within 1,000 Feet of Former Mr. Mike's Antrim Site

Parcel Number	GIS Number	Cama Number	Property Address	Owner Name	Co-Owner Name	Owner Address	Owner Address 2	Owner City	Owner State	Owner Zip	Property Usage	Private Well
103-001-000	103-001-000-000	103-001-000-000-0000	66 MAIN STREET Town Hall	TOWN OF ANTRIM		PO BOX 517		ANTRIM	NH	03440	TOWN	YES
103-002-000	103-002-000-000	103-002-000-000-0000	70 MAIN STREET	HARDWICK PAUL E		PO BOX 265		ANTRIM	NH	03440	COMMERCIAL	NO
103-003-000	103-003-000-000	103-003-000-000-0000	72 MAIN STREET	74 NORTH MAIN STREET ANTRIM LLC		1295 S CLAY ST		TROY	OH	45373	VACANT	NO
103-005-000	103-005-000-000	103-005-000-000-0000	76 MAIN STREET	JULIET ENTERPRISES LLC		C/O JULIET ERMITANO	791 SUMMER ST	MANCHESTER	NH	03103	COMMERCIAL	NO
103-006-000	103-006-000-000	103-006-000-000-0000	82 MAIN STREET	ALLISON ROBERT A & RITA M		PO BOX 333		ANTRIM	NH	03440	RESIDENTIAL	NO
103-007-000	103-007-000-000	103-007-000-000-0000	84 MAIN STREET	HEALEY CHRISTOPHE R J & CAROL A		PO BOX 319		ANTRIM	NH	03440	RESIDENTIAL	NO
103-008-000	103-008-000-000	103-008-000-000-0000	86 MAIN STREET	CILLEY JOHN		130 NORTH MAIN ST		WASHINGTON	NH	03280	RESIDENTIAL	NO
103-009-000	103-009-000-000	103-009-000-000-0000	10 WEST STREET	HULETT GUY A JR & FREDA R		PO BOX 363		ANTRIM	NH	03440	RESIDENTIAL	NO
103-010-000	103-010-000-000	103-010-000-000-0000	19 JAMESON AVENUE	HOSTETLER KARLA S		PO BOX 222		ANTRIM	NH	03440	RESIDENTIAL	NO
103-011-000	103-011-000-000	103-011-000-000-0000	17 JAMESON AVENUE	BEIHL BRIAN & WHITE JEANMARIE		PO BOX 26		ANTRIM	NH	03440	RESIDENTIAL	NO
103-012-000	103-012-000-000	103-012-000-000-0000	15 JAMESON AVENUE	BREEN MELINDA W		15 JAMESON AVE		ANTRIM	NH	03440	RESIDENTIAL	NO
103-013-000	103-013-000-000	103-013-000-000-0000	JAMESON AVE Memorial Park	TOWN OF ANTRIM		PO BOX 517		ANTRIM	NH	03440	PARK	NO
103-014-000	103-014-000-000	103-014-000-000-0000	15 SUMMER STREET	BEERS LYNN		NATION DIEDRA & DOROTHY	15 SUMMER ST	ANTRIM	NH	03440	RESIDENTIAL	NO
103-015-000	103-015-000-000	103-015-000-000-0000	SUMMER STREET DAM	TOWN OF ANTRIM		PO BOX 517		ANTRIM	NH	03440	TOWN	NO
103-016-000	103-016-000-000	103-016-000-000-0000	5 SUMMER STREET	TDS TELECOM		525 JUNCTION RD		MADISON	WI	53717	COMMERCIAL	NO
103-017-000	103-017-000-000	103-017-000-000-0000	SUMMER STREET	LAZAR J ANDRAS		BENNETT KAREN P	PO BOX 261	ANTRIM	NH	03440	VACANT	NO
103-018-000	103-018-000-000	103-018-000-000-0000	10 SUMMER STREET	KELLY JULIANNE		10 SUMMER ST		ANTRIM	NH	03440	RESIDENTIAL	NO
103-019-000	103-019-000-000	103-019-000-000-0000	14 SUMMER STREET	REYNOLDS MARK E REV TRUST OF 2000		REYNOLDS MARK E TTEE	14 SUMMER ST	ANTRIM	NH	03440	RESIDENTIAL	NO
103-020-000	103-020-000-000	103-020-000-000-0000	27 HIGHLAND AVENUE	WARREN ROBERT E & FLORINE		PO BOX 286		ANTRIM	NH	03440	RESIDENTIAL	NO
103-021-000	103-021-000-000	103-021-000-000-0000	25 HIGHLAND AVENUE	KASHIAN YEVGENIYA K		25 HIGHLAND AVE		ANTRIM	NH	03440	RESIDENTIAL	NO
103-022-000	103-022-000-000	103-022-000-000-0000	24 HIGHLAND AVENUE	CHAPMAN L ANDREW SCHERMER MELISSA A		24 HIGHLAND AVE		ANTRIM	NH	03440	RESIDENTIAL	NO
103-023-000	103-023-000-000	103-023-000-000-0000	26 HIGHLAND AVENUE	GILMORE REV TRUST LYMAN GILMORE TTEE		26 HIGHLAND AVE		ANTRIM	NH	03440	RESIDENTIAL	NO
103-024-000	103-024-000-000	103-024-000-000-0000	28 HIGHLAND AVENUE	BARSANTI - ANTRIM TRUST		BARSANTI FERNANDO J & MARY L TTEES	PO BOX 56	ANTRIM	NH	03440	RESIDENTIAL	NO
103-025-000	103-025-000-000	103-025-000-000-0000	20 SUMMER STREET	KOUTROUBAS PETER J		20 SUMMER ST		ANTRIM	NH	03440	RESIDENTIAL	NO
103-026-000	103-026-000-000	103-026-000-000-0000	22 SUMMER STREET	TAUB JONAS 2016 REV TRST BENEDICT RUTH L 2016 R		TAUB JONAS & BENEDICT RUTH L TTEES	22 SUMMER STREET	ANTRIM	NH	03440	RESIDENTIAL	NO
103-027-000	103-027-000-000	103-027-000-000-0000	GREAT BROOK SCHOOL	CONVAL SCHOOL DISTRICT		GREAT BROOK C/O TIM GROSSI	106 HANCOCK RD	PETERBOROUGH	NH	03458	SCHOOL	YES
103-028-000	103-028-000-000	103-028-000-000-0000	SCHOOL STREET Town Gym	TOWN OF ANTRIM		ANTRIM TOWN GYM	10 SCHOOL STREET	ANTRIM	NH	03440	TOWN	NO
103-029-000	103-029-000-000	103-029-000-000-0000	SCHOOL STREET Shea Field	TOWN OF ANTRIM		PO BOX 517		ANTRIM	NH	03440	TOWN	NO
103-030-000	103-030-000-000	103-030-000-000-0000	SCHOOL STREET Gym Parking	TOWN OF ANTRIM		PO BOX 517		ANTRIM	NH	03440	TOWN	NA
103-031-000	103-031-000-000	103-031-000-000-0000	23 SUMMER STREET	BRYER TOD A & LINDA S		23 SUMMER ST		ANTRIM	NH	03440	RESIDENTIAL	NO
103-032-000	103-032-000-000	103-032-000-000-0000	21 SUMMER STREET	ALLEN WILLIAM GORDON & MARY		21 SUMMER ST		ANTRIM	NH	03440	RESIDENTIAL	NO
103-033-000	103-033-000-000	103-033-000-000-0000	19 SUMMER STREET	COCHRAN THOMAS		19 SUMMER ST		ANTRIM	NH	03440	RESIDENTIAL	NO
103-034-000	103-034-000-000	103-034-000-000-0000	17 SUMMER STREET	ELLSWORTH SUSAN & RICHARD		17 SUMMER ST		ANTRIM	NH	03440	RESIDENTIAL	NO
103-035-000	103-035-000-000	103-035-000-000-0000	6 JAMESON AVENUE	SHELTON RICHARD C & JOAN E		108 PINE EDEN RD		RINDGE	NH	03461	RESIDENTIAL	NO
103-036-000	103-036-000-000	103-036-000-000-0000	8 JAMESON AVENUE	CUNNINGHAM SHEILA A & PAUL E		PO BOX 248		ANTRIM	NH	03440	RESIDENTIAL	NO
103-037-000	103-037-000-000	103-037-000-000-0000	12 JAMESON AVENUE	LANG WILLIAM & ARVILLA L		C/O BETTE MANDINO	16514 NORTH 108TH ST	SCOTTSDALE	AZ	85255-9064	RESIDENTIAL	NO

103-038-000	103-038-000-000	103-038-000-000-0000	14 JAMESON AVENUE	SMOLAG ROBIN A & RICHARD D JR		PO BOX 88		ANTRIM	NH	03440	RESIDENTIAL	NO
103-039-000	103-039-000-000	103-039-000-000-0000	16 JAMESON AVENUE	MURPHY PROPERTIES LLC		14 WILDCAT HILL RD		NEW IPSWICH	NH	03071	RESIDENTIAL	NO
103-040-000	103-040-000-000	103-040-000-000-0000	20 JAMESON AVENUE	GRIGGS THOMAS F & CASS LAURIE A		CASS-GRIGGS LAURIE A	20 JAMESON AVE	ANTRIM	NH	03440	RESIDENTIAL	NO
103-041-000	103-041-000-000	103-041-000-000-0000	20 WEST STREET	CONTOOCOOK HOUSING TRUST		PO BOX 216		NEW IPSWICH	NH	03071-0216	RESIDENTIAL	NO
103-042-000	103-042-000-000	103-042-000-000-0000	22 WEST STREET	CHISHOLM KATHRYN R		22 WEST ST		ANTRIM	NH	03440	RESIDENTIAL	NO
103-050-000	103-050-000-000	103-050-000-000-0000	2 DEBART LANE	FISH SONNIE E & CHARLES C		PO BOX 335		ANTRIM	NH	03440	RESIDENTIAL	NO
103-056-000	103-056-000-000	103-056-000-000-0000	21 WEST STREET	HALLEN DAVID L & MARYBETH		21 WEST ST		ANTRIM	NH	03440	RESIDENTIAL	NO
103-057-000	103-057-000-000	103-057-000-000-0000	19 WEST STREET	WOLSIEFER KEITH H		DICKINSON VIRGINIA S	PO BOX 501	ANTRIM	NH	03440	RESIDENTIAL	NO
103-058-000	103-058-000-000	103-058-000-000-0000	17 WEST STREET	ROSS PATRICK W & HOGAN-ROSS KAREN		17 WEST ST		ANTRIM	NH	03440	RESIDENTIAL	NO
103-059-000	103-059-000-000	103-059-000-000-0000	13 WEST STREET	KIERSTEAD NANCY L		21 DOCK RD		MILFORD	CT	06460	RESIDENTIAL	NO
103-060-000	103-060-000-000	103-060-000-000-0000	11 WEST STREET	KIERSTEAD NANCY L		21 DOCK RD		MILFORD	CT	06460	RESIDENTIAL	NO
103-061-000	103-061-000-000	103-061-000-000-0000	7 WEST STREET	AMERICAN LEGION		C/O DONALD PAIGE	3 PLEASANT ST	ANTRIM	NH	03440	EXEMPT	NO
103-062-000	103-062-000-000	103-062-000-000-0000	5 WEST STREET	CHAPMAN TIMOTHY P & KATHY L		5 WEST ST		ANTRIM	NH	03440	RESIDENTIAL	NO
103-063-000	103-063-000-000	103-063-000-000-0000	3 WEST STREET	SANGERMANO SCOTT P & NICOLE J		3 WEST ST		ANTRIM	NH	03440	RESIDENTIAL	NO
103-064-000	103-064-000-000	103-064-000-000-0000	92 MAIN STREET	TABAKARU PHILIPP JR & CAROL		92 MAIN ST	PO BOX 125	ANTRIM	NH	03440	RESIDENTIAL	NO
103-065-000	103-065-000-000	103-065-000-000-0000	94 MAIN STREET	BROWN JOSHUA F		205 ELM AVE		ANTRIM	NH	03440	RESIDENTIAL	NO
103-066-000	103-066-000-000	103-066-000-000-0000	96 MAIN STREET	CONTOOCOOK HOUSING TRUST		PO BOX 216		NEW IPSWICH	NH	03071-0216	RESIDENTIAL	NO
103-067-000	103-067-000-000	103-067-000-000-0000	95 MAIN STREET	STONERICK LLC		369 WEBSTER LAKE RD		FRANKLIN	NH	03235	RESIDENTIAL	NO
103-068-000	103-068-000-000	103-068-000-000-0000	93 MAIN STREET	MERTZ REALTY LLC		31 PINE ST		PETERBOROUGH	NH	03458	RESIDENTIAL	NO
103-069-000	103-069-000-000	103-069-000-000-0000	91 MAIN STREET	91 MAIN STREET ANTRIM LLC		5 MASQUANIPI DR		ANTRIM	NH	03440	RESIDENTIAL	NO
103-070-000	103-070-000-000	103-070-000-000-0000	89 MAIN STREET	MERTZ REALTY LLC		31 PINE ST		PETERBOROUGH	NH	03458	COMMERCIAL (APTS)	NO
103-071-000	103-071-000-000	103-071-000-000-0000	87 MAIN STREET	BAPTIST CHURCH		PO BOX 206		ANTRIM	NH	03440	RESIDENTIAL	NO
103-072-000	103-072-000-000	103-072-000-000-0000	MAIN STREET	BAPTIST CHURCH		PO BOX 206		ANTRIM	NH	03440	EXEMPT	NO
103-073-000	103-073-000-000	103-073-000-000-0000	CONCORD STREET	BAPTIST CHURCH		PO BOX 206		ANTRIM	NH	03440	EXEMPT	NO
103-074-000	103-074-000-000	103-074-000-000-0000	4 WAVERLY STREET	PRESBYTERIAN CHURCH		PO BOX 186		ANTRIM	NH	03440	EXEMPT	NO
103-075-000	103-075-000-000	103-075-000-000-0000	6 WAVERLY STREET	KULLGREN JOHN		PO BOX 407		ANTRIM	NH	03440	RESIDENTIAL	NO
103-076-000	103-076-000-000	103-076-000-000-0000	5 WAVERLY STREET	DUGAN PAUL D JR		PO BOX 423		ANTRIM	NH	03440	RESIDENTIAL	NO
103-079-000	103-079-000-000	103-079-000-000-0000	15 CONCORD STREET	LLOYD GINGER A		137 CLINTON RD		ANTRIM	NH	03440	RESIDENTIAL	NO
103-080-000	103-080-000-000	103-080-000-000-0000	11 CONCORD STREET	DRK EOX LLC		18 LOUDON RD	#2277	CONCORD	NH	03302	RESIDENTIAL	NO
103-081-000	103-081-000-000	103-081-000-000-0000	9 CONCORD STREET	BURFORD LOIS J		PO BOX 192		ANTRIM	NH	03440	RESIDENTIAL	NO
103-082-000	103-082-000-000	103-082-000-000-0000	7 CONCORD STREET	WIMPORY FAMILY TRUST		WIMPORY ROBERT & HAYDEN KELLY	379 VALLEY RD	JEFFERSON	NH	03583	RESIDENTIAL	NO
103-083-000	103-083-000-000	103-083-000-000-0000	5 CONCORD STREET	GIBSON ALAN G		PO BOX 13		ANTRIM	NH	03440	RESIDENTIAL	NO
103-084-000	103-084-000-000	103-084-000-000-0000	1 CONCORD STREET	GLOBAL MONTELLO GROUP CORP C/O TAX DEPARTMENT		15 NORTHEAST INDUSTRIAL RD		BRANFORD	CT	06405	COMMERCIAL	NO
103-085-000	103-085-000-000	103-085-000-000-0000	77 MAIN STREET	BANK OF NEW HAMPSHIRE		62 PLEASANT ST		LACONIA	NH	03246	COMMERCIAL	NO
103-086-000	103-086-000-000	103-086-000-000-0000	73 MAIN STREET	FIRST PRESBYTERIAN CHURCH		PO BOX 186		ANTRIM	NH	03440	EXEMPT	NO
103-087-000	103-087-000-000	103-087-000-000-0000	67 MAIN STREET	JULIET ENTERPRISES LLC		C/O JULIET ERMITANO	791 SUMMER ST	MANCHESTER	NH	03103	COMMERCIAL (INN)	YES
103-088-000	103-088-000-000	103-088-000-000-0000	65 MAIN STREET	HARDWICK PAUL E		PO BOX 265		ANTRIM	NH	03440	RESIDENTIAL	YES
103-089-000	103-089-000-000	103-089-000-000-0000	POST ROAD	TOUCHWOOD CORP C/O DAVID CUTTER		425 JAFFREY RD		PETERBOROUGH	NH	03458	VACANT	NO
103-090-000	103-090-000-000	103-090-000-000-0000	1 POST ROAD	ARIZCUREN JOANNE MARIE & JOHN		FOR JACQUES PEIRRE ARIZCUREN	250 CHERRY ST STE 210	MANTECA	CA	95337	COMMERCIAL	NO
103-091-000	103-091-000-000	103-091-000-000-0000	61 MAIN STREET Police Station	TOWN OF ANTRIM		PO BOX 517		ANTRIM	NH	03440	TOWN	NO
103-092-000	103-092-000-000	103-092-000-000-0000	55 MAIN STREET	SOBRIETY CENTERS OF NEW HAMPSHIRE		PO BOX 344		ANTRIM	NH	03440	COMMERCIAL (APTS)	NO

103-093-000	103-093-000-000	103-093-000-000-0000	51 MAIN STREET	DRAPER ROBERT E		PO BOX 7064		NASHUA	NH	03060-7064	RESIDENTIAL	NO
103-094-000	103-094-000-000	103-094-000-000-0000	49 MAIN STREET	CHELMINSKI MICHAELA TTEE		PO BOX 128		ANTRIM	NH	03440	RESIDENTIAL	NO
103-095-000	103-095-000-000	103-095-000-000-0000	45 MAIN STREET Library	TOWN OF ANTRIM		PO BOX 517		ANTRIM	NH	03440	TOWN	YES
103-096-000	103-096-000-000	103-096-000-000-0000	MAIN STREET LIBRARY PARKING	TOWN OF ANTRIM		PO BOX 517		ANTRIM	NH	03440	TOWN	NA
103-097-000	103-097-000-000	103-097-000-000-0000	4 AIKEN STREET AIKEN BARN	TOWN OF ANTRIM		PO BOX 517		ANTRIM	NH	03440	TOWN	NO
103-098-000	103-098-000-000	103-098-000-000-0000	46 MAIN STREET	IRONHAND 46 LLC		PO BOX 129		ANTRIM	NH	03440	COMMERCIAL	NO
103-099-000	103-099-000-000	103-099-000-000-0000	MAIN STREET PARKING LOT	TOWN OF ANTRIM		PO BOX 517		ANTRIM	NH	03440	TOWN	NA
103-100-000	103-100-000-000	103-100-000-000-0000	50 MAIN STREET	LIG PROPERTY ENTERPRISES LLC		168 COUNTY RD		GREENFIELD	NH	03047	COMMERCIAL	NO
103-101-000	103-101-000-000	103-101-000-000-0000	52 MAIN STREET	DESSAINT LINDA N TTEE		DESSAINT FRANKLIN N TTEE	173 OLD TURNPIKE RD	ANTRIM	NH	03440	RESIDENTIAL	NO
103-102-000	103-102-000-000	103-102-000-000-0000	54 MAIN STREET	TIPTON CHRISTOPHE R A & REBECCA L		PO BOX 205		ANTRIM	NH	03440	RESIDENTIAL	NO
103-103-000	103-103-000-000	103-103-000-000-0000	56 MAIN STREET	EDMUNDS RICHARD L REV TRUST		EDMUNDS RICHARD L TTEE	PO BOX 126	ANTRIM	NH	03440	COMMERCIAL	NO
103-104-000	103-104-000-000	103-104-000-000-0000	58 MAIN STREET	LAZAR J ANDRAS		BENNETT KAREN P	PO BOX 261	ANTRIM	NH	03440	RESIDENTIAL	NO
103-105-000	103-105-000-000	103-105-000-000-0000	60 MAIN STREET	GALBRAITH PETER T		762 BACK MOUNTAIN RD		GOFFSTOWN	NH	03045	RESIDENTIAL	NO
103-106-000	103-106-000-000	103-106-000-000-0000	62 MAIN STREET	DAVIS RICHARD		PO BOX 417		ANTRIM	NH	03440	COMMERCIAL	NO
104-001-000	104-001-000-000	104-001-000-000-0000	6 AIKEN STREET	ANTRIM VILLAGE AVESTA C/0 P13168		PO BOX 3608		OAK BROOK	IL	605223608	COMMERCIAL (ELDERLY HOUSING)	NO
104-013-000	104-013-000-000	104-013-000-000-0000	DEPOT STREET W&S Dept	TOWN OF ANTRIM		PO BOX 517		ANTRIM	NH	03440	TOWN	YES
104-095-000	104-095-000-000	104-095-000-000-0000	23 HIGHLAND AVENUE	CULLINAN MARYANNE SCHAUB MARK D		23 HIGHLAND AVE		ANTRIM	NH	03440	RESIDENTIAL	NO
104-105-000	104-105-000-000	104-105-000-000-0000	1 HIGH STREET	COCHRAN MILLS LLC		PO BOX 301		ANTRIM	NH	03440	INDUSTRIAL	NO
104-106-000	104-106-000-000	104-106-000-000-0000	42 MAIN STREET	ANTRIM MILL CORPORATIO N		PO BOX 47		ANTRIM	NH	03440	COMMERCIAL	NO
104-106-001	104-106-001-000	104-106-001-000-0000	HIGH STREET	ANTRIM MILL CORPORATIO N		PO BOX 47		ANTRIM	NH	03440	INDUSTRIAL	NO
243-001-000	243-001-000-000	243-001-000-000-0000	MAP 243 - LOT 1	SOCIETY FOR PROTECTION OF NEW HAMPSHIRE FORESTS		54 PORTSMOUTH ST		CONCORD	NH	03301	VACANT LAND	NA



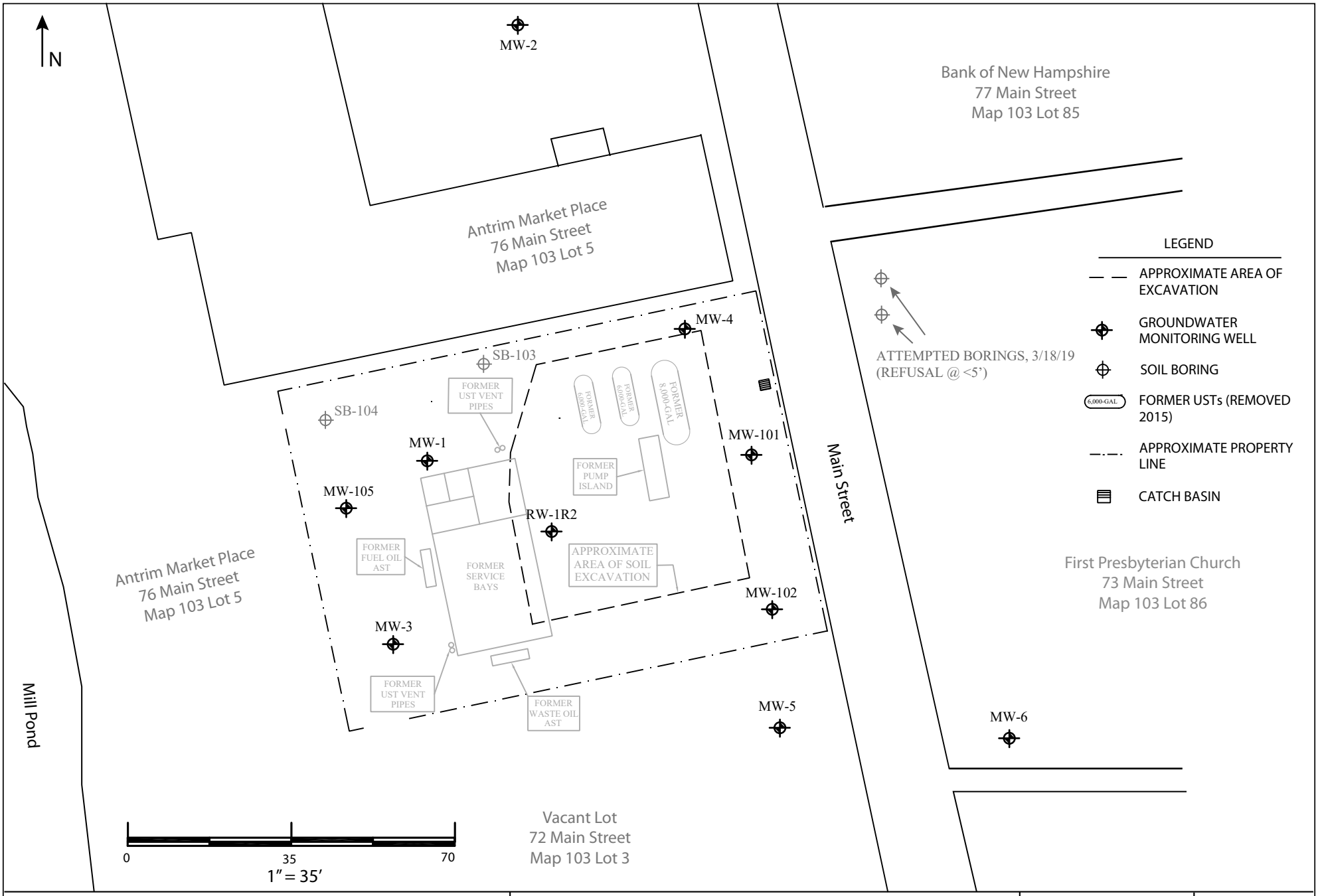
Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / charper@sover.net

SITE LOCUS MAP

Former Mr. Mikes Antrim

74 MAIN STREET, ANTRIM, NEW HAMPSHIRE

Figure
1



HEA
Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / cliff@harperenv.com

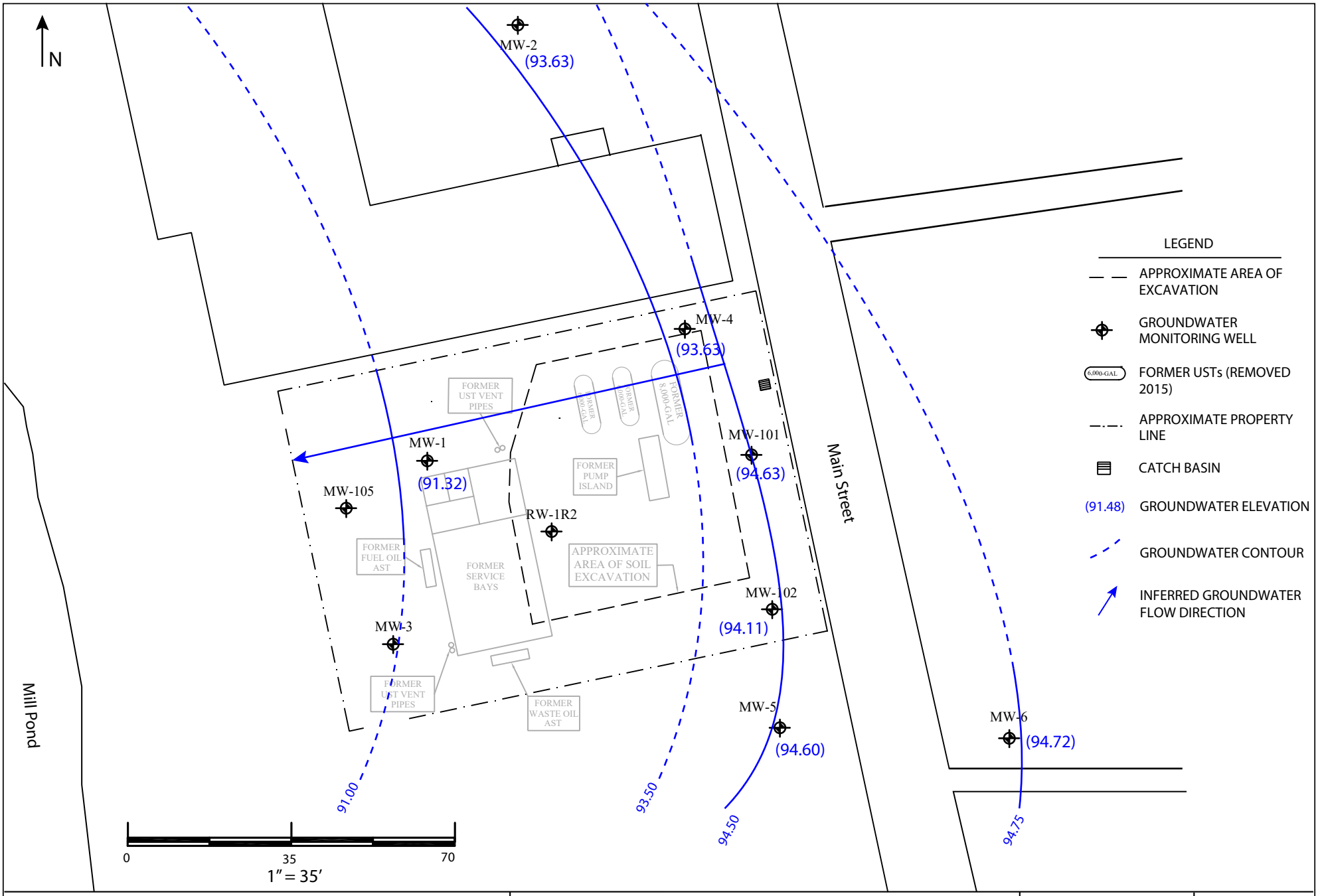
SITE MAP

Former Mr. Mikes Antrim

74 MAIN STREET, ANTRIM, NEW HAMPSHIRE

SCALE: 1" = 35'
DRAWN BY: CS
CHECKED BY: CH
DATE: APRIL 15, 2020
NHDES # 198904014

Figure 2



HEA
Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / cliff@harperenv.com

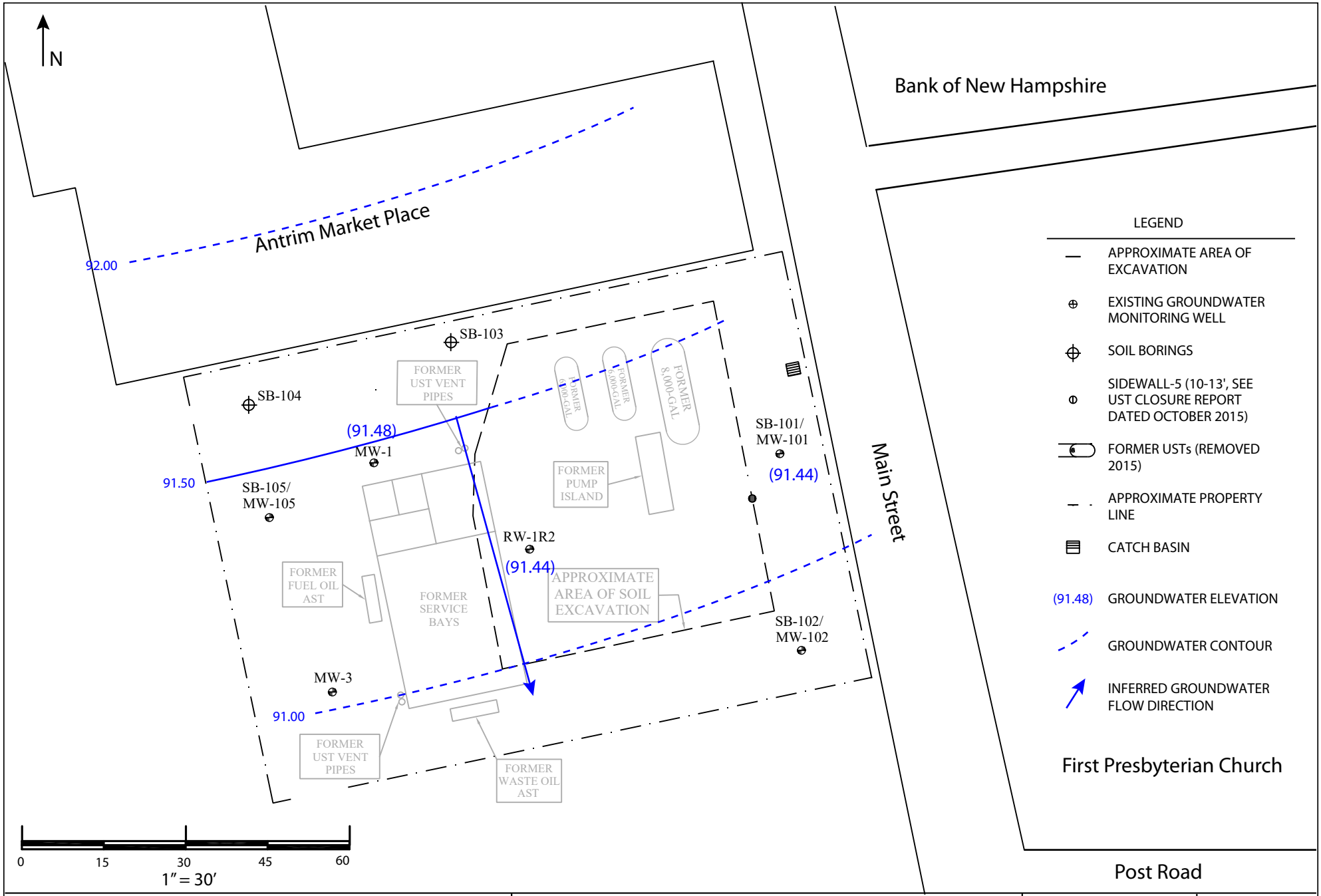
GROUNDWATER GRADIENT MAP - APRIL 2020

Former Mr. Mikes Antrim

74 MAIN STREET, ANTRIM, NEW HAMPSHIRE

SCALE: 1" = 35'
DRAWN BY: CS
CHECKED BY: CH
DATE: APRIL 15, 2020
NHDES # 198904014

Figure
3A



HEA
Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / charper@sover.net

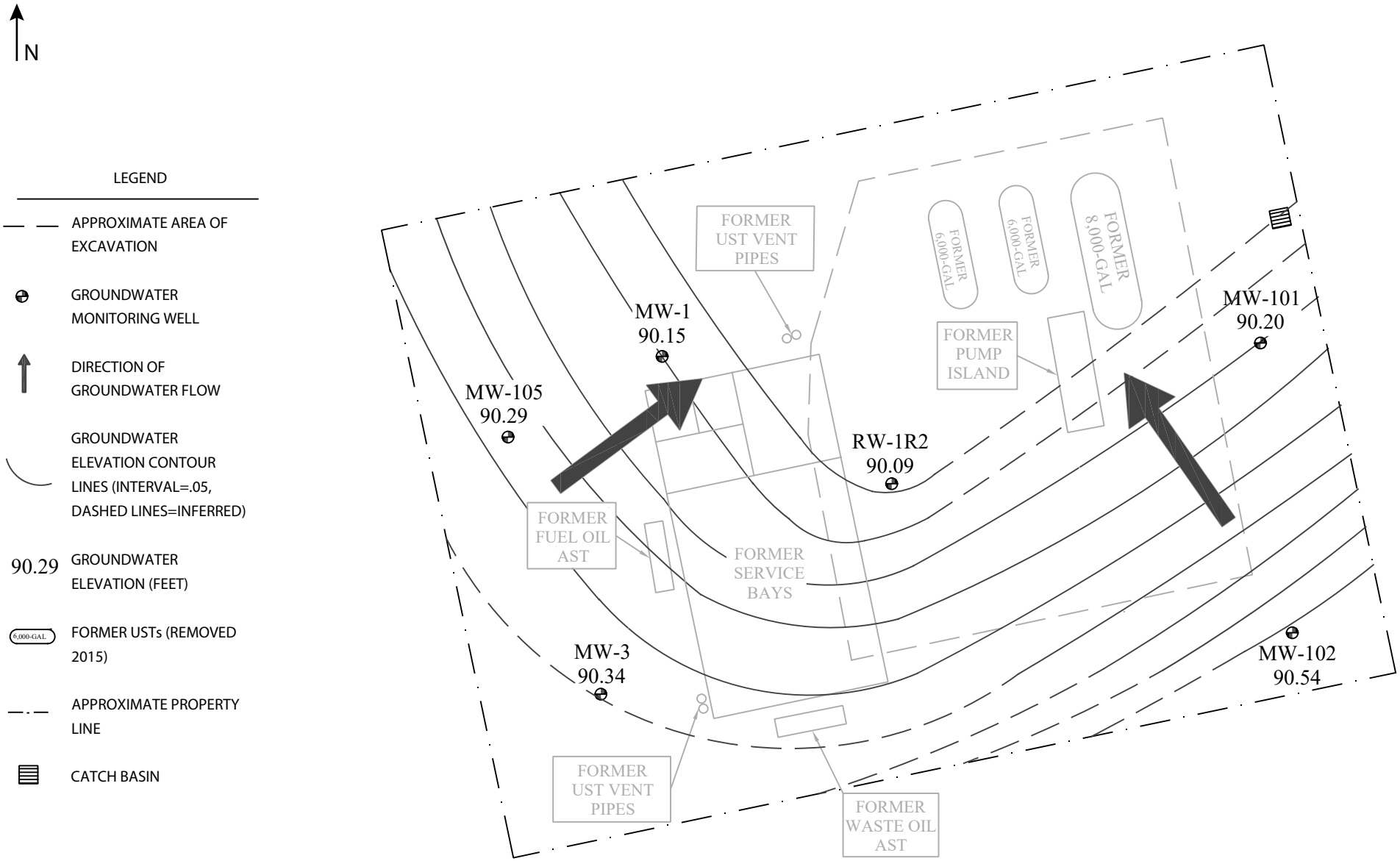
GROUNDWATER CONTOUR MAP - APRIL 2019

Former Mr. Mikes Antrim

74 MAIN STREET, ANTRIM, NEW HAMPSHIRE

SCALE: 1" = 30'
DRAWN BY: CS
CHECKED BY: CH
DATE: MAY 13, 2019
NHDES # 198904014

Figure 3B



HEA
Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / charper@sover.net

GROUNDWATER CONTOUR MAP

Former Mr. Mikes Antrim

74 MAIN STREET, ANTRIM, NEW HAMPSHIRE

SCALE: NOT TO SCALE'
DRAWN BY: CS
CHECKED BY: CH
DATE: JAN. 10, 2019
NHDES # 198904014

Figure 3C

Legend

- Approximate Property Line/ GMZ Boundary
- Overhead Electric Line
- Catchbasin
- Utility Pole
- RW-1 Recovery Well
- RW-1 Decommissioned Recovery Well
- MW-1 Groundwater Monitoring Well
- MW-2 Destroyed/Decommissioned Well
- ISOC-4 ISOC Well
- Approx. Location of Former Underground Storage Tanks (USTs)
- Approx. Location of USTs Removed in 2015
- (93.17) Groundwater Elevation
- Inferred Groundwater Flow Direction
- Map 103 Lot 4 Tax Map and Lot Number

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Sources:

1) Site Plan based upon field survey performed by GeoInsight on April 21, 2000.

2) Property boundaries are approximate based upon Town of Antrim Tax Map 103.

0 Approximate Feet 20

NAME/ADDRESS:

Former Sunoco
74 Main Street
Antrim, NH

DRAWING TITLE:

Groundwater Elevation Contour Plan-4/3/17

ATC
150 Zachary Road
Manchester, NH 03109
(603) 647-7077
(603) 647-5347 FAX

DRAWN BY:	OC/AR	FIGURE NO.
CHECKED BY:	SL	2
PROJECT NO.	02-210747.00	

HEA
Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / cliff@harperenv.com

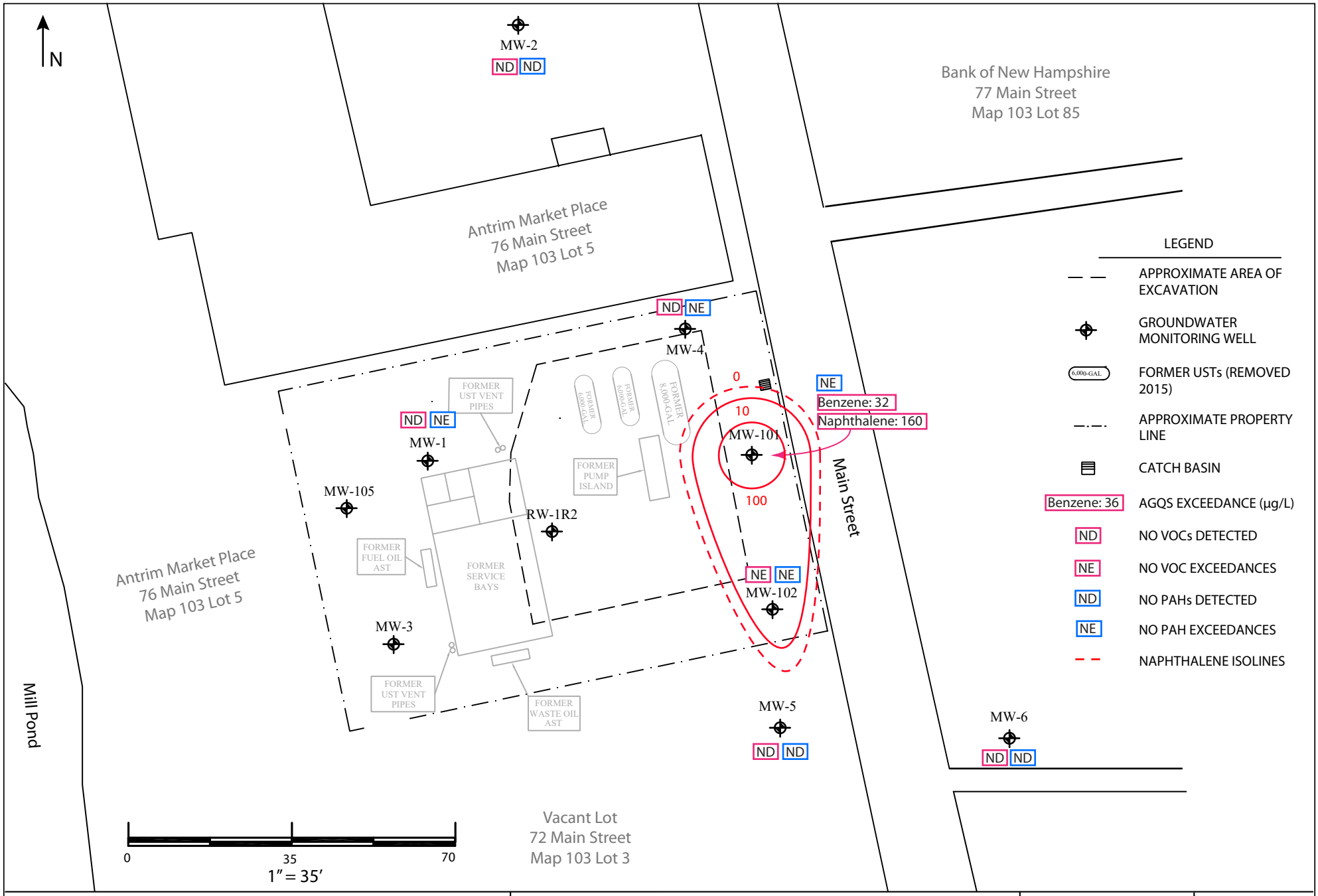
GROUNDWATER GRADIENT MAP - APRIL 2017

Former Mr. Mikes Antrim

74 MAIN STREET, ANTRIM, NEW HAMPSHIRE

SCALE: 1" = 35'
DRAWN BY: CS
CHECKED BY: CH
DATE: APRIL 15, 2020
NHDES # 198904014

Figure
3D



HEA
Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / cliff@harperenv.com

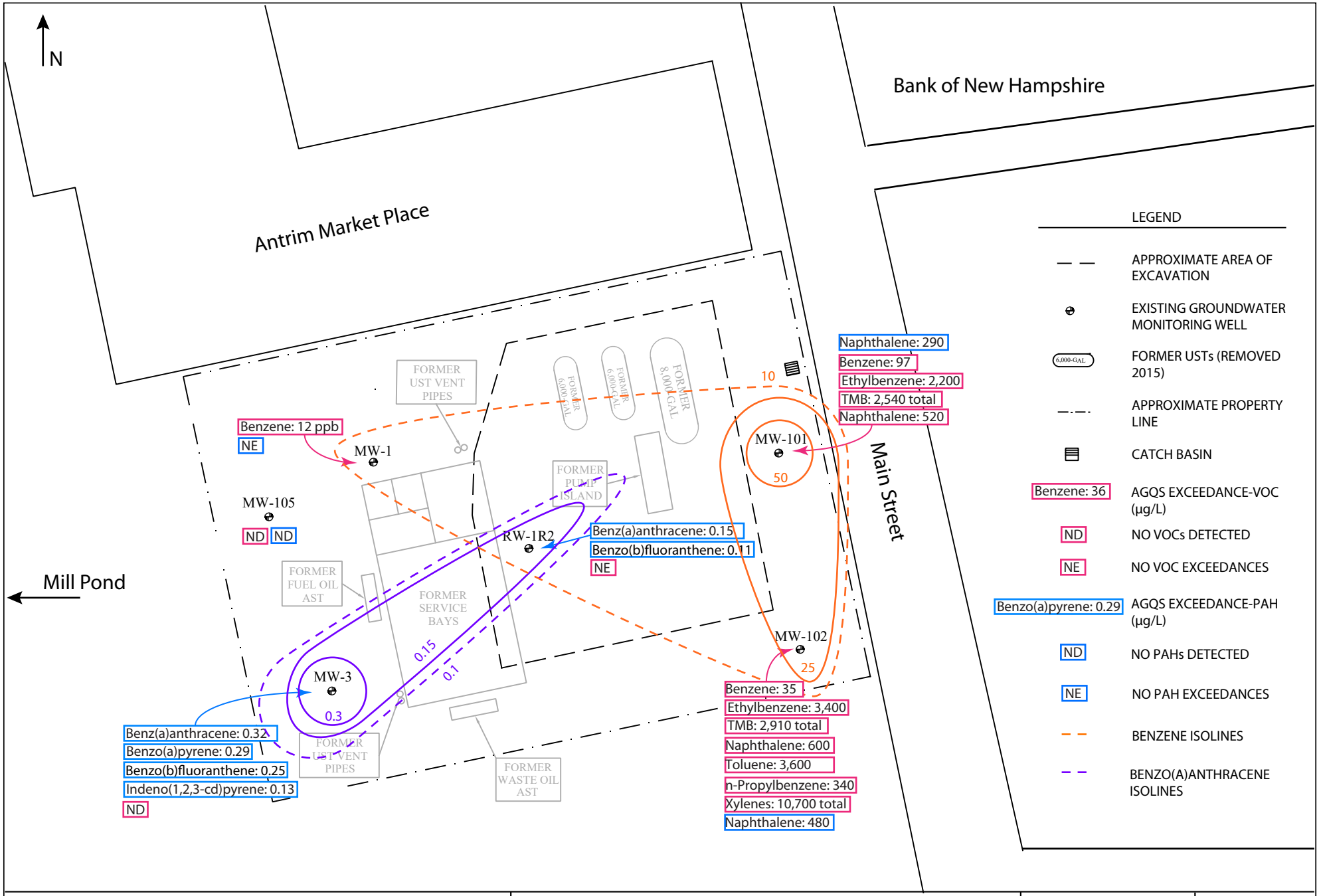
CONTAMINANT DISTRIBUTION MAP - APRIL 2020

Former Mr. Mikes Antrim

74 MAIN STREET, ANTRIM, NEW HAMPSHIRE

SCALE: 1" = 35'
DRAWN BY: CS
CHECKED BY: CH
DATE: APRIL 15, 2020
NHDES # 198904014

Figure
4A



HEA
Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / charper@sover.net

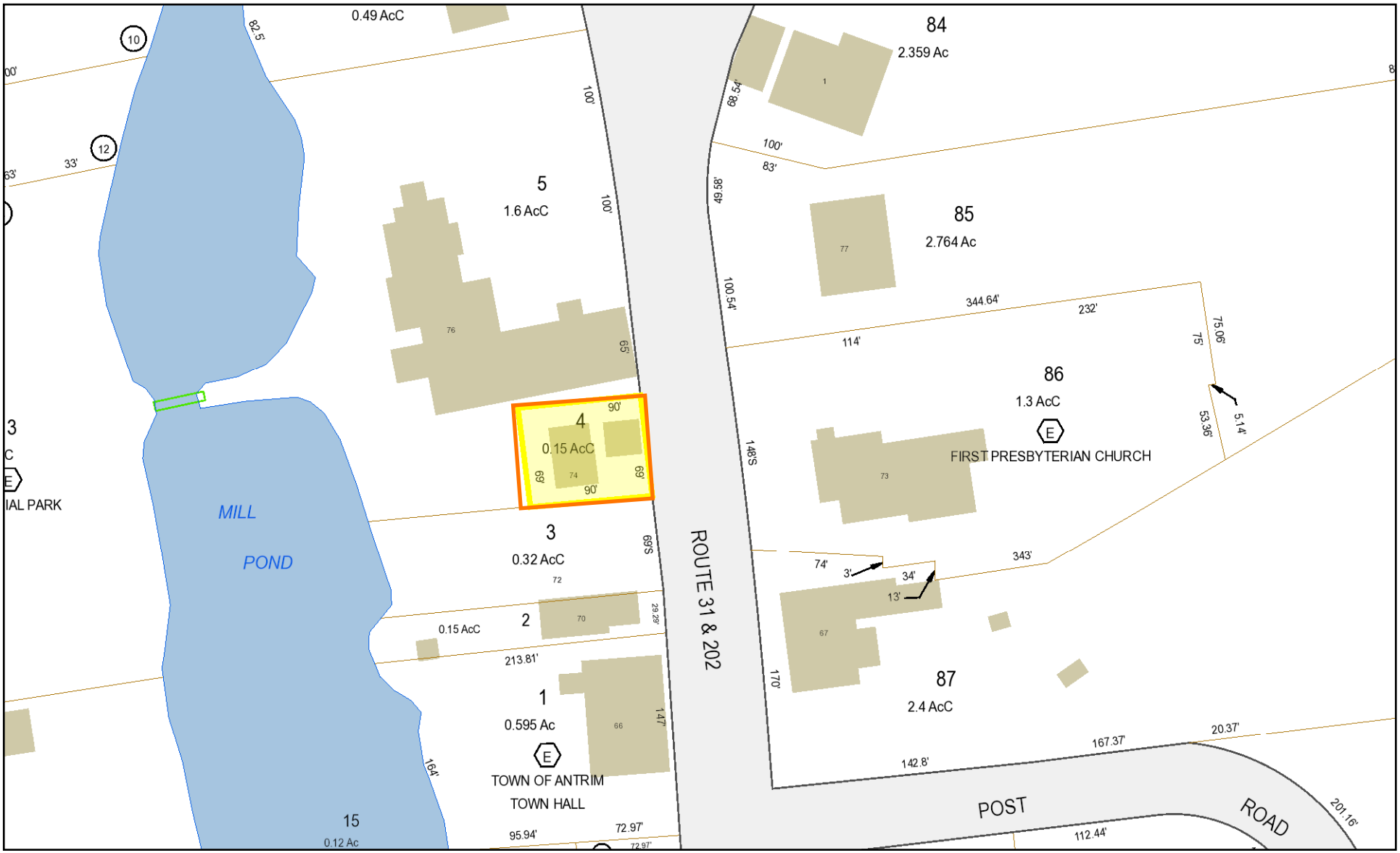
CONTAMINANT DISTRIBUTION MAP-NOVEMBER 2017

Former Mr. Mikes Antrim

74 MAIN STREET, ANTRIM, NEW HAMPSHIRE

SCALE: 1" = 30'
DRAWN BY: CS
CHECKED BY: CH
DATE: APRIL 22, 2020
NHDES # 198904014

Figure
4B



SITE

GROUNDWATER MANAGEMENT ZONE

0 100 200 300

Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / cliff@harperenv.com

GROUNDWATER MANAGEMENT ZONE

Former Mr. Mikes Antrim

74 MAIN STREET, ANTRIM, NEW HAMPSHIRE

SCALE: 1" = 100'
DRAWN BY: CS
CHECKED BY: CH
DATE: APRIL 15, 2020
NHDES # 198904014

Figure 5

Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, Vermont 05035
(802) 672-6112
cliff@harperenv.com

Human Receptor Map (Neigbhoring Properties Within 1,000 Feet)

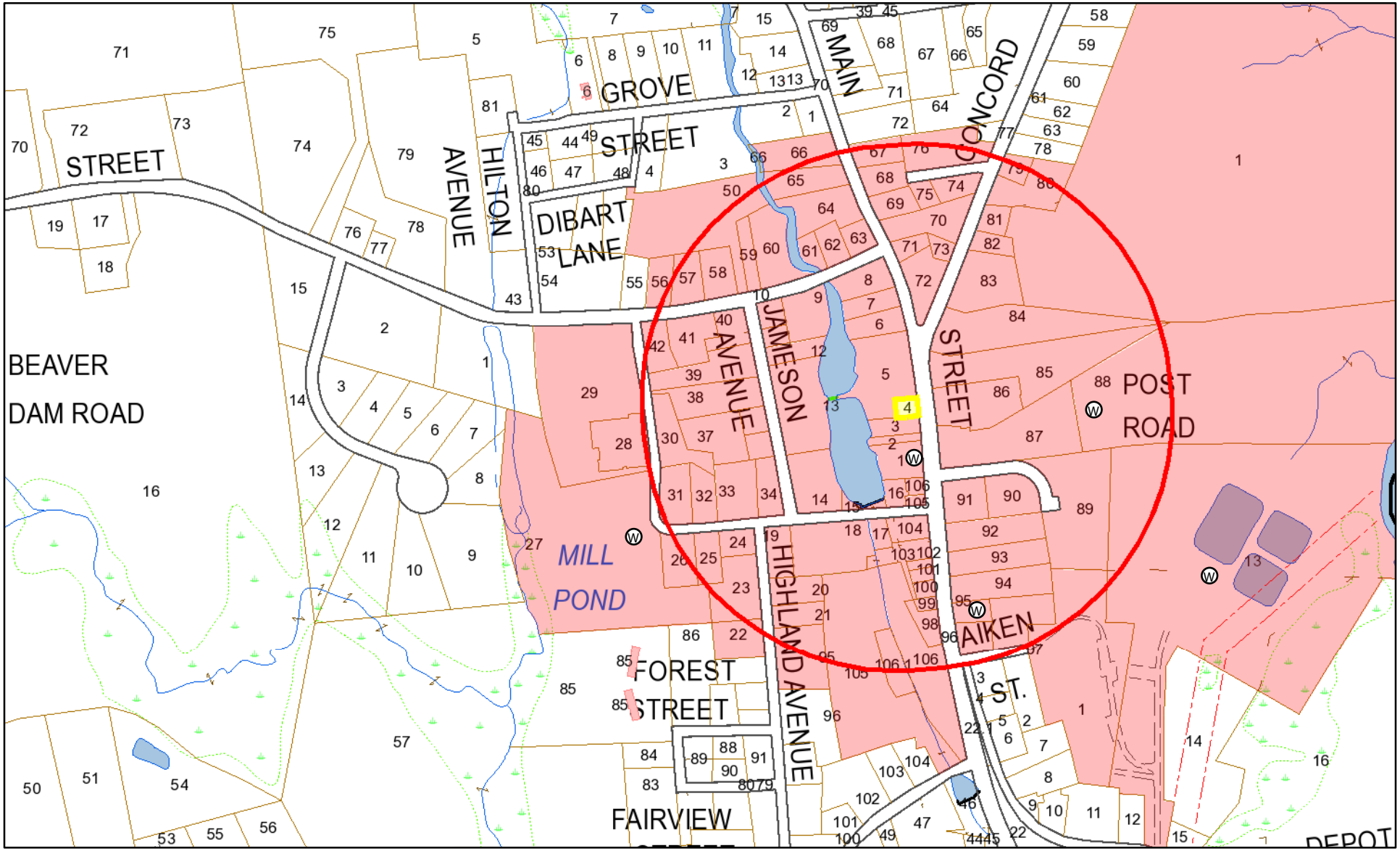
FORMER MR. MIKE'S ANTRIM

74 Main Street, Antrim, New Hampshire

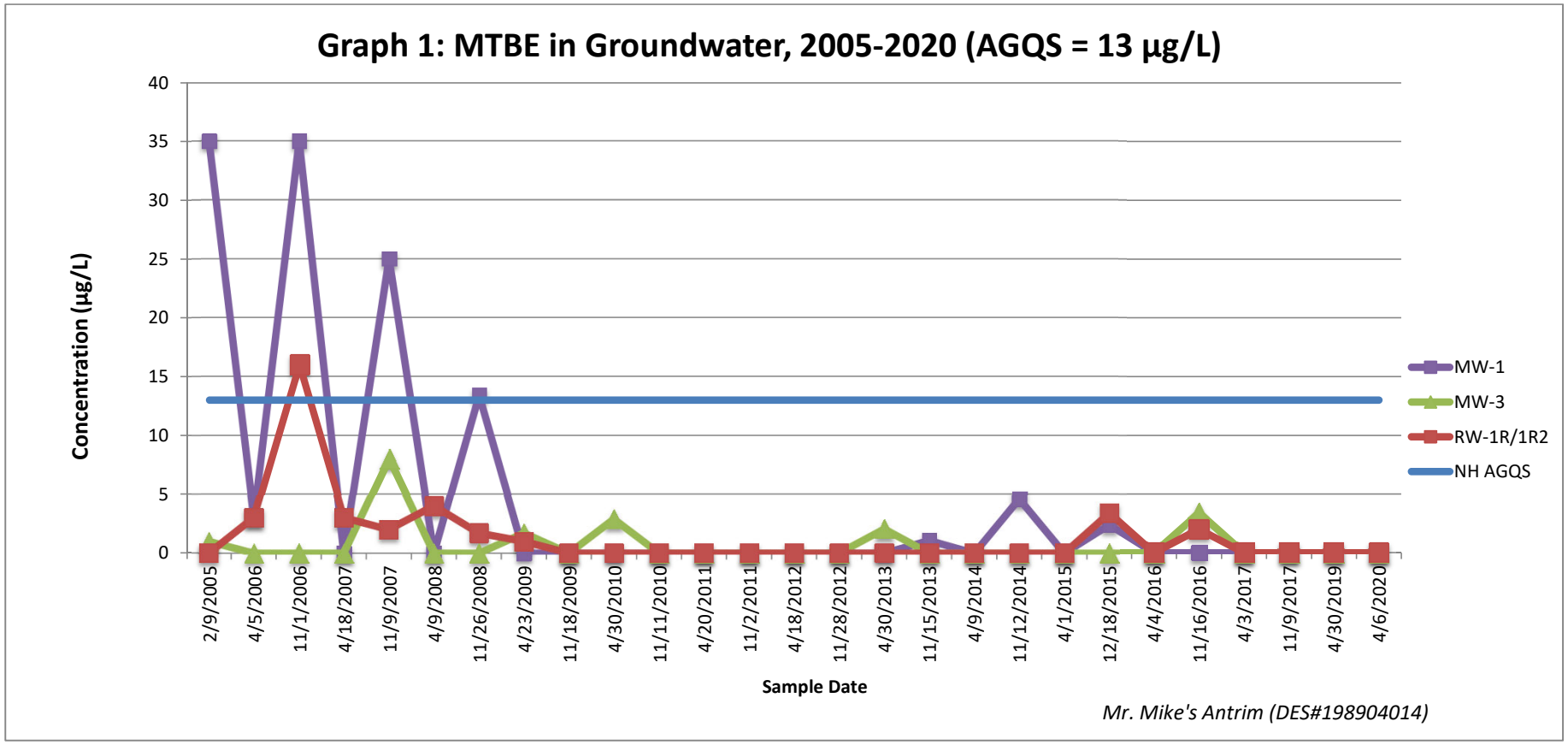
SCALE: 1" = 400'	
DRAWN BY: CS	
CHECKED BY: CH	
DATE: MAY 14, 2020	
NHDES #199812079	

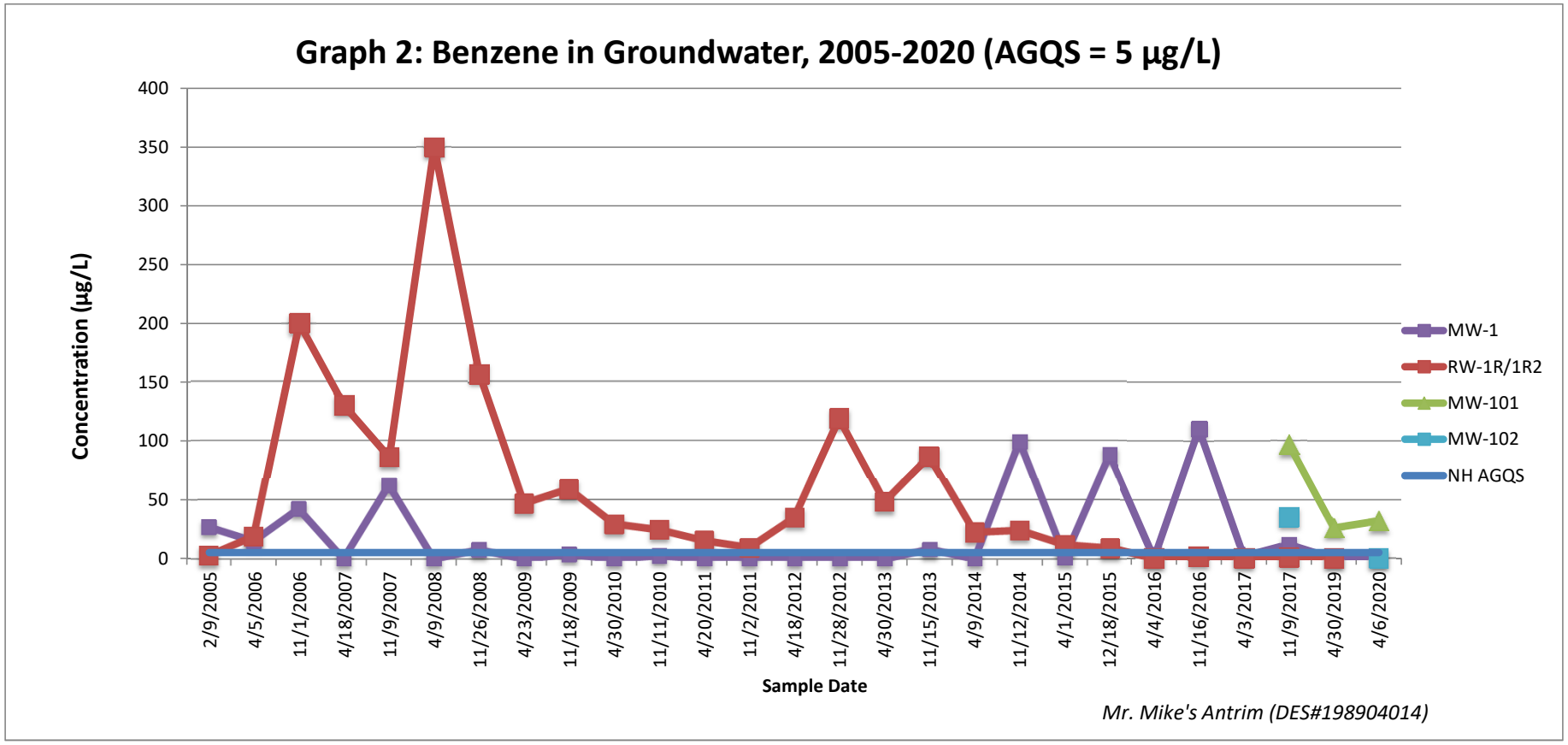
FIGURE 6

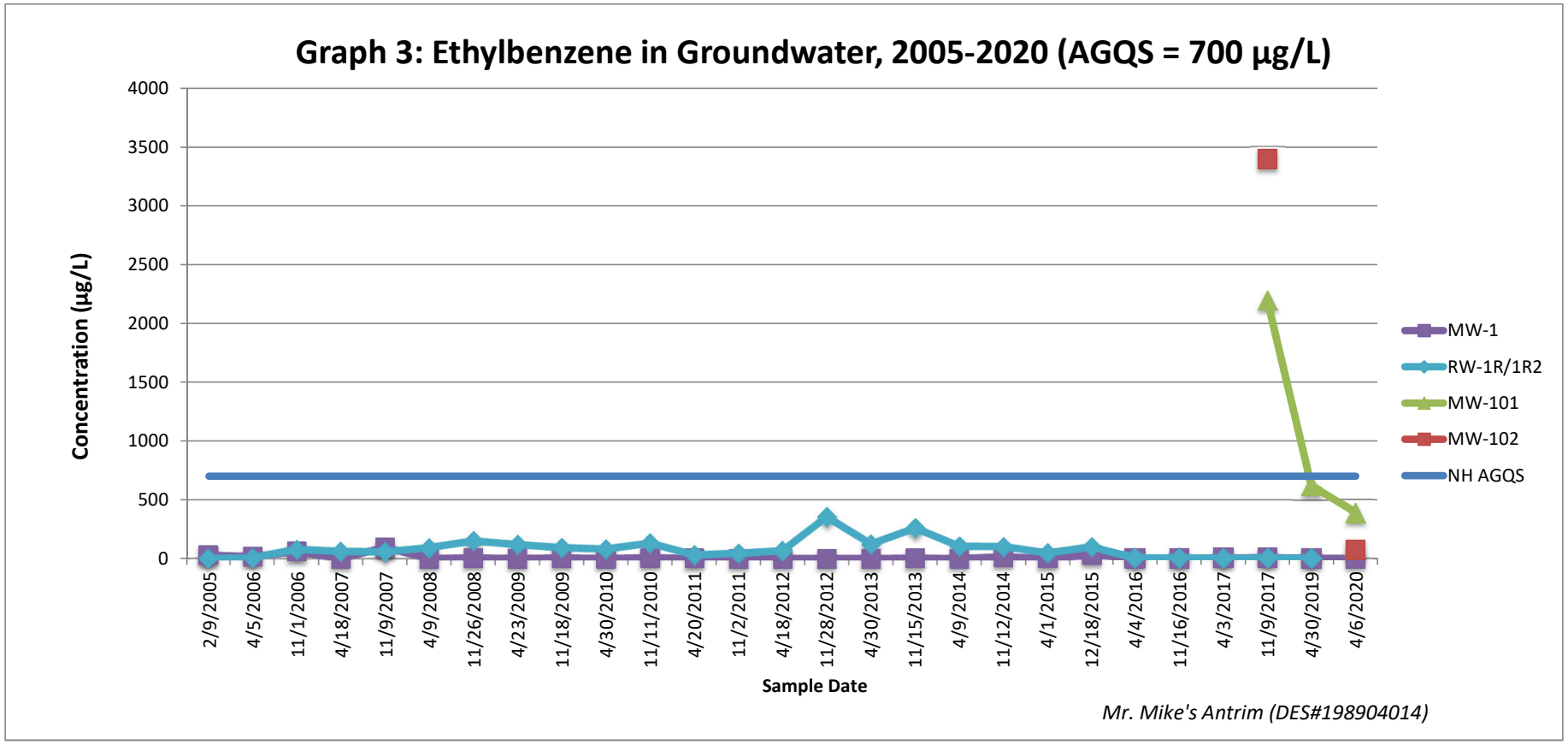
Ⓦ PRIVATE WATER SUPPLY WELL

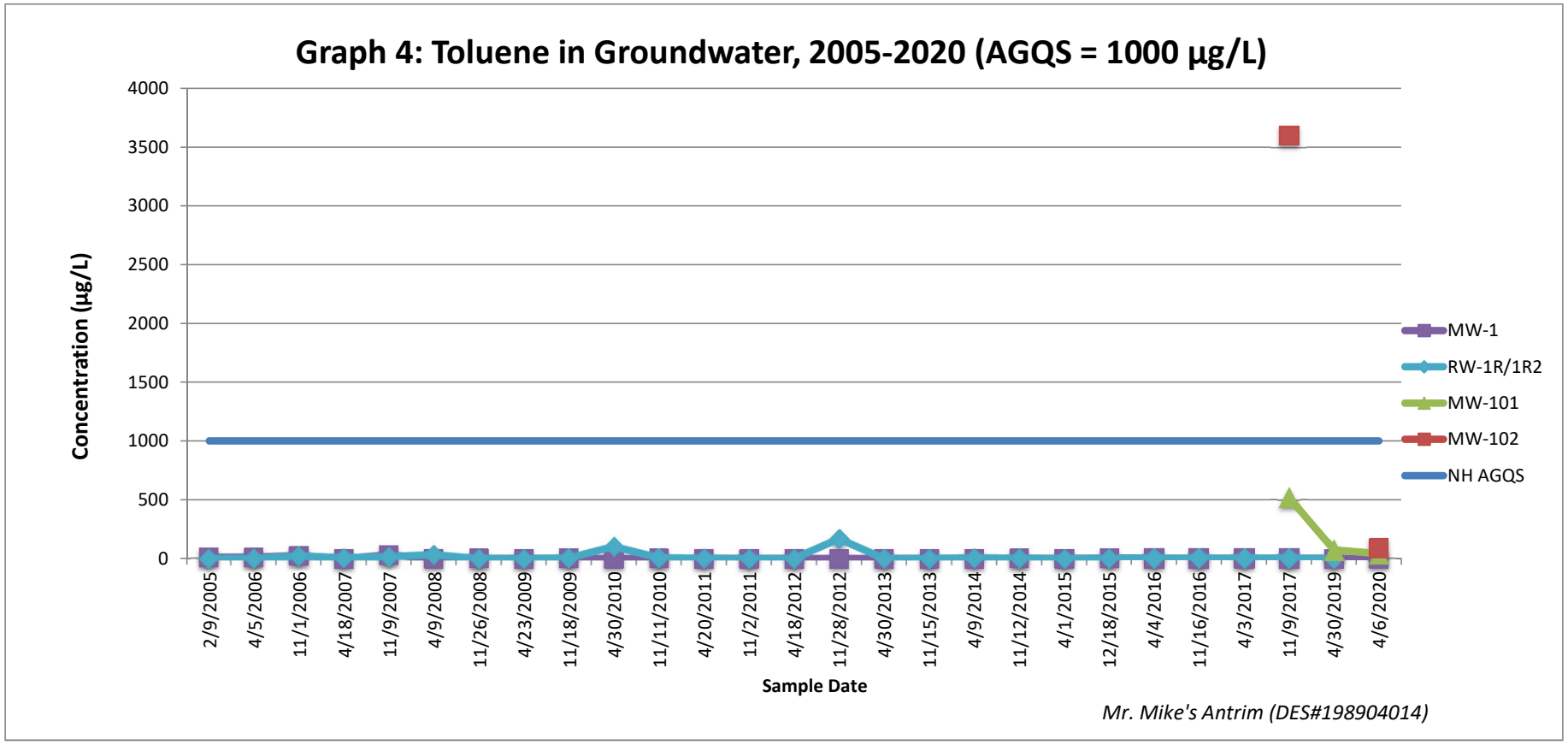


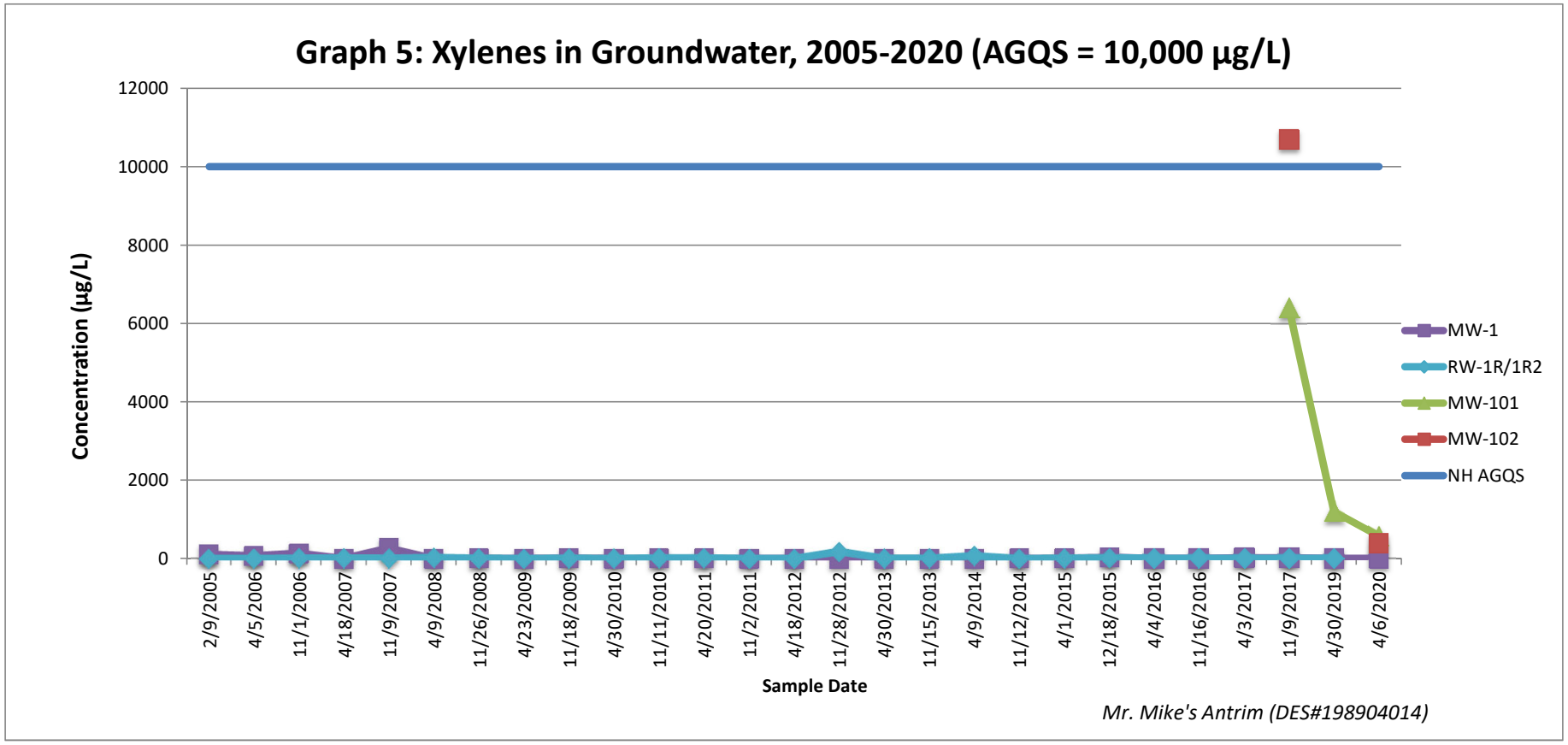
Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

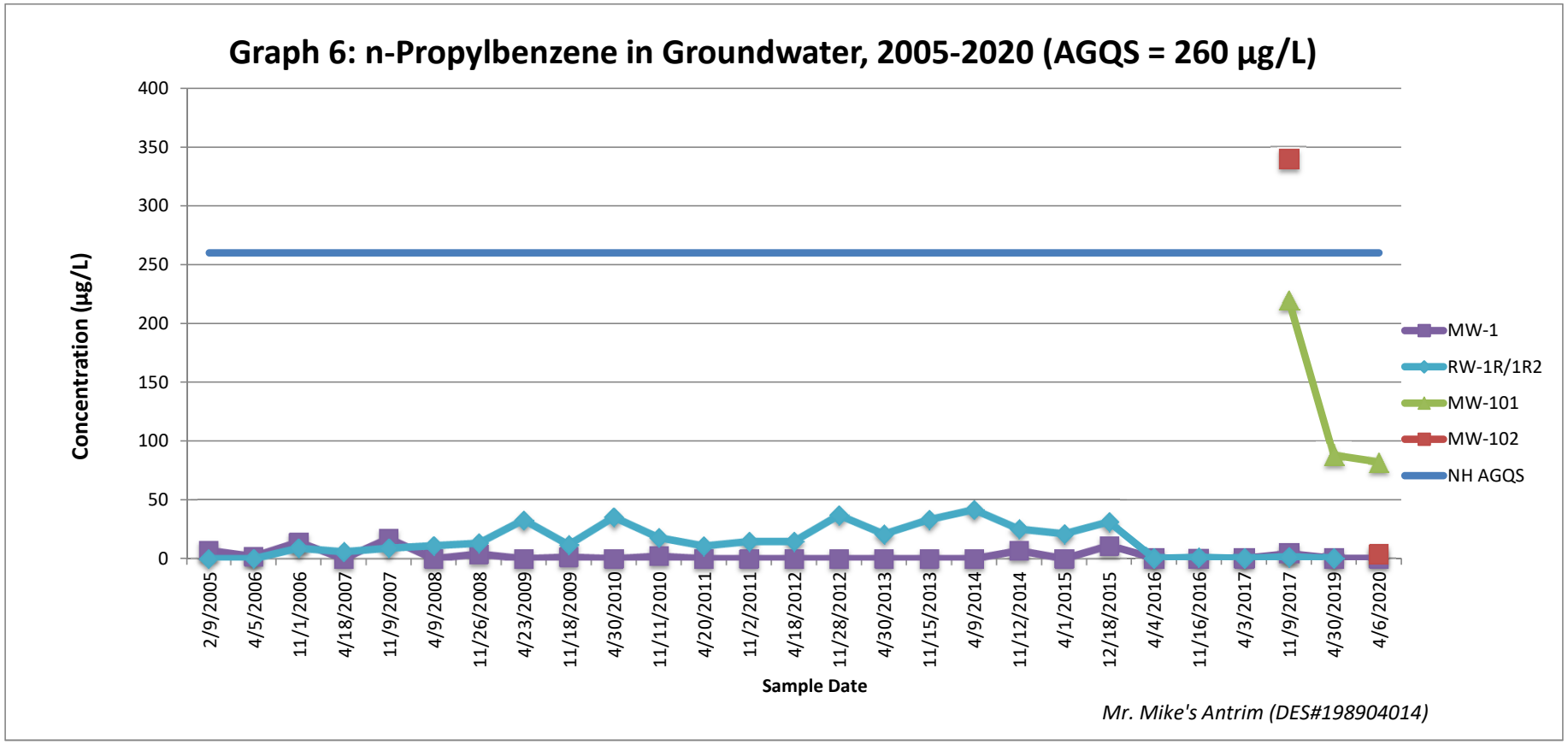

Graph 1: MTBE in Groundwater, 2005-2020 (AGQS = 13 µg/L)
Concentration (µg/L)
40
35
30
25
20
15
10
5
0
2/9/2005
4/5/2006
11/1/2006
4/18/2007
11/9/2007
4/9/2008
11/26/2008
4/23/2009
11/18/2009
4/30/2010
11/11/2010
4/20/2011
11/2/2011
4/18/2012
11/28/2012
4/30/2013
11/15/2013
4/9/2014
11/12/2014
4/1/2015
12/18/2015
4/4/2016
11/16/2016
4/3/2017
11/9/2017
4/30/2019
4/6/2020
Sample Date
MW-1
MW-3
RW-1R/1R2
NH AGQS
Mr. Mike's Antrim (DES#198904014)

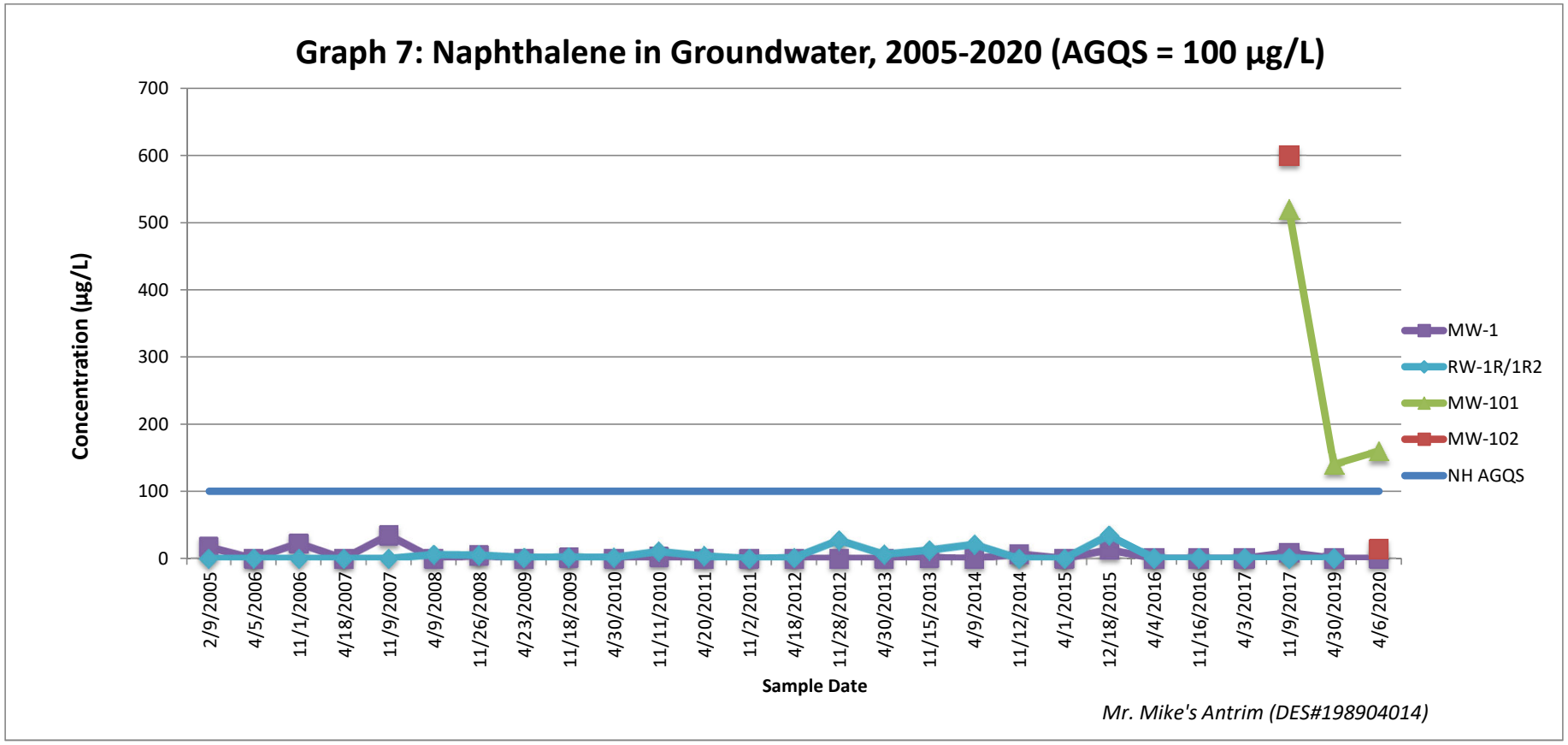

Graph 2: Benzene in Groundwater, 2005-2020 (AGQS = 5 µg/L)
Concentration (µg/L)
400
350
300
250
200
150
100
50
0
2/9/2005
4/5/2006
11/1/2006
4/18/2007
11/9/2007
4/9/2008
11/26/2008
4/23/2009
11/18/2009
4/30/2010
11/11/2010
4/20/2011
11/2/2011
4/18/2012
11/28/2012
4/30/2013
11/15/2013
4/9/2014
11/12/2014
4/1/2015
12/18/2015
4/4/2016
11/16/2016
4/3/2017
11/9/2017
4/30/2019
4/6/2020
Sample Date
MW-1
RW-1R/1R2
MW-101
MW-102
NH AGQS
Mr. Mike's Antrim (DES#198904014)

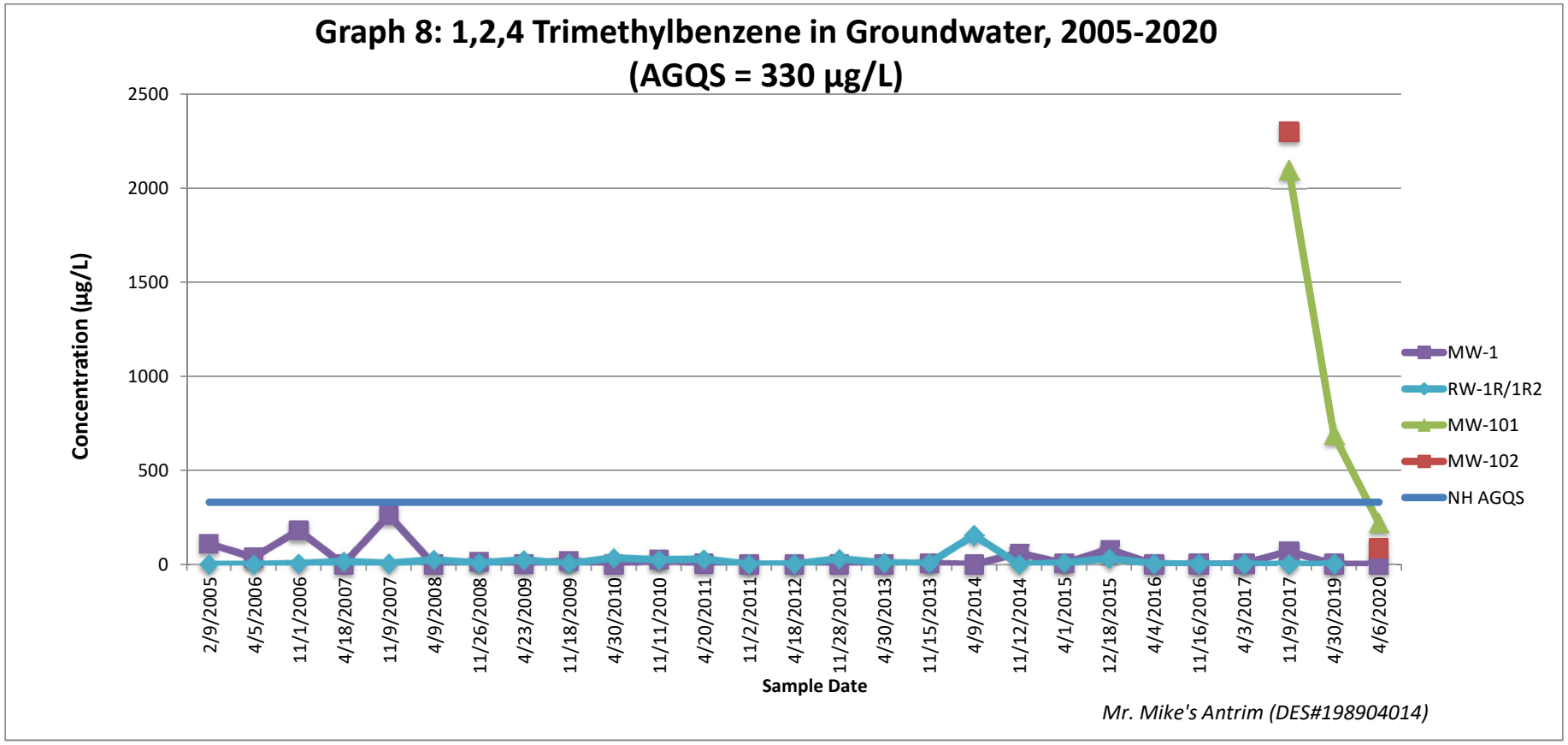

Graph 3: Ethylbenzene in Groundwater, 2005-2020 (AGQS = 700 µg/L)
Concentration (µg/L)
4000
3500
3000
2500
2000
1500
1000
500
0
2/9/2005
4/5/2006
11/1/2006
4/18/2007
11/9/2007
4/9/2008
11/26/2008
4/23/2009
11/18/2009
4/30/2010
11/11/2010
4/20/2011
11/2/2011
4/18/2012
11/28/2012
4/30/2013
11/15/2013
4/9/2014
11/12/2014
4/1/2015
12/18/2015
4/4/2016
11/16/2016
4/3/2017
11/9/2017
4/30/2019
4/6/2020
Sample Date
MW-1
RW-1R/1R2
MW-101
MW-102
NH AGQS
Mr. Mike's Antrim (DES#198904014)

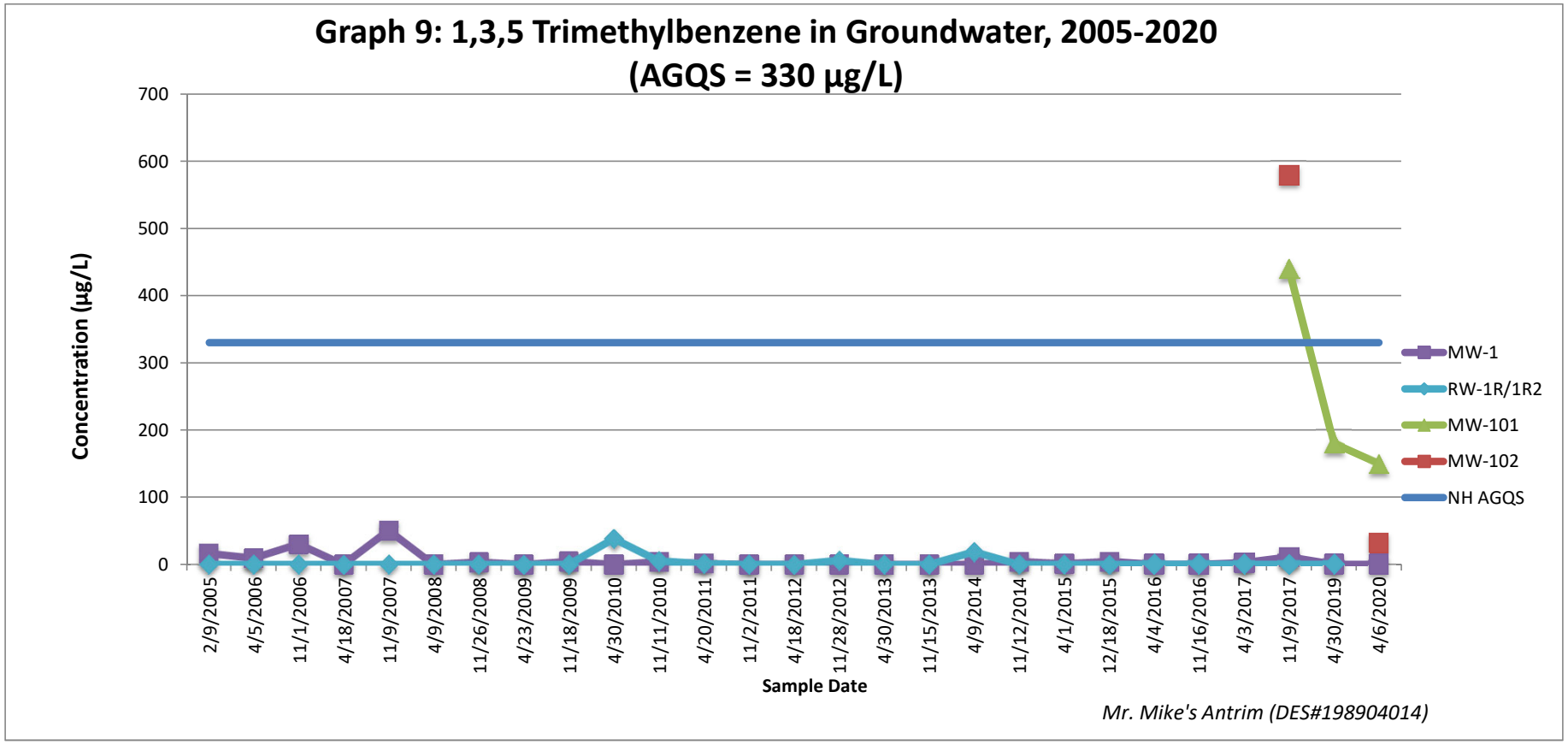

Graph 4: Toluene in Groundwater, 2005-2020 (AGQS = 1000 µg/L)
Concentration (µg/L)
4000
3500
3000
2500
2000
1500
1000
500
0
2/9/2005
4/5/2006
11/1/2006
4/18/2007
11/9/2007
4/9/2008
11/26/2008
4/23/2009
11/18/2009
4/30/2010
11/11/2010
4/20/2011
11/2/2011
4/18/2012
11/28/2012
4/30/2013
11/15/2013
4/9/2014
11/12/2014
4/1/2015
12/18/2015
4/4/2016
11/16/2016
4/3/2017
11/9/2017
4/30/2019
4/6/2020
Sample Date
MW-1
RW-1R/1R2
MW-101
MW-102
NH AGQS
Mr. Mike's Antrim (DES#198904014)


Graph 5: Xylenes in Groundwater, 2005-2020 (AGQS = 10,000 µg/L)
Concentration (µg/L)
12000
10000
8000
6000
4000
2000
0
2/9/2005
4/5/2006
11/1/2006
4/18/2007
11/9/2007
4/9/2008
11/26/2008
4/23/2009
11/18/2009
4/30/2010
11/11/2010
4/20/2011
11/2/2011
4/18/2012
11/28/2012
4/30/2013
11/15/2013
4/9/2014
11/12/2014
4/1/2015
12/18/2015
4/4/2016
11/16/2016
4/3/2017
11/9/2017
4/30/2019
4/6/2020
Sample Date
MW-1
RW-1R/1R2
MW-101
MW-102
NH AGQS
Mr. Mike's Antrim (DES#198904014)


Graph 6: n-Propylbenzene in Groundwater, 2005-2020 (AGQS = 260 µg/L)
Concentration (µg/L)
400
350
300
250
200
150
100
50
0
2/9/2005
4/5/2006
11/1/2006
4/18/2007
11/9/2007
4/9/2008
11/26/2008
4/23/2009
11/18/2009
4/30/2010
11/11/2010
4/20/2011
11/2/2011
4/18/2012
11/28/2012
4/30/2013
11/15/2013
4/9/2014
11/12/2014
4/1/2015
12/18/2015
4/4/2016
11/16/2016
4/3/2017
11/9/2017
4/30/2019
4/6/2020
Sample Date
MW-1
RW-1R/1R2
MW-101
MW-102
NH AGQS
Mr. Mike's Antrim (DES#198904014)


Graph 7: Naphthalene in Groundwater, 2005-2020 (AGQS = 100 µg/L)
Concentration (µg/L)
700
600
500
400
300
200
100
0
2/9/2005
4/5/2006
11/1/2006
4/18/2007
11/9/2007
4/9/2008
11/26/2008
4/23/2009
11/18/2009
4/30/2010
11/11/2010
4/20/2011
11/2/2011
4/18/2012
11/28/2012
4/30/2013
11/15/2013
4/9/2014
11/12/2014
4/1/2015
12/18/2015
4/4/2016
11/16/2016
4/3/2017
11/9/2017
4/30/2019
4/6/2020
Sample Date
MW-1
RW-1R/1R2
MW-101
MW-102
NH AGQS
Mr. Mike's Antrim (DES#198904014)


Graph 8: 1,2,4 Trimethylbenzene in Groundwater, 2005-2020
(AGQS = 330 µg/L)
Concentration (µg/L)
2500
2000
1500
1000
500
0
2/9/2005
4/5/2006
11/1/2006
4/18/2007
11/9/2007
4/9/2008
11/26/2008
4/23/2009
11/18/2009
4/30/2010
11/11/2010
4/20/2011
11/2/2011
4/18/2012
11/28/2012
4/30/2013
11/15/2013
4/9/2014
11/12/2014
4/1/2015
12/18/2015
4/4/2016
11/16/2016
4/3/2017
11/9/2017
4/30/2019
4/6/2020
Sample Date
MW-1
RW-1R/1R2
MW-101
MW-102
NH AGQS
Mr. Mike's Antrim (DES#198904014)


Graph 9: 1,3,5 Trimethylbenzene in Groundwater, 2005-2020
(AGQS = 330 µg/L)
Concentration (µg/L)
700
600
500
400
300
200
100
0
2/9/2005
4/5/2006
11/1/2006
4/18/2007
11/9/2007
4/9/2008
11/26/2008
4/23/2009
11/18/2009
4/30/2010
11/11/2010
4/20/2011
11/2/2011
4/18/2012
11/28/2012
4/30/2013
11/15/2013
4/9/2014
11/12/2014
4/1/2015
12/18/2015
4/4/2016
11/16/2016
4/3/2017
11/9/2017
4/30/2019
4/6/2020
Sample Date
MW-1
RW-1R/1R2
MW-101
MW-102
NH AGQS
Mr. Mike's Antrim (DES#198904014)

Appendix A

Soil Boring Logs

Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / cliff@harperenv.com

Boring/Well No.: **MW-2**

Date completed: 3/11/2020

Client: 74 Main St. Antrim, LLC
Location: 74 Main St.
Antrim, NH 03440

Method of Investigation: Hollow-stem auger boring and split spoon drilling from surface to ~15 feet below ground surface to boring termination. Split spoon samples collected continuously to classify soil, confirm groundwater

Project: Former Mr. Mike's, Antrim
Project Mgr.: Cliff Harper
Geologist: Cliff Harper

Drilling Co.: T&K Drilling
Driller: Sean McGarry
Drill Rig: Truck-mounted hollow-stem auger

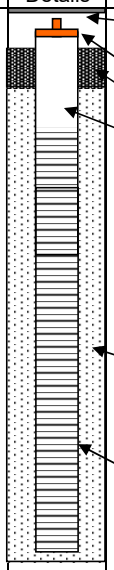
Weather: 50F, clear

Depth (ft)	Sample No.	Sample Depth (ft)	Blows	Recovery (feet)	Sample Description/Lithology	PID Readings (ppm)
	1	0-2	14-21-19-10		0.0 - 6.0': Brown to dark gray, coarse to medium SAND, some medium to fine gravel, trace silt; dry.	0
2	2	2-4	13-15-14-13			0
4	3	4-	11-12-12-15			0
6	4	6-8	14-5-11-7		6.0 - 8.0': Dark brown to dark gray coarse to fine SAND, some silt, little medium to fine gravel; wet @ 6.5'.	0
8	5	8-10	9-20-27-32		8.0 - 12.0': Brown to dark gray, medium to fine SAND, little silt, little fine gravel; saturated.	0
10	6	10-12	20-18-23-20			0
12	7	12-14	20-21-28-33		12.0 - 15.0': Gray to dark gray/light brown, medium to fine SAND and SILT, little medium to fine gravel; saturated.	0
14						
15	8	14-15	27-29			0

Total Depth = 15 feet bgs

Sample collected for lab analysis from 6-8' interval

Well Details



Groundwater and Other Observations

Sample Types:
S = Split Spoon: x
R= Rock Core: _____
T= Shelby Tube: _____
A = Acetate: _____
N = ASTM D1586

Well Backfill Key
Grout
Sand
Native Fill
Bentonite

Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / cliff@harperenv.com

Boring/Well No.: **MW-4**

Date completed: 3/11/2020

Client: 74 Main St. Antrim, LLC
Location: 74 Main St.
Antrim, NH 03440

Method of Investigation: Hollow-stem auger boring and split spoon drilling from surface to ~15 feet below ground surface to boring termination. Split spoon samples collected continuously to classify soil, confirm groundwater

Project: Former Mr. Mike's, Antrim
Project Mgr.: Cliff Harper
Geologist: Cliff Harper

Drilling Co.: T&K Drilling
Driller: Sean McGarry
Drill Rig: Truck-mounted hollow-stem auger

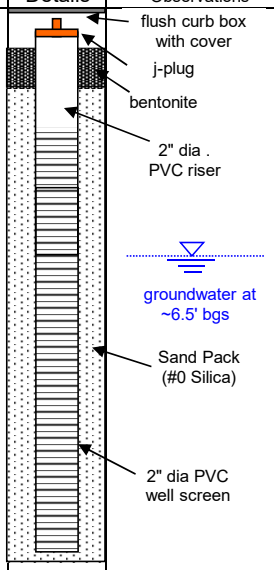
Weather: 50F, clear

Depth (ft)	Sample No.	Sample Depth (ft)	Sample Blows	Sample Recovery (feet)	Sample Description/Lithology	PID Readings (ppm)
	1	0-2	25-29-16-11		0.0 - 6.0': Coarse to medium brown SAND, some gravel, trace silt; dry.	0
2	2	2-4	19-32-29-17			0
4	3	4-6	14-20-26-25			0
6	4	6-8	15-35-10-20		6.0 - 8.0': Brown to dark gray coarse to medium SAND, silts, some medium to fine gravel; wet @ 6.5'.	2
8	5	8-10	22-20-28-17		8.0 - 10.0': Brown to dark gray, medium to fine SAND, little silt, little fine gravel; saturated; faint petroleum odor.	22
10	6	10-12	8-27-12-9		10.0 - 12.0': Gray to dark gray/light brown, medium to fine SAND and SILT, some gravel; saturated; no odor.	0
12	7	12-14	21-20-21-24		12.0 - 15.0': Gray to dark brown, medium SAND and SILT, some gravel; saturated; no odor.	0
14						0
15	8	14-15	39-15			0

Total Depth = 15 feet bgs

Sample collected for lab analysis from 8-10' interval

Well Details



Groundwater and Other Observations

Sample Types:
S = Split Spoon: x
R= Rock Core: _____
T= Shelby Tube: _____
A = Acetate: _____
N = ASTM D1586

Well Backfill Key
Grout
Sand
Native Fill
Bentonite

Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / cliff@harperenv.com

Boring/Well No.: **MW-5**

Date completed: 3/18/2020

Client: 74 Main St. Antrim, LLC
Location: 74 Main St.
Antrim, NH 03440

Method of Investigation: Hollow-stem auger boring and split spoon drilling from surface to ~15 feet below ground surface to boring termination. Split spoon samples collected continuously to classify soil, confirm groundwater

Project: Former Mr. Mike's, Antrim
Project Mgr.: Cliff Harper
Geologist: Cliff Harper

Drilling Co.: T&K Drilling
Driller: Sean McGarry
Drill Rig: Truck-mounted hollow-stem auger

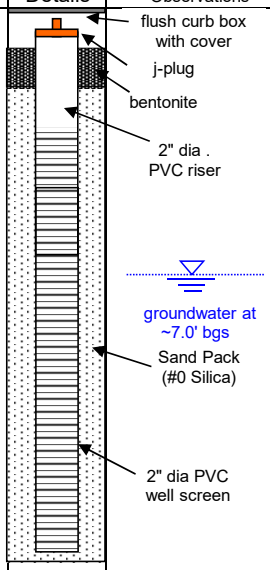
Weather: 50F, cloudy

Depth (ft)	Sample No.	Sample Depth (ft)	Sample Blows	Sample Recovery (feet)	Sample Description/Lithology	PID Readings (ppm)
	1	0-2	14-21-19-10		0.0 - 4.0': Coarse to medium brown SAND, some gravel, trace silt; dry.	0
2	2	2-4	17-11-14-21			0
4	3	4-	12-15-21-9		4.0 - 6.0': Coarse to medium brown SAND, some gravel and silts; dry.	0
6	4	6-8	16-18-16-13		6.0 - 8.0': Coarse to medium brown SAND and SILTS wet @7'	0
8	5	8-10	10-22-28-21		8.0 - 10.0': Coarse to medium brown SAND and SILT; saturated; no odor.	0
10	6	10-12	19-25-19-18		10.0 - 12.0': Medium brown SAND and SILT, some gravel; saturated; no odor.	0
12	7	12-14	20-18-11-27		12.0 - 15.0': Medium brown SAND, increasing gravel; saturated; no odor.	0
14						
15	8	14-15	22-35			0

Total Depth = 15 feet bgs

Sample collected for lab analysis from 13-15' interval

Well Details / Groundwater and Other Observations



Sample Types:
S = Split Spoon: x
R= Rock Core: _____
T= Shelby Tube: _____
A = Acetate: _____
N = ASTM D1586

Well Backfill Key
Grout
Sand
Native Fill
Bentonite

Harper Environmental Associates
1811 Hale Hollow Road
Bridgewater Corners, VT 05035
802.672.6112 / cliff@harperenv.com

Boring/Well No.: **MW-6**

Date completed: 3/18/2020

Client: 74 Main St. Antrim, LLC
Location: 74 Main St.
Antrim, NH 03440

Method of Investigation: Hollow-stem auger boring and split spoon drilling from surface to ~15 feet below ground surface to boring termination. Split spoon samples collected continuously to classify soil, confirm groundwater

Project: Former Mr. Mike's, Antrim
Project Mgr.: Cliff Harper
Geologist: Cliff Harper

Drilling Co.: T&K Drilling
Driller: Sean McGarry
Drill Rig: Truck-mounted hollow-stem auger

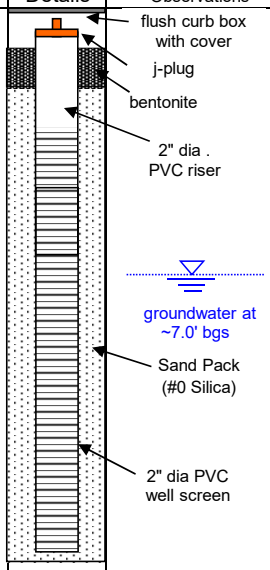
Weather: 50F, cloudy

Depth (ft)	Sample No.	Sample Depth (ft)	Sample Blows	Sample Recovery (feet)	Sample Description/Lithology	PID Readings (ppm)
	1	0-2	19-19-22-13		0.0 - 1.0': Loam and sod. 1.0 - 4.0': Medium brown SAND, some silts; dry.	0
2	2	2-4	12-18-20-20			0
4	3	4-	15-19-22-26		4.0 - 8.0': Coarse to medium brown SAND and SILT; wet @7'	0
6	4	6-8	23-29-21-19			0
8	5	8-10	18-15-14-18		8.0 - 10.0': Medium brown SAND and SILT; saturated; no odor.	0
10	6	10-12	21-29-26-35		10.0 - 15.0': Medium brown SAND and SILT, increasing gravel; saturated; no odor.	0
12	7	12-14	31-36-25-30			0
14						
15	8	14-15	36-36			0

Total Depth = 15 feet bgs

Sample collected for lab analysis from 13-15' interval

Well Details / Groundwater and Other Observations



Sample Types:
S = Split Spoon: x
R= Rock Core: _____
T= Shelby Tube: _____
A = Acetate: _____
N = ASTM D1586

Well Backfill Key
Grout
Sand
Native Fill
Bentonite

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: **SB-101/MW-101** Sheet 1 of 5	Date started: 10/25/2017 Date Finished: 10/25/2017

Client: 74 Main St. Antrim, LLC
Location: 74 Main St.
Antrim, NH 03440

Method of Investigation: Hollow-stem auger boring and split spoon drilling from surface to ~17 feet below ground surface to boring termination. Split spoon samples collected continuously to classify soil, confirm groundwater

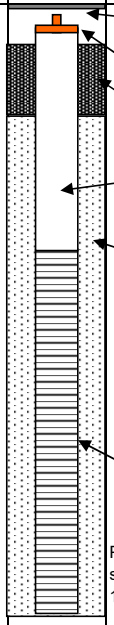
Project No.: A8200
Proj. Mgr: Kyle Schuch
Geologist: Joe Spaulding

Drilling Co.: New England Boring Contractors
Driller: Pat Schofield
Drill Rig: CME-55 Truck-mounted rig

Weather: Overcast, Rainy ~45° F

Depth (ft)	Sample No.	Sample Depth (ft)	Blows	"N"	Recovery (feet)	Sample Description/Lithology	PID Readings (ppm)
	1	0-2	21-15-12-13	27	1.0	0.0 - 6.0': Brown to dark gray, coarse to medium SAND, little medium to fine gravel, trace cobbles/boulders, trace silt, dry.	3.1
2	2	2-4	10-11-14-10	25	1.0		2.9
4	3	4-6	7-7-6-5	13	0.8		4.5
6	4	6-8	4-10-11-17	21	1.0	6.0 - 8.0': Dark brown to dark gray coarse to fine SAND, some silt, little medium to fine gravel, dry.	3.9
8	5	8-10	12-20-36-32	56	1.0	8.0 - 10.0': Brown to dark gray, medium to fine SAND, little silt, little fine gravel, dark gray staining and petroleum odors, dry.	**1069.0**
10	6	10-12	21-22-29-29	51	1.0		**1045.0**
12	7	12-14	9-21-28-43	49	2.0		612.0
14	8	14-16	25-49-53-55	102	2.0	12.0 - 16.0': Gray to dark gray/light brown, medium to fine SAND and SILT, little medium to fine gravel, petroleum odors, saturated.	719.1 18.6
16	9	16-18	55-100	100	1.0	16.0-17.0': Gray coarse to fine SAND and gravel fragments, saturated.	17.9 35.0
17						**Total Depth = 17 feet bgs** **Refusal at 17 feet** Samples submitted for lab analysis 8 -10' and 16 - 17'	

Well Details



Groundwater and Other Observations

Petroleum odors and slight staining ~8.0 - 14.0' bgs.

Sample Types:
S = Split Spoon: x
R= Rock Core: _____
T= Shelby Tube: _____
A = Acetate: _____
N = ASTM D1586

Well Backfill Key
Grout
Sand
Native Fill
Bentonite

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: **SB-102/MW-102** Sheet 2 of 5	Date started: 10/25/2017 Date Finished: 10/26/2017

Client: 74 Main St. Antrim, LLC
Location: 74 Main St.
Antrim, NH 03440

Method of Investigation: Hollow-stem auger boring and split spoon drilling from surface to ~17 feet below ground surface to boring termination. Split spoon samples collected continuously to classify soil, confirm groundwater

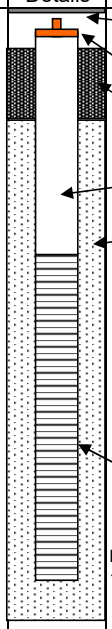
Project No.: A8200
Proj. Mgr: Kyle Schuch
Geologist: Joe Spaulding

Drilling Co.: New England Boring Contractors
Driller: Pat Schofield
Drill Rig: CME-55 Truck-mounted rig

Weather: Overcast, Rainy ~45° F

Depth (ft)	Sample No.	Sample Depth (ft)	Blows	"N"	Recovery (feet)	Sample Description/Lithology	PID Readings (ppm)
	1	0-2	5-18-17-19	35	1.0	0.0 - 6.0': Brown to dark gray, coarse to fine SAND, little silt, trace medium to fine gravel, occa. cobbles/boulders, dry.	1.8
2	2	2-4	8-7-7-6	14	1.0		1.5
4	3	4-6	50-100/0.1	100	0.5		5.0
6	4	6-8	21-25-22-36	47	NR	6.0 - 8.0': Brown to dark brown medium to fine SAND, little silt, trace fine gravel, moist.	---
8							
9	5	9-11	21-25-22-36	47	1.5		2714.0
11	6	11-13	21-24-27-29	31	1.5	9.0 - 17.0': Gray to dark gray medium to fine SAND and SILT, little clay, trace fine gravel, saturated, petroleum odors.	2364.0
13	7	13-15	25-22-23-27	45	2.0		193.0
							85.2
15	8	15-17	32-62-52-64	114	2.0		160.5
							99.9
17						**Total Depth = 17 feet bgs** **Refusal at 17 feet** Samples submitted for lab analysis 9 -10.5' and 16 - 17'	

Well Details



Sample Types:
S = Split Spoon: x
R= Rock Core: _____
T= Shelby Tube: _____
A = Acetate: _____
N = ASTM D1586

Well Backfill Key
Grout
Sand
Native Fill
Bentonite

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: **SB-103** Sheet 3 of 5	Date started: 10/26/2017 Date Finished: 10/26/2017

Client: 74 Main St. Antrim, LLC
Location: 74 Main St.
Antrim, NH 03440

Method of Investigation: Hollow-stem auger boring and split spoon drilling from surface to ~11 feet below ground surface to boring termination. Split spoon samples collected continuously to classify soil, confirm groundwater interface, and evaluate if there is evidence of petroleum contamination.

Project No.: A8200
Proj. Mgr: Kyle Schuch
Geologist: Joe Spaulding

Drilling Co.: New England Boring Contractors
Driller: Pat Schofield
Drill Rig: CME-55 Truck-mounted rig

Weather: Overcast, Rainy ~45° F

Depth (ft)	Sample No.	Sample Depth (ft)	Blows	"N"	Recovery (feet)	Sample Description/Lithology	PID Readings (ppm)	Groundwater and Other Observations
	1	0-2	---	---	---	0.0 - 5.0': Brown to dark brown coarse to fine SAND, some silt, little medium to fine gravel, fill material (brick cinder fragments), dry.	0.0	0.0 - 5.0' soft dug by hand and high-vac truck.
2	2	2-4	---	---	---		0.0	
4	3	4-5	---	---	---		0.0	Petroleum odors and slight staining ~7.5 - 11.0' bgs.
5	4	5-7	5-7-17-18	24	---	5.0 - 7.0': Brown to dark brown SAND, some silt, little medium to fine gravel, dry.	0.0	
7	7	7-9	4-8-15-19	23	0.7	7.0 - 9.0': Gray to dark gray medium to fine SAND and GRAVEL, some silt, dry, slight petroleum odors.	182.2	
9	9	9-11	21-61-64-100/0.3	125	1.0	9.0 - 10.0': Dark gray to black medium to fine SAND and GRAVEL, rock fragments in tip of spoon (possible fill), saturated, petroleum odors.	674.1	groundwater at ~9.0' bgs
11						**Total Depth = 11 feet bgs** **Refusal at 11 feet** Sample submitted for lab analysis at 9 - 11'		

Sample Types:
S = Split Spoon: x
R= Rock Core:
T= Shelby Tube:
A = Acetate:
N = ASTM D1586

Well Backfill Key
Grout
Sand
Native Fill
Bentonite

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: **SB-104** Sheet 4 of 5	Date started: 10/26/2017 Date Finished: 10/26/2017

Client: 74 Main St. Antrim, LLC
Location: 74 Main St.
Antrim, NH 03440

Method of Investigation: Hollow-stem auger boring and split spoon drilling from surface to ~13 feet below ground surface to boring termination. Split spoon samples collected continuously to classify soil, confirm groundwater interface, and evaluate if there is evidence of petroleum contamination.

Project No.: A8200
Proj. Mgr: Kyle Schuch
Geologist: Joe Spaulding

Drilling Co.: New England Boring Contractors
Driller: Pat Schofield
Drill Rig: CME-55 Truck-mounted rig

Weather: Overcast, Rainy ~45° F

Depth (ft)	Sample No.	Sample Depth (ft)	Blows	"N"	Recovery (feet)	Sample Description/Lithology	PID Readings (ppm)	Groundwater and Other Observations
	1	0-2	---	---	---	0.0 - 5.0': Brown to dark brown coarse to fine SAND, little silt, little medium to fine gravel, fill material (brick cinder fragments), dry.	0.0	0.0 - 5.0' soft dug by hand and vac truck.
2	2	2-4	---	---	---		0.0	
4	3	4-5	---	---	---		0.0	No petroleum odors or staining throughout boring.
5	4	5-7	15-22-39-100	61	1.0	5.0 - 9.0': Brown to dark brown medium to fine SAND, some medium to fine gravel, little silt, moist.	2.9	
7	5	7-9	17-32-49-47	81	0.8		2.0	
9	6	9-11	18-30-45-46	75	1.0	9.0 - 11.0': Light tan to gray, medium to fine SAND and SILT, trace medium gravel, saturated.	2.3	groundwater at ~9.0' bgs
11	7	11-13	25-39-48-61	87	1.5	11.0 - 13.0': Light tan to gray fine, SAND and SILT, trace fine gravel, saturated.	2.1	
13						**Total Depth = 13 feet bgs** **Refusal at 13 feet** Sample submitted for lab analysis at 9 - 11'		

Sample Types:
S = Split Spoon: x
R= Rock Core: _____
T= Shelby Tube: _____
A = Acetate: _____
N = ASTM D1586

Well Backfill Key
Grout
Sand
Native Fill
Bentonite

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: **SB-105/MW-105** Sheet 5 of 5	Date started: 10/25/2017 Date Finished: 10/25/2017

Client: 74 Main St. Antrim, LLC
Location: 74 Main St.
Antrim, NH 03440

Method of Investigation: Hollow-stem auger boring and split spoon drilling from surface to ~15.5 feet below ground surface to boring termination. Split spoon samples collected continuously to classify soil, confirm groundwater interface, and evaluate if there is evidence of petroleum contamination.

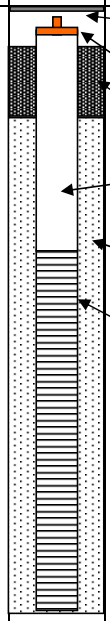
Project No.: A8200
Proj. Mgr: Kyle Schuch
Geologist: Joe Spaulding

Drilling Co.: New England Boring Contractors
Driller: Pat Schofield
Drill Rig: CME-55 Truck-mounted rig

Weather: Overcast, Rainy ~45° F

Depth (ft)	Sample No.	Sample Depth (ft)	Blows	"N"	Recovery (feet)	Sample Description/Lithology	PID Readings (ppm)
	1	0-2	---	---	2.0	0.0 - 4.0': Brown to light brown to tan, coarse to medium SAND, trace silt, trace medium to fine gravel, trace cobbles and boulders, dry.	0.1
2	2	2-4	---	---	2.0		0.1
4	3	4-6	2-6-8-8	14	0.5	4.0 - 8.0': Dark brown to brown coarse to medium SAND, trace silt, trace medium gravel, dry.	0.4
6	4	6-8	11-13-7-24	20	1.0		0.6
8	5	8-10	7-14-22-50/0.3	36	0.0		0.0
10	6	10-12	12-18-28-38	46	1.8	10.0 - 15.5': Light tan to gray, medium to fine SAND and SILT, little fine gravel, trace clay, moist to saturated.	1.8
12	7	12-14	52-54-58-58	112	1.0		1.1
14	8	14-16	13-22-25-25	47	1.5		1.0
15.5						**Total Depth = 15.5 feet bgs** **Refusal at 15.5 feet**	
						Sample submitted for lab analysis at 8 - 10'	

Well Details



Groundwater and Other Observations

Sample Types:
S = Split Spoon: x
R= Rock Core: _____
T= Shelby Tube: _____
A = Acetate: _____
N = ASTM D1586

Well Backfill Key
Grout
Sand
Native Fill
Bentonite

Appendix B

Laboratory Analytical Reports

Eastern Analytical, Inc.

professional laboratory and drilling services

Cliff Harper
Harper Environmental Associates, Inc.
1811 Hale Hollow Road
Bridgewater Corners , VT 05035

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 208752
Client Identification: FMR. MR. MIKE'S
Date Received: 4/8/2020

Dear Mr. Harper :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.easternanalytical.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012) and New York (12072).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample (s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw	4.16.20	17
Lorraine Olashaw, Lab Director	Date	# of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**

Client Designation: **FMR. MR. MIKE'S**

Temperature upon receipt (°C): 3.7 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
208752.01	MW 2	4/8/20	4/7/20	aqueous		Adheres to Sample Acceptance Policy
208752.02	MW 5	4/8/20	4/7/20	aqueous		Adheres to Sample Acceptance Policy
208752.03	MW 4	4/8/20	4/7/20	aqueous		Adheres to Sample Acceptance Policy
208752.04	MW 102	4/8/20	4/7/20	aqueous		Adheres to Sample Acceptance Policy
208752.05	MW 101	4/8/20	4/7/20	aqueous		Adheres to Sample Acceptance Policy
208752.06	MW 1	4/8/20	4/7/20	aqueous		Adheres to Sample Acceptance Policy
208752.07	MW 6	4/8/20	4/7/20	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitability, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.
Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.
All results contained in this report relate only to the above listed samples.
References include:
1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd Edition or noted Revision year.
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 4th edition, 1992

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**

Client Designation: **FMR. MR. MIKE'S**

Sample ID: MW 2

Lab Sample ID: 208752.01
Matrix: aqueous
Date Sampled: 4/7/20
Date Received: 4/8/20
Date of Extraction/Prep:

Dilution Factor: 1
Units: ug/L
Date of Analysis: 4/11/20
Method: 8260C
Analyst: JAK

Parameter	Result	RL
Dichlorodifluoromethane	< 2	2
Chloromethane	< 2	2
Vinyl chloride	< 1	1
Bromomethane	< 2	2
Chloroethane	< 2	2
Trichlorofluoromethane	< 2	2
Diethyl Ether	< 2	2
Trichlorotrifluoroethane	< 2	2
Acetone	< 10	10
1,1-Dichloroethene	< 0.5	0.5
tert-Butyl Alcohol (TBA)	< 30	30
Methylene chloride	< 1	1
Carbon disulfide	< 2	2
Methyl-t-butyl ether(MTBE)	< 1	1
Ethyl-t-butyl ether(ETBE)	< 2	2
Isopropyl ether(DIPE)	< 2	2
tert-amyl methyl ether(TAME)	< 2	2
trans-1,2-Dichloroethene	< 1	1
1,1-Dichloroethane	< 1	1
2,2-Dichloropropane	< 1	1
cis-1,2-Dichloroethene	< 1	1
2-Butanone(MEK)	< 10	10
Bromochloromethane	< 1	1
Tetrahydrofuran(THF)	< 10	10
Chloroform	< 1	1
1,1,1-Trichloroethane	< 1	1
Carbon tetrachloride	< 1	1
1,1-Dichloropropene	< 1	1
Benzene	< 1	1
1,2-Dichloroethane	< 1	1
Trichloroethene	< 1	1
1,2-Dichloropropane	< 1	1
Dibromomethane	< 1	1
Bromodichloromethane	< 0.5	0.5
1,4-Dioxane	< 50	50
4-Methyl-2-pentanone(MIBK)	< 10	10
cis-1,3-Dichloropropene	< 0.5	0.5
Toluene	< 1	1
trans-1,3-Dichloropropene	< 0.5	0.5
1,1,2-Trichloroethane	< 1	1
2-Hexanone	< 10	10
Tetrachloroethene	< 1	1

Parameter	Result	RL
1,3-Dichloropropane	< 1	1
Dibromochloromethane	< 1	1
1,2-Dibromoethane(EDB)	< 0.5	0.5
Chlorobenzene	< 1	1
1,1,1,2-Tetrachloroethane	< 1	1
Ethylbenzene	< 1	1
mp-Xylene	< 1	1
o-Xylene	< 1	1
Styrene	< 1	1
Bromoform	< 2	2
IsoPropylbenzene	< 1	1
Bromobenzene	< 1	1
1,1,2,2-Tetrachloroethane	< 1	1
1,2,3-Trichloropropane	< 0.5	0.5
n-Propylbenzene	< 1	1
2-Chlorotoluene	< 1	1
4-Chlorotoluene	< 1	1
1,3,5-Trimethylbenzene	< 1	1
tert-Butylbenzene	< 1	1
1,2,4-Trimethylbenzene	< 1	1
sec-Butylbenzene	< 1	1
1,3-Dichlorobenzene	< 1	1
p-Isopropyltoluene	< 1	1
1,4-Dichlorobenzene	< 1	1
1,2-Dichlorobenzene	< 1	1
n-Butylbenzene	< 1	1
1,2-Dibromo-3-chloropropane	< 2	2
1,3,5-Trichlorobenzene	< 1	1
1,2,4-Trichlorobenzene	< 1	1
Hexachlorobutadiene	< 0.5	0.5
Naphthalene	< 2	2
1,2,3-Trichlorobenzene	< 0.5	0.5
4-Bromofluorobenzene (surr)	**98 %R**	
1,2-Dichlorobenzene-d4 (surr)	**98 %R**	
Toluene-d8 (surr)	**99 %R**	
1,2-Dichloroethane-d4 (surr)	**105 %R**	

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**

Client Designation: **FMR. MR. MIKE'S**

Sample ID: MW 5

Lab Sample ID:	208752.02	**Dilution Factor:**	1
Matrix:	aqueous	**Units:**	ug/L
Date Sampled:	4/7/20	**Date of Analysis:**	4/11/20
Date Received:	4/8/20	**Method:**	8260C
Date of Extraction/Prep:		**Analyst:**	JAK

Parameter	Result	RL	Parameter	Result	RL
Dichlorodifluoromethane	< 2	2	1,3-Dichloropropane	< 1	1
Chloromethane	< 2	2	Dibromochloromethane	< 1	1
Vinyl chloride	< 1	1	1,2-Dibromoethane(EDB)	< 0.5	0.5
Bromomethane	< 2	2	Chlorobenzene	< 1	1
Chloroethane	< 2	2	1,1,1,2-Tetrachloroethane	< 1	1
Trichlorofluoromethane	< 2	2	Ethylbenzene	< 1	1
Diethyl Ether	< 2	2	mp-Xylene	< 1	1
Trichlorotrifluoroethane	< 2	2	o-Xylene	< 1	1
Acetone	< 10	10	Styrene	< 1	1
1,1-Dichloroethene	< 0.5	0.5	Bromoform	< 2	2
tert-Butyl Alcohol (TBA)	< 30	30	IsoPropylbenzene	< 1	1
Methylene chloride	< 1	1	Bromobenzene	< 1	1
Carbon disulfide	< 2	2	1,1,2,2-Tetrachloroethane	< 1	1
Methyl-t-butyl ether(MTBE)	< 1	1	1,2,3-Trichloropropane	< 0.5	0.5
Ethyl-t-butyl ether(ETBE)	< 2	2	n-Propylbenzene	< 1	1
Isopropyl ether(DIPE)	< 2	2	2-Chlorotoluene	< 1	1
tert-amyl methyl ether(TAME)	< 2	2	4-Chlorotoluene	< 1	1
trans-1,2-Dichloroethene	< 1	1	1,3,5-Trimethylbenzene	< 1	1
1,1-Dichloroethane	< 1	1	tert-Butylbenzene	< 1	1
2,2-Dichloropropane	< 1	1	1,2,4-Trimethylbenzene	< 1	1
cis-1,2-Dichloroethene	< 1	1	sec-Butylbenzene	< 1	1
2-Butanone(MEK)	< 10	10	1,3-Dichlorobenzene	< 1	1
Bromochloromethane	< 1	1	p-Isopropyltoluene	< 1	1
Tetrahydrofuran(THF)	< 10	10	1,4-Dichlorobenzene	< 1	1
Chloroform	< 1	1	1,2-Dichlorobenzene	< 1	1
1,1,1-Trichloroethane	< 1	1	n-Butylbenzene	< 1	1
Carbon tetrachloride	< 1	1	1,2-Dibromo-3-chloropropane	< 2	2
1,1-Dichloropropene	< 1	1	1,3,5-Trichlorobenzene	< 1	1
Benzene	< 1	1	1,2,4-Trichlorobenzene	< 1	1
1,2-Dichloroethane	< 1	1	Hexachlorobutadiene	< 0.5	0.5
Trichloroethene	< 1	1	Naphthalene	< 2	2
1,2-Dichloropropane	< 1	1	1,2,3-Trichlorobenzene	< 0.5	0.5
Dibromomethane	< 1	1	4-Bromofluorobenzene (surr)	**100 %R**	
Bromodichloromethane	< 0.5	0.5	1,2-Dichlorobenzene-d4 (surr)	**97 %R**	
1,4-Dioxane	< 50	50	Toluene-d8 (surr)	**100 %R**	
4-Methyl-2-pentanone(MIBK)	< 10	10	1,2-Dichloroethane-d4 (surr)	**104 %R**	
cis-1,3-Dichloropropene	< 0.5	0.5			
Toluene	< 1	1			
trans-1,3-Dichloropropene	< 0.5	0.5			
1,1,2-Trichloroethane	< 1	1			
2-Hexanone	< 10	10			
Tetrachloroethene	< 1	1			

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**

Client Designation: **FMR. MR. MIKE'S**

Sample ID: MW 4

Lab Sample ID:	208752.03	**Dilution Factor:**	1
Matrix:	aqueous	**Units:**	ug/L
Date Sampled:	4/7/20	**Date of Analysis:**	4/11/20
Date Received:	4/8/20	**Method:**	8260C
Date of Extraction/Prep:		**Analyst:**	JAK

Parameter	Result	RL	Parameter	Result	RL
Dichlorodifluoromethane	< 2	2	1,3-Dichloropropane	< 1	1
Chloromethane	< 2	2	Dibromochloromethane	< 1	1
Vinyl chloride	< 1	1	1,2-Dibromoethane(EDB)	< 0.5	0.5
Bromomethane	< 2	2	Chlorobenzene	< 1	1
Chloroethane	< 2	2	1,1,1,2-Tetrachloroethane	< 1	1
Trichlorofluoromethane	< 2	2	Ethylbenzene	< 1	1
Diethyl Ether	< 2	2	mp-Xylene	< 1	1
Trichlorotrifluoroethane	< 2	2	o-Xylene	< 1	1
Acetone	< 10	10	Styrene	< 1	1
1,1-Dichloroethene	< 0.5	0.5	Bromoform	< 2	2
tert-Butyl Alcohol (TBA)	< 30	30	IsoPropylbenzene	< 1	1
Methylene chloride	< 1	1	Bromobenzene	< 1	1
Carbon disulfide	< 2	2	1,1,2,2-Tetrachloroethane	< 1	1
Methyl-t-butyl ether(MTBE)	< 1	1	1,2,3-Trichloropropane	< 0.5	0.5
Ethyl-t-butyl ether(ETBE)	< 2	2	n-Propylbenzene	< 1	1
Isopropyl ether(DIPE)	< 2	2	2-Chlorotoluene	< 1	1
tert-amyl methyl ether(TAME)	< 2	2	4-Chlorotoluene	< 1	1
trans-1,2-Dichloroethene	< 1	1	1,3,5-Trimethylbenzene	< 1	1
1,1-Dichloroethane	< 1	1	tert-Butylbenzene	< 1	1
2,2-Dichloropropane	< 1	1	1,2,4-Trimethylbenzene	< 1	1
cis-1,2-Dichloroethene	< 1	1	sec-Butylbenzene	< 1	1
2-Butanone(MEK)	< 10	10	1,3-Dichlorobenzene	< 1	1
Bromochloromethane	< 1	1	p-Isopropyltoluene	< 1	1
Tetrahydrofuran(THF)	< 10	10	1,4-Dichlorobenzene	< 1	1
Chloroform	< 1	1	1,2-Dichlorobenzene	< 1	1
1,1,1-Trichloroethane	< 1	1	n-Butylbenzene	< 1	1
Carbon tetrachloride	< 1	1	1,2-Dibromo-3-chloropropane	< 2	2
1,1-Dichloropropene	< 1	1	1,3,5-Trichlorobenzene	< 1	1
Benzene	< 1	1	1,2,4-Trichlorobenzene	< 1	1
1,2-Dichloroethane	< 1	1	Hexachlorobutadiene	< 0.5	0.5
Trichloroethene	< 1	1	Naphthalene	< 2	2
1,2-Dichloropropane	< 1	1	1,2,3-Trichlorobenzene	< 0.5	0.5
Dibromomethane	< 1	1	4-Bromofluorobenzene (surr)	**97 %R**	
Bromodichloromethane	< 0.5	0.5	1,2-Dichlorobenzene-d4 (surr)	**98 %R**	
1,4-Dioxane	< 50	50	Toluene-d8 (surr)	**98 %R**	
4-Methyl-2-pentanone(MIBK)	< 10	10	1,2-Dichloroethane-d4 (surr)	**105 %R**	
cis-1,3-Dichloropropene	< 0.5	0.5			
Toluene	< 1	1			
trans-1,3-Dichloropropene	< 0.5	0.5			
1,1,2-Trichloroethane	< 1	1			
2-Hexanone	< 10	10			
Tetrachloroethene	< 1	1			

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**

Client Designation: **FMR. MR. MIKE'S**

Sample ID: MW 102

Lab Sample ID:	208752.04	**Dilution Factor:**	1
Matrix:	aqueous	**Units:**	ug/L
Date Sampled:	4/7/20	**Date of Analysis:**	4/11/20
Date Received:	4/8/20	**Method:**	8260C
Date of Extraction/Prep:		**Analyst:**	JAK

Parameter	Result	RL	Parameter	Result	RL
Dichlorodifluoromethane	< 2	2	1,3-Dichloropropane	< 1	1
Chloromethane	< 2	2	Dibromochloromethane	< 1	1
Vinyl chloride	< 1	1	1,2-Dibromoethane(EDB)	< 0.5	0.5
Bromomethane	< 2	2	Chlorobenzene	< 1	1
Chloroethane	< 2	2	1,1,1,2-Tetrachloroethane	< 1	1
Trichlorofluoromethane	< 2	2	Ethylbenzene	**76**	1
Diethyl Ether	< 2	2	mp-Xylene	**240**	1
Trichlorotrifluoroethane	< 2	2	o-Xylene	**150**	1
Acetone	**55**	10	Styrene	< 1	1
1,1-Dichloroethene	< 0.5	0.5	Bromoform	< 2	2
tert-Butyl Alcohol (TBA)	< 30	30	IsoPropylbenzene	**2.4**	1
Methylene chloride	< 1	1	Bromobenzene	< 1	1
Carbon disulfide	< 2	2	1,1,2,2-Tetrachloroethane	< 1	1
Methyl-t-butyl ether(MTBE)	< 1	1	1,2,3-Trichloropropane	< 0.5	0.5
Ethyl-t-butyl ether(ETBE)	< 2	2	n-Propylbenzene	**3.5**	1
Isopropyl ether(DIPE)	< 2	2	2-Chlorotoluene	< 1	1
tert-amyl methyl ether(TAME)	< 2	2	4-Chlorotoluene	< 1	1
trans-1,2-Dichloroethene	< 1	1	1,3,5-Trimethylbenzene	**32**	1
1,1-Dichloroethane	< 1	1	tert-Butylbenzene	< 1	1
2,2-Dichloropropane	< 1	1	1,2,4-Trimethylbenzene	**85**	1
cis-1,2-Dichloroethene	< 1	1	sec-Butylbenzene	< 1	1
2-Butanone(MEK)	< 10	10	1,3-Dichlorobenzene	< 1	1
Bromochloromethane	< 1	1	p-Isopropyltoluene	< 1	1
Tetrahydrofuran(THF)	< 10	10	1,4-Dichlorobenzene	< 1	1
Chloroform	< 1	1	1,2-Dichlorobenzene	< 1	1
1,1,1-Trichloroethane	< 1	1	n-Butylbenzene	< 1	1
Carbon tetrachloride	< 1	1	1,2-Dibromo-3-chloropropane	< 2	2
1,1-Dichloropropene	< 1	1	1,3,5-Trichlorobenzene	< 1	1
Benzene	< 1	1	1,2,4-Trichlorobenzene	< 1	1
1,2-Dichloroethane	< 1	1	Hexachlorobutadiene	< 0.5	0.5
Trichloroethene	< 1	1	Naphthalene	**14**	2
1,2-Dichloropropane	< 1	1	1,2,3-Trichlorobenzene	< 0.5	0.5
Dibromomethane	< 1	1	4-Bromofluorobenzene (surr)	**102 %R**	
Bromodichloromethane	< 0.5	0.5	1,2-Dichlorobenzene-d4 (surr)	**101 %R**	
1,4-Dioxane	< 50	50	Toluene-d8 (surr)	**98 %R**	
4-Methyl-2-pentanone(MIBK)	< 10	10	1,2-Dichloroethane-d4 (surr)	**101 %R**	
cis-1,3-Dichloropropene	< 0.5	0.5			
Toluene	**87**	1			
trans-1,3-Dichloropropene	< 0.5	0.5			
1,1,2-Trichloroethane	< 1	1			
2-Hexanone	< 10	10			
Tetrachloroethene	< 1	1			

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**

Client Designation: **FMR. MR. MIKE'S**

Sample ID: MW 101

Lab Sample ID:	208752.05	**Dilution Factor:**	1
Matrix:	aqueous	**Units:**	ug/L
Date Sampled:	4/7/20	**Date of Analysis:**	4/11/20
Date Received:	4/8/20	**Method:**	8260C
Date of Extraction/Prep:		**Analyst:**	JAK

Parameter	Result	RL
Dichlorodifluoromethane	< 2	2
Chloromethane	< 2	2
Vinyl chloride	< 1	1
Bromomethane	< 2	2
Chloroethane	< 2	2
Trichlorofluoromethane	< 2	2
Diethyl Ether	< 2	2
Trichlorotrifluoroethane	< 2	2
Acetone	< 10	10
1,1-Dichloroethene	< 0.5	0.5
tert-Butyl Alcohol (TBA)	< 30	30
Methylene chloride	< 1	1
Carbon disulfide	< 2	2
Methyl-t-butyl ether(MTBE)	< 1	1
Ethyl-t-butyl ether(ETBE)	< 2	2
Isopropyl ether(DIPE)	< 2	2
tert-amyl methyl ether(TAME)	< 2	2
trans-1,2-Dichloroethene	< 1	1
1,1-Dichloroethane	< 1	1
2,2-Dichloropropane	< 1	1
cis-1,2-Dichloroethene	< 1	1
2-Butanone(MEK)	< 10	10
Bromochloromethane	< 1	1
Tetrahydrofuran(THF)	< 10	10
Chloroform	< 1	1
1,1,1-Trichloroethane	< 1	1
Carbon tetrachloride	< 1	1
1,1-Dichloropropene	< 1	1
Benzene	**32**	1
1,2-Dichloroethane	< 1	1
Trichloroethene	< 1	1
1,2-Dichloropropane	< 1	1
Dibromomethane	< 1	1
Bromodichloromethane	< 0.5	0.5
1,4-Dioxane	< 50	50
4-Methyl-2-pentanone(MIBK)	< 10	10
cis-1,3-Dichloropropene	< 0.5	0.5
Toluene	**40**	1
trans-1,3-Dichloropropene	< 0.5	0.5
1,1,2-Trichloroethane	< 1	1
2-Hexanone	< 10	10
Tetrachloroethene	< 1	1

Parameter	Result	RL
1,3-Dichloropropane	< 1	1
Dibromochloromethane	< 1	1
1,2-Dibromoethane(EDB)	< 0.5	0.5
Chlorobenzene	< 1	1
1,1,1,2-Tetrachloroethane	< 1	1
Ethylbenzene	**390**	2
mp-Xylene	**460**	1
o-Xylene	**110**	1
Styrene	< 1	1
Bromoform	< 2	2
IsoPropylbenzene	**42**	1
Bromobenzene	< 1	1
1,1,2,2-Tetrachloroethane	< 1	1
1,2,3-Trichloropropane	< 0.5	0.5
n-Propylbenzene	**82**	1
2-Chlorotoluene	< 1	1
4-Chlorotoluene	< 1	1
1,3,5-Trimethylbenzene	**150**	1
tert-Butylbenzene	< 1	1
1,2,4-Trimethylbenzene	**220**	1
sec-Butylbenzene	**6.3**	1
1,3-Dichlorobenzene	< 1	1
p-Isopropyltoluene	**5.2**	1
1,4-Dichlorobenzene	< 1	1
1,2-Dichlorobenzene	< 1	1
n-Butylbenzene	< 1	1
1,2-Dibromo-3-chloropropane	< 2	2
1,3,5-Trichlorobenzene	< 1	1
1,2,4-Trichlorobenzene	< 1	1
Hexachlorobutadiene	< 0.5	0.5
Naphthalene	**160**	2
1,2,3-Trichlorobenzene	< 0.5	0.5
4-Bromofluorobenzene (surr)	**107 %R**	
1,2-Dichlorobenzene-d4 (surr)	**105 %R**	
Toluene-d8 (surr)	**98 %R**	
1,2-Dichloroethane-d4 (surr)	**97 %R**	

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**

Client Designation: **FMR. MR. MIKE'S**

Sample ID: MW 1

Lab Sample ID:	208752.06	**Dilution Factor:**	1
Matrix:	aqueous	**Units:**	ug/L
Date Sampled:	4/7/20	**Date of Analysis:**	4/13/20
Date Received:	4/8/20	**Method:**	8260C
Date of Extraction/Prep:		**Analyst:**	JAK

Parameter	Result	RL	Parameter	Result	RL
Dichlorodifluoromethane	< 2	2	1,3-Dichloropropane	< 1	1
Chloromethane	< 2	2	Dibromochloromethane	< 1	1
Vinyl chloride	< 1	1	1,2-Dibromoethane(EDB)	< 0.5	0.5
Bromomethane	< 2	2	Chlorobenzene	< 1	1
Chloroethane	< 2	2	1,1,1,2-Tetrachloroethane	< 1	1
Trichlorofluoromethane	< 2	2	Ethylbenzene	< 1	1
Diethyl Ether	< 2	2	mp-Xylene	< 1	1
Trichlorotrifluoroethane	< 2	2	o-Xylene	< 1	1
Acetone	< 10	10	Styrene	< 1	1
1,1-Dichloroethene	< 0.5	0.5	Bromoform	< 2	2
tert-Butyl Alcohol (TBA)	< 30	30	IsoPropylbenzene	< 1	1
Methylene chloride	< 1	1	Bromobenzene	< 1	1
Carbon disulfide	< 2	2	1,1,2,2-Tetrachloroethane	< 1	1
Methyl-t-butyl ether(MTBE)	< 1	1	1,2,3-Trichloropropane	< 0.5	0.5
Ethyl-t-butyl ether(ETBE)	< 2	2	n-Propylbenzene	< 1	1
Isopropyl ether(DIPE)	< 2	2	2-Chlorotoluene	< 1	1
tert-amyl methyl ether(TAME)	< 2	2	4-Chlorotoluene	< 1	1
trans-1,2-Dichloroethene	< 1	1	1,3,5-Trimethylbenzene	< 1	1
1,1-Dichloroethane	< 1	1	tert-Butylbenzene	< 1	1
2,2-Dichloropropane	< 1	1	1,2,4-Trimethylbenzene	< 1	1
cis-1,2-Dichloroethene	< 1	1	sec-Butylbenzene	< 1	1
2-Butanone(MEK)	< 10	10	1,3-Dichlorobenzene	< 1	1
Bromochloromethane	< 1	1	p-Isopropyltoluene	< 1	1
Tetrahydrofuran(THF)	< 10	10	1,4-Dichlorobenzene	< 1	1
Chloroform	< 1	1	1,2-Dichlorobenzene	< 1	1
1,1,1-Trichloroethane	< 1	1	n-Butylbenzene	< 1	1
Carbon tetrachloride	< 1	1	1,2-Dibromo-3-chloropropane	< 2	2
1,1-Dichloropropene	< 1	1	1,3,5-Trichlorobenzene	< 1	1
Benzene	< 1	1	1,2,4-Trichlorobenzene	< 1	1
1,2-Dichloroethane	< 1	1	Hexachlorobutadiene	< 0.5	0.5
Trichloroethene	< 1	1	Naphthalene	< 2	2
1,2-Dichloropropane	< 1	1	1,2,3-Trichlorobenzene	< 0.5	0.5
Dibromomethane	< 1	1	4-Bromofluorobenzene (surr)	**99 %R**	
Bromodichloromethane	< 0.5	0.5	1,2-Dichlorobenzene-d4 (surr)	**98 %R**	
1,4-Dioxane	< 50	50	Toluene-d8 (surr)	**100 %R**	
4-Methyl-2-pentanone(MIBK)	< 10	10	1,2-Dichloroethane-d4 (surr)	**105 %R**	
cis-1,3-Dichloropropene	< 0.5	0.5			
Toluene	< 1	1			
trans-1,3-Dichloropropene	< 0.5	0.5			
1,1,2-Trichloroethane	< 1	1			
2-Hexanone	< 10	10			
Tetrachloroethene	< 1	1			

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**

Client Designation: **FMR. MR. MIKE'S**

Sample ID: MW 6

Lab Sample ID:	208752.07	**Dilution Factor:**	1
Matrix:	aqueous	**Units:**	ug/L
Date Sampled:	4/7/20	**Date of Analysis:**	4/11/20
Date Received:	4/8/20	**Method:**	8260C
Date of Extraction/Prep:		**Analyst:**	JAK

Parameter	Result	RL	Parameter	Result	RL
Dichlorodifluoromethane	< 2	2	1,3-Dichloropropane	< 1	1
Chloromethane	< 2	2	Dibromochloromethane	< 1	1
Vinyl chloride	< 1	1	1,2-Dibromoethane(EDB)	< 0.5	0.5
Bromomethane	< 2	2	Chlorobenzene	< 1	1
Chloroethane	< 2	2	1,1,1,2-Tetrachloroethane	< 1	1
Trichlorofluoromethane	< 2	2	Ethylbenzene	< 1	1
Diethyl Ether	< 2	2	mp-Xylene	< 1	1
Trichlorotrifluoroethane	< 2	2	o-Xylene	< 1	1
Acetone	< 10	10	Styrene	< 1	1
1,1-Dichloroethene	< 0.5	0.5	Bromoform	< 2	2
tert-Butyl Alcohol (TBA)	< 30	30	IsoPropylbenzene	< 1	1
Methylene chloride	< 1	1	Bromobenzene	< 1	1
Carbon disulfide	< 2	2	1,1,2,2-Tetrachloroethane	< 1	1
Methyl-t-butyl ether(MTBE)	< 1	1	1,2,3-Trichloropropane	< 0.5	0.5
Ethyl-t-butyl ether(ETBE)	< 2	2	n-Propylbenzene	< 1	1
Isopropyl ether(DIPE)	< 2	2	2-Chlorotoluene	< 1	1
tert-amyl methyl ether(TAME)	< 2	2	4-Chlorotoluene	< 1	1
trans-1,2-Dichloroethene	< 1	1	1,3,5-Trimethylbenzene	< 1	1
1,1-Dichloroethane	< 1	1	tert-Butylbenzene	< 1	1
2,2-Dichloropropane	< 1	1	1,2,4-Trimethylbenzene	< 1	1
cis-1,2-Dichloroethene	< 1	1	sec-Butylbenzene	< 1	1
2-Butanone(MEK)	< 10	10	1,3-Dichlorobenzene	< 1	1
Bromochloromethane	< 1	1	p-Isopropyltoluene	< 1	1
Tetrahydrofuran(THF)	< 10	10	1,4-Dichlorobenzene	< 1	1
Chloroform	< 1	1	1,2-Dichlorobenzene	< 1	1
1,1,1-Trichloroethane	< 1	1	n-Butylbenzene	< 1	1
Carbon tetrachloride	< 1	1	1,2-Dibromo-3-chloropropane	< 2	2
1,1-Dichloropropene	< 1	1	1,3,5-Trichlorobenzene	< 1	1
Benzene	< 1	1	1,2,4-Trichlorobenzene	< 1	1
1,2-Dichloroethane	< 1	1	Hexachlorobutadiene	< 0.5	0.5
Trichloroethene	< 1	1	Naphthalene	< 2	2
1,2-Dichloropropane	< 1	1	1,2,3-Trichlorobenzene	< 0.5	0.5
Dibromomethane	< 1	1	4-Bromofluorobenzene (surr)	**98 %R**	
Bromodichloromethane	< 0.5	0.5	1,2-Dichlorobenzene-d4 (surr)	**98 %R**	
1,4-Dioxane	< 50	50	Toluene-d8 (surr)	**99 %R**	
4-Methyl-2-pentanone(MIBK)	< 10	10	1,2-Dichloroethane-d4 (surr)	**104 %R**	
cis-1,3-Dichloropropene	< 0.5	0.5			
Toluene	< 1	1			
trans-1,3-Dichloropropene	< 0.5	0.5			
1,1,2-Trichloroethane	< 1	1			
2-Hexanone	< 10	10			
Tetrachloroethene	< 1	1			

Eastern Analytical, Inc. www.easternanalytical.com | 800.287.0525 | customerservice@easternanalytical.com

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**

Client Designation: **FMR. MR. MIKE'S**

Sample Notes/Deviations:

2,2-Dichloropropane exhibited recovery outside acceptance limits in the Quality Control sample(s). The analyte(s) were not detected in the sample(s).

Deviations from the Report:

MW 101 Parameter: Ethylbenzene Date of Analysis: 4/13/2020 Dilution Factor: 2

Eastern Analytical, Inc. www.easternanalytical.com | 800.287.0525 | customerservice@easternanalytical.com

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**
Client Designation: **FMR. MR. MIKE'S**

Client Sample ID:	MW 2
Lab Sample ID:	208752.01
Matrix:	aqueous
Date Sampled:	4/7/20
Date Received:	4/8/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed		Date Prepared	Method	Analyst
Naphthalene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
2-Methylnaphthalene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
1-Methylnaphthalene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Acenaphthylene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Acenaphthene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Fluorene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Phenanthrene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Anthracene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Pyrene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Benzo[a]anthracene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Chrysene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Benzo[b]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Benzo[k]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Benzo[a]pyrene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Dibenz[a,h]anthracene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
Benzo[g,h,i]perylene	< 0.1	0.1	1	ug/L	4/9/20	14:22	4/9/20	8270D	JMR
p-Terphenyl-D14 (surr)	**75 %R**			%	4/9/20	14:22	4/9/20	8270D	JMR

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**
Client Designation: **FMR. MR. MIKE'S**

Client Sample ID:	MW 5
Lab Sample ID:	208752.02
Matrix:	aqueous
Date Sampled:	4/7/20
Date Received:	4/8/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed		Date Prepared	Method	Analyst
Naphthalene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
2-Methylnaphthalene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
1-Methylnaphthalene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Acenaphthylene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Acenaphthene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Fluorene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Phenanthrene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Anthracene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Pyrene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Benzo[a]anthracene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Chrysene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Benzo[b]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Benzo[k]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Benzo[a]pyrene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Dibenz[a,h]anthracene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
Benzo[g,h,i]perylene	< 0.1	0.1	1	ug/L	4/9/20	14:44	4/9/20	8270D	JMR
p-Terphenyl-D14 (surr)	**72 %R**			%	4/9/20	14:44	4/9/20	8270D	JMR

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**
Client Designation: **FMR. MR. MIKE'S**

Client Sample ID:	MW 4
Lab Sample ID:	208752.03
Matrix:	aqueous
Date Sampled:	4/7/20
Date Received:	4/8/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed		Date Prepared	Method	Analyst
Naphthalene	**0.36**	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
2-Methylnaphthalene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
1-Methylnaphthalene	**0.19**	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Acenaphthylene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Acenaphthene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Fluorene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Phenanthrene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Anthracene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Pyrene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Benzo[a]anthracene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Chrysene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Benzo[b]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Benzo[k]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Benzo[a]pyrene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Dibenz[a,h]anthracene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
Benzo[g,h,i]perylene	< 0.1	0.1	1	ug/L	4/9/20	15:07	4/9/20	8270D	JMR
p-Terphenyl-D14 (surr)	**68 %R**			%	4/9/20	15:07	4/9/20	8270D	JMR

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**
Client Designation: **FMR: MR. MIKE'S**

Client Sample ID:	MW 102
Lab Sample ID:	208752.04
Matrix:	aqueous
Date Sampled:	4/7/20
Date Received:	4/8/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed		Date Prepared	Method	Analyst
Naphthalene	**16**	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
2-Methylnaphthalene	**2.6**	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
1-Methylnaphthalene	**2.1**	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Acenaphthylene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Acenaphthene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Fluorene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Phenanthrene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Anthracene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Pyrene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Benzo[a]anthracene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Chrysene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Benzo[b]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Benzo[k]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Benzo[a]pyrene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Dibenz[a,h]anthracene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
Benzo[g,h,i]perylene	< 0.1	0.1	1	ug/L	4/9/20	15:30	4/9/20	8270D	JMR
p-Terphenyl-D14 (surr)	**74 %R**			%	4/9/20	15:30	4/9/20	8270D	JMR

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**
Client Designation: **FMR. MR. MIKE'S**

Client Sample ID:	MW 101
Lab Sample ID:	208752.05
Matrix:	aqueous
Date Sampled:	4/7/20
Date Received:	4/8/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed		Date Prepared	Method	Analyst
Naphthalene	**25**	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
2-Methylnaphthalene	**7.1**	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
1-Methylnaphthalene	**6.1**	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Acenaphthylene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Acenaphthene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Fluorene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Phenanthrene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Anthracene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Pyrene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Benzo[a]anthracene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Chrysene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Benzo[b]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Benzo[k]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Benzo[a]pyrene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Dibenz[a,h]anthracene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
Benzo[g,h,i]perylene	< 0.1	0.1	1	ug/L	4/9/20	15:52	4/9/20	8270D	JMR
p-Terphenyl-D14 (surr)	**76 %R**			%	4/9/20	15:52	4/9/20	8270D	JMR

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**
Client Designation: **FMR. MR. MIKE'S**

Client Sample ID:	MW 1
Lab Sample ID:	208752.06
Matrix:	aqueous
Date Sampled:	4/7/20
Date Received:	4/8/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed		Date Prepared	Method	Analyst
Naphthalene	**0.22**	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
2-Methylnaphthalene	**0.11**	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
1-Methylnaphthalene	**0.11**	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Acenaphthylene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Acenaphthene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Fluorene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Phenanthrene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Anthracene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Pyrene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Benzo[a]anthracene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Chrysene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Benzo[b]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Benzo[k]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Benzo[a]pyrene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Dibenz[a,h]anthracene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
Benzo[g,h,i]perylene	< 0.1	0.1	1	ug/L	4/9/20	16:15	4/9/20	8270D	JMR
p-Terphenyl-D14 (surr)	**71 %R**			%	4/9/20	16:15	4/9/20	8270D	JMR

LABORATORY REPORT

EAI ID#: **208752**

Client: **Harper Environmental Associates, Inc.**
Client Designation: **FMR. MR. MIKE'S**

Client Sample ID:	MW 6
Lab Sample ID:	208752.07
Matrix:	aqueous
Date Sampled:	4/7/20
Date Received:	4/8/20

	Result	RL	Dilution Factor	Units	Date / Time Analyzed		Date Prepared	Method	Analyst
Naphthalene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
2-Methylnaphthalene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
1-Methylnaphthalene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Acenaphthylene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Acenaphthene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Fluorene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Phenanthrene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Anthracene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Pyrene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Benzo[a]anthracene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Chrysene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Benzo[b]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Benzo[k]fluoranthene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Benzo[a]pyrene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Indeno[1,2,3-cd]pyrene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Dibenz[a,h]anthracene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
Benzo[g,h,i]perylene	< 0.1	0.1	1	ug/L	4/9/20	16:37	4/9/20	8270D	JMR
p-Terphenyl-D14 (surr)	**70 %R**			%	4/9/20	16:37	4/9/20	8270D	JMR

Page 1 of 1

EMR. MR. MIKE'S

CHAIN-OF-CUSTODY RECORD

208752

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC: 524.2 524.2 BTEX 524.2 NTBE ONLY	VOC: 8260B 624 VTICs	VOC: 1, 4 DIOXANE	VOC: 8021B BTEX HALOS	VOC: 8015B GRO MAVPH	SVOC: 8270D 625 SVTICs EDB DBCP	SVOC: ABN A BN (PAH)	SVOC: TPHB100 L1 L2	SVOC: 8015B DRO MAEPH	SVOC: PEST 608 PCB 608 PEST 8081A PCB 8082	SVOC: OIL & GREASE 1664 TPH 1664	TCLP: TCLP 1311 ABN METALS VOC PEST HERB	METALS: DISSOLVED METALS (LIST BELOW)	METALS: TOTAL METALS (LIST BELOW)	INORGANICS: TS TSS TDS SPEC. CON.	INORGANICS: BR CL F SO_4 NO_2 NO_3 NO_2NO_2	INORGANICS: BOD CBOD T. ALK.	INORGANICS: TKN NH_3 T. PHOS. O. PHOS.	INORGANICS: pH T. RES. CHLORINE	INORGANICS: COD PHENOLS TOC DOC	INORGANICS: TOTAL CYANIDE TOTAL SULFIDE	INORGANICS: REACTIVE CYANIDE REACTIVE SULFIDE FLASHPOINT IGNITABILITY	MICRO: TOTAL COLIFORM E. COLI FECAL COLIFORM	MICRO: ENTEROCOCCI HETEROTROPHIC PLATE COUNT	OTHER: 1 L AMBER	OTHER: VOAs (HCl)	OTHER	# OF CONTAINERS	NOTES MEOH VIAL #
MW 2	APRIL 7, 2020	GW	G		X				X																			1	3			
MW5					X				X																			1	3			
MW4					X				X																			1	3			
MW 102					X				X																			1	3			
MW 101					X				X																			1	3			
[redacted]																																
MW 1					X				X																			1	3			
MW6					X				X																			1	3			

MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER; WW-WASTE WATER

PRESERVATIVE: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

PROJECT MANAGER: CLIFF HARPER
COMPANY: HARPER ENV.
ADDRESS: 1811 HALE HOLLOW RD
CITY: B'WATER CRNS **STATE:** VT **ZIP:** 05035
PHONE: 802 672 6112 **EXT.:**
FAX:
E-MAIL: CLIFF@HARPERENV.COM
SITE NAME: EMR. MR. MIKE'S
PROJECT #:
STATE: (NH) MA ME VT **OTHER:**
REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR GWP, OIL FUND, BROWNFIELD OR OTHER: MMDEC
QUOTE #: **PO #:**

DATE NEEDED: 4/20/20
QA/QC STD
REPORTING LEVEL A B C OR PRESUMPTIVE CERTAINTY

REPORTING OPTIONS
PRELIMS: YES OR NO
IF YES: FAX OR PDF

ELECTRONIC OPTIONS
NO FAX E-MAIL PDF EQUIS

TEMP. 3.7 °C
ICE? (YES) NO

SAMPLER(S): C. HARPER

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
Cliff Harper	4/8/20	1100	

METALS: 8 RCRA 13 PP FE, MN PB, CU
OTHER METALS:
SAMPLES FIELD FILTERED? ☐ YES ☐ NO
NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

SITE HISTORY:
SUSPECTED CONTAMINATION:
FIELD READINGS:

PHOENIX
Environmental Laboratories, Inc.

Monday, May 13, 2019

Attn: Mr. Cliff Harper
Harper Environmental Associates
1811 Hale Hollow Rd
Bridgewater Corners, VT 05035

Project ID: ANTRIM (MR. MIKE)
SDG ID: GCD06792
Sample ID#s: CD06792 - CD06794

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

May 13, 2019

SDG I.D.: GCD06792

8260 Volatile Organics:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GW criteria, these compounds are analyzed by GC/ECD method 504 or 8011 when this criteria needs to be met.

1,4-dioxane:
1,4-dioxane does not meet GW criteria, this compound is analyzed by GC/MS method 522 or 8270SIM when this criteria needs to be met.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

May 13, 2019

SDG I.D.: GCD06792

Project ID: ANTRIM (MR. MIKE)

Client Id	Lab Id	Matrix
MW-01	CD06792	GROUND WATER
MW-101	CD06793	GROUND WATER
RW-1R2	CD06794	GROUND WATER

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2019

FOR: Attn: Mr. Cliff Harper
Harper Environmental Associates
1811 Hale Hollow Rd
Bridgewater Corners, VT 05035

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/30/19	9:00
Location Code:	HARPER	Received by:	LB	05/03/19	12:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD06792
Phoenix ID: CD06792

Project ID: ANTRIM (MR. MIKE)
Client ID: MW-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/07/19	HM	SW8260C	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,1-Dichloroethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,2,3-Trichloropropane	ND	0.50	ug/L	1	05/07/19	HM	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	05/07/19	HM	SW8260C	
1,2-Dibromoethane	ND	0.25	ug/L	1	05/07/19	HM	SW8260C	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,2-Dichloroethane	ND	0.60	ug/L	1	05/07/19	HM	SW8260C	
1,2-Dichloropropane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,3-Dichloropropane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
2,2-Dichloropropane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
2-Chlorotoluene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
2-Hexanone	ND	5.0	ug/L	1	05/07/19	HM	SW8260C	
2-Isopropyltoluene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	1
4-Chlorotoluene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/07/19	HM	SW8260C	

Project ID: ANTRIM (MR. MIKE)
Client ID: MW-01

Phoenix I.D.: CD06792

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	25	ug/L	1	05/07/19	HM	SW8260C	
Acrylonitrile	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Benzene	ND	0.70	ug/L	1	05/07/19	HM	SW8260C	
Bromobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Bromochloromethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Bromodichloromethane	ND	0.50	ug/L	1	05/07/19	HM	SW8260C	
Bromoform	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Bromomethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Carbon Disulfide	ND	5.0	ug/L	1	05/07/19	HM	SW8260C	
Carbon tetrachloride	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Chlorobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Chloroethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Chloroform	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Chloromethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/19	HM	SW8260C	
Dibromochloromethane	ND	0.50	ug/L	1	05/07/19	HM	SW8260C	
Dibromomethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Ethylbenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Hexachlorobutadiene	ND	0.40	ug/L	1	05/07/19	HM	SW8260C	
Isopropylbenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
m&p-Xylene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Methyl ethyl ketone	ND	5.0	ug/L	1	05/07/19	HM	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Methylene chloride	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Naphthalene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
n-Butylbenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
n-Propylbenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
o-Xylene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
p-Isopropyltoluene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
sec-Butylbenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Styrene	ND	5.0	ug/L	1	05/07/19	HM	SW8260C	
tert-Butylbenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Tetrachloroethene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/07/19	HM	SW8260C	1
Toluene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Total Xylenes	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/19	HM	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/07/19	HM	SW8260C	
Trichloroethene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Trichlorofluoromethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
Vinyl chloride	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100		%	1	05/07/19	HM	70 - 130 %	
% Bromofluorobenzene	90		%	1	05/07/19	HM	70 - 130 %	
% Dibromofluoromethane	114		%	1	05/07/19	HM	70 - 130 %	

Ver 1

Project ID: ANTRIM (MR. MIKE)
Client ID: MW-01

Phoenix I.D.: CD06792

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	92		%	1	05/07/19	HM	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	40	ug/l	1	05/07/19	HM	SW8260C
Oxygenated Volatiles							
Di-ethyl ether	ND	5.0	ug/L	1	05/05/19	MH	SW8260C
Di-isopropyl ether	ND	1.0	ug/L	1	05/05/19	MH	SW8260C
Ethanol	ND	200	ug/L	1	05/05/19	MH	SW8260C
ethyl tert-butyl ether	ND	1.0	ug/L	1	05/05/19	MH	SW8260C
methyl tert-amyl ether (TAME)	ND	1.0	ug/L	1	05/05/19	MH	SW8260C
tert-amyl alcohol	ND	25	ug/L	1	05/05/19	MH	SW8260C
tert-butyl alcohol	ND	25	ug/L	1	05/05/19	MH	SW8260C
QA/QC Surrogates							
% Bromofluorobenzene	105		%	1	05/05/19	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
May 13, 2019
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2019

FOR: Attn: Mr. Cliff Harper
Harper Environmental Associates
1811 Hale Hollow Rd
Bridgewater Corners, VT 05035

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/30/19	9:30
Location Code:	HARPER	Received by:	LB	05/03/19	12:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD06792
Phoenix ID: CD06793

Project ID: ANTRIM (MR. MIKE)
Client ID: MW-101

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/07/19	HM	SW8260C	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,1-Dichloroethane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,2,3-Trichloropropane	ND	0.50	ug/L	1	05/07/19	HM	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,2,4-Trimethylbenzene	690	50	ug/L	50	05/08/19	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	05/07/19	HM	SW8260C	
1,2-Dibromoethane	ND	0.25	ug/L	1	05/07/19	HM	SW8260C	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,2-Dichloroethane	ND	0.60	ug/L	1	05/07/19	HM	SW8260C	
1,2-Dichloropropane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,3,5-Trimethylbenzene	180	10	ug/L	10	05/08/19	HM	SW8260C	
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,3-Dichloropropane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
2,2-Dichloropropane	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
2-Chlorotoluene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
2-Hexanone	ND	5.0	ug/L	1	05/07/19	HM	SW8260C	
2-Isopropyltoluene	1.0	1.0	ug/L	1	05/07/19	HM	SW8260C	1
4-Chlorotoluene	ND	1.0	ug/L	1	05/07/19	HM	SW8260C	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/07/19	HM	SW8260C	

Project ID: ANTRIM (MR. MIKE)
Client ID: MW-101

Phoenix I.D.: CD06793

Parameter	Result		RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Acetone	46	S	40	ug/L	10	05/08/19	HM	SW8260C	
Acrylonitrile	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Benzene	26		0.70	ug/L	1	05/07/19	HM	SW8260C	
Bromobenzene	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Bromochloromethane	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Bromodichloromethane	ND		0.50	ug/L	1	05/07/19	HM	SW8260C	
Bromoform	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Bromomethane	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Carbon Disulfide	ND		5.0	ug/L	1	05/07/19	HM	SW8260C	
Carbon tetrachloride	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Chlorobenzene	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Chloroethane	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Chloroform	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Chloromethane	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
cis-1,2-Dichloroethene	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	ug/L	1	05/07/19	HM	SW8260C	
Dibromochloromethane	ND		0.50	ug/L	1	05/07/19	HM	SW8260C	
Dibromomethane	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Dichlorodifluoromethane	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Ethylbenzene	620		50	ug/L	50	05/08/19	HM	SW8260C	
Hexachlorobutadiene	ND		0.40	ug/L	1	05/07/19	HM	SW8260C	
Isopropylbenzene	38		10	ug/L	10	05/08/19	HM	SW8260C	
m&p-Xylene	860		50	ug/L	50	05/08/19	HM	SW8260C	
Methyl ethyl ketone	ND		5.0	ug/L	1	05/07/19	HM	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Methylene chloride	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Naphthalene	140		10	ug/L	10	05/08/19	HM	SW8260C	
n-Butylbenzene	7.1		1.0	ug/L	1	05/07/19	HM	SW8260C	
n-Propylbenzene	88		10	ug/L	10	05/08/19	HM	SW8260C	
o-Xylene	340		50	ug/L	50	05/08/19	HM	SW8260C	
p-Isopropyltoluene	3.1		1.0	ug/L	1	05/07/19	HM	SW8260C	
sec-Butylbenzene	4.9		1.0	ug/L	1	05/07/19	HM	SW8260C	
Styrene	ND		5.0	ug/L	1	05/07/19	HM	SW8260C	
tert-Butylbenzene	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Tetrachloroethene	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Tetrahydrofuran (THF)	ND		2.5	ug/L	1	05/07/19	HM	SW8260C	1
Toluene	74		10	ug/L	10	05/08/19	HM	SW8260C	
Total Xylenes	1200		50	ug/L	50	05/08/19	HM	SW8260C	
trans-1,2-Dichloroethene	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	ug/L	1	05/07/19	HM	SW8260C	
trans-1,4-dichloro-2-butene	ND		5.0	ug/L	1	05/07/19	HM	SW8260C	
Trichloroethene	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Trichlorofluoromethane	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Trichlorotrifluoroethane	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
Vinyl chloride	ND		1.0	ug/L	1	05/07/19	HM	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	95			%	1	05/07/19	HM	70 - 130 %	
% Bromofluorobenzene	105			%	1	05/07/19	HM	70 - 130 %	
% Dibromofluoromethane	107			%	1	05/07/19	HM	70 - 130 %	

Ver 1

Project ID: ANTRIM (MR. MIKE)
Client ID: MW-101

Phoenix I.D.: CD06793

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	93		%	1	05/07/19	HM	70 - 130 %
% 1,2-dichlorobenzene-d4 (10x)	100		%	10	05/08/19	HM	70 - 130 %
% Bromofluorobenzene (10x)	97		%	10	05/08/19	HM	70 - 130 %
% Dibromofluoromethane (10x)	114		%	10	05/08/19	HM	70 - 130 %
% Toluene-d8 (10x)	94		%	10	05/08/19	HM	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/08/19	HM	70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	05/08/19	HM	70 - 130 %
% Dibromofluoromethane (50x)	118		%	50	05/08/19	HM	70 - 130 %
% Toluene-d8 (50x)	91		%	50	05/08/19	HM	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	40	ug/l	1	05/07/19	HM	SW8260C
Oxygenated Volatiles							
Di-ethyl ether	ND	5.0	ug/L	1	05/05/19	MH	SW8260C
Di-isopropyl ether	ND	1.0	ug/L	1	05/05/19	MH	SW8260C
Ethanol	ND	200	ug/L	1	05/05/19	MH	SW8260C
ethyl tert-butyl ether	ND	1.0	ug/L	1	05/05/19	MH	SW8260C
methyl tert-amyl ether (TAME)	ND	1.0	ug/L	1	05/05/19	MH	SW8260C
tert-amyl alcohol	220	25	ug/L	1	05/05/19	MH	SW8260C
tert-butyl alcohol	ND	25	ug/L	1	05/05/19	MH	SW8260C
QA/QC Surrogates							
% Bromofluorobenzene	113		%	1	05/05/19	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
May 13, 2019
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2019

FOR: Attn: Mr. Cliff Harper
Harper Environmental Associates
1811 Hale Hollow Rd
Bridgewater Corners, VT 05035

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/30/19	10:00
Location Code:	HARPER	Received by:	LB	05/03/19	12:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD06792
Phoenix ID: CD06794

Project ID: ANTRIM (MR. MIKE)
Client ID: RW-1R2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/08/19	HM	SW8260C	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,1-Dichloroethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,2,3-Trichloropropane	ND	0.50	ug/L	1	05/08/19	HM	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	05/08/19	HM	SW8260C	
1,2-Dibromoethane	ND	0.25	ug/L	1	05/08/19	HM	SW8260C	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,2-Dichloroethane	ND	0.60	ug/L	1	05/08/19	HM	SW8260C	
1,2-Dichloropropane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,3-Dichloropropane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
2,2-Dichloropropane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
2-Chlorotoluene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
2-Hexanone	ND	5.0	ug/L	1	05/08/19	HM	SW8260C	
2-Isopropyltoluene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	1
4-Chlorotoluene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/08/19	HM	SW8260C	

Project ID: ANTRIM (MR. MIKE)
Client ID: RW-1R2

Phoenix I.D.: CD06794

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	25	ug/L	1	05/08/19	HM	SW8260C	
Acrylonitrile	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Benzene	ND	0.70	ug/L	1	05/08/19	HM	SW8260C	
Bromobenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Bromochloromethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Bromodichloromethane	ND	0.50	ug/L	1	05/08/19	HM	SW8260C	
Bromoform	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Bromomethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Carbon Disulfide	ND	5.0	ug/L	1	05/08/19	HM	SW8260C	
Carbon tetrachloride	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Chlorobenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Chloroethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Chloroform	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Chloromethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/08/19	HM	SW8260C	
Dibromochloromethane	ND	0.50	ug/L	1	05/08/19	HM	SW8260C	
Dibromomethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Ethylbenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Hexachlorobutadiene	ND	0.40	ug/L	1	05/08/19	HM	SW8260C	
Isopropylbenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
m&p-Xylene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Methyl ethyl ketone	ND	5.0	ug/L	1	05/08/19	HM	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Methylene chloride	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Naphthalene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
n-Butylbenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
n-Propylbenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
o-Xylene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
p-Isopropyltoluene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
sec-Butylbenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Styrene	ND	5.0	ug/L	1	05/08/19	HM	SW8260C	
tert-Butylbenzene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Tetrachloroethene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/08/19	HM	SW8260C	1
Toluene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Total Xylenes	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/08/19	HM	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/08/19	HM	SW8260C	
Trichloroethene	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Trichlorofluoromethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
Vinyl chloride	ND	1.0	ug/L	1	05/08/19	HM	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	98		%	1	05/08/19	HM	70 - 130 %	
% Bromofluorobenzene	89		%	1	05/08/19	HM	70 - 130 %	
% Dibromofluoromethane	102		%	1	05/08/19	HM	70 - 130 %	

Ver 1

Project ID: ANTRIM (MR. MIKE)
Client ID: RW-1R2

Phoenix I.D.: CD06794

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	89		%	1	05/08/19	HM	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	40	ug/l	1	05/08/19	HM	SW8260C
Oxygenated Volatiles							
Di-ethyl ether	ND	5.0	ug/L	1	05/05/19	MH	SW8260C
Di-isopropyl ether	ND	1.0	ug/L	1	05/05/19	MH	SW8260C
Ethanol	ND	200	ug/L	1	05/05/19	MH	SW8260C
ethyl tert-butyl ether	ND	1.0	ug/L	1	05/05/19	MH	SW8260C
methyl tert-amyl ether (TAME)	ND	1.0	ug/L	1	05/05/19	MH	SW8260C
tert-amyl alcohol	ND	25	ug/L	1	05/05/19	MH	SW8260C
tert-butyl alcohol	ND	25	ug/L	1	05/05/19	MH	SW8260C
QA/QC Surrogates							
% Bromofluorobenzene	102		%	1	05/05/19	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
May 13, 2019
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 13, 2019

QA/QC Data

SDG I.D.: GCD06792

QA/QC Batch 478008 (ug/L), QC Sample No: CD06792 (CD06792, CD06793)

Volatiles - Ground Water

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1,2-Tetrachloroethane	ND	1.0	96	102	6.1				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	103	106	2.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	100	102	2.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	102	95	7.1				70 - 130	30
1,1-Dichloroethane	ND	1.0	104	101	2.9				70 - 130	30
1,1-Dichloroethene	ND	1.0	103	100	3.0				70 - 130	30
1,1-Dichloropropene	ND	1.0	107	104	2.8				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	104	102	1.9				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	97	95	2.1				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	93	99	6.3				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	94	98	4.2				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	102	97	5.0				70 - 130	30
1,2-Dibromoethane	ND	1.0	98	101	3.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	94	100	6.2				70 - 130	30
1,2-Dichloroethane	ND	1.0	106	100	5.8				70 - 130	30
1,2-Dichloropropane	ND	1.0	104	99	4.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	101	102	1.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	99	103	4.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	93	96	3.2				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	100	100	0.0				70 - 130	30
1,4-dioxane	ND	100	93	99	6.3				70 - 130	30
2,2-Dichloropropane	ND	1.0	105	109	3.7				70 - 130	30
2-Chlorotoluene	ND	1.0	104	101	2.9				70 - 130	30
2-Hexanone	ND	5.0	94	93	1.1				70 - 130	30
2-Isopropyltoluene	ND	1.0	102	105	2.9				70 - 130	30
4-Chlorotoluene	ND	1.0	97	97	0.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	99	94	5.2				70 - 130	30
Acetone	ND	5.0	104	95	9.0				70 - 130	30
Acrylonitrile	ND	5.0	104	97	7.0				70 - 130	30
Benzene	ND	0.70	97	95	2.1				70 - 130	30
Bromobenzene	ND	1.0	98	97	1.0				70 - 130	30
Bromochloromethane	ND	1.0	102	101	1.0				70 - 130	30
Bromodichloromethane	ND	0.50	105	106	0.9				70 - 130	30
Bromoform	ND	1.0	98	99	1.0				70 - 130	30
Bromomethane	ND	1.0	92	104	12.2				70 - 130	30
Carbon Disulfide	ND	1.0	107	110	2.8				70 - 130	30
Carbon tetrachloride	ND	1.0	107	106	0.9				70 - 130	30
Chlorobenzene	ND	1.0	97	101	4.0				70 - 130	30
Chloroethane	ND	1.0	104	106	1.9				70 - 130	30
Chloroform	ND	1.0	100	101	1.0				70 - 130	30
Chloromethane	ND	1.0	96	94	2.1				70 - 130	30

QA/QC Data

SDG I.D.: GCD06792

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,2-Dichloroethene	ND	1.0	104	106	1.9				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	104	105	1.0				70 - 130	30
Dibromochloromethane	ND	0.50	106	103	2.9				70 - 130	30
Dibromomethane	ND	1.0	100	99	1.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	118	115	2.6				70 - 130	30
Ethylbenzene	ND	1.0	92	96	4.3				70 - 130	30
Hexachlorobutadiene	ND	0.40	96	102	6.1				70 - 130	30
Isopropylbenzene	ND	1.0	101	103	2.0				70 - 130	30
m&p-Xylene	ND	1.0	89	94	5.5				70 - 130	30
Methyl ethyl ketone	ND	5.0	109	99	9.6				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	97	101	4.0				70 - 130	30
Methylene chloride	ND	1.0	105	99	5.9				70 - 130	30
Naphthalene	ND	1.0	99	99	0.0				70 - 130	30
n-Butylbenzene	ND	1.0	105	105	0.0				70 - 130	30
n-Propylbenzene	ND	1.0	100	100	0.0				70 - 130	30
o-Xylene	ND	1.0	93	101	8.2				70 - 130	30
p-Isopropyltoluene	ND	1.0	103	104	1.0				70 - 130	30
sec-Butylbenzene	ND	1.0	104	109	4.7				70 - 130	30
Styrene	ND	1.0	102	106	3.8				70 - 130	30
tert-Butylbenzene	ND	1.0	99	102	3.0				70 - 130	30
Tetrachloroethene	ND	1.0	100	98	2.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	103	94	9.1				70 - 130	30
Toluene	ND	1.0	98	96	2.1				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	109	106	2.8				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	102	100	2.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	112	111	0.9				70 - 130	30
Trichloroethene	ND	1.0	99	96	3.1				70 - 130	30
Trichlorofluoromethane	ND	1.0	92	92	0.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	100	101	1.0				70 - 130	30
Vinyl chloride	ND	1.0	103	105	1.9				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	102	102	0.0				70 - 130	30
% Bromofluorobenzene	91	%	102	103	1.0				70 - 130	30
% Dibromofluoromethane	108	%	117	106	9.9				70 - 130	30
% Toluene-d8	99	%	102	102	0.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 478015 (ug/L), QC Sample No: CD07881 (CD06793 (10X, 50X) , CD06794)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	99	109	9.6				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	106	98	7.8				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	97	105	7.9				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	94	94	0.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	102	100	2.0				70 - 130	30
1,1-Dichloroethene	ND	1.0	104	99	4.9				70 - 130	30
1,1-Dichloropropene	ND	1.0	101	102	1.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	102	101	1.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	89	92	3.3				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	94	100	6.2				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	93	94	1.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	97	105	7.9				70 - 130	30
1,2-Dibromoethane	ND	1.0	99	103	4.0				70 - 130	30

QA/QC Data

SDG I.D.: GCD06792

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2-Dichlorobenzene	ND	1.0	95	96	1.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	100	101	1.0				70 - 130	30
1,2-Dichloropropane	ND	1.0	107	97	9.8				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	97	100	3.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	101	102	1.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	93	101	8.2				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	94	99	5.2				70 - 130	30
1,4-dioxane	ND	100	88	89	1.1				70 - 130	30
2,2-Dichloropropane	ND	1.0	99	95	4.1				70 - 130	30
2-Chlorotoluene	ND	1.0	99	100	1.0				70 - 130	30
2-Hexanone	ND	5.0	91	102	11.4				70 - 130	30
2-Isopropyltoluene	ND	1.0	100	103	3.0				70 - 130	30
4-Chlorotoluene	ND	1.0	97	97	0.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	93	96	3.2				70 - 130	30
Acetone	ND	5.0	95	89	6.5				70 - 130	30
Acrylonitrile	ND	5.0	93	95	2.1				70 - 130	30
Benzene	ND	0.70	93	92	1.1				70 - 130	30
Bromobenzene	ND	1.0	92	99	7.3				70 - 130	30
Bromochloromethane	ND	1.0	104	100	3.9				70 - 130	30
Bromodichloromethane	ND	0.50	106	99	6.8				70 - 130	30
Bromoform	ND	1.0	97	106	8.9				70 - 130	30
Bromomethane	ND	1.0	74	85	13.8				70 - 130	30
Carbon Disulfide	ND	1.0	108	102	5.7				70 - 130	30
Carbon tetrachloride	ND	1.0	106	105	0.9				70 - 130	30
Chlorobenzene	ND	1.0	98	103	5.0				70 - 130	30
Chloroethane	ND	1.0	98	100	2.0				70 - 130	30
Chloroform	ND	1.0	100	98	2.0				70 - 130	30
Chloromethane	ND	1.0	90	85	5.7				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	106	98	7.8				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	87	99	12.9				70 - 130	30
Dibromochloromethane	ND	0.50	106	110	3.7				70 - 130	30
Dibromomethane	ND	1.0	105	99	5.9				70 - 130	30
Dichlorodifluoromethane	ND	1.0	107	105	1.9				70 - 130	30
Ethylbenzene	ND	1.0	99	100	1.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	97	99	2.0				70 - 130	30
Isopropylbenzene	ND	1.0	102	109	6.6				70 - 130	30
m&p-Xylene	ND	1.0	92	97	5.3				70 - 130	30
Methyl ethyl ketone	ND	5.0	98	99	1.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	96	97	1.0				70 - 130	30
Methylene chloride	ND	1.0	97	97	0.0				70 - 130	30
Naphthalene	ND	1.0	98	103	5.0				70 - 130	30
n-Butylbenzene	ND	1.0	104	105	1.0				70 - 130	30
n-Propylbenzene	ND	1.0	96	104	8.0				70 - 130	30
o-Xylene	ND	1.0	95	101	6.1				70 - 130	30
p-Isopropyltoluene	ND	1.0	101	102	1.0				70 - 130	30
sec-Butylbenzene	ND	1.0	104	104	0.0				70 - 130	30
Styrene	ND	1.0	102	106	3.8				70 - 130	30
tert-Butylbenzene	ND	1.0	96	102	6.1				70 - 130	30
Tetrachloroethene	ND	1.0	96	97	1.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	98	100	2.0				70 - 130	30
Toluene	ND	1.0	87	93	6.7				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	107	101	5.8				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	94	95	1.1				70 - 130	30

QA/QC Data

SDG I.D.: GCD06792

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,4-dichloro-2-butene	ND	5.0	104	111	6.5				70 - 130	30	
Trichloroethene	ND	1.0	97	95	2.1				70 - 130	30	
Trichlorofluoromethane	ND	1.0	91	91	0.0				70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	101	97	4.0				70 - 130	30	
Vinyl chloride	ND	1.0	101	93	8.2				70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	99	102	3.0				70 - 130	30	
% Bromofluorobenzene	96	%	102	104	1.9				70 - 130	30	
% Dibromofluoromethane	114	%	108	100	7.7				70 - 130	30	
% Toluene-d8	97	%	95	103	8.1				70 - 130	30	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 477755 (ug/L), QC Sample No: CD06792 (CD06792, CD06793, CD06794)

Oxygenates - Ground Water

Di-isopropyl ether	ND	1.0	93	92	1.1	120	87	31.9	70 - 130	20	r
Ethanol	ND	200	82	95	14.7	121	90	29.4	70 - 130	20	r
Ethyl ether	ND	10	80	83	3.7	115	82	33.5	70 - 130	20	r
Ethyl tert-butyl ether	ND	1.0	92	94	2.2	125	89	33.6	70 - 130	20	r
tert-amyl alcohol	ND	25	70	75	6.9	98	71	32.0	70 - 130	20	r
tert-amyl methyl ether	ND	10	93	93	0.0	124	88	34.0	70 - 130	20	r
tert-butyl alcohol	ND	25	77	82	6.3	109	80	30.7	70 - 130	20	r
% Bromofluorobenzene	106	%	103	106	2.9	104	106	1.9	70 - 130	20	

Comment:

A blank MS/MSD was analyzed with this batch.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 13, 2019

Monday, May 13, 2019

Criteria: NH: GW

State: NH

Sample Criteria Exceedances Report

GCD06792 - HARPER

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CD06792	$8260GWR	1,2-Dibromoethane	NH / Env-OR600 / Ground Water Criteria	ND	0.25	0.05	0.05	ug/L
CD06792	$8260GWR	1,2-Dibromo-3-chloropropane	NH / Env-OR600 / Ground Water Criteria	ND	0.50	0.2	0.2	ug/L
CD06792	$DIOX_WMR	1,4-dioxane	NH / Env-OR600 / Ground Water Criteria	ND	40	3	3	ug/l
CD06793	$8260GWR	Benzene	NH / Env-OR600 / Ground Water Criteria	26	0.70	5	5	ug/L
CD06793	$8260GWR	1,2-Dibromoethane	NH / Env-OR600 / Ground Water Criteria	ND	0.25	0.05	0.05	ug/L
CD06793	$8260GWR	1,2,4-Trimethylbenzene	NH / Env-OR600 / Ground Water Criteria	690	50	330	330	ug/L
CD06793	$8260GWR	1,2-Dibromo-3-chloropropane	NH / Env-OR600 / Ground Water Criteria	ND	0.50	0.2	0.2	ug/L
CD06793	$8260GWR	Naphthalene	NH / Env-OR600 / Ground Water Criteria	140	10	20	20	ug/L
CD06793	$DIOX_WMR	1,4-dioxane	NH / Env-OR600 / Ground Water Criteria	ND	40	3	3	ug/l
CD06794	$8260GWR	1,2-Dibromoethane	NH / Env-OR600 / Ground Water Criteria	ND	0.25	0.05	0.05	ug/L
CD06794	$8260GWR	1,2-Dibromo-3-chloropropane	NH / Env-OR600 / Ground Water Criteria	ND	0.50	0.2	0.2	ug/L
CD06794	$DIOX_WMR	1,4-dioxane	NH / Env-OR600 / Ground Water Criteria	ND	40	3	3	ug/l

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

May 13, 2019 SDG I.D.: GCD06792

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

VOA Narration

CHEM15 05/07/19-1: CD06792, CD06793

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 16% (15%), Bromodichloromethane 17% (15%), Bromoform 21% (15%), cis-1,3-Dichloropropene 20% (15%), Dibromochloromethane 21% (15%), trans-1,3-Dichloropropene 19% (15%), trans-1,4-dichloro-2-butene 20% (15%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM15 05/07/19-2: CD06793, CD06794

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 16% (15%), Bromodichloromethane 17% (15%), Bromoform 21% (15%), cis-1,3-Dichloropropene 20% (15%), Dibromochloromethane 21% (15%), trans-1,3-Dichloropropene 19% (15%), trans-1,4-dichloro-2-butene 20% (15%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Bromomethane 40%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐
Temp 24° C Pg of

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:
☐ Fax #:
☑ Email: cliff@harperenv.com

Customer: HARPER ENV. ASSOC.
Address: ALLENTOWN, VT

Project: ANTRIM (MR. MIKE)
Report to: HEA
Invoice to:
Phone #:
Fax #:
Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 4/30/19

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request: VOCs - NH FULL LIST

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs - NH FULL LIST	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( )oz ( )oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ]250ml [ ]500ml [ ]1000ml	PL H2SO4 [ ]250ml [ ]250ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria (as is)	Bacteria (w/thio)
06792	MW-1	GW	4/30	9a	X			3							
06793	MW-101	↓	↓	930	↓			3							
06794	RW-1R2	↓	↓	1000	↓			3							

Relinquished by:	Accepted by:	Date:	Time:
C. Sterritt UPS	[signature]	5/3/19	12:44

Comments, Special Requirements or Regulations:

VOCs - NH FULL LIST

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

State where samples were collected: NH

Data Format
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 26, 2017

Steve Low
ECS - Manchester, NH
150 Zachary Road
Manchester, NH 03109

Project Location: Antrim, NH
Client Job Number:
Project Number: 02-210747.00
Laboratory Work Order Number: 17D0162

Enclosed are results of analyses for samples received by the laboratory on April 5, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 7

17D0162-01 7

17D0162-02 9

17D0162-03 11

17D0162-04 13

Sample Preparation Information 15

QC Data 16

Volatile Organic Compounds by GC/MS 16

B173989 16

B174083 20

Flag/Qualifier Summary 26

Certifications 27

Chain of Custody/Sample Receipt 29

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

ECS - Manchester, NH
150 Zachary Road
Manchester, NH 03109
ATTN: Steve Low

REPORT DATE: 4/26/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 02-210747.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17D0162

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

PROJECT LOCATION: Antrim, NH

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	17D0162-01	Ground Water		SW-846 8260C	
MW-3	17D0162-02	Ground Water		SW-846 8260C	
RW-1R2	17D0162-03	Ground Water		SW-846 8260C	
Trip Blank	17D0162-04	Trip Blank Water		SW-846 8260C	

con-test® ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

REVISED REPORT - Methyl Cyclohexane removed from VOC compound list.

con-test® ANALYTICAL LABORATORY

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

SW-846 8260C

Qualifications:

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.

Analyte & Samples(s) Qualified:

1,1-Dichloroethane
B173989-BS1, B173989-BSD1

1,2-Dichloropropane
B173989-BS1, B173989-BSD1

1,4-Dioxane
B173989-BS1, B173989-BSD1

Acrylonitrile
B173989-BS1, B173989-BSD1

Benzene
B173989-BS1, B173989-BSD1

Carbon Disulfide
B173989-BS1, B173989-BSD1

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.

Analyte & Samples(s) Qualified:

Methyl Acetate
17D0162-01[MW-1], B174083-BLK1, B174083-BS1, B174083-BSD1

L-06

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 high side.

Analyte & Samples(s) Qualified:

Carbon Disulfide
17D0162-01[MW-1], B174083-BLK1, B174083-BS1, B174083-BSD1

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.

Analyte & Samples(s) Qualified:

n-Butylbenzene
B173989-BSD1

V-16

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
17D0162-01[MW-1], B174083-BLK1, B174083-BS1, B174083-BSD1

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.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethan
B173989-BS1, B173989-BSD1

1,4-Dioxane
B174083-BS1, B174083-BSD1

2-Butanone (MEK)
B173989-BS1, B173989-BSD1, B174083-BS1, B174083-BSD1

2-Hexanone (MBK)
B174083-BS1, B174083-BSD1

Acetone
B174083-BS1, B174083-BSD1

Acrylonitrile
B173989-BS1, B173989-BSD1

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

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.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Antrim, NH
Sample Description:
Work Order: 17D0162
Date Received: 4/5/2017
Field Sample #: MW-1
Sampled: 4/3/2017 12:25
Sample ID: 17D0162-01
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Benzene	1.7	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Carbon Disulfide	ND	4.0	µg/L	1	L-06	SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Antrim, NH
Sample Description:
Work Order: 17D0162
Date Received: 4/5/2017
Field Sample #: MW-1
Sampled: 4/3/2017 12:25
Sample ID: 17D0162-01
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Ethylbenzene	4.0	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,2,4-Trimethylbenzene	2.4	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
1,3,5-Trimethylbenzene	2.1	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
m+p Xylene	9.5	2.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD
o-Xylene	5.2	1.0	µg/L	1		SW-846 8260C	4/10/17	4/10/17 16:35	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.8	70-130		4/10/17 16:35
Toluene-d8	101	70-130		4/10/17 16:35
4-Bromofluorobenzene	96.3	70-130		4/10/17 16:35

con-test® ANALYTICAL LABORATORY

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

Project Location: Antrim, NH
Sample Description:
Work Order: 17D0162
Date Received: 4/5/2017
Field Sample #: MW-3
Sampled: 4/3/2017 12:50
Sample ID: 17D0162-02
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Antrim, NH
Sample Description:
Work Order: 17D0162
Date Received: 4/5/2017
Field Sample #: MW-3
Sampled: 4/3/2017 12:50
Sample ID: 17D0162-02
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 18:53	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		4/7/17 18:53
Toluene-d8	101	70-130		4/7/17 18:53
4-Bromofluorobenzene	95.4	70-130		4/7/17 18:53

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Antrim, NH
Sample Description:
Work Order: 17D0162
Date Received: 4/5/2017
Field Sample #: RW-1R2
Sampled: 4/3/2017 12:50
Sample ID: 17D0162-03
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Antrim, NH
Sample Description:
Work Order: 17D0162
Date Received: 4/5/2017
Field Sample #: RW-1R2
Sampled: 4/3/2017 12:50
Sample ID: 17D0162-03
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 19:24	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		4/7/17 19:24
Toluene-d8	103	70-130		4/7/17 19:24
4-Bromofluorobenzene	93.9	70-130		4/7/17 19:24

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Antrim, NH
Sample Description:
Work Order: 17D0162
Date Received: 4/5/2017
Field Sample #: Trip Blank
Sampled: 4/3/2017 00:00
Sample ID: 17D0162-04
Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD

con-test® ANALYTICAL LABORATORY

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

Project Location: Antrim, NH
Sample Description:
Work Order: 17D0162

Date Received: 4/5/2017

Field Sample #: Trip Blank
Sampled: 4/3/2017 00:00

Sample ID: 17D0162-04

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/7/17	4/7/17 15:49	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		4/7/17 15:49
Toluene-d8	101	70-130		4/7/17 15:49
4-Bromofluorobenzene	94.4	70-130		4/7/17 15:49

con-test® ANALYTICAL LABORATORY

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

Sample Extraction Data

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17D0162-02 [MW-3]	B173989	5	5.00	04/07/17
17D0162-03 [RW-1R2]	B173989	5	5.00	04/07/17
17D0162-04 [Trip Blank]	B173989	5	5.00	04/07/17

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17D0162-01 [MW-1]	B174083	5	5.00	04/10/17

con-test® ANALYTICAL LABORATORY

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

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 B173989 - SW-846 5030B										
Blank (B173989-BLK1)				Prepared & Analyzed: 04/07/17						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	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	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	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	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	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	5.0	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							
trans-1,4-Dichloro-2-butene	ND	2.0	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	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	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 Acetate	ND	1.0	µg/L							

con-test® ANALYTICAL LABORATORY

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

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 B173989 - SW-846 5030B												
Blank (B173989-BLK1)				Prepared & Analyzed: 04/07/17								
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	10	µg/L									
Toluene	ND	1.0	µg/L									
1,2,3-Trichlorobenzene	ND	5.0	µg/L									
1,2,4-Trichlorobenzene	ND	1.0	µg/L									
1,3,5-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									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	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	*26.6*		µg/L	25.0		106		70-130				
Surrogate: Toluene-d8	*27.7*		µg/L	25.0		111		70-130				
Surrogate: 4-Bromofluorobenzene	*23.7*		µg/L	25.0		95.0		70-130				
LCS (B173989-BS1)				Prepared & Analyzed: 04/07/17								
Acetone	92.6	50	µg/L	100		92.6		70-160				†
Acrylonitrile	13.5	5.0	µg/L	10.0		**135**	*	70-130			L-02, V-20	
tert-Amyl Methyl Ether (TAME)	12.4	0.50	µg/L	10.0		124		70-130				
Benzene	13.5	1.0	µg/L	10.0		**135**	*	70-130			L-02	
Bromobenzene	10.8	1.0	µg/L	10.0		108		70-130				
Bromochloromethane	11.6	1.0	µg/L	10.0		116		70-130				
Bromodichloromethane	11.2	0.50	µg/L	10.0		112		70-130				
Bromoform	9.41	1.0	µg/L	10.0		94.1		70-130				
Bromomethane	4.58	2.0	µg/L	10.0		45.8		40-160				†
2-Butanone (MEK)	119	20	µg/L	100		119		40-160			V-20	†
tert-Butyl Alcohol (TBA)	130	20	µg/L	100		130		40-160				†
n-Butylbenzene	12.8	1.0	µg/L	10.0		128		70-130				
sec-Butylbenzene	12.2	1.0	µg/L	10.0		122		70-130				
tert-Butylbenzene	11.5	1.0	µg/L	10.0		115		70-130				
tert-Butyl Ethyl Ether (TBEE)	12.5	0.50	µg/L	10.0		125		70-130				
Carbon Disulfide	16.0	4.0	µg/L	10.0		**160**	*	70-130			L-02	
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104		70-130				
Chlorobenzene	9.91	1.0	µg/L	10.0		99.1		70-130				
Chlorodibromomethane	10.5	0.50	µg/L	10.0		105		70-130				
Chloroethane	10.9	2.0	µg/L	10.0		109		70-130				
Chloroform	11.8	2.0	µg/L	10.0		118		70-130				
Chloromethane	8.72	2.0	µg/L	10.0		87.2		40-160				†

con-test® ANALYTICAL LABORATORY

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

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 B173989 - SW-846 5030B												
LCS (B173989-BS1)				Prepared & Analyzed: 04/07/17								
2-Chlorotoluene	10.7	1.0	µg/L	10.0		107		70-130				
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	11.1	5.0	µg/L	10.0		111		70-130				
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109		70-130				
Dibromomethane	10.9	1.0	µg/L	10.0		109		70-130				
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110		70-130				
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.0		112		70-130				
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.0		109		70-130				
trans-1,4-Dichloro-2-butene	8.67	2.0	µg/L	10.0		86.7		70-130				
Dichlorodifluoromethane (Freon 12)	5.57	2.0	µg/L	10.0		55.7		40-160				†
1,1-Dichloroethane	13.7	1.0	µg/L	10.0		**137**	*	70-130			L-02	
1,2-Dichloroethane	9.93	1.0	µg/L	10.0		99.3		70-130				
1,1-Dichloroethylene	9.72	1.0	µg/L	10.0		97.2		70-130				
cis-1,2-Dichloroethylene	12.7	1.0	µg/L	10.0		127		70-130				
trans-1,2-Dichloroethylene	12.7	1.0	µg/L	10.0		127		70-130				
1,2-Dichloropropane	13.2	1.0	µg/L	10.0		**132**	*	70-130			L-02	
1,3-Dichloropropane	11.7	0.50	µg/L	10.0		117		70-130				
2,2-Dichloropropane	12.2	1.0	µg/L	10.0		122		40-130				†
1,1-Dichloropropene	12.6	2.0	µg/L	10.0		126		70-130				
cis-1,3-Dichloropropene	11.7	0.50	µg/L	10.0		117		70-130				
trans-1,3-Dichloropropene	12.0	0.50	µg/L	10.0		120		70-130				
Diethyl Ether	10.9	2.0	µg/L	10.0		109		70-130				
Diisopropyl Ether (DIPE)	11.9	0.50	µg/L	10.0		119		70-130				
1,4-Dioxane	138	50	µg/L	100		**138**	*	40-130			L-02	†
Ethylbenzene	10.1	1.0	µg/L	10.0		101		70-130				
Hexachlorobutadiene	11.3	0.60	µg/L	10.0		113		70-130				
2-Hexanone (MBK)	111	10	µg/L	100		111		70-160				†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108		70-130				
p-Isopropyltoluene (p-Cymene)	11.9	1.0	µg/L	10.0		119		70-130				
Methyl Acetate	7.70	1.0	µg/L	10.0		77.0		70-130				
Methyl tert-Butyl Ether (MTBE)	12.0	1.0	µg/L	10.0		120		70-130				
Methylene Chloride	11.7	5.0	µg/L	10.0		117		70-130				
4-Methyl-2-pentanone (MIBK)	111	10	µg/L	100		111		70-160				†
Naphthalene	10.1	2.0	µg/L	10.0		101		40-130				†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106		70-130				
Styrene	10.6	1.0	µg/L	10.0		106		70-130				
1,1,1,2-Tetrachloroethane	9.44	1.0	µg/L	10.0		94.4		70-130				
1,1,2,2-Tetrachloroethane	11.5	0.50	µg/L	10.0		115		70-130				
Tetrachloroethylene	10.3	1.0	µg/L	10.0		103		70-130				
Tetrahydrofuran	13.0	10	µg/L	10.0		130		70-130				
Toluene	11.9	1.0	µg/L	10.0		119		70-130				
1,2,3-Trichlorobenzene	10.7	5.0	µg/L	10.0		107		70-130				
1,2,4-Trichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130				
1,3,5-Trichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130				
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0		108		70-130				
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112		70-130				
Trichloroethylene	11.4	1.0	µg/L	10.0		114		70-130				
Trichlorofluoromethane (Freon 11)	7.47	2.0	µg/L	10.0		74.7		70-130				
1,2,3-Trichloropropane	9.95	2.0	µg/L	10.0		99.5		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.87	1.0	µg/L	10.0		98.7		70-130			V-20	
1,2,4-Trimethylbenzene	11.7	1.0	µg/L	10.0		117		70-130				

con-test® ANALYTICAL LABORATORY

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

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 B173989 - SW-846 5030B												
LCS (B173989-BS1)				Prepared & Analyzed: 04/07/17								
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.0		104		70-130				
Vinyl Chloride	9.04	2.0	µg/L	10.0		90.4		40-160				†
m+p Xylene	20.9	2.0	µg/L	20.0		104		70-130				
o-Xylene	10.0	1.0	µg/L	10.0		100		70-130				
Surrogate: 1,2-Dichloroethane-d4	*25.0*		µg/L	25.0		99.9		70-130				
Surrogate: Toluene-d8	*26.4*		µg/L	25.0		106		70-130				
Surrogate: 4-Bromofluorobenzene	*24.3*		µg/L	25.0		97.3		70-130				
LCS Dup (B173989-BSD1)				Prepared & Analyzed: 04/07/17								
Acetone	93.6	50	µg/L	100		93.6		70-160	1.11	25		†
Acrylonitrile	13.1	5.0	µg/L	10.0		**131**	*	70-130	2.94	25	L-02, V-20	
tert-Amyl Methyl Ether (TAME)	12.5	0.50	µg/L	10.0		125		70-130	0.321	25		
Benzene	13.5	1.0	µg/L	10.0		**135**	*	70-130	0.00	25	L-02	
Bromobenzene	11.0	1.0	µg/L	10.0		110		70-130	1.93	25		
Bromochloromethane	11.8	1.0	µg/L	10.0		118		70-130	1.62	25		
Bromodichloromethane	11.0	0.50	µg/L	10.0		110		70-130	1.72	25		
Bromoform	9.57	1.0	µg/L	10.0		95.7		70-130	1.69	25		
Bromomethane	5.66	2.0	µg/L	10.0		56.6		40-160	21.1	25		†
2-Butanone (MEK)	117	20	µg/L	100		117		40-160	2.13	25	V-20	†
tert-Butyl Alcohol (TBA)	123	20	µg/L	100		123		40-160	5.41	25		†
n-Butylbenzene	13.2	1.0	µg/L	10.0		**132**	*	70-130	2.99	25	L-07	
sec-Butylbenzene	12.4	1.0	µg/L	10.0		124		70-130	1.30	25		
tert-Butylbenzene	11.7	1.0	µg/L	10.0		117		70-130	1.81	25		
tert-Butyl Ethyl Ether (TBEE)	12.4	0.50	µg/L	10.0		124		70-130	0.161	25		
Carbon Disulfide	15.7	4.0	µg/L	10.0		**157**	*	70-130	1.45	25	L-02	
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102		70-130	1.93	25		
Chlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	2.00	25		
Chlorodibromomethane	10.7	0.50	µg/L	10.0		107		70-130	1.61	25		
Chloroethane	10.5	2.0	µg/L	10.0		105		70-130	3.83	25		
Chloroform	11.9	2.0	µg/L	10.0		119		70-130	0.759	25		
Chloromethane	9.22	2.0	µg/L	10.0		92.2		40-160	5.57	25		†
2-Chlorotoluene	10.7	1.0	µg/L	10.0		107		70-130	0.375	25		
4-Chlorotoluene	10.5	1.0	µg/L	10.0		105		70-130	1.04	25		
1,2-Dibromo-3-chloropropane (DBCP)	10.5	5.0	µg/L	10.0		105		70-130	5.36	25		
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.0		110		70-130	0.547	25		
Dibromomethane	11.4	1.0	µg/L	10.0		114		70-130	4.58	25		
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.0		112		70-130	1.89	25		
1,3-Dichlorobenzene	11.5	1.0	µg/L	10.0		115		70-130	2.20	25		
1,4-Dichlorobenzene	11.1	1.0	µg/L	10.0		111		70-130	1.92	25		
trans-1,4-Dichloro-2-butene	9.45	2.0	µg/L	10.0		94.5		70-130	8.61	25		
Dichlorodifluoromethane (Freon 12)	5.62	2.0	µg/L	10.0		56.2		40-160	0.894	25		†
1,1-Dichloroethane	14.1	1.0	µg/L	10.0		**141**	*	70-130	2.30	25	L-02	
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100		70-130	1.20	25		
1,1-Dichloroethylene	9.69	1.0	µg/L	10.0		96.9		70-130	0.309	25		
cis-1,2-Dichloroethylene	12.8	1.0	µg/L	10.0		128		70-130	0.314	25		
trans-1,2-Dichloroethylene	12.6	1.0	µg/L	10.0		126		70-130	0.158	25		
1,2-Dichloropropane	13.3	1.0	µg/L	10.0		**133**	*	70-130	0.831	25	L-02	
1,3-Dichloropropane	11.6	0.50	µg/L	10.0		116		70-130	0.947	25		
2,2-Dichloropropane	12.2	1.0	µg/L	10.0		122		40-130	0.00	25		†
1,1-Dichloropropene	12.6	2.0	µg/L	10.0		126		70-130	0.0791	25		
cis-1,3-Dichloropropene	11.8	0.50	µg/L	10.0		118		70-130	0.426	25		
trans-1,3-Dichloropropene	11.9	0.50	µg/L	10.0		119		70-130	0.419	25		

con-test® ANALYTICAL LABORATORY

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

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 B173989 - SW-846 5030B												
LCS Dup (B173989-BSD1)				Prepared & Analyzed: 04/07/17								
Diethyl Ether	10.8	2.0	µg/L	10.0		108		70-130	1.10	25		
Diisopropyl Ether (DIPE)	12.1	0.50	µg/L	10.0		121		70-130	1.83	25		
1,4-Dioxane	131	50	µg/L	100		**131**	*	40-130	5.81	50	L-02	† ‡
Ethylbenzene	10.3	1.0	µg/L	10.0		103		70-130	1.87	25		
Hexachlorobutadiene	11.4	0.60	µg/L	10.0		114		70-130	0.616	25		
2-Hexanone (MBK)	108	10	µg/L	100		108		70-160	2.74	25		†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.0		110		70-130	1.75	25		
p-Isopropyltoluene (p-Cymene)	12.1	1.0	µg/L	10.0		121		70-130	1.25	25		
Methyl Acetate	7.78	1.0	µg/L	10.0		77.8		70-130	1.03	25		
Methyl tert-Butyl Ether (MTBE)	12.3	1.0	µg/L	10.0		123		70-130	2.79	25		
Methylene Chloride	11.8	5.0	µg/L	10.0		118		70-130	0.682	25		
4-Methyl-2-pentanone (MIBK)	110	10	µg/L	100		110		70-160	0.805	25		†
Naphthalene	10.1	2.0	µg/L	10.0		101		40-130	0.198	25		†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108		70-130	1.68	25		
Styrene	10.8	1.0	µg/L	10.0		108		70-130	1.31	25		
1,1,1,2-Tetrachloroethane	9.62	1.0	µg/L	10.0		96.2		70-130	1.89	25		
1,1,2,2-Tetrachloroethane	11.6	0.50	µg/L	10.0		116		70-130	1.21	25		
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104		70-130	0.677	25		
Tetrahydrofuran	12.7	10	µg/L	10.0		127		70-130	2.42	25		
Toluene	12.0	1.0	µg/L	10.0		120		70-130	0.672	25		
1,2,3-Trichlorobenzene	10.7	5.0	µg/L	10.0		107		70-130	0.468	25		
1,2,4-Trichlorobenzene	10.7	1.0	µg/L	10.0		107		70-130	0.376	25		
1,3,5-Trichlorobenzene	10.4	1.0	µg/L	10.0		104		70-130	1.06	25		
1,1,1-Trichloroethane	10.9	1.0	µg/L	10.0		109		70-130	0.922	25		
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114		70-130	1.59	25		
Trichloroethylene	11.6	1.0	µg/L	10.0		116		70-130	1.83	25		
Trichlorofluoromethane (Freon 11)	7.62	2.0	µg/L	10.0		76.2		70-130	1.99	25		
1,2,3-Trichloropropane	9.85	2.0	µg/L	10.0		98.5		70-130	1.01	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.95	1.0	µg/L	10.0		99.5		70-130	0.807	25	V-20	
1,2,4-Trimethylbenzene	11.8	1.0	µg/L	10.0		118		70-130	1.19	25		
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0		105		70-130	1.24	25		
Vinyl Chloride	8.91	2.0	µg/L	10.0		89.1		40-160	1.45	25		†
m+p Xylene	21.0	2.0	µg/L	20.0		105		70-130	0.859	25		
o-Xylene	10.2	1.0	µg/L	10.0		102		70-130	1.68	25		
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101		70-130				
Surrogate: Toluene-d8	*27.0*		µg/L	25.0		108		70-130				
Surrogate: 4-Bromofluorobenzene	*24.3*		µg/L	25.0		97.0		70-130				
Batch B174083 - SW-846 5030B												
Blank (B174083-BLK1)				Prepared & Analyzed: 04/10/17								
Acetone	ND	50	µg/L									
Acrylonitrile	ND	5.0	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	0.50	µg/L									
Bromoform	ND	1.0	µg/L									
Bromomethane	ND	2.0	µg/L									
2-Butanone (MEK)	ND	20	µg/L									
tert-Butyl Alcohol (TBA)	ND	20	µg/L									

con-test® ANALYTICAL LABORATORY

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

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 B174083 - SW-846 5030B										
Blank (B174083-BLK1)				Prepared & Analyzed: 04/10/17						
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	4.0	µg/L							L-06
Carbon Tetrachloride	ND	5.0	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	5.0	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							
trans-1,4-Dichloro-2-butene	ND	2.0	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	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	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	0.60	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 Acetate	ND	1.0	µg/L							L-04
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	10	µg/L							
Toluene	ND	1.0	µg/L							

con-test® ANALYTICAL LABORATORY

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

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 B174083 - SW-846 5030B												
Blank (B174083-BLK1)				Prepared & Analyzed: 04/10/17								
1,2,3-Trichlorobenzene	ND	5.0	µg/L									
1,2,4-Trichlorobenzene	ND	1.0	µg/L									
1,3,5-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									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	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	*25.4*		µg/L	25.0		101		70-130				
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130				
Surrogate: 4-Bromofluorobenzene	*23.9*		µg/L	25.0		95.5		70-130				
LCS (B174083-BS1)				Prepared & Analyzed: 04/10/17								
Acetone	85.8	50	µg/L	100		85.8		70-160			V-20	†
Acrylonitrile	10.6	5.0	µg/L	10.0		106		70-130				
tert-Amyl Methyl Ether (TAME)	10.7	0.50	µg/L	10.0		107		70-130				
Benzene	11.2	1.0	µg/L	10.0		112		70-130				
Bromobenzene	10.1	1.0	µg/L	10.0		101		70-130				
Bromochloromethane	11.9	1.0	µg/L	10.0		119		70-130				
Bromodichloromethane	10.5	0.50	µg/L	10.0		105		70-130				
Bromoform	10.2	1.0	µg/L	10.0		102		70-130				
Bromomethane	4.78	2.0	µg/L	10.0		47.8		40-160				†
2-Butanone (MEK)	98.5	20	µg/L	100		98.5		40-160			V-20	†
tert-Butyl Alcohol (TBA)	111	20	µg/L	100		111		40-160				†
n-Butylbenzene	11.3	1.0	µg/L	10.0		113		70-130				
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110		70-130				
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105		70-130				
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	µg/L	10.0		109		70-130				
Carbon Disulfide	14.7	4.0	µg/L	10.0		**147**	*	70-130			L-06	
Carbon Tetrachloride	10.7	5.0	µg/L	10.0		107		70-130				
Chlorobenzene	9.97	1.0	µg/L	10.0		99.7		70-130				
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106		70-130				
Chloroethane	10.4	2.0	µg/L	10.0		104		70-130				
Chloroform	10.8	2.0	µg/L	10.0		108		70-130				
Chloromethane	8.71	2.0	µg/L	10.0		87.1		40-160				†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102		70-130				
4-Chlorotoluene	10.0	1.0	µg/L	10.0		100		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.27	5.0	µg/L	10.0		92.7		70-130				
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103		70-130				
Dibromomethane	10.6	1.0	µg/L	10.0		106		70-130				
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104		70-130				
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
trans-1,4-Dichloro-2-butene	9.10	2.0	µg/L	10.0		91.0		70-130				
Dichlorodifluoromethane (Freon 12)	6.91	2.0	µg/L	10.0		69.1		40-160				†
1,1-Dichloroethane	12.1	1.0	µg/L	10.0		121		70-130				

con-test® ANALYTICAL LABORATORY

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

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 B174083 - SW-846 5030B												
LCS (B174083-BS1)				Prepared & Analyzed: 04/10/17								
1,2-Dichloroethane	9.73	1.0	µg/L	10.0		97.3		70-130				
1,1-Dichloroethylene	10.5	1.0	µg/L	10.0		105		70-130				
cis-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112		70-130				
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109		70-130				
1,2-Dichloropropane	11.1	1.0	µg/L	10.0		111		70-130				
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102		70-130				
2,2-Dichloropropane	12.3	1.0	µg/L	10.0		123		40-130				†
1,1-Dichloropropene	11.2	2.0	µg/L	10.0		112		70-130				
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107		70-130				
trans-1,3-Dichloropropene	11.1	0.50	µg/L	10.0		111		70-130				
Diethyl Ether	11.2	2.0	µg/L	10.0		112		70-130				
Diisopropyl Ether (DIPE)	10.7	0.50	µg/L	10.0		107		70-130				
1,4-Dioxane	127	50	µg/L	100		127		40-130			V-16, V-20	†
Ethylbenzene	9.74	1.0	µg/L	10.0		97.4		70-130				
Hexachlorobutadiene	10.8	0.60	µg/L	10.0		108		70-130				
2-Hexanone (MBK)	95.0	10	µg/L	100		95.0		70-160			V-20	†
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.0		107		70-130				
p-Isopropyltoluene (p-Cymene)	10.7	1.0	µg/L	10.0		107		70-130				
Methyl Acetate	6.65	1.0	µg/L	10.0		**66.5**	*	70-130			L-04	
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108		70-130				
Methylene Chloride	10.1	5.0	µg/L	10.0		101		70-130				
4-Methyl-2-pentanone (MIBK)	97.6	10	µg/L	100		97.6		70-160				†
Naphthalene	8.68	2.0	µg/L	10.0		86.8		40-130				†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104		70-130				
Styrene	10.2	1.0	µg/L	10.0		102		70-130				
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101		70-130				
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104		70-130				
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104		70-130				
Tetrahydrofuran	10.7	10	µg/L	10.0		107		70-130				
Toluene	10.8	1.0	µg/L	10.0		108		70-130				
1,2,3-Trichlorobenzene	9.42	5.0	µg/L	10.0		94.2		70-130				
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.0		100		70-130				
1,3,5-Trichlorobenzene	10.0	1.0	µg/L	10.0		100		70-130				
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0		108		70-130				
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104		70-130				
Trichloroethylene	10.8	1.0	µg/L	10.0		108		70-130				
Trichlorofluoromethane (Freon 11)	8.48	2.0	µg/L	10.0		84.8		70-130				
1,2,3-Trichloropropane	9.32	2.0	µg/L	10.0		93.2		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.0		104		70-130				
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102		70-130				
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101		70-130				
Vinyl Chloride	8.82	2.0	µg/L	10.0		88.2		40-160				†
m+p Xylene	20.0	2.0	µg/L	20.0		100		70-130				
o-Xylene	9.69	1.0	µg/L	10.0		96.9		70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.7*		µg/L	25.0		98.8		70-130				
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130				
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		99.0		70-130				

con-test® ANALYTICAL LABORATORY

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

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 B174083 - SW-846 5030B												
LCS Dup (B174083-BSD1)				Prepared & Analyzed: 04/10/17								
Acetone	89.8	50	µg/L	100		89.8		70-160	4.54	25	V-20	†
Acrylonitrile	10.9	5.0	µg/L	10.0		109		70-130	2.71	25		
tert-Amyl Methyl Ether (TAME)	10.7	0.50	µg/L	10.0		107		70-130	0.280	25		
Benzene	11.2	1.0	µg/L	10.0		112		70-130	0.00	25		
Bromobenzene	10.0	1.0	µg/L	10.0		100		70-130	1.29	25		
Bromochloromethane	11.6	1.0	µg/L	10.0		116		70-130	3.15	25		
Bromodichloromethane	10.3	0.50	µg/L	10.0		103		70-130	1.92	25		
Bromoform	10.3	1.0	µg/L	10.0		103		70-130	0.489	25		
Bromomethane	5.90	2.0	µg/L	10.0		59.0		40-160	21.0	25		†
2-Butanone (MEK)	101	20	µg/L	100		101		40-160	2.00	25	V-20	†
tert-Butyl Alcohol (TBA)	117	20	µg/L	100		117		40-160	5.17	25		†
n-Butylbenzene	11.3	1.0	µg/L	10.0		113		70-130	0.619	25		
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110		70-130	0.272	25		
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106		70-130	0.854	25		
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	µg/L	10.0		109		70-130	0.183	25		
Carbon Disulfide	14.4	4.0	µg/L	10.0		**144**	*	70-130	2.13	25	L-06	
Carbon Tetrachloride	10.5	5.0	µg/L	10.0		105		70-130	2.46	25		
Chlorobenzene	9.92	1.0	µg/L	10.0		99.2		70-130	0.503	25		
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106		70-130	0.566	25		
Chloroethane	10.3	2.0	µg/L	10.0		103		70-130	1.26	25		
Chloroform	10.7	2.0	µg/L	10.0		107		70-130	0.745	25		
Chloromethane	8.75	2.0	µg/L	10.0		87.5		40-160	0.458	25		†
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101		70-130	1.08	25		
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101		70-130	1.09	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.35	5.0	µg/L	10.0		93.5		70-130	0.859	25		
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102		70-130	1.27	25		
Dibromomethane	10.5	1.0	µg/L	10.0		105		70-130	1.61	25		
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130	1.48	25		
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105		70-130	1.15	25		
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	0.494	25		
trans-1,4-Dichloro-2-butene	9.42	2.0	µg/L	10.0		94.2		70-130	3.46	25		
Dichlorodifluoromethane (Freon 12)	6.93	2.0	µg/L	10.0		69.3		40-160	0.289	25		†
1,1-Dichloroethane	12.0	1.0	µg/L	10.0		120		70-130	0.666	25		
1,2-Dichloroethane	9.79	1.0	µg/L	10.0		97.9		70-130	0.615	25		
1,1-Dichloroethylene	10.5	1.0	µg/L	10.0		105		70-130	0.0953	25		
cis-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111		70-130	0.986	25		
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109		70-130	0.459	25		
1,2-Dichloropropane	10.9	1.0	µg/L	10.0		109		70-130	1.92	25		
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103		70-130	0.390	25		
2,2-Dichloropropane	12.0	1.0	µg/L	10.0		120		40-130	2.48	25		†
1,1-Dichloropropene	10.9	2.0	µg/L	10.0		109		70-130	2.71	25		
cis-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106		70-130	1.04	25		
trans-1,3-Dichloropropene	11.1	0.50	µg/L	10.0		111		70-130	0.00	25		
Diethyl Ether	11.1	2.0	µg/L	10.0		111		70-130	0.985	25		
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.0		106		70-130	1.22	25		
1,4-Dioxane	129	50	µg/L	100		129		40-130	1.92	50	V-16, V-20	† ‡
Ethylbenzene	9.77	1.0	µg/L	10.0		97.7		70-130	0.308	25		
Hexachlorobutadiene	11.0	0.60	µg/L	10.0		110		70-130	1.10	25		
2-Hexanone (MBK)	96.2	10	µg/L	100		96.2		70-160	1.31	25	V-20	†
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.0		107		70-130	0.374	25		
p-Isopropyltoluene (p-Cymene)	10.9	1.0	µg/L	10.0		109		70-130	1.20	25		
Methyl Acetate	6.82	1.0	µg/L	10.0		**68.2**	*	70-130	2.52	25	L-04	

con-test® ANALYTICAL LABORATORY

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

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 B174083 - SW-846 5030B										
LCS Dup (B174083-BSD1)				Prepared & Analyzed: 04/10/17						
Methyl tert-Butyl Ether (MTBE)	10.9	1.0	µg/L	10.0		109	70-130	0.831	25	
Methylene Chloride	10.1	5.0	µg/L	10.0		101	70-130	0.594	25	
4-Methyl-2-pentanone (MIBK)	99.6	10	µg/L	100		99.6	70-160	1.98	25	†
Naphthalene	8.92	2.0	µg/L	10.0		89.2	40-130	2.73	25	†
n-Propylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.773	25	
Styrene	10.2	1.0	µg/L	10.0		102	70-130	0.293	25	
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101	70-130	0.792	25	
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107	70-130	2.27	25	
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105	70-130	0.573	25	
Tetrahydrofuran	11.4	10	µg/L	10.0		114	70-130	6.97	25	
Toluene	10.6	1.0	µg/L	10.0		106	70-130	2.15	25	
1,2,3-Trichlorobenzene	9.68	5.0	µg/L	10.0		96.8	70-130	2.72	25	
1,2,4-Trichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	0.795	25	
1,3,5-Trichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	0.398	25	
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130	2.72	25	
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	0.192	25	
Trichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	1.97	25	
Trichlorofluoromethane (Freon 11)	8.39	2.0	µg/L	10.0		83.9	70-130	1.07	25	
1,2,3-Trichloropropane	9.73	2.0	µg/L	10.0		97.3	70-130	4.30	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	1.0	µg/L	10.0		105	70-130	1.34	25	
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130	0.489	25	
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	0.495	25	
Vinyl Chloride	8.89	2.0	µg/L	10.0		88.9	40-160	0.791	25	†
m+p Xylene	19.9	2.0	µg/L	20.0		99.6	70-130	0.551	25	
o-Xylene	9.63	1.0	µg/L	10.0		96.3	70-130	0.621	25	
Surrogate: 1,2-Dichloroethane-d4	*24.9*		µg/L	25.0		99.6	70-130			
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.2	70-130			

con-test® ANALYTICAL LABORATORY

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

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
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant 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-06	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 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.
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.

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Acetone	CT,NY,ME,NH,VA
Acrylonitrile	CT,NY,ME,NH,VA
tert-Amyl Methyl Ether (TAME)	NY,ME,NH,VA
Benzene	CT,NY,ME,NH,VA
Bromobenzene	NY
Bromochloromethane	NY,ME,NH,VA
Bromodichloromethane	CT,NY,ME,NH,VA
Bromoform	CT,NY,ME,NH,VA
Bromomethane	CT,NY,ME,NH,VA
2-Butanone (MEK)	CT,NY,ME,NH,VA
tert-Butyl Alcohol (TBA)	NY,ME,NH,VA
n-Butylbenzene	NY,ME,VA
sec-Butylbenzene	NY,ME,VA
tert-Butylbenzene	NY,ME,VA
tert-Butyl Ethyl Ether (TBEE)	NY,ME,NH,VA
Carbon Disulfide	CT,NY,ME,NH,VA
Carbon Tetrachloride	CT,NY,ME,NH,VA
Chlorobenzene	CT,NY,ME,NH,VA
Chlorodibromomethane	CT,NY,ME,NH,VA
Chloroethane	CT,NY,ME,NH,VA
Chloroform	CT,NY,ME,NH,VA
Chloromethane	CT,NY,ME,NH,VA
2-Chlorotoluene	NY,ME,NH,VA
4-Chlorotoluene	NY,ME,NH,VA
Dibromomethane	NY,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,ME,NH,VA
trans-1,4-Dichloro-2-butene	NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,NH,VA
1,1-Dichloroethane	CT,NY,ME,NH,VA
1,2-Dichloroethane	CT,NY,ME,NH,VA
1,1-Dichloroethylene	CT,NY,ME,NH,VA
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NY,ME,NH,VA
1,2-Dichloropropane	CT,NY,ME,NH,VA
1,3-Dichloropropane	NY,ME,VA
2,2-Dichloropropane	NY,ME,NH,VA
1,1-Dichloropropene	NY,ME,NH,VA
cis-1,3-Dichloropropene	CT,NY,ME,NH,VA
trans-1,3-Dichloropropene	CT,NY,ME,NH,VA
Diethyl Ether	NY
Diisopropyl Ether (DIPE)	NY,ME,NH,VA
1,4-Dioxane	NY
Ethylbenzene	CT,NY,ME,NH,VA
Hexachlorobutadiene	CT,NY,ME,NH,VA
2-Hexanone (MBK)	CT,NY,ME,NH,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Isopropylbenzene (Cumene)	NY,ME,VA
p-Isopropyltoluene (p-Cymene)	CT,NY,ME,NH,VA
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	CT,NY,ME,NH,VA
Methylene Chloride	CT,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA
Naphthalene	NY,ME,NH,VA
n-Propylbenzene	CT,NY,ME,NH,VA
Styrene	CT,NY,ME,NH,VA
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA
Tetrachloroethylene	CT,NY,ME,NH,VA
Toluene	CT,NY,ME,NH,VA
1,2,3-Trichlorobenzene	NY,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA
1,1,2-Trichloroethane	CT,NY,ME,NH,VA
Trichloroethylene	CT,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA
1,2,3-Trichloropropane	NY,ME,NH,VA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA
1,2,4-Trimethylbenzene	NY,ME,VA
1,3,5-Trimethylbenzene	NY,ME,VA
Vinyl Chloride	CT,NY,ME,NH,VA
m+p Xylene	CT,ME,NH,VA
o-Xylene	CT,ME,NH,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2017
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2017
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

17D0139

Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028

Company Name: GZA
Address: 144 Elm St
Amesbury, MA 01913
Attention: Matt Steele
Project Location: 902 E 2ND ST
Sampled By: Matthew Steele

Telephone: 781-278-4805
Project #: 18.0171975.00
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: matthew.steele@gza.com
Format: ☒ PDF ☒ EXCEL ○ GIS ○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	Herbicides / Pesticides	TPH	SVOCs	VOCs	PCBs	pH (Corrosivity)	Reactivity	Conductivity	Flashpoint	MCP Metals	
											3							# of Containers
								I			H	I						** Preservation
											V							***Container Code
1	SS-201	4/3/17 1241	4/3/17 1241	X		S	U	X	X	X	X	X	X	X	X	X	X	
2	SS-202	4/3/17 1241	4/3/17 1241	X		S	U	X	X	X	X	X	X	X	X	X	X	

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar 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 _____

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:
Matt Steele	4/4/17 0800
Received by: (signature)	Date/Time:
Cooler	4/4/17 0800
Relinquished by: (signature)	Date/Time:
Cooler	
Received by: (signature)	Date/Time:
[illegible]	4-5-17 1050

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other _____
RUSH †
☐ †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 INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

[illegible] 4-5-17 1800 [illegible] 4/5/17 1800

Table of Contents

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

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: Wadleigh **RECEIVED BY:** JM **DATE:** 4/5/17

1) **Was the chain(s) of custody relinquished and signed?** **Yes** ✓ **No** ____ **No COC Incl.**
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 2.1 # 2
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 Irma Date 4/5/17 Time 1815
7) **Location where samples are stored:** Login

   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** ____ **N/A** ✓

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		16 oz amber	2
500 mL Amber		8 oz amber/clear jar	2
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below	6	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials:	# HCl ____	# Methanol 2	Time and Date Frozen:
Doc# 277	# Bisulfate 4	# DI Water ____	
Rev. 4 August 2013	# Thiosulfate ____	Unpreserved ____	

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	N/A	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	N/A	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	N/A	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Log-In Technician Initials: JM **Date/Time:** 4/5/17 1800

Doc #277 Rev. 4 August 2013

PHOENIX
Environmental Laboratories, Inc.

Friday, November 17, 2017

Attn: Mr. Joseph Spaulding
Env Products & Services
40 Hamilton Lane
Glenmont, NY 12077-4837

Project ID: A8200 NHDES
Sample ID#s: BZ39977 - BZ39982

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

November 17, 2017

SDG I.D.: GBZ39977

8260 Volatile Organics:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GW criteria, these compounds are analyzed by GC/ECD method 504 or 8011 when this criteria needs to be met.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 17, 2017

FOR: Attn: Mr. Joseph Spaulding
Env Products & Services
40 Hamilton Lane
Glenmont, NY 12077-4837

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	JS	11/09/17	12:00
Location Code:	EP&S-NY	Received by:	B	11/10/17	17:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	A26683				

Laboratory Data

SDG ID: GBZ39977
Phoenix ID: BZ39977

Project ID: A8200 NHDES
Client ID: MW-105

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semi-Volatile Extraction	Completed				11/10/17	P/D	SW3520C	
Extraction of TPH	Completed				11/10/17	P/D	SW3510C/SW3520C	
Gasoline Range Hydrocarbons								
GRO (C6-C10)	< 50	50	ug/L	1	11/14/17	CG	SW8015D	1
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	95		%	1	11/14/17	CG	70 - 130 %	
TPH by GC (Extractable Products)								
Aviation Fuel/Kerosene	< 0.49	0.49	mg/L	1	11/13/17	JRB	SW8015D DRO	1
Fuel Oil #2/ Diesel Fuel	< 0.49	0.49	mg/L	1	11/13/17	JRB	SW8015D DRO	1
Fuel Oil #4	< 0.49	0.49	mg/L	1	11/13/17	JRB	SW8015D DRO	1
Fuel Oil #6	< 0.49	0.49	mg/L	1	11/13/17	JRB	SW8015D DRO	1
Motor Oil	< 0.49	0.49	mg/L	1	11/13/17	JRB	SW8015D DRO	1
Other Oil (Cutting & Lubricating)	< 0.49	0.49	mg/L	1	11/13/17	JRB	SW8015D DRO	1
Unidentified	< 0.49	0.49	mg/L	1	11/13/17	JRB	SW8015D DRO	1
QA/QC Surrogates								
% n-Pentacosane	81		%	1	11/13/17	JRB	SW8015D DRO	
Volatiles								
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloropropene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2,3-Trichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: MW-105

Phoenix I.D.: BZ39977

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,2,4-Trichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2,4-Trimethylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dibromoethane	< 0.25	0.25	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichloroethane	< 0.60	0.60	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3,5-Trimethylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,4-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2,2-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2-Chlorotoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2-Hexanone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
2-Isopropyltoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	1
4-Chlorotoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
4-Methyl-2-pentanone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Acetone	< 25	25	ug/L	1	11/14/17	MH	SW8260C	
Acrylonitrile	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Benzene	< 0.70	0.70	ug/L	1	11/14/17	MH	SW8260C	
Bromobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromochloromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromodichloromethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
Bromoform	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromomethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Carbon Disulfide	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Carbon tetrachloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloroform	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
cis-1,3-Dichloropropene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
Dibromochloromethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
Dibromomethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Dichlorodifluoromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Ethylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Hexachlorobutadiene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
Isopropylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
m&p-Xylene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Methyl ethyl ketone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Methyl t-butyl ether (MTBE)	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Methylene chloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Naphthalene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
n-Butylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
n-Propylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
o-Xylene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
p-Isopropyltoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: MW-105

Phoenix I.D.: BZ39977

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
sec-Butylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Styrene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
tert-Butylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Tetrachloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Tetrahydrofuran (THF)	< 2.5	2.5	ug/L	1	11/14/17	MH	SW8260C	1
Toluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Total Xylenes	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
trans-1,3-Dichloropropene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
trans-1,4-dichloro-2-butene	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Trichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Trichlorofluoromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Trichlorotrifluoroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Vinyl chloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	96		%	1	11/14/17	MH	70 - 130 %	
% Bromofluorobenzene	102		%	1	11/14/17	MH	70 - 130 %	
% Dibromofluoromethane	102		%	1	11/14/17	MH	70 - 130 %	
% Toluene-d8	96		%	1	11/14/17	MH	70 - 130 %	

Semivolatiles by SIM

2-Methylnaphthalene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Acenaphthene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Acenaphthylene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Anthracene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benz(a)anthracene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(a)pyrene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Chrysene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	< 0.01	0.01	ug/L	1	11/14/17	DD	SW8270D (SIM)
Fluoranthene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Fluorene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Naphthalene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Phenanthrene	< 0.07	0.07	ug/L	1	11/14/17	DD	SW8270D (SIM)
Pyrene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	11/14/17	DD	30 - 130 %
% Nitrobenzene-d5	75		%	1	11/14/17	DD	30 - 130 %
% Terphenyl-d14	102		%	1	11/14/17	DD	30 - 130 %

Project ID: A8200 NHDES
Client ID: MW-105

Phoenix I.D.: BZ39977

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 17, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 17, 2017

FOR: Attn: Mr. Joseph Spaulding
Env Products & Services
40 Hamilton Lane
Glenmont, NY 12077-4837

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	JS	11/09/17	12:30
Location Code:	EP&S-NY	Received by:	B	11/10/17	17:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	A26683				

Laboratory Data

SDG ID: GBZ39977
Phoenix ID: BZ39978

Project ID: A8200 NHDES
Client ID: MW-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semi-Volatile Extraction	Completed				11/10/17	P/D	SW3520C	
Extraction of TPH	Completed				11/13/17	P/I	SW3510C/SW3520C	
Gasoline Range Hydrocarbons								
GRO (C6-C10)	< 50	50	ug/L	1	11/14/17	CG	SW8015D	1
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	97		%	1	11/14/17	CG	70 - 130 %	
TPH by GC (Extractable Products)								
Aviation Fuel/Kerosene	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #2/ Diesel Fuel	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #4	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #6	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Motor Oil	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Other Oil (Cutting & Lubricating)	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Unidentified	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
QA/QC Surrogates								
% n-Pentacosane	55		%	1	11/14/17	JRB	SW8015D DRO	
Volatiles								
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloropropene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2,3-Trichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: MW-3

Phoenix I.D.: BZ39978

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,2,4-Trichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2,4-Trimethylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dibromoethane	< 0.25	0.25	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichloroethane	< 0.60	0.60	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3,5-Trimethylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,4-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2,2-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2-Chlorotoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2-Hexanone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
2-Isopropyltoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	1
4-Chlorotoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
4-Methyl-2-pentanone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Acetone	< 25	25	ug/L	1	11/14/17	MH	SW8260C	
Acrylonitrile	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Benzene	< 0.70	0.70	ug/L	1	11/14/17	MH	SW8260C	
Bromobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromochloromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromodichloromethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
Bromoform	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromomethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Carbon Disulfide	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Carbon tetrachloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloroform	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
cis-1,3-Dichloropropene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
Dibromochloromethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
Dibromomethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Dichlorodifluoromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Ethylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Hexachlorobutadiene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
Isopropylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
m&p-Xylene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Methyl ethyl ketone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Methyl t-butyl ether (MTBE)	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Methylene chloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Naphthalene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
n-Butylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
n-Propylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
o-Xylene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
p-Isopropyltoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: MW-3

Phoenix I.D.: BZ39978

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
sec-Butylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Styrene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
tert-Butylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Tetrachloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Tetrahydrofuran (THF)	< 2.5	2.5	ug/L	1	11/14/17	MH	SW8260C	1
Toluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Total Xylenes	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
trans-1,3-Dichloropropene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
trans-1,4-dichloro-2-butene	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Trichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Trichlorofluoromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Trichlorotrifluoroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Vinyl chloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99		%	1	11/14/17	MH	70 - 130 %	
% Bromofluorobenzene	101		%	1	11/14/17	MH	70 - 130 %	
% Dibromofluoromethane	94		%	1	11/14/17	MH	70 - 130 %	
% Toluene-d8	97		%	1	11/14/17	MH	70 - 130 %	

Semivolatiles by SIM

2-Methylnaphthalene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Acenaphthene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Acenaphthylene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Anthracene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benz(a)anthracene	0.32	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(a)pyrene	0.29	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.25	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.15	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.24	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Chrysene	0.24	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.02	0.01	ug/L	1	11/14/17	DD	SW8270D (SIM)
Fluoranthene	0.53	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Fluorene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.13	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Naphthalene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Phenanthrene	0.14	0.07	ug/L	1	11/14/17	DD	SW8270D (SIM)
Pyrene	0.50	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	11/14/17	DD	30 - 130 %
% Nitrobenzene-d5	75		%	1	11/14/17	DD	30 - 130 %
% Terphenyl-d14	93		%	1	11/14/17	DD	30 - 130 %

Project ID: A8200 NHDES
Client ID: MW-3

Phoenix I.D.: BZ39978

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 17, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 17, 2017

FOR: Attn: Mr. Joseph Spaulding
Env Products & Services
40 Hamilton Lane
Glenmont, NY 12077-4837

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	JS	11/09/17	12:55
Location Code:	EP&S-NY	Received by:	B	11/10/17	17:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	A26683				

Laboratory Data

SDG ID: GBZ39977
Phoenix ID: BZ39979

Project ID: A8200 NHDES
Client ID: RW-1R2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semi-Volatile Extraction	Completed				11/10/17	P/D	SW3520C	
Extraction of TPH	Completed				11/13/17	P/I	SW3510C/SW3520C	
Gasoline Range Hydrocarbons								
GRO (C6-C10)	94	50	ug/L	1	11/14/17	CG	SW8015D	1
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	98		%	1	11/14/17	CG	70 - 130 %	
TPH by GC (Extractable Products)								
Aviation Fuel/Kerosene	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #2/ Diesel Fuel	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #4	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #6	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Motor Oil	**	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Other Oil (Cutting & Lubricating)	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Unidentified	1.4	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
QA/QC Surrogates								
% n-Pentacosane	57		%	1	11/14/17	JRB	SW8015D DRO	
Volatiles								
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloropropene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2,3-Trichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: RW-1R2

Phoenix I.D.: BZ39979

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,2,4-Trichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2,4-Trimethylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dibromoethane	< 0.25	0.25	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichloroethane	< 0.60	0.60	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3,5-Trimethylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,4-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2,2-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2-Chlorotoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2-Hexanone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
2-Isopropyltoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	1
4-Chlorotoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
4-Methyl-2-pentanone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Acetone	< 25	25	ug/L	1	11/14/17	MH	SW8260C	
Acrylonitrile	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Benzene	0.90	0.70	ug/L	1	11/14/17	MH	SW8260C	
Bromobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromochloromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromodichloromethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
Bromoform	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromomethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Carbon Disulfide	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Carbon tetrachloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloroform	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
cis-1,3-Dichloropropene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
Dibromochloromethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
Dibromomethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Dichlorodifluoromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Ethylbenzene	2.7	1.0	ug/L	1	11/14/17	MH	SW8260C	
Hexachlorobutadiene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
Isopropylbenzene	1.3	1.0	ug/L	1	11/14/17	MH	SW8260C	
m&p-Xylene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Methyl ethyl ketone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Methyl t-butyl ether (MTBE)	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Methylene chloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Naphthalene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
n-Butylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
n-Propylbenzene	1.4	1.0	ug/L	1	11/14/17	MH	SW8260C	
o-Xylene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
p-Isopropyltoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: RW-1R2

Phoenix I.D.: BZ39979

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
sec-Butylbenzene	1.1	1.0	ug/L	1	11/14/17	MH	SW8260C	
Styrene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
tert-Butylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Tetrachloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Tetrahydrofuran (THF)	< 2.5	2.5	ug/L	1	11/14/17	MH	SW8260C	1
Toluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Total Xylenes	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
trans-1,3-Dichloropropene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
trans-1,4-dichloro-2-butene	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Trichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Trichlorofluoromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Trichlorotrifluoroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Vinyl chloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	103		%	1	11/14/17	MH	70 - 130 %	
% Bromofluorobenzene	101		%	1	11/14/17	MH	70 - 130 %	
% Dibromofluoromethane	96		%	1	11/14/17	MH	70 - 130 %	
% Toluene-d8	98		%	1	11/14/17	MH	70 - 130 %	

Semivolatiles by SIM

2-Methylnaphthalene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Acenaphthene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Acenaphthylene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Anthracene	0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benz(a)anthracene	0.15	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(a)pyrene	0.13	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.11	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.10	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Chrysene	0.10	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.03	0.01	ug/L	1	11/14/17	DD	SW8270D (SIM)
Fluoranthene	0.41	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Fluorene	0.31	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.07	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Naphthalene	0.16	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Phenanthrene	0.30	0.07	ug/L	1	11/14/17	DD	SW8270D (SIM)
Pyrene	0.31	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	11/14/17	DD	30 - 130 %
% Nitrobenzene-d5	61		%	1	11/14/17	DD	30 - 130 %
% Terphenyl-d14	50		%	1	11/14/17	DD	30 - 130 %

Project ID: A8200 NHDES
Client ID: RW-1R2

Phoenix I.D.: BZ39979

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

TPH Comment:
**Petroleum hydrocarbon chromatogram most closely resembles motor oil. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 17, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 17, 2017

FOR: Attn: Mr. Joseph Spaulding
Env Products & Services
40 Hamilton Lane
Glenmont, NY 12077-4837

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	JS	11/09/17	13:15
Location Code:	EP&S-NY	Received by:	B	11/10/17	17:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	A26683				

Laboratory Data

SDG ID: GBZ39977
Phoenix ID: BZ39980

Project ID: A8200 NHDES
Client ID: MW-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semi-Volatile Extraction	Completed				11/10/17	P/D	SW3520C	
Extraction of TPH	Completed				11/13/17	P/I	SW3510C/SW3520C	
Gasoline Range Hydrocarbons								
GRO (C6-C10)	470	50	ug/L	1	11/14/17	CG	SW8015D	1
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	92		%	1	11/14/17	CG	70 - 130 %	
TPH by GC (Extractable Products)								
Aviation Fuel/Kerosene	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #2/ Diesel Fuel	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #4	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #6	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Motor Oil	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Other Oil (Cutting & Lubricating)	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Unidentified	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
QA/QC Surrogates								
% n-Pentacosane	65		%	1	11/14/17	JRB	SW8015D DRO	
Volatiles								
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,1-Dichloropropene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2,3-Trichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: MW-1

Phoenix I.D.: BZ39980

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,2,4-Trichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2,4-Trimethylbenzene	68	5.0	ug/L	5	11/15/17	MH	SW8260C	
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dibromoethane	< 0.25	0.25	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichloroethane	< 0.60	0.60	ug/L	1	11/14/17	MH	SW8260C	
1,2-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3,5-Trimethylbenzene	11	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,3-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
1,4-Dichlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2,2-Dichloropropane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2-Chlorotoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
2-Hexanone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
2-Isopropyltoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	1
4-Chlorotoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
4-Methyl-2-pentanone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Acetone	< 25	25	ug/L	1	11/14/17	MH	SW8260C	
Acrylonitrile	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Benzene	12	0.70	ug/L	1	11/14/17	MH	SW8260C	
Bromobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromochloromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromodichloromethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
Bromoform	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Bromomethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Carbon Disulfide	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Carbon tetrachloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chlorobenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloroform	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Chloromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
cis-1,3-Dichloropropene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
Dibromochloromethane	< 0.50	0.50	ug/L	1	11/14/17	MH	SW8260C	
Dibromomethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Dichlorodifluoromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Ethylbenzene	8.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Hexachlorobutadiene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
Isopropylbenzene	3.6	1.0	ug/L	1	11/14/17	MH	SW8260C	
m&p-Xylene	11	1.0	ug/L	1	11/14/17	MH	SW8260C	
Methyl ethyl ketone	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Methyl t-butyl ether (MTBE)	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Methylene chloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Naphthalene	8.6	1.0	ug/L	1	11/14/17	MH	SW8260C	
n-Butylbenzene	1.6	1.0	ug/L	1	11/14/17	MH	SW8260C	
n-Propylbenzene	4.1	1.0	ug/L	1	11/14/17	MH	SW8260C	
o-Xylene	9.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
p-Isopropyltoluene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: MW-1

Phoenix I.D.: BZ39980

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
sec-Butylbenzene	1.6	1.0	ug/L	1	11/14/17	MH	SW8260C	
Styrene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
tert-Butylbenzene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Tetrachloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Tetrahydrofuran (THF)	< 2.5	2.5	ug/L	1	11/14/17	MH	SW8260C	1
Toluene	1.3	1.0	ug/L	1	11/14/17	MH	SW8260C	
Total Xylenes	20.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
trans-1,3-Dichloropropene	< 0.40	0.40	ug/L	1	11/14/17	MH	SW8260C	
trans-1,4-dichloro-2-butene	< 5.0	5.0	ug/L	1	11/14/17	MH	SW8260C	
Trichloroethene	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Trichlorofluoromethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Trichlorotrifluoroethane	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
Vinyl chloride	< 1.0	1.0	ug/L	1	11/14/17	MH	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	101		%	1	11/14/17	MH	70 - 130 %	
% Bromofluorobenzene	99		%	1	11/14/17	MH	70 - 130 %	
% Dibromofluoromethane	94		%	1	11/14/17	MH	70 - 130 %	
% Toluene-d8	98		%	1	11/14/17	MH	70 - 130 %	

Semivolatiles by SIM

2-Methylnaphthalene	0.13	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Acenaphthene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Acenaphthylene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Anthracene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benz(a)anthracene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(a)pyrene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Chrysene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	< 0.01	0.01	ug/L	1	11/14/17	DD	SW8270D (SIM)
Fluoranthene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Fluorene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	< 0.02	0.02	ug/L	1	11/14/17	DD	SW8270D (SIM)
Naphthalene	1.4	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
Phenanthrene	< 0.07	0.07	ug/L	1	11/14/17	DD	SW8270D (SIM)
Pyrene	< 0.10	0.10	ug/L	1	11/14/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	11/14/17	DD	30 - 130 %
% Nitrobenzene-d5	68		%	1	11/14/17	DD	30 - 130 %
% Terphenyl-d14	90		%	1	11/14/17	DD	30 - 130 %

Project ID: A8200 NHDES
Client ID: MW-1

Phoenix I.D.: BZ39980

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 17, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 17, 2017

FOR: Attn: Mr. Joseph Spaulding
Env Products & Services
40 Hamilton Lane
Glenmont, NY 12077-4837

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	JS	11/09/17	13:30
Location Code:	EP&S-NY	Received by:	B	11/10/17	17:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	A26683				

Laboratory Data

SDG ID: GBZ39977
Phoenix ID: BZ39981

Project ID: A8200 NHDES
Client ID: MW-101

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semi-Volatile Extraction	Completed				11/10/17	P/D	SW3520C	
Extraction of TPH	Completed				11/13/17	P/I	SW3510C/SW3520C	
Gasoline Range Hydrocarbons								
GRO (C6-C10)	37000	2500	ug/L	50	11/14/17	CG	SW8015D	1
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	98		%	50	11/14/17	CG	70 - 130 %	
TPH by GC (Extractable Products)								
Aviation Fuel/Kerosene	< 0.50	0.50	mg/L	1	11/15/17	JRB	SW8015D DRO	1
Fuel Oil #2/ Diesel Fuel	< 0.50	0.50	mg/L	1	11/15/17	JRB	SW8015D DRO	1
Fuel Oil #4	< 0.50	0.50	mg/L	1	11/15/17	JRB	SW8015D DRO	1
Fuel Oil #6	< 0.50	0.50	mg/L	1	11/15/17	JRB	SW8015D DRO	1
Motor Oil	< 0.50	0.50	mg/L	1	11/15/17	JRB	SW8015D DRO	1
Other Oil (Cutting & Lubricating)	< 0.50	0.50	mg/L	1	11/15/17	JRB	SW8015D DRO	1
Unidentified	< 0.50	0.50	mg/L	1	11/15/17	JRB	SW8015D DRO	1
QA/QC Surrogates								
% n-Pentacosane	17		%	1	11/15/17	JRB	SW8015D DRO	
Volatiles								
1,1,1,2-Tetrachloroethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,1,1-Trichloroethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,1-Dichloroethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,1-Dichloroethene	< 7.0	7.0	ug/L	20	11/14/17	MH	SW8260C	
1,1-Dichloropropene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,2,3-Trichlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: MW-101

Phoenix I.D.: BZ39981

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2,3-Trichloropropane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,2,4-Trichlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,2,4-Trimethylbenzene	2100	200	ug/L	200	11/15/17	MH	SW8260C	
1,2-Dibromo-3-chloropropane	< 10	10	ug/L	20	11/14/17	MH	SW8260C	
1,2-Dibromoethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,2-Dichlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,2-Dichloroethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,2-Dichloropropane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,3,5-Trimethylbenzene	440	20	ug/L	20	11/14/17	MH	SW8260C	
1,3-Dichlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,3-Dichloropropane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,4-Dichlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
2,2-Dichloropropane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
2-Chlorotoluene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
2-Hexanone	< 100	100	ug/L	20	11/14/17	MH	SW8260C	
2-Isopropyltoluene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	1
4-Chlorotoluene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
4-Methyl-2-pentanone	< 100	100	ug/L	20	11/14/17	MH	SW8260C	
Acetone	< 500	500	ug/L	20	11/14/17	MH	SW8260C	
Acrylonitrile	< 50	50	ug/L	20	11/14/17	MH	SW8260C	
Benzene	97	14	ug/L	20	11/14/17	MH	SW8260C	
Bromobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Bromochloromethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Bromodichloromethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Bromoform	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Bromomethane	< 10	10	ug/L	20	11/14/17	MH	SW8260C	
Carbon Disulfide	< 70	70	ug/L	20	11/14/17	MH	SW8260C	
Carbon tetrachloride	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Chlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Chloroethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Chloroform	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Chloromethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
cis-1,2-Dichloroethene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
cis-1,3-Dichloropropene	< 8.0	8.0	ug/L	20	11/14/17	MH	SW8260C	
Dibromochloromethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Dibromomethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Dichlorodifluoromethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Ethylbenzene	2200	200	ug/L	200	11/15/17	MH	SW8260C	
Hexachlorobutadiene	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Isopropylbenzene	92	20	ug/L	20	11/14/17	MH	SW8260C	
m&p-Xylene	4200	200	ug/L	200	11/15/17	MH	SW8260C	
Methyl ethyl ketone	< 100	100	ug/L	20	11/14/17	MH	SW8260C	
Methyl t-butyl ether (MTBE)	< 13	13	ug/L	20	11/14/17	MH	SW8260C	
Methylene chloride	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Naphthalene	520	200	ug/L	200	11/15/17	MH	SW8260C	
n-Butylbenzene	23	20	ug/L	20	11/14/17	MH	SW8260C	
n-Propylbenzene	220	20	ug/L	20	11/14/17	MH	SW8260C	
o-Xylene	2200	200	ug/L	200	11/15/17	MH	SW8260C	
p-Isopropyltoluene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: MW-101

Phoenix I.D.: BZ39981

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
sec-Butylbenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Styrene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
tert-Butylbenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Tetrachloroethene	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Tetrahydrofuran (THF)	< 50	50	ug/L	20	11/14/17	MH	SW8260C	1
Toluene	520	20	ug/L	20	11/14/17	MH	SW8260C	
Total Xylenes	6400	200	ug/L	200	11/15/17	MH	SW8260C	
trans-1,2-Dichloroethene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
trans-1,3-Dichloropropene	< 8.0	8.0	ug/L	20	11/14/17	MH	SW8260C	
trans-1,4-dichloro-2-butene	< 100	100	ug/L	20	11/14/17	MH	SW8260C	
Trichloroethene	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Trichlorofluoromethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Trichlorotrifluoroethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Vinyl chloride	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	97		%	20	11/14/17	MH	70 - 130 %	
% Bromofluorobenzene	101		%	20	11/14/17	MH	70 - 130 %	
% Dibromofluoromethane	96		%	20	11/14/17	MH	70 - 130 %	
% Toluene-d8	99		%	20	11/14/17	MH	70 - 130 %	

Polynuclear Aromatic HC

2-Methylnaphthalene	62	34	ug/L	10	11/15/17	DD	SW8270D
Acenaphthene	< 34	34	ug/L	10	11/15/17	DD	SW8270D
Acenaphthylene	< 34	34	ug/L	10	11/15/17	DD	SW8270D
Anthracene	< 34	34	ug/L	10	11/15/17	DD	SW8270D
Benz(a)anthracene	< 16	16	ug/L	10	11/15/17	DD	SW8270D
Benzo(a)pyrene	< 15	15	ug/L	10	11/15/17	DD	SW8270D
Benzo(b)fluoranthene	< 16	16	ug/L	10	11/15/17	DD	SW8270D
Benzo(ghi)perylene	< 34	34	ug/L	10	11/15/17	DD	SW8270D
Benzo(k)fluoranthene	< 16	16	ug/L	10	11/15/17	DD	SW8270D
Chrysene	< 16	16	ug/L	10	11/15/17	DD	SW8270D
Dibenz(a,h)anthracene	< 15	15	ug/L	10	11/15/17	DD	SW8270D
Fluoranthene	< 34	34	ug/L	10	11/15/17	DD	SW8270D
Fluorene	< 34	34	ug/L	10	11/15/17	DD	SW8270D
Indeno(1,2,3-cd)pyrene	< 16	16	ug/L	10	11/15/17	DD	SW8270D
Naphthalene	290	34	ug/L	10	11/15/17	DD	SW8270D
Phenanthrene	< 34	34	ug/L	10	11/15/17	DD	SW8270D
Pyrene	< 34	34	ug/L	10	11/15/17	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	10	11/15/17	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	10	11/15/17	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	10	11/15/17	DD	30 - 130 %

Project ID: A8200 NHDES
Client ID: MW-101

Phoenix I.D.: BZ39981

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

Semi-Volatile Comment:
The client requested semivolatile SIM analysis for some compounds. Due to sample matrix, the sample had to be run full scan and could not be evaluated to the requested detection levels.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

TPH Comment:
Low surrogate reported. Insufficient sample for re-extraction.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 17, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 17, 2017

FOR: Attn: Mr. Joseph Spaulding
Env Products & Services
40 Hamilton Lane
Glenmont, NY 12077-4837

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	JS	11/09/17	13:45
Location Code:	EP&S-NY	Received by:	B	11/10/17	17:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	A26683				

Laboratory Data

SDG ID: GBZ39977
Phoenix ID: BZ39982

Project ID: A8200 NHDES
Client ID: MW-102

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semi-Volatile Extraction	Completed				11/10/17	P/D	SW3520C	
Extraction of TPH	Completed				11/13/17	P/I	SW3510C/SW3520C	
Gasoline Range Hydrocarbons								
GRO (C6-C10)	63000	5000	ug/L	100	11/14/17	CG	SW8015D	1
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	89		%	100	11/14/17	CG	70 - 130 %	
TPH by GC (Extractable Products)								
Aviation Fuel/Kerosene	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #2/ Diesel Fuel	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #4	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Fuel Oil #6	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Motor Oil	< 0.50	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Other Oil (Cutting & Lubricating)	**	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
Unidentified	3.0	0.50	mg/L	1	11/14/17	JRB	SW8015D DRO	1
QA/QC Surrogates								
% n-Pentacosane	55		%	1	11/14/17	JRB	SW8015D DRO	
Volatiles								
1,1,1,2-Tetrachloroethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,1,1-Trichloroethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,1-Dichloroethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,1-Dichloroethene	< 7.0	7.0	ug/L	20	11/14/17	MH	SW8260C	
1,1-Dichloropropene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,2,3-Trichlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: MW-102

Phoenix I.D.: BZ39982

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2,3-Trichloropropane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,2,4-Trichlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,2,4-Trimethylbenzene	2300	200	ug/L	200	11/15/17	MH	SW8260C	
1,2-Dibromo-3-chloropropane	< 10	10	ug/L	20	11/14/17	MH	SW8260C	
1,2-Dibromoethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,2-Dichlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,2-Dichloroethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,2-Dichloropropane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
1,3,5-Trimethylbenzene	580	20	ug/L	20	11/14/17	MH	SW8260C	
1,3-Dichlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,3-Dichloropropane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
1,4-Dichlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
2,2-Dichloropropane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
2-Chlorotoluene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
2-Hexanone	< 100	100	ug/L	20	11/14/17	MH	SW8260C	
2-Isopropyltoluene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	1
4-Chlorotoluene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
4-Methyl-2-pentanone	< 100	100	ug/L	20	11/14/17	MH	SW8260C	
Acetone	< 500	500	ug/L	20	11/14/17	MH	SW8260C	
Acrylonitrile	< 50	50	ug/L	20	11/14/17	MH	SW8260C	
Benzene	35	14	ug/L	20	11/14/17	MH	SW8260C	
Bromobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Bromochloromethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Bromodichloromethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Bromoform	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Bromomethane	< 10	10	ug/L	20	11/14/17	MH	SW8260C	
Carbon Disulfide	< 70	70	ug/L	20	11/14/17	MH	SW8260C	
Carbon tetrachloride	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Chlorobenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Chloroethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Chloroform	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Chloromethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
cis-1,2-Dichloroethene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
cis-1,3-Dichloropropene	< 8.0	8.0	ug/L	20	11/14/17	MH	SW8260C	
Dibromochloromethane	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Dibromomethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Dichlorodifluoromethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Ethylbenzene	3400	200	ug/L	200	11/15/17	MH	SW8260C	
Hexachlorobutadiene	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Isopropylbenzene	130	20	ug/L	20	11/14/17	MH	SW8260C	
m&p-Xylene	7000	200	ug/L	200	11/15/17	MH	SW8260C	
Methyl ethyl ketone	< 100	100	ug/L	20	11/14/17	MH	SW8260C	
Methyl t-butyl ether (MTBE)	< 13	13	ug/L	20	11/14/17	MH	SW8260C	
Methylene chloride	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Naphthalene	600	200	ug/L	200	11/15/17	MH	SW8260C	
n-Butylbenzene	27	20	ug/L	20	11/14/17	MH	SW8260C	
n-Propylbenzene	340	20	ug/L	20	11/14/17	MH	SW8260C	
o-Xylene	3700	200	ug/L	200	11/15/17	MH	SW8260C	
p-Isopropyltoluene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	

Project ID: A8200 NHDES
Client ID: MW-102

Phoenix I.D.: BZ39982

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
sec-Butylbenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Styrene	88	20	ug/L	20	11/14/17	MH	SW8260C	
tert-Butylbenzene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Tetrachloroethene	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Tetrahydrofuran (THF)	< 50	50	ug/L	20	11/14/17	MH	SW8260C	1
Toluene	3600	200	ug/L	200	11/15/17	MH	SW8260C	
Total Xylenes	10700	200	ug/L	200	11/15/17	MH	SW8260C	
trans-1,2-Dichloroethene	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
trans-1,3-Dichloropropene	< 8.0	8.0	ug/L	20	11/14/17	MH	SW8260C	
trans-1,4-dichloro-2-butene	< 100	100	ug/L	20	11/14/17	MH	SW8260C	
Trichloroethene	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
Trichlorofluoromethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Trichlorotrifluoroethane	< 20	20	ug/L	20	11/14/17	MH	SW8260C	
Vinyl chloride	< 5.0	5.0	ug/L	20	11/14/17	MH	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	98		%	20	11/14/17	MH	70 - 130 %	
% Bromofluorobenzene	100		%	20	11/14/17	MH	70 - 130 %	
% Dibromofluoromethane	94		%	20	11/14/17	MH	70 - 130 %	
% Toluene-d8	99		%	20	11/14/17	MH	70 - 130 %	

Polynuclear Aromatic HC

2-Methylnaphthalene	85	35	ug/L	10	11/15/17	DD	SW8270D
Acenaphthene	< 35	35	ug/L	10	11/15/17	DD	SW8270D
Acenaphthylene	< 35	35	ug/L	10	11/15/17	DD	SW8270D
Anthracene	< 35	35	ug/L	10	11/15/17	DD	SW8270D
Benz(a)anthracene	< 17	17	ug/L	10	11/15/17	DD	SW8270D
Benzo(a)pyrene	< 16	16	ug/L	10	11/15/17	DD	SW8270D
Benzo(b)fluoranthene	< 17	17	ug/L	10	11/15/17	DD	SW8270D
Benzo(ghi)perylene	< 35	35	ug/L	10	11/15/17	DD	SW8270D
Benzo(k)fluoranthene	< 17	17	ug/L	10	11/15/17	DD	SW8270D
Chrysene	< 17	17	ug/L	10	11/15/17	DD	SW8270D
Dibenz(a,h)anthracene	< 16	16	ug/L	10	11/15/17	DD	SW8270D
Fluoranthene	< 35	35	ug/L	10	11/15/17	DD	SW8270D
Fluorene	< 35	35	ug/L	10	11/15/17	DD	SW8270D
Indeno(1,2,3-cd)pyrene	< 17	17	ug/L	10	11/15/17	DD	SW8270D
Naphthalene	480	35	ug/L	10	11/15/17	DD	SW8270D
Phenanthrene	< 35	35	ug/L	10	11/15/17	DD	SW8270D
Pyrene	< 35	35	ug/L	10	11/15/17	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	10	11/15/17	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	10	11/15/17	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	10	11/15/17	DD	30 - 130 %

Project ID: A8200 NHDES
Client ID: MW-102

Phoenix I.D.: BZ39982

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

Semi-Volatile Comment:
The client requested semivolatile SIM analysis for some compounds. Due to sample matrix, the sample had to be run full scan and could not be evaluated to the requested detection levels.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 17, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

November 17, 2017

QA/QC Data

SDG I.D.: GBZ39977

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 409195 (mg/L), QC Sample No: BZ38494 (BZ39977)										
TPH by GC (Extractable Products) - Ground Water										
Ext. Petroleum H.C. (C9-C36)	ND	0.10	88	84	4.7				60 - 120	30
% n-Pentacosane	67	%	76	73	4.0				50 - 150	20

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 409193 (ug/L), QC Sample No: BZ39641 (BZ39977, BZ39978, BZ39979, BZ39980, BZ39981, BZ39982)										
Semivolatiles by SIM - Ground Water										
2-Methylnaphthalene	ND	0.05	56	57	1.8				30 - 130	20
Acenaphthene	ND	0.05	67	71	5.8				30 - 130	20
Acenaphthylene	ND	0.04	69	72	4.3				30 - 130	20
Anthracene	ND	0.02	75	76	1.3				30 - 130	20
Benz(a)anthracene	ND	0.02	77	79	2.6				30 - 130	20
Benzo(a)pyrene	ND	0.02	71	73	2.8				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	79	82	3.7				30 - 130	20
Benzo(ghi)perylene	ND	0.02	58	63	8.3				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	79	80	1.3				30 - 130	20
Chrysene	ND	0.02	68	71	4.3				30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	70	75	6.9				30 - 130	20
Fluoranthene	ND	0.04	75	77	2.6				30 - 130	20
Fluorene	ND	0.05	70	73	4.2				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	66	70	5.9				30 - 130	20
Naphthalene	ND	0.05	51	54	5.7				30 - 130	20
Phenanthrene	ND	0.05	70	72	2.8				30 - 130	20
Pyrene	ND	0.02	76	78	2.6				30 - 130	20
% 2-Fluorobiphenyl	59	%	61	63	3.2				30 - 130	20
% Nitrobenzene-d5	54	%	55	57	3.6				30 - 130	20
% Terphenyl-d14	80	%	79	82	3.7				30 - 130	20

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 409682 (ug/L), QC Sample No: BZ39824 (BZ39977, BZ39978, BZ39979, BZ39980, BZ39981 (20X) , BZ39982 (20X))										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	110	105	4.7				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	107	105	1.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	110	107	2.8				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	108	107	0.9				70 - 130	30
1,1-Dichloroethane	ND	1.0	108	106	1.9				70 - 130	30
1,1-Dichloroethene	ND	1.0	107	106	0.9				70 - 130	30
1,1-Dichloropropene	ND	1.0	102	104	1.9				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	113	113	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GBZ39977

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,3-Trichloropropane	ND	1.0	91	100	9.4				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	108	107	0.9				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	102	100	2.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	105	111	5.6				70 - 130	30
1,2-Dibromoethane	ND	1.0	107	107	0.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	107	105	1.9				70 - 130	30
1,2-Dichloroethane	ND	1.0	111	110	0.9				70 - 130	30
1,2-Dichloropropane	ND	1.0	105	107	1.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	104	101	2.9				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	105	103	1.9				70 - 130	30
1,3-Dichloropropane	ND	1.0	105	104	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	103	100	3.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	116	111	4.4				70 - 130	30
2-Chlorotoluene	ND	1.0	103	100	3.0				70 - 130	30
2-Hexanone	ND	5.0	109	110	0.9				70 - 130	30
2-Isopropyltoluene	ND	1.0	104	103	1.0				70 - 130	30
4-Chlorotoluene	ND	1.0	104	99	4.9				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	110	109	0.9				70 - 130	30
Acetone	ND	5.0	108	106	1.9				70 - 130	30
Acrylonitrile	ND	5.0	103	103	0.0				70 - 130	30
Benzene	ND	0.70	105	104	1.0				70 - 130	30
Bromobenzene	ND	1.0	107	101	5.8				70 - 130	30
Bromochloromethane	ND	1.0	109	104	4.7				70 - 130	30
Bromodichloromethane	ND	0.50	106	105	0.9				70 - 130	30
Bromoform	ND	1.0	111	107	3.7				70 - 130	30
Bromomethane	ND	1.0	113	114	0.9				70 - 130	30
Carbon Disulfide	ND	1.0	116	113	2.6				70 - 130	30
Carbon tetrachloride	ND	1.0	103	101	2.0				70 - 130	30
Chlorobenzene	ND	1.0	104	101	2.9				70 - 130	30
Chloroethane	ND	1.0	113	113	0.0				70 - 130	30
Chloroform	ND	1.0	106	103	2.9				70 - 130	30
Chloromethane	ND	1.0	110	107	2.8				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	109	107	1.9				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	108	108	0.0				70 - 130	30
Dibromochloromethane	ND	0.50	111	111	0.0				70 - 130	30
Dibromomethane	ND	1.0	112	110	1.8				70 - 130	30
Dichlorodifluoromethane	ND	1.0	105	105	0.0				70 - 130	30
Ethylbenzene	ND	1.0	104	101	2.9				70 - 130	30
Hexachlorobutadiene	ND	0.40	102	101	1.0				70 - 130	30
Isopropylbenzene	ND	1.0	105	105	0.0				70 - 130	30
m&p-Xylene	ND	1.0	102	102	0.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	108	107	0.9				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	110	107	2.8				70 - 130	30
Methylene chloride	ND	1.0	105	103	1.9				70 - 130	30
Naphthalene	ND	1.0	110	116	5.3				70 - 130	30
n-Butylbenzene	ND	1.0	107	104	2.8				70 - 130	30
n-Propylbenzene	ND	1.0	104	102	1.9				70 - 130	30
o-Xylene	ND	1.0	106	104	1.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	106	103	2.9				70 - 130	30
sec-Butylbenzene	ND	1.0	110	106	3.7				70 - 130	30
Styrene	ND	1.0	105	102	2.9				70 - 130	30
tert-Butylbenzene	ND	1.0	104	103	1.0				70 - 130	30
Tetrachloroethene	ND	1.0	106	103	2.9				70 - 130	30

QA/QC Data

SDG I.D.: GBZ39977

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Tetrahydrofuran (THF)	ND	2.5	108	101	6.7				70 - 130	30
Toluene	ND	1.0	104	103	1.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	104	105	1.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	107	106	0.9				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	113	106	6.4				70 - 130	30
Trichloroethene	ND	1.0	103	103	0.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	107	107	0.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	103	101	2.0				70 - 130	30
Vinyl chloride	ND	1.0	113	112	0.9				70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	104	102	1.9				70 - 130	30
% Bromofluorobenzene	98	%	103	102	1.0				70 - 130	30
% Dibromofluoromethane	99	%	102	101	1.0				70 - 130	30
% Toluene-d8	96	%	101	102	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 409617 (ug/L), QC Sample No: BZ39977 (BZ39977, BZ39978, BZ39979, BZ39980, BZ39981 (50X) , BZ39982 (100X))

Gasoline Range Hydrocarbons - Ground Water

GRO (C6-C10)	ND	50	91	92	1.1	93	96	3.2	70 - 130	50
% 2,5-Dibromotoluene (FID)	99		95	100	5.1	93	95	2.1	70 - 130	50

QA/QC Batch 409401 (mg/L), QC Sample No: BZ39978 (BZ39978, BZ39979, BZ39980, BZ39981, BZ39982)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	81	65	21.9				60 - 120	30
% n-Pentacosane	52	%	69	57	19.0				50 - 150	20

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
November 17, 2017

Friday, November 17, 2017

Criteria: NH: GW

State: NH

Sample Criteria Exceedances Report

GBZ39977 - EPS-NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BZ39977	$8260GWR	1,2-Dibromoethane	NH / Env-OR600 / Ground Water Criteria	ND	0.25	0.05	0.05	ug/L
BZ39977	$8260GWR	1,2-Dibromo-3-chloropropane	NH / Env-OR600 / Ground Water Criteria	ND	0.50	0.2	0.2	ug/L
BZ39978	$8100SIMR	Benz(a)anthracene	NH / Env-OR600 / Ground Water Criteria	0.32	0.02	0.1	0.1	ug/L
BZ39978	$8100SIMR	Benzo(a)pyrene	NH / Env-OR600 / Ground Water Criteria	0.29	0.02	0.2	0.2	ug/L
BZ39978	$8100SIMR	Benzo(b)fluoranthene	NH / Env-OR600 / Ground Water Criteria	0.25	0.02	0.1	0.1	ug/L
BZ39978	$8100SIMR	Indeno(1,2,3-cd)pyrene	NH / Env-OR600 / Ground Water Criteria	0.13	0.02	0.1	0.1	ug/L
BZ39978	$8260GWR	1,2-Dibromo-3-chloropropane	NH / Env-OR600 / Ground Water Criteria	ND	0.50	0.2	0.2	ug/L
BZ39978	$8260GWR	1,2-Dibromoethane	NH / Env-OR600 / Ground Water Criteria	ND	0.25	0.05	0.05	ug/L
BZ39979	$8100SIMR	Benz(a)anthracene	NH / Env-OR600 / Ground Water Criteria	0.15	0.02	0.1	0.1	ug/L
BZ39979	$8100SIMR	Benzo(b)fluoranthene	NH / Env-OR600 / Ground Water Criteria	0.11	0.02	0.1	0.1	ug/L
BZ39979	$8260GWR	1,2-Dibromoethane	NH / Env-OR600 / Ground Water Criteria	ND	0.25	0.05	0.05	ug/L
BZ39979	$8260GWR	1,2-Dibromo-3-chloropropane	NH / Env-OR600 / Ground Water Criteria	ND	0.50	0.2	0.2	ug/L
BZ39980	$8260GWR	1,2-Dibromo-3-chloropropane	NH / Env-OR600 / Ground Water Criteria	ND	0.50	0.2	0.2	ug/L
BZ39980	$8260GWR	1,2-Dibromoethane	NH / Env-OR600 / Ground Water Criteria	ND	0.25	0.05	0.05	ug/L
BZ39980	$8260GWR	Benzene	NH / Env-OR600 / Ground Water Criteria	12	0.70	5	5	ug/L
BZ39981	$8100WMR	Dibenz(a,h)anthracene	NH / Env-OR600 / Ground Water Criteria	ND	15	0.1	0.1	ug/L
BZ39981	$8100WMR	Benz(a)anthracene	NH / Env-OR600 / Ground Water Criteria	ND	16	0.1	0.1	ug/L
BZ39981	$8100WMR	Naphthalene	NH / Env-OR600 / Ground Water Criteria	290	34	20	20	ug/L
BZ39981	$8100WMR	Indeno(1,2,3-cd)pyrene	NH / Env-OR600 / Ground Water Criteria	ND	16	0.1	0.1	ug/L
BZ39981	$8100WMR	Chrysene	NH / Env-OR600 / Ground Water Criteria	ND	16	5	5	ug/L
BZ39981	$8100WMR	Benzo(k)fluoranthene	NH / Env-OR600 / Ground Water Criteria	ND	16	0.5	0.5	ug/L
BZ39981	$8100WMR	Benzo(a)pyrene	NH / Env-OR600 / Ground Water Criteria	ND	15	0.2	0.2	ug/L
BZ39981	$8100WMR	Benzo(b)fluoranthene	NH / Env-OR600 / Ground Water Criteria	ND	16	0.1	0.1	ug/L
BZ39981	$8260GWR	Bromodichloromethane	NH / Env-OR600 / Ground Water Criteria	ND	5.0	0.6	0.6	ug/L
BZ39981	$8260GWR	1,1,2,2-Tetrachloroethane	NH / Env-OR600 / Ground Water Criteria	ND	5.0	2	2	ug/L
BZ39981	$8260GWR	1,2,3-Trichloropropane	NH / Env-OR600 / Ground Water Criteria	ND	5.0	0.5	0.5	ug/L
BZ39981	$8260GWR	1,2,4-Trimethylbenzene	NH / Env-OR600 / Ground Water Criteria	2100	200	330	330	ug/L
BZ39981	$8260GWR	1,2-Dibromo-3-chloropropane	NH / Env-OR600 / Ground Water Criteria	ND	10	0.2	0.2	ug/L
BZ39981	$8260GWR	1,2-Dibromoethane	NH / Env-OR600 / Ground Water Criteria	ND	5.0	0.05	0.05	ug/L
BZ39981	$8260GWR	1,3,5-Trimethylbenzene	NH / Env-OR600 / Ground Water Criteria	440	20	330	330	ug/L
BZ39981	$8260GWR	Acrylonitrile	NH / Env-OR600 / Ground Water Criteria	ND	50	5	5	ug/L
BZ39981	$8260GWR	Bromoform	NH / Env-OR600 / Ground Water Criteria	ND	5.0	4	4	ug/L
BZ39981	$8260GWR	Ethylbenzene	NH / Env-OR600 / Ground Water Criteria	2200	200	700	700	ug/L
BZ39981	$8260GWR	Hexachlorobutadiene	NH / Env-OR600 / Ground Water Criteria	ND	5.0	0.5	0.5	ug/L
BZ39981	$8260GWR	Methylene chloride	NH / Env-OR600 / Ground Water Criteria	ND	20	5	5	ug/L
BZ39981	$8260GWR	Naphthalene	NH / Env-OR600 / Ground Water Criteria	520	200	20	20	ug/L
BZ39981	$8260GWR	Vinyl chloride	NH / Env-OR600 / Ground Water Criteria	ND	5.0	2	2	ug/L
BZ39981	$8260GWR	Benzene	NH / Env-OR600 / Ground Water Criteria	97	14	5	5	ug/L

Friday, November 17, 2017

Criteria: NH: GW

State: NH

Sample Criteria Exceedances Report

GBZ39977 - EPS-NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BZ39982	$8100WMR	Chrysene	NH / Env-OR600 / Ground Water Criteria	ND	17	5	5	ug/L
BZ39982	$8100WMR	Naphthalene	NH / Env-OR600 / Ground Water Criteria	480	35	20	20	ug/L
BZ39982	$8100WMR	Dibenz(a,h)anthracene	NH / Env-OR600 / Ground Water Criteria	ND	16	0.1	0.1	ug/L
BZ39982	$8100WMR	Benzo(k)fluoranthene	NH / Env-OR600 / Ground Water Criteria	ND	17	0.5	0.5	ug/L
BZ39982	$8100WMR	Benzo(b)fluoranthene	NH / Env-OR600 / Ground Water Criteria	ND	17	0.1	0.1	ug/L
BZ39982	$8100WMR	Benzo(a)pyrene	NH / Env-OR600 / Ground Water Criteria	ND	16	0.2	0.2	ug/L
BZ39982	$8100WMR	Benz(a)anthracene	NH / Env-OR600 / Ground Water Criteria	ND	17	0.1	0.1	ug/L
BZ39982	$8100WMR	Indeno(1,2,3-cd)pyrene	NH / Env-OR600 / Ground Water Criteria	ND	17	0.1	0.1	ug/L
BZ39982	$8260GWR	Total Xylenes	NH / Env-OR600 / Ground Water Criteria	10700	200	10000	10000	ug/L
BZ39982	$8260GWR	1,2,3-Trichloropropane	NH / Env-OR600 / Ground Water Criteria	ND	5.0	0.5	0.5	ug/L
BZ39982	$8260GWR	Bromoform	NH / Env-OR600 / Ground Water Criteria	ND	5.0	4	4	ug/L
BZ39982	$8260GWR	Toluene	NH / Env-OR600 / Ground Water Criteria	3600	200	1000	1000	ug/L
BZ39982	$8260GWR	n-Propylbenzene	NH / Env-OR600 / Ground Water Criteria	340	20	260	260	ug/L
BZ39982	$8260GWR	Naphthalene	NH / Env-OR600 / Ground Water Criteria	600	200	20	20	ug/L
BZ39982	$8260GWR	Methylene chloride	NH / Env-OR600 / Ground Water Criteria	ND	20	5	5	ug/L
BZ39982	$8260GWR	Hexachlorobutadiene	NH / Env-OR600 / Ground Water Criteria	ND	5.0	0.5	0.5	ug/L
BZ39982	$8260GWR	Ethylbenzene	NH / Env-OR600 / Ground Water Criteria	3400	200	700	700	ug/L
BZ39982	$8260GWR	Bromodichloromethane	NH / Env-OR600 / Ground Water Criteria	ND	5.0	0.6	0.6	ug/L
BZ39982	$8260GWR	Benzene	NH / Env-OR600 / Ground Water Criteria	35	14	5	5	ug/L
BZ39982	$8260GWR	Acrylonitrile	NH / Env-OR600 / Ground Water Criteria	ND	50	5	5	ug/L
BZ39982	$8260GWR	1,3,5-Trimethylbenzene	NH / Env-OR600 / Ground Water Criteria	580	20	330	330	ug/L
BZ39982	$8260GWR	1,2-Dibromoethane	NH / Env-OR600 / Ground Water Criteria	ND	5.0	0.05	0.05	ug/L
BZ39982	$8260GWR	1,2,4-Trimethylbenzene	NH / Env-OR600 / Ground Water Criteria	2300	200	330	330	ug/L
BZ39982	$8260GWR	Vinyl chloride	NH / Env-OR600 / Ground Water Criteria	ND	5.0	2	2	ug/L
BZ39982	$8260GWR	1,1,2,2-Tetrachloroethane	NH / Env-OR600 / Ground Water Criteria	ND	5.0	2	2	ug/L
BZ39982	$8260GWR	1,2-Dibromo-3-chloropropane	NH / Env-OR600 / Ground Water Criteria	ND	10	0.2	0.2	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

November 17, 2017 SDG I.D.: GBZ39977

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

VOA Narration

CHEM17 11/14/17-1: BZ39977, BZ39978, BZ39979, BZ39980, BZ39981, BZ39982

The following Initial Calibration compounds did not meet RSD% criteria: Methyl ethyl ketone 25% (20%), trans-1,4-dichloro-2-butene 21% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.033 (0.05), 2-Hexanone 0.057 (0.1), 4-Methyl-2-pentanone 0.078 (0.1), Acetone 0.037 (0.1), Bromoform 0.081 (0.1), Methyl ethyl ketone 0.051 (0.1), Tetrahydrofuran (THF) 0.034 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.035 (0.05), Bromoform 0.095 (0.1), Tetrahydrofuran (THF) 0.040 (0.05)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☑ No ☐

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 1.3 °C Pg of

Contact Options:
☐ Fax:
☑ Phone: 518-465-4000
☑ Email: jspaulding@epsofvermont.com

Customer: EPS of Vermont
Address: 40 Hamilton Ln
Glenmont, NY

Project: A8200 - NHDES
Report to: jspaulding@epsofvermont.com
Invoice to: smorrison@epsofvermont.com

Project P.O: A26683

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 11/9/17

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8260 VOCs	PAHs	TPH GRO	TPH DRO	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [✓] HCl	GL Amber 1000ml [✓] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
39977	MW-105	GW	11/9/17	1200	X	X	X	X				5	2					
39978	MW-3	↓	↓	1230	X	X	X	X				5	2					
39979	~~MW~~ RW-1R2	↓	↓	1255	X	X	X	X				5	2					
39980	MW-1	↓	↓	1315	X	X	X	X				5	2					
39981	MW-101	↓	↓	1330	X	X	X	X				5	2					
39982	MW-102	↓	↓	1345	X	X	X	X				5	2					

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	11/10/17	12[illegible]
	[signature]		[illegible]
[signature]	[signature]	11.10.17	17:20

Comments, Special Requirements or Regulations:

kschuch@epsofvermont.com

Please analyze for NH regs!

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

NY
☐ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

Data Format
☑ Phoenix Std Report
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other

Data Package
☐ NJ Reduced Deliv. *
☐ NY Enhanced (ASP B) *
☐ Other

What State were samples collected? NH
NH regs