540 SMITH STREET
FARMINGDALE, NEW YORK
BLOCK 400, LOTS 8005 & 208
NYSDEC SITE NO. 1-52-147

2019
PERIODIC REVIEW REPORT

Submitted to:

New York State Dept of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A
625 Broadway 12th Floor
Albany, New York 12233-7015

Prepared for:

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CERTIFICATION

For each institutional or engineering control identified for the Site, I certify that the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with Operation, Maintenance and Monitoring Program for this control;
- Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program and generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

I certify that information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Gerry Rosen, PE, of 630 Johnson Avenue, Bohemia, NY 11716, am certifying as the Owner's Designated Site Representative for the Site.

CHARLES J. BARTHA
Name

53104
PE License Number

Signature

7-7-2020
Date

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1.0 INTRODUCTION

This *Periodic Review Report* (PRR) has been prepared by P.W. Grosser Consulting Inc. (PWGC) on behalf of Minmilt Realty Corporation. The overall objective of this report is to document routine operation and maintenance activities and system monitoring for November 2018 – March 2020 in accordance with the Operation and Maintenance (O&M) of the Interim Remedial Measure (IRM) at the Minmilt Realty site (New York State Department of Environmental Conservation [NYSDEC] Site No. 1-52-147). The site has been reclassified from a Class 2 hazardous waste site to a Class 4 site. A Class 4 site is a hazardous waste site that has been properly closed, however requires continued site management consisting of operation, maintenance and/or monitoring. Results of the routine operation and maintenance activities and system monitoring are used to maintain effective system operation, monitor compliance with applicable discharge permits, and monitor the effectiveness and progress of site remediation. A detailed description of the monitoring procedures and schedules is discussed in the *Operation Maintenance and Monitoring Program for the Approved Remedial Measure at Minmilt Realty, East Farmingdale, New York, (OM&M Program)* that was prepared by PWGC and approved by the New York State Department of Environmental Conservation (NYSDEC) in December 2004. The OM&M Program was based upon, and ultimately replaced, the *Operation and Maintenance Program for the Interim Remedial Measure at Minmilt Realty, East Farmingdale, New York, October 1996, revised March 1997, (O&M Program),* prepared by PWGC. It is anticipated that a Site Management Plan (SMP) will replace the existing O&M Program in the near future. A draft of the SMP was submitted to the NYSDEC for review and approval on February 5th, 2020.

This PRR documents system operation, maintenance, and sampling activities performed from November 2018 to March 2020. As per the most recent OM&M program approved in 2004 and modified in 2014, the content of the quarterly reports and sampling for this period has been reduced. Combined influent and effluent samples have been collected monthly from the groundwater remediation system; and influent samples from each individual groundwater extraction well have been collected quarterly. Influent samples from the Soil Vapor Extraction (SVE) system have been collected quarterly. Samples have been collected every fifth quarter from the network of groundwater monitoring wells, which includes MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, SP-3, SP-4, SP-5, SP-6, GW-1, GW-2, GW-3 and a well owned by Suffolk County Department of Health Services (SCDHS).

The last groundwater sampling round occurred on March 5, 2020.

1.1 SITE DESCRIPTION

The Minmilt Realty Site (Site) is a 2.28-acre industrial property located at 540 Smith Street, East Farmingdale, New York between New Highway and Wellwood Avenue. The site is improved with a 47,103.6 square feet single-story building and parking. Refer to **Figure 1 – Site Location Map**.

The Site is owned by Minmilt Realty Corp. The building was formerly leased by Hygrade Metal Moulding until June 30, 1997 and remained vacant until November 1997, when it was leased by J. D'Addario & Company, Inc.

The building located adjacent to the subject site to the east was formerly used by Great Neck Saw, a manufacturer of metal tape measures, as well as J. D'Addario & Company, Inc. as a storage warehouse, and is currently occupied by Ambassador Book Service.

The property located directly south of the Site was historically occupied by Cantor Brothers, a chemical repackaging and handling facility, which is on the NYSDEC List of Inactive Hazardous Waste Disposal Sites (Site No. 1-52-021). A remedial investigation was performed at the former Cantor Brothers site and a remedial measure consisting of three SVE wells was initiated in June of 1998. As of June 14, 2001, the Cantor Brothers SVE system has been shut down. In September 2015, the Cantor Brothers site was reclassified to a Class 4 site. It is currently occupied by PL Developments as a distribution center of over-the-counter pharmaceuticals products and consumer healthcare goods.

This part of East Farmingdale and lower Melville is predominantly industrial/commercial. Further east is Pinelawn National Cemetery and further south is Pinelawn Memorial Park Cemetery. There are several additional Inactive Hazardous Waste sites, as well as sites under NYSDEC and Suffolk County Department of Health Services (SCDHS) consent orders for environmental clean-ups in the immediate area. The site's potable water is provided by the East Farmingdale Water District. Wastewater from the site is discharged to the municipal sewer. Investigations in the immediate vicinity of the site are discussed in the *Investigation Report for Hygrade Metal Moulding Corp., 540 Smith Street Farmingdale, New York 11735, March 1993, revised January 1994 (Investigation Report)*, prepared by PWGC.

1.2 SITE HISTORY

The site was used for agricultural purposes prior to 1965. The onsite building, currently owned by Minmilt Realty, was constructed in 1965 and the property was subsequently occupied by Hygrade Metal Moldings (Hygrade). Hygrade manufactured metal mouldings from strip metals used in construction of windows and other finish products. Prior to 1983, Hygrade used a vapor degreaser,

which included a tetrachloroethene (PCE) component, to clean metal parts. The use of this vapor degreaser was terminated in 1983.

An Order on Consent (No. IW-91-0021) was issued to Minmilt Realty by the Suffolk County Department of Health Services (SCDHS) in January 1992. SCDHS alleged that Minmilt Realty caused or permitted the discharge of toxic or hazardous material to an onsite leaching pool in violation of Section 760-1205 of Article 12 of the Suffolk County Sanitary Code. The referenced leaching pool has been reported to have received periodic discharges from the vapor degreaser, which contained PCE.

In response to the SCDHS Order on Consent, a soil and groundwater investigation was conducted by PWGC under subcontract to Middleton, Kontokosta Associates (MKA) in 1994. The objective of the investigation was to identify on-site contamination and associated source areas resulting from the alleged discharges. The soil and groundwater investigation identified significant soil contamination present in the subsurface on the east side of the building. The contamination was primarily PCE and was detected at concentrations high enough to classify some of the soil material as hazardous. PCE concentrations were found to increase with depth towards the water table. At the time, it was estimated that approximately 5,500 cubic yards of soil had been impacted. In addition, PCE was detected in the groundwater beneath the site in excess of permissible NYSDEC standards. Contaminated soils were suspected to be the primary source of PCE in the groundwater. The PCE plume was determined to extend down-gradient to at least the southern property line of Hygrade and vertically to at least 80 feet below grade (40 feet below the water table). The soil and groundwater investigation also determined that background and upgradient groundwater quality in the vicinity of the site was also degraded, indicating the presence of other upgradient sources of contamination.

In 1995, under the oversight of the NYSDEC, a RI was performed. No additional sources of PCE were identified by the remedial investigation at the Site. The vertical extent of the groundwater plume was determined to exist into the Magothy Aquifer to a depth of approximately 185 feet below grade, where it is contained by a clay layer. In addition, on-site monitoring well MW-3 was found to contain a mixture of fuel oil and PCE in a non-aqueous state.

To expedite the clean-up of the site and minimize further degradation of groundwater quality, an interim remedial measure (IRM) was proposed consisting of a soil vapor extraction (SVE) and groundwater remedial combination system to remove the contamination. Construction of the IRM was initiated in August 1996 and completed in February 1997. Subsequently, the Final Offsite RI was completed, and the Record of Decision (ROD) signed, accepting the IRM as the final remedy. The ROD identified three site goals:

- Goal No. 1 - Eliminate, to the extent practicable, off-site migration of groundwater that does not attain NYSDEC Class GA Ambient Water Quality Criteria;
- Goal No. 2 - Eliminate, to the extent practicable, exposures to on-site contamination through the remediation of volatile organic compounds (VOCs) in subsurface soils; and
- Goal No. 3 - Eliminate, to the extent practicable, the migration of site contamination into the groundwater.

PWGC prepared a modified Operation Monitoring and Maintenance (OM&M) plan based upon the offsite RI and the ROD. Minmilt Realty Corp. signed a new Order on Consent on October 24, 2003 addressing the continuing groundwater and soil monitoring at the site.

To further assess the nature of the remaining impacts at the site, PWGC conducted a vertical profile investigation south of MW-3 during 2009. This investigation identified PCE at concentrations up to 84,000 ug/l. High concentrations were primarily observed in the Magothy Aquifer between 120 feet and 130 feet below grade and were rather limited to this area, with concentrations rapidly dropping off in each of the surrounding step-out borings conducted by PWGC. The results of the vertical profile investigation documented that the greatest groundwater impacts were located within the Magothy Aquifer, just south of MW-3.

PWGC oversaw installation of a new Magothy well (Magothy Extraction Well No. 4) onsite and south of MW-3 during the first quarter of 2012 to target the contamination identified in the 2009 vertical profile investigation. The well was installed with 6" diameter casing, screened from 103 to 163 feet below grade. PWGC subsequently determined that Magothy Extraction Well No. 4 had replaced Magothy Extraction Well No. 2 in remedial capacity, rendering Magothy Extraction Well No. 2 unnecessary. After receiving permission from the NYSDEC, original Magothy Extraction Well No. 2 was placed out of operation during the first half of 2014. During June/July 2015, a new onsite Upper Glacial well (Upper Glacial Extraction Well No. 3) was installed and placed into operation. This well was designed with 30 feet of screen set from 68.5 to 98.5. feet below grade. This depth coincides with, and targets, the highest remaining impacts in the Upper Glacial aquifer, based upon the results of PWGC's 2014 vertical profile investigation. System mass removal rates increased to the highest since 2008 indicating that the new extraction wells (Upper Glacial Extraction Well No. 3 and Magothy Extraction Well No. 4) are effectively treating the remaining groundwater impact. In March 2015, both off-Site extraction wells (Upper Glacial Extraction Well No. 1 and Magothy Extraction Well No. 2) were decommissioned and abandoned. Due to a drop in the PCE removal rate, the onsite SVE system was put on a pulsed pumping schedule (i.e., 2 weeks on, 2 weeks off) in 2016.

2.0 OPERATION, MAINTENANCE AND MONITORING (OM&M) PROGRAM COMPLIANCE

An annual evaluation of site conditions has been conducted. The OM&M plan implemented for the site during the period documented by this PRR consisted of the following activities:

Monitoring Program	Frequency
Collect synoptic groundwater measurements from groundwater monitoring wells	Monthly (Nov 2018-Sep 2019) Quarterly (4th Qtr 2019 & 1st Qtr 2020)
Collect influent and effluent samples from the groundwater remedial system	Monthly
Maintenance/corrective actions	Monthly
Collect influent samples from each individual extraction well	Quarterly
Collect influent samples from the SVE system	Quarterly (4th Qtr 2018-3rd Qtr 2019) *Biannual ((4th Qtr 2019 & 1st Qtr 2020)
Collect groundwater samples from active monitoring wells, the SCDHS monitoring well, and the Multi-Level Well	Every 5th Quarter

*Biannual SVE influent sample collection did not occur during this reporting period.

As approved by the NYSDEC in January 2019, quarterly reports documenting OM&M implementation were eliminated; only analytical results were submitted to the NYSDEC under a cover letter each quarter of the period documented by this PRR. Instead, applicable O&M activities, remedial system repairs, monitoring well gauging results and data associated with the remedial systems are provided in this document.

As approved by the NYSDEC during the 4th Quarter of 2019, the frequency of the collection of synoptic groundwater measurements from groundwater monitoring wells was reduced from monthly to quarterly, and the frequency of the collection of SVE system influent samples was reduced from quarterly to biannual.

A site-wide inspection was performed on November 6, 2019 by Regina Bykov, a representative of PWGC, and by Steven Scharf, a representative of NYSDEC. The engineering controls (ECs) currently identified at the site include a groundwater remediation system and an SVE system.

The groundwater remediation and SVE systems, as well as the associated groundwater monitoring wells, were inspected for signs of damage. The systems and monitoring wells appeared to be in good condition and no corrective actions were identified. The results of the inspection were recorded on the Periodic Review Inspection Form, which is provided in **Appendix A**.

3.0 REMEDIAL SYSTEM MONITORING AND SAMPLING

3.1 GROUNDWATER LEVEL GAUGING

Groundwater level measurements for this reporting period were obtained by PWGC on November 19, and December 18, 2018; on January 15, February 13, March 12, April 23, May 16, June 11, July 31, August 19, September 16, and October 23, 2019; and on March 5, 2020. As previously noted in Section 2.0, the frequency of groundwater level gauging was reduced from monthly to quarterly during the 4th Quarter of 2019.

3.1.1 Groundwater Level Gauging Procedure

An interface probe is slowly lowered into the well. Care is taken to prevent it from splashing into the liquid as it will take some time to stabilize. The interface probe will make two different sounds depending on the liquid it is in. A solid tone denotes non-aqueous phase liquid (NAPL - product) and a beeping tone denotes water. Measurements are collected for the depth to water and the depth to the bottom of the well. Significant digits are important – the interface probe measures up to hundredths of a foot; therefore, measurements should be recorded as such. Accuracy is also important - these measurements are used to determine groundwater flow direction and could affect a regulator's review of the data.

3.1.1 Groundwater Level Gauging Results

Groundwater elevations were observed to range from 56.57 feet in groundwater monitoring well SP-4 (December 18, 2018) to 62.37 feet in groundwater monitoring well MW-6 (June 11, 2019). Refer to **Table 1 – November 2018 – March 2020 Groundwater Elevation Results**.

Data retrieved on March 5, 2020 were used to generate a groundwater elevation contour map for the groundwater flow. Refer to **Figure 2 – Groundwater Contour Map**. The groundwater flow direction has been consistently observed towards south-southeast during this reporting period and is consistent with previous period's observations.

3.2 REMEDIAL SYSTEM GROUNDWATER SAMPLING

Remedial system influent and effluent groundwater samples were collected on November 19 and December 18, 2018; on January 15, February 13, March 12, April 23, May 16, June 11, July 31, August 19, September 16, October 23, November 21, and December 30, 2019; and on January 29, February 20, and March 17, 2020.

Influent samples from the onsite Magothy Aquifer (MA) extraction well and onsite Upper Glacial Aquifer (UGA) extraction wells were collected on November 19, 2018; on February 13, May 16, August 19, and November 21, 2019; and on March 17, 2020.

3.2.1 Remedial System Groundwater Sampling Procedure

Prior to sample collection, the sampling port (influent or effluent) is opened and drained for five minutes. Water drained from the sample ports is collected and filtered through the remedial system after all samples are collected. Samples are placed in pre-cleaned laboratory supplied glassware provided by Pace Analytical, placed in a cooler packed with ice, and delivered to Pace under proper chain-of-custody.

3.2.2 Remedial System Groundwater Sampling Analytical Results

Influent and effluent system samples were collected and analyzed for VOCs, pH, and total iron. Results were compared to the NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA groundwater. Total iron is analyzed to evaluate and mitigate potential impacts of iron fouling to the air stripper packing and to the extraction wells. Analytical results were reported to the NYSDEC on a quarterly basis for this reporting period with results-only deliverables. Analytical data sheets are contained in **Appendix B.**

Analytical results for the groundwater remedial system are summarized in **Table 2 – Groundwater Remedial System Influent & Effluent Sample Results Summary, Table 3 – Groundwater Remedial System Contaminant Mass Removal,** and **Table 4 – Groundwater Remedial System Contaminant Mass Removal for Individual Extraction Wells.**

Parameters quantified from routine groundwater remedial system influent and effluent sampling are presented in **Table 2.** Combined system influent TVOC concentrations ranged from 2,168 µg/L in March 2019 to 874 µg/L in June 2019. Combined system effluent results were reported as non-detect or below NYSDEC effluent standards for twelve of the eighteen monthly sampling events. PCE was detected at in the combined system effluent result for January 2019 at a concentration of 65µg/L. While historical and recent data suggest this result is an anomaly, minor exceedances of the 5 µg/L NYSDEC effluent limitation for PCE were also detected in the combined system effluent in February 2019 (6.3 µg/L), November 2019 (6.8 µg/L) and March 2020 (5.3 µg/L). PWGC is currently addressing these minor exceedances with treatment system blower adjustments and will closely monitor the effectiveness of these adjustments over the next several months.

Influent concentrations of PCE and TVOCs are trending downward and are depicted in **Graph 1 - Tetrachloroethylene Concentrations Combined RW System Influent** and **Graph 2 - Total Volatile Organic Concentrations Combined RW System Influent**.

The downward trend in each of these graphs is largely driven by the high initial concentrations of PCE and TVOCs and rapid decline in influent concentrations during the first few months of

operation. Although a slight downward trend is evident during this reporting period, the difference between the highest and lowest detected concentrations is less than 1,300 µg/L.

Mass removal calculations were used to determine the mass of PCE and TVOCs removed by the groundwater remediation system. Refer to **Table 3**. The mass removal calculations are based upon analytical data obtained from November 2018 through March 2020. Approximately 39,131 pounds of PCE has been removed by the groundwater remedial system since it began operation, and approximately 1,120 pounds of PCE was removed during this reporting period. Approximately 40,659 pounds of TVOCs has been removed by the groundwater remedial system since it began operation, and approximately 1,133 pounds of TVOCs was removed during this reporting period.

Mass removal of PCE and TVOCs for the individual aquifers (MA and UGA) is shown in **Table 4**. Historically, higher mass removals have occurred in the UGA. Analytical data collected during this monitoring period is consistent with this observation and indicate that a greater mass removal continues to occur at the UGA.

A graph reflecting the mass removal rate for PCE (in pounds per day) is included as **Graph 3 – Tetrachloroethylene Removal Rates January 2008 through March 2020 Combined GW System Influent.** A significant increase in the removal rate of PCE was noted in 2015 when a new UGA extraction well was installed. The observation seems to indicate that the onsite wells have been located within the contamination source area and are effectively treating the underlying groundwater contamination. As further discussed in Section 4.0, a decrease in the PCE removal rate noted during the period of April 23, 2019 to June 11, 2019 was due to UGA extraction well downtime and associated maintenance and components replacement.

The influent flow rate widely ranged from 25 gallons per minute (gpm) to 139 gpm due to iron fouling and the associated system downtime and maintenance discussed in Section 4.0. A sharp decline in the flow rate was first noted in February 2019 when it dropped to 85 gpm. During the period of April 23, 2019 to June 11, 2019, the influent flow rate dropped to 25 gpm as a result of the UGA extraction well being shut down. The UGA extraction well was subsequently cleaned and the associated pump and motor were replaced. This maintenance and components replacement resulted in a noted increase in flow rate in July 2019 (107gpm) and August 2019 (111 gpm); however, flow rates remained lower than normal due to iron fouling within the MA extraction well. The MA extraction well was cleaned, and a new pump was installed between September 3 and 5, 2019; however, the influent flow rate dropped to 80 gpm in September 2019 as a result of the MA extraction well being down. A new MA extraction well motor was installed on October 1, 2019 and subsequent influent flow rates returned to normal levels. Outside of the maintenance and component replacement period discussed above (February 2019 to September 2019), influent flow

rates ranged from 129 to 139 gpm. PWGC continues to monitor the flow and, as further discussed in Section 4.0, is currently looking into methods to address the iron fouling issue.

3.3 SVE SYSTEM SAMPLING

A sample from the SVE system was collected on December 18, 2018; and March 12, June 11, and September 16, 2019. As previously noted in Section 2.0, the frequency of SVE influent sample collection was reduced from quarterly to biannual during the 4th Quarter of 2019.

3.3.1 SVE Sampling Procedure

Each sample was collected using a laboratory clean 2.7-liter Summa® vacuum canister connected directly to the sample port with polyethylene tubing. Once connected, the sample port and the Summa® canister was opened and a grab sample was collected. Canisters were transported under proper chain of custody procedures to Pace Analytical for analysis by EPA method 200.7 for VOCs.

The sample was analyzed for VOC's by EPA Method TO-15 with results only deliverables. Analytical results for SVE system sampling are included in **Appendix C**.

3.3.2 SVE Analytical Results

SVE system samples were collected and analyzed for TVOCs. Results were compared to the NYSDEC Ambient Air Quality Standards. Analytical results for the SVE system are summarized in **Table 5 – SVE Historic Influent Results** and **Table 6 – SVE Remedial System Contaminant Mass Removal.**

In the *October 2015 – June 2016 Groundwater Sampling Report*, PWGC recommended placing the SVE system on a pulse pump schedule because PCE concentrations dropped to pre-2015 levels. The SVE system has been operating on a pulse pump schedule (two weeks on, two weeks off) since September 26, 2016.

Analytical results for TVOCs are reported as 1,901 µg/m^3 in December 2018, 2,302 µg/m^3 in March 2019, 872 µg/m^3 in June 2019 and 1,569 µg/m^3 in September 2019. Refer to **Table 5**. These results are consistent with recent historic data associated with the SVE system.

Mass removal calculations were used to determine the mass of TVOCs, including PCE, removed by the SVE system. Refer to **Table 6**. The mass removal calculations are based on analytical data collected during this reporting period. Approximately 29.44 pounds of TVOCs has been removed by the SVE system during this reporting period. Approximately 5,387 pounds have been removed by the SVE system since it began operation. This is greater than the original estimated mass

released. The average TVOCs removed during this reporting period with both SVE wells operating is 0.0021 pounds per hour (lb./hr.). This rate is below the emission guidance of 1.0 lb./hr.

3.4 GROUNDWATER MONITORING WELL SAMPLING

Groundwater monitoring well sampling is performed every five quarters. The fifth quarter groundwater monitoring well sampling was conducted on March 5, 2020 for this reporting period. With the exception of SP-5, PWGC sampled each of the groundwater monitoring wells and the multi-level well as specified in the approved OM&M Program. Groundwater monitoring well SP-5 was not sampled because a dumpster was located on top of the well, making it inaccessible. The sampling was performed in accordance with the procedures outlined in the existing *March 1994 Quality Assurance Project Plan (QAPP)*.

3.4.1 Groundwater Monitoring Well Procedure

Groundwater samples are collected from each monitoring well at the Site. Samples are collected using a submersible pump fitted with dedicated polyethylene tubing. Samples are collected using the low flow sampling method. Wells are purged at a maximum rate of 200 mL/minute. A Horiba U-52 multi-parameter water quality meter outfitted with a flow through cell is utilized to monitor field parameters (turbidity, pH, temperature, and conductivity) at three to five-minute intervals. Upon stabilization of field parameters (three consecutive readings within allowable tolerances) groundwater samples are collected. Groundwater samples are collected from groundwater monitoring wells and analyzed by Pace Analytical for VOCs by EPA Method 8260.

3.4.2 Groundwater Monitoring Well Analytical Results

The compounds quantified from the March 5, 2020 groundwater sampling for each well are presented in **Table 7 – First Quarter 2020 Groundwater Sampling Results**, **Table 8 – Monitoring Well History PCE Concentrations,** and **Table 9 - Multi-Level Well Historical Sampling Results**. Analytical results are included in **Appendix D**.

Monitoring well groundwater samples collected during this reporting period were analyzed for volatile organic compounds (VOCs) designated in the NYSDEC Effluent Limitations and Monitoring Requirements by EPA Method 8260, with results only deliverables.

All parameters were either not detected or detected at concentrations below their respective NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA groundwater. Refer to **Table 7**. Based upon these results, PWGC concludes that the contamination source area is defined properly, and the extraction wells are effectively containing the contamination.

Historic PCE concentrations are shown in **Table 8**.

3.4.3 Multi-level Well Analytical Results

PWGC sampled three select intervals of the multi-level groundwater monitoring well (ML-1):

- Interval A @ 149.5 to 150 feet below grade
- Interval B @ 139.5 to 140 feet below grade
- Interval C @ 129.5 to 130 feet below grade

As shown in **Table 9**, PCE, TCE and DCE were not reported above their respective guidance values.

4.0 REMEDIAL SYSTEM MAINTENANCE, REPAIRS, AND UPGRADES

As previously discussed in Section 3.2.2, the groundwater remediation system performance was affected by iron fouling during this reporting period. As a result, the UGA extraction well either underperformed or was down completely for several months in early to mid-2019. On July 9-10, 2019, the UGA extraction well was cleaned and the associated pump and motor were replaced. Iron fouling was also an issue for the MA extraction well, which was cleaned on September 3-5, 2019. During this time, a new pump was installed in the MA extraction well with the existing motor. The MA extraction well was noted to be off due to an overload alarm on September 16, 2019; and as a result, a new motor was installed for the associated pump on October 1, 2019. PWGC is currently looking into solutions to resolve the iron fouling issue.

Additional repairs during this reporting period were limited to sealing small corrosion holes in the SVE system moisture separator drum with epoxy seal on October 31, 2019.

5.0 EMERGING CONTAMINANTS GROUNDWATER SAMPLING

As documented in the 2018 PRR, MW-3, MW-6, and SP-6 were sampled for emerging contaminants, polyfluoroalkyl substances (PFAS) and 1,4-dioxane, during the October 16, 2018 monitoring well sampling event. Sampling for these compounds was requested by the NYSDEC and is part of a statewide initiative to sample remediation sites. Refer to **Figure 3** for the well locations. The NYSDEC did not request sampling for emerging contaminants during this reporting period.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater monitoring data indicates that the groundwater extraction wells are located directly within the contaminant source area and the source of contamination is being effectively contained and removed by the system. Since these new groundwater extraction wells have been placed into operation, influent PCE concentrations have been observed to be approaching steady state values.

PWGC is currently looking into solutions to resolve the iron fouling issue, which has negatively affected the groundwater treatment system performance. PWGC recommends that system performance continue to be closely monitored on a monthly basis to determine if an applicable treatment is necessary; and/or if additional extraction well maintenance (e.g., well cleaning, pump and motor maintenance, etc.) is needed.

At this time, it is PWGC's opinion that mass removal by the SVE system has been fairly consistent, with the exception of periodic elevated results due to the system's pulse pump schedule. Per the NYSDEC's approval, PWGC reduced the sampling frequency from quarterly (4) to biannually (2 annual events) during the 4th Quarter of 2019. PWGC recommends continuation of the biannual sampling schedule.

PWGC recently completed a soil investigation in accordance with the NYSDEC-approved *Soil Investigation of Historical Source Area Work Plan* (PWGC, March 2020) for the Minmilt Realty site. The primary objective of this investigation was to collect the information and field data necessary to verify remediation of the PCE source area in support of site closure. The scope of the investigation included a geophysical survey and the characterization of soil in the PCE source area located in the driveway and parking area east and southeast of the onsite building. The results of this investigation will be provided to the NYSDEC in a separate report.

The site-wide inspection and ongoing OM&M documented in this PRR show that the IRM remedy continues to be effective in protecting public health and the environment.

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TABLES

TABLE 1
November 2018 - March 2020
Groundwater Elevation Results

SOURCE	CASING ELEVATION	November 19, 2018		December 18, 2018		January 15, 2019		February 13, 2019		March 12, 2019		April 23, 2019		May 16, 2019		June 11, 2019		July 31, 2019		August 19, 2019		September 16, 2019		October 23, 2019		1st Quarter 2020	
		DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE
MW-1	99.22	40.74	58.48	40.01	59.21	38.86	60.36	38.19	61.03	37.91	61.31	37.30	61.92	36.91	62.31	36.88	62.34	37.46	61.76	37.77	61.45	38.29	60.93	38.81	60.41	38.46	60.76
MW-2	98.80	40.65	58.15	39.96	58.84	38.74	60.06	38.11	60.69	37.84	60.96	37.15	61.65	36.77	62.03	36.74	62.06	37.44	61.36	37.73	61.07	38.27	60.53	38.77	60.03	37.35	61.45
MW-3	98.08	40.09	57.99	39.40	58.68	38.17	59.91	37.53	60.55	37.26	60.82	36.52	61.56	36.16	61.92	36.11	61.97	36.89	61.19	37.16	60.92	37.73	60.35	38.22	59.86	37.76	60.32
MW-4	97.44	---	---	40.87	56.57	37.60	59.84	---	---	36.69	60.75	35.54	61.90	---	---	35.58	61.86	36.31	61.13	36.56	60.88	37.14	60.30	37.63	59.81	37.25	60.19
MW-5	99.12	40.85	58.27	40.16	58.96	38.96	60.16	38.33	60.79	38.07	61.05	37.39	61.73	36.84	62.28	36.97	62.15	37.65	61.47	37.92	61.20	38.47	60.65	38.91	60.21	38.56	60.56
MW-6	99.28	40.75	58.53	39.98	59.30	38.82	60.46	38.18	61.10	37.89	61.39	37.31	61.97	36.92	62.36	36.91	62.37	37.45	61.83	37.74	61.54	38.26	61.02	38.74	60.54	38.41	60.87
MW-7	98.09	40.51	57.58	---	---	38.22	59.87	---	---	37.36	60.73	36.58	61.51	36.23	61.86	36.22	61.87	36.95	61.14	---	---	37.77	60.32	38.26	59.83	37.86	60.23
MW-8	97.87	---	---	41.18	56.69	38.02	59.85	37.37	60.50	37.09	60.78	---	---	---	---	---	---	36.77	61.10	---	---	---	---	---	---	37.64	60.23
MW-9	95.93	38.35	57.58	37.42	58.51	36.24	59.69	35.29	60.64	35.33	60.60	34.82	61.11	34.42	61.51	34.41	61.52	---	---	---	---	---	---	36.85	59.08	35.85	60.08
SP-3	96.30	38.72	57.58	37.88	58.42	36.66	59.64	35.65	60.65	35.78	60.52	35.21	61.09	34.83	61.47	34.75	61.55	35.47	60.83	35.78	60.52	36.32	59.98	36.87	59.43	36.50	59.80
SP-4	97.71	40.24	57.47	39.43	58.28	38.21	59.50	37.58	60.13	37.33	60.38	36.69	61.02	36.35	61.36	36.33	61.38	37.02	60.69	37.29	60.42	37.86	59.85	38.41	59.30	38.00	59.71
SP-5	96.72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SP-6	99.68	42.19	57.49	41.37	58.31	40.17	59.51	40.04	59.64	39.25	60.43	38.65	61.03	38.28	61.40	38.26	61.42	38.92	60.76	39.19	60.49	39.79	59.89	40.31	59.37	39.94	59.74
GW-1	99.70	41.61	58.09	40.77	58.93	39.60	60.10	38.93	60.77	38.67	61.03	38.06	61.64	37.69	62.01	37.69	62.01	---	---	---	---	---	---	39.54	60.16	39.22	60.48
GW-2	100.30	42.69	57.61	41.89	58.41	40.68	59.62	39.54	60.76	39.77	60.53	39.17	61.13	38.82	61.48	38.77	61.53	39.45	60.85	39.73	60.57	40.29	60.01	40.82	59.48	40.45	59.85
GW-3	100.55	42.90	57.65	42.10	58.45	40.92	59.63	40.26	60.29	40.02	60.53	39.38	61.17	39.02	61.53	39.00	61.55	39.67	60.88	39.96	60.59	40.53	60.02	41.17	59.38	39.65	60.90
SCDHS	NS	37.09	---	36.09	---	34.81	---	34.12	---	33.98	---	33.44	---	33.14	---	33.05	---	33.89	---	34.16	---	34.77	---	35.44	---	34.94	---
Upper Glacial	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Magothy	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
Highlighted text denotes lowest groundwater elevation for the month
Highlighted text denotes highest groundwater elevation for the month
GWE = Groundwater Elevation
DTW = Depth to Water
NS = Not Surveyed
NM = Not Monitored / Inaccessible

TABLE 2
Groundwater Remedial System
Influent Effluent Sample Results Summary
November 2018 - March 2020

Parameters	Units	November 2018				December 2019		January 2019		February 2019				March 2019		April 2019		May 2019				June 2019		July 2019		August 2019				September 2019		October 2019		November 2019				December 2019		January 2020		February 2020		March 2020				NYSDEC
		Combined System Influent	Onsite Upper Glacial Influent	Onsite Magothy #4 Influent	Combined System Effluent	Combined System Influent	Combined System Effluent	Combined System Influent	Combined System Effluent	Combined System Influent	Onsite Upper Glacial Influent	Onsite Magothy #4 Influent	Combined System Effluent	Combined System Influent	Combined System Effluent	Combined System Influent	Combined System Effluent	Combined System Influent	Onsite Upper Glacial Influent	Onsite Magothy #4 Influent	Combined System Effluent	Combined System Influent	Combined System Effluent	Combined System Influent	Combined System Effluent	Combined System Influent	Onsite Upper Glacial Influent	Onsite Magothy #4 Influent	Combined System Effluent	Combined System Influent	Combined System Effluent	Combined System Influent	Combined System Effluent	Combined System Influent	Onsite Upper Glacial Influent	Onsite Magothy #4 Influent	Combined System Effluent	Combined System Influent	Combined System Effluent	Combined System Influent	Combined System Effluent	Combined System Influent	Combined System Effluent	Combined System Influent	Onsite Upper Glacial Influent	Onsite Magothy #4 Influent	Combined System Effluent	Effluent Limitations
Iron as Fe	mg/L	0.49	0.55	0.71	0.18	0.39	0.34	0.55	0.70	0.65	0.53	1.96	0.99	0.46	0.49	<0.1	<0.1	<0.1	NC	NC	<0.1	<0.1	<0.1	0.65	0.27	0.56	0.63	8.01	0.29	0.58	0.27	0.30	0.23	0.15	0.91	0.34	0.31	0.26	0.12	0.48	1.02	0.222	0.116	0.201	0.696	0.107	<0.1	NS
pH (Lab)	n/a	6.4	6.7	6.2	8.0	7.1	6.5	6.6	7.6	5.9	6.0	5.8	7.4	5.8	7.0	5.9	7.2	6.1	NC	NC	7.5	5.6	7.1	5.4	6.8	5.7	5.9	5.6	7.1	6.4	7.5	6.0	7.2	6.0	6.0	5.8	7.2	6.1	7.6	6.1	7.4	6.2	7.6	6.1	6.2	6.0	7.6	5.5-8.5
Toluene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NC	NC	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<20	<20	<1.0	<1.0	<1.0	<10	<1.0	<10	<10	<10	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
m + p Xylene	µg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NC	NC	<3.0	<3.0	<3.0	<3.0	<3.0	<60	<60	<60	<3.0	<3.0	<3.0	<30	<3.0	<30	<30	<30	<3.0	<3.0	<30	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5
t,1-Dichloroethene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NC	NC	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<20	<20	<1.0	<1.0	<1.0	<10	<1.0	<10	<10	<10	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
Chloromethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NC	NC	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<20	<20	<1.0	<1.0	<1.0	<10	<1.0	<10	<10	<10	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
Chloroform	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NC	NC	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<20	<20	<1.0	<1.0	<1.0	<10	<1.0	<10	<10	<10	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7
1,1,1-Trichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NC	NC	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<20	<20	<1.0	<1.0	<1.0	<10	<1.0	<10	<10	<10	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
1,2-Dichloroethene (total)	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NC	NC	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<40	<40	<2.0	<2.0	<2.0	<20	<2.0	<20	<20	<20	<2.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5
Tetrachloroethene	µg/L	1,090	1,190	704	<1.0	1470	<1.0	935	65.0	1,520	1,990	1,130	6.30	2150	<1.0	1180	<1.0	980	NC	NC	<1.0	869	<1.0	1610	1.5	1420	1600	950	1.2	1720.0	<1.0	1370.0	4.4	1460.0	1880.0	1200.0	6.8	1280.0	3.7	1,410	2.9	1210	3.0	1170	1400	1070	5.3	5
Trichloroethylene	µg/L	23.8	27.4	6.1	<1.0	23.7	<1.0	19.8	<1.0	18.6	22.4	6.1	<1.0	18.4	<1.0	5.0	<1.0	6.5	NC	NC	<1.0	4.9	<1.0	25.2	<1.0	22.8	24.5	<20	<1.0	23.2	<1.0	12.4	<1.0	11.6	19.2	<10	<1.0	11.8	<1.0	12.8	<1.0	11.1	<1.0	6.9	21.1	4.3	<1.0	5
TVOC's	µg/L	1,114	1,217	710	<1.0	1,494	<1.0	955	65.0	1,539	2,012	1,136	6.3	2,168	<1.0	1,185	<1.0	987	NC	NC	<1.0	874	<1.0	1,635	1.5	1,443	1,625	950	1.2	1,743	<1.0	1,382	4.4	1,472	1,899	1,200	6.8	1,292	3.7	1,423	2.9	1221	3.0	1177	1421	1074	5.3	

NC - Not Collected
NS - No Standard
ND - Not Detected
<1.0 - Result is less than the laboratory reporting limit
mg/L - milligrams per liter
µg/L - micrograms per liter
Highlighted text denotes exceedance of NYSDEC Effluent Limitations

TABLE 3
Groundwater Remedial System
Contaminant Mass Removal

Sampling Date	Days of Operation	Average flow rate	Tetrachloroethene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
2/11/1997	7	190	19000	137.75	20000	145.00
2/18/1997	12	190	7400	91.97	7924	98.48
3/7/1997	6	190	9400	58.41	9840	61.15
3/13/1997	6	190	9700	60.28	10229	63.56
3/21/1997	8	190	7000	58.00	7503	62.17
3/27/1997	6	190	7900	49.09	8240	51.20
4/4/1997	8	206	8700	78.15	9090	81.66
4/10/1997	6	206	9300	62.66	9722	65.50
4/18/1997	8	206	6200	55.70	6605	59.33
4/24/1997	6	206	5900	39.75	6321	42.59
4/30/1997	6	206	5000	33.69	5478	36.91
5/9/1997	9	206	5400	54.57	5670	57.30
5/15/1997	6	206	4700	31.67	5180	34.90
5/20/1997	5	206	9200	51.65	9653	54.20
5/30/1997	10	206	3900	43.79	4380	49.18
6/4/1997	5	206	7200	40.42	7660	43.01
6/13/1997	9	206	6900	69.73	7311	73.89
6/19/1997	6	206	6200	41.77	6654	44.83
6/25/1997	6	206	6800	45.81	7193	48.46
7/2/1997	7	220	6200	52.05	6599	55.40
7/11/1997	9	220	6000	64.76	6395	69.02
7/16/1997	5	220	6900	41.37	7383	44.27
7/23/1997	7	220	4600	38.61	5005	42.01
8/1/1997	9	220	6300	68.00	6637	71.63
8/8/1997	7	220	7,000	58.76	7341	61.62
8/15/1997	7	220	5900	49.53	6243	52.41
8/26/1997	11	220	7000	92.34	7322	96.59
9/3/1997	7	220	6100	51.21	6365	53.43
9/9/1997	6	220	3900	28.06	4165	29.97
10/31/1997	52	220	5400	336.74	5604	349.46
11/21/1997	21	220	6100	153.62	6325	159.29
12/15/1997	45	220	5500	296.81	5711	308.19
1/30/1998	46	190	4200	200.10	4,420	210.58
2/23/1998	24	190	5,800	144.17	6,072	150.93
3/16/1998	20	190	4,200	87.00	4,571	94.68
4/21/1998	29	220	4,500	156.50	5,010	174.23
5/14/1998	22	220	3,100	81.79	3,659	96.53
6/29/1998	46	220	10,000	551.64	10,547	581.82
7/30/1998	31	220	5,400	200.75	5,900	219.34
8/21/1998	22	220	3,800	100.25	4,260	112.39
9/17/1998	28	220	5,100	171.25	5,631	189.08
10/27/1998	40	220	5,636	270.37	6,137	294.36
11/23/1998	27	220	5,000	161.89	5,420	175.49
12/22/1998	36	220	4,700	202.91	4,990	215.43
1/20/1999	29	220	4,900	170.41	5,211	181.22
2/24/1999	35	220	6,991	293.43	7,420	311.46
3/23/1999	27	220	4,500	145.71	4,990	161.57
4/26/1999	34	220	5,300	216.10	5,710	232.82
5/28/1999	32	220	4,800	184.20	5,065	194.37
6/29/1999	32	220	4,500	172.69	4,766	182.90
7/28/1999	29	168	5,000	132.79	5,225	138.76
8/19/1999	22	168	5,400	108.79	5,651	113.85
10/13/1999	55	120	6,100	219.46	6,277	225.82
11/10/1999	12	120	6,400	50.24	6,571	51.58
12/16/1999	33	120	4,900	105.77	5,044	108.88
1/18/2000	21	120	3,900	53.57	4,047	55.59
2/15/2000	26	120	4,600	78.23	4,828	82.11
3/20/2000	28	120	5,600	102.57	5,817	106.54
4/25/2000	34	150	3,800	105.64	3,953	109.89
5/26/2000	31	150	5,200	131.81	5,433	137.71
8/3/2000	55	170	4,500	229.35	4,886	249.02
9/27/2000	55	170	3,200	163.09	3,480	177.36
11/27/2000	60	170	2,700	150.12	2,940	163.46
12/21/2000	24	170	2,600	57.82	2,817	62.65
1/25/2001	35	180	2,600	89.29	2,768	95.06
2/27/2001	33	180	2,500	80.95	2,665	86.29
3/29/2001	26	180	2,600	66.33	2,901	74.01
4/27/2001	29	180	3,100	88.21	3,475	98.88
5/30/2001	33	180	2,400	77.71	2,703	87.52
6/28/2001	28	180	2,800	76.92	3,091	84.92
7/26/2001	29	180	2,700	76.83	2,990	85.08
8/23/2001	28	180	2,800	76.92	3,013	82.78
9/27/2001	35	180	2,300	78.98	2,465	84.65
11/2/2001	36	180	3,700	130.69	3,888	137.33
11/27/2001	25	180	2,400	58.87	2,530	62.06
12/19/2001	22	180	2,100	45.33	2,215	47.81
1/30/2002	42	180	2,200	90.66	2,283	94.08
2/27/2002	23	180	2,000	45.13	2,064	46.58
3/26/2002	27	180	2,700	71.53	2,748	72.80
4/24/2002	29	180	2,700	76.83	2,747	78.16
5/29/2002	30	180	6,000	176.61	6,013	176.99
6/26/2002	26	180	3,000	76.53	3,069	78.29
8/6/2002	40	180	2,700	105.97	2,751	107.97
8/30/2002	24	180	3,300	77.71	3,388	79.78
9/26/2002	27	180	2,600	68.88	2,653	70.28
10/30/2002	34	180	2,700	90.07	2,751	91.77
11/26/2002	16	180	3,300	51.81	3,388	53.19
1/3/2003	28	100	2,600	39.68	2,653	40.49
2/4/2003	21	100	4,000	45.79	4,057	46.44
7/7/2003	56	160	1,200	58.61	1,310	63.98
8/26/2003	48	160	2,100	87.91	2,173	90.97
9/30/2003	35	160	900	27.47	955	29.15
10/28/2003	28	160	260	6.35	266	6.50
12/1/2003	28	160	2,500	61.05	2,557	62.44
12/15/2003	14	160	2,000	24.42	2,033	24.82
1/20/2004	36	160	1,900	59.66	1,932	60.66
2/26/2004	37	160	220	7.10	259	8.36
3/30/2004	33	160	2,000	57.56	2,045	58.86
4/27/2004	28	160	2,400	58.61	2,446	59.73
5/17/2004	20	160	1,900	33.14	1,928	33.63
6/30/2004	44	160	2,100	80.59	2,142	82.20
8/13/2004	44	150	2,400	86.34	2,446	88.00
9/24/2004	42	150	2,900	99.59	2,945	101.14
10/21/2004	27	150	3,100	68.44	3,143	69.39
11/23/2004	33	150	3,200	86.34	3,243	87.50
12/10/2004	17	150	2,500	34.75	2,556	35.53
1/26/2005	47	60	2,500	38.43	2,550	39.20
2/10/2005	15	60	3,000	14.72	3,047	14.95
3/16/2005	34	60	3,600	40.03	3,654	40.63
4/22/2005	37	60	2,900	35.09	2,949	35.69
5/17/2005	25	60	2,200	17.99	2,245	18.36
6/27/2005	41	60	2,900	38.89	2,900	38.89
7/28/2005	31	65	3,200	35.15	3,256	35.76
8/23/2005	26	65	3,100	28.56	3,139	28.92
9/28/2005	36	65	2,500	31.89	2,544	32.45
10/19/2005	21	63	2,500	18.03	2,548	18.38
11/10/2005	22	63	2,800	21.15	2,840	21.46
12/15/2005	35	63	2,600	31.25	2,651	31.86
1/10/2006	26	130	3,100	57.12	3,144	57.93
3/27/2006	23	130	2,700	44.01	2,728	44.46
4/20/2006	24	180	2,000	47.10	2,027	47.73
5/19/2006	29	180	1,500	42.68	1,525	43.39
6/30/2006	42	180	1,400	57.69	1,427	58.81
7/20/2006	18	176	1,600	27.63	1,627	28.10
8/11/2006	20	176	1,700	32.62	1,727	33.14
9/26/2006	25	176	3,400	81.55	3,455	82.87
10/23/2006	27	160	2,000	47.10	2,028	47.76
11/7/2006	15	160	2,800	36.63	2,861	37.43
12/21/2006	44	160	1,800	69.07	1,828	70.15
1/5/2007	15	152	2,100	26.10	2,127	26.43
2/6/2007	32	152	1,600	42.42	1,627	43.14
3/22/2007	44	152	1,800	65.62	1,829	66.68
4/5/2007	14	150	1,700	19.46	1,734	19.85
5/3/2007	28	150	1,600	36.63	1,631	37.34
6/20/2007	48	150	4,400	172.69	4,429	173.83
7/11/2007	21	147	1,900	31.97	1,932	32.51
8/8/2007	28	147	3,300	74.04	3,325	74.60
9/27/2007	50	147	3,900	156.25	3,979	159.42
10/12/2007	15	152	2,500	31.07	2,530	31.44
11/6/2007	25	143	2,000	38.97	2,025	39.46
12/11/2007	35	142	2,700	73.15	2,739	74.20
1/5/2008	25	140	2,100	40.06	2,128	40.60
2/6/2008	32	120	2,000	41.86	2,023	42.35
3/31/2008	54	120	2,100	74.18	2,127	75.13
4/23/2008	23	122	1,600	24.47	1,625	24.86

TABLE 3
Groundwater Remedial System
Contaminant Mass Removal

Sampling Date	Days of Operation	Average flow rate	Tetrachloroethene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
5/20/2008	27	122	1,700	30.52	1,726	30.99
6/17/2008	28	108	1,900	31.32	1,927	31.76
7/8/2008	21	102	1,900	22.18	1,931	22.55
8/6/2008	29	115	1,800	32.72	1,828	33.23
9/29/2008	54	112	2,500	82.42	2,547	83.97
10/14/2008	15	96	1,900	14.91	1,922	15.09
11/24/2008	41	118	1,900	50.11	1,923	50.71
12/18/2008	24	110	2,900	41.73	2,940	42.31
1/9/2009	22	110	1,800	23.74	1,821	24.02
2/20/2009	42	106	1,900	46.11	1,919	46.57
3/17/2009	25	105	1,800	25.76	1,823	26.09
4/16/2009	30	104	1,800	30.61	1,821	30.97
5/13/2009	27	108	1,900	30.20	1,922	30.55
6/11/2009	29	108	1,900	32.44	1,922	32.81
7/29/2009	48	112	4,800	140.66	4,849	142.10
8/27/2009	29	108	2,200	37.56	2,219	37.88
9/30/2009	34	104	1,900	36.62	1,924	37.08
10/22/2009	22	90	2,000	21.59	2,025	21.86
11/9/2009	17	90	2,100	17.51	2,121	17.69
12/16/2009	12	90	2,300	13.54	2,322	13.67
1/19/2010	20	95	4,600	47.64	4,616	47.81
2/11/2010	23	95	1,600	19.06	1,637	19.50
3/17/2010	34	95	3,600	63.38	3,658	64.41
4/19/2010	10	100	3,100	16.90	3,454	18.83
5/18/2010	29	100	2,100	33.20	2,127	33.62
6/16/2010	29	100	2,000	31.62	2,026	32.03
7/8/2010	22	96	1,900	21.87	1,927	22.18
8/6/2010	29	95	2,000	30.03	2,021	30.35
9/23/2010	48	94	2,200	54.11	2,225	54.72
10/25/2010	32	98	2,000	34.19	2,020	34.53
11/10/2010	16	90	2,200	17.27	2,220	17.43
12/8/2010	28	92	2,200	30.89	2,205	30.96
1/24/2011	47	75	2,300	44.19	2,339	44.94
3/17/2011	19	75	3,500	27.19	3,543	27.52
4/26/2011	40	126	2,600	71.43	2,623	72.06
5/31/2011	35	96	2,800	51.28	2,828	51.80
6/15/2011	8	88	6,200	23.79	6,449	24.75
6/28/2011	8	88	3,400	13.05	3,439	13.20
7/26/2011	28	68	4,300	44.63	4,335	44.99
8/11/2011	16	70	2,700	16.48	2,720	16.61
9/27/2011	47	72	2,500	46.12	2,523	46.54
10/20/2011	23	75	2,400	22.57	2,424	22.79
11/14/2011	25	72	2,500	24.53	2,522	24.75
12/15/2011	31	70	2,100	24.84	2,124	25.12
1/5/2012	21	70	2,400	19.23	2,421	19.40
2/17/2012	43	59	2,300	31.81	2,326	32.17
3/12/2012	24	62	2,400	19.47	2,428	19.69
4/23/2012	42	100	3,100	70.97	3,139	71.86
5/25/2012	32	100	2,900	50.59	2,931	51.13
6/14/2012	20	100	3,000	32.71	3,029	33.02
7/23/2012	39	68	1,490	21.54	1,490	21.54
8/9/2012	17	70	3,500	22.70	3,532	22.91
9/11/2012	33	97	2,700	47.11	2,723	47.51
10/2/2012	21	97	3,300	36.64	3,341	37.10
11/26/2012	55	97	2,400	69.79	2,421	70.41
1/9/2013	10	97	3,200	16.92	3,226	17.06
2/15/2013	37	100	1,900	38.32	1,918	38.68
3/21/2013	34	104	2,400	46.26	2,418	46.61
4/17/2013	27	99	2,200	32.06	2,220	32.35
5/23/2013	36	98	3,800	73.08	3,837	73.79
6/24/2013	32	99	2,500	43.17	2,522	43.55
8/6/2013	43	99	4,700	109.06	4,766	110.59
8/28/2013	22	100	3,300	39.57	3,300	39.57
9/19/2013	22	100	2,600	31.18	2,600	31.18
10/28/2013	39	100	2,100	44.64	2,100	44.64
11/15/2013	18	100	2,700	26.49	2,700	26.49
12/17/2013	32	100	2,600	45.35	2,600	45.35
1/29/2014	43	68	2,600	41.44	2,600	41.44
2/28/2014	30	69	2,700	30.47	2,719	30.68
3/28/2014	28	60	2,800	25.64	2,800	25.64
4/23/2014	26	70	2,700	26.79	2,700	26.79
5/15/2014	22	66	2,600	20.58	2,600	20.58
6/9/2014	25	63	2,500	21.46	2,500	21.46
7/9/2014	30	61	2,300	22.94	2,300	22.94
8/28/2014	50	60	1,400	22.89	1,400	22.89
9/29/2014	32	55	2,800	26.86	2,800	26.86
10/28/2014	29	53	5,500	46.08	5,500	46.08
11/24/2014	27	59	2,200	19.10	2,200	19.10
12/15/2014	21	45	3,300	17.00	3,300	17.00
1/12/2015	28	43	2,400	15.75	2,400	15.75
2/12/2015	15	30	2,700	6.62	2,700	6.62
8/12/2015	47	102	4,600	120.21	4,635	121.12
9/18/2015	37	145	4,900	143.30	4,900	143.30
10/23/2015	35	146	4,300	119.77	4,300	119.77
11/25/2015	33	143	1,800	46.30	1,809	46.53
12/30/2015	35	144	5,900	162.09	5,959	163.71
1/29/2016	30	143	2,800	65.48	2,800	65.48
2/25/2016	27	132	2,400	46.63	2,422	47.05
3/18/2016	22	135	3,000	48.57	3,000	48.57
4/18/2016	31	135	2,600	59.31	2,600	59.31
5/16/2016	28	135	2,600	53.57	2,600	53.57
6/14/2016	29	131	2,100	43.49	2,100	43.49
7/19/2016	35	119	2,100	47.68	2,100	47.68
8/17/2016	29	120	2,400	45.53	2,400	45.53
9/19/2016	33	110	2,100	41.55	2,100	41.55
10/11/2016	22	100	1,650	19.79	1,683	20.18
11/22/2016	42	95	1,740	37.84	1,740	37.84
12/21/2016	29	96	1,920	29.14	1,920	29.14
1/25/2017	35	110	2,330	48.90	2,356	49.44
2/16/2017	22	110	2,640	34.83	2,640	34.83
3/16/2017	28	105	2,600	41.67	2,761	44.25
4/18/2017	33	109	2,510	49.21	2,622	51.41
5/19/2017	31	110	1,690	31.41	1,690	31.41
6/16/2017	28	104	1,910	30.32	2,001	31.76
7/18/2017	32	101	1,870	32.94	1,890	33.30
8/21/2017	34	105	1,840	35.81	1,840	35.81
10/2/2017	42	115	2,540	66.87	2,580	67.93
10/16/2017	14	120	2,810	25.73	2,852	26.12
11/17/2017	32	121	2,490	52.55	2,490	52.55
12/13/2017	26	124	1,970	34.62	1,991	34.99
1/15/2018	33	123	1,810	40.05	1,832	40.53
2/13/2018	29	127	1,630	32.72	1,651	33.15
3/26/2018	41	130	1,550	45.03	1,550	45.03
4/19/2018	24	131	2,080	35.65	2,106	36.09
5/17/2018	28	132	1,580	31.83	1,580	31.83
6/14/2018	28	128	1,930	37.71	1,953	38.15
7/19/2018	35	129	1,200	29.53	1,200	29.53
8/14/2018	26	128	1,740	31.57	1,758	31.89
9/21/2018	38	129	1,480	39.55	1,505	40.21
10/22/2018	31	135	1,540	35.13	1,562	35.63
11/19/2018	28	134	1,090	22.29	1,114	22.78
12/18/2018	29	134	1,470	31.14	1,494	31.65
1/15/2019	28	135	935	19.27	955	19.68
2/13/2019	29	85	1,520	20.42	1,539	20.68
3/12/2019	27	85	2,150	26.90	2,168	27.12
4/23/2019	126	25	1,180	20.26	1,185	20.35
5/16/2019	23	25	980	3.07	987	3.09
6/11/2019	26	25	869	3.08	874	3.10
7/31/2019	50	107	1,610	46.95	1,635	47.68
8/19/2019	19	111	1,420	16.32	1,443	16.59
9/16/2019	28	80	1,720	21.00	1,743	21.28
10/23/2019	134	137	1,370	137.10	1,382	138.30
11/21/2019	29	136	1,460	31.39	1,472	31.65
12/30/2019	39	135	1,280	36.74	1,292	37.08
1/29/2020	30	139	1,410	32.05	1,423	32.35
2/20/2020	22	129	1,210	18.72	1,221	18.89
3/17/2020	26	129	1,170	21.39	1,177	21.52
Total (kg)				17,749.39		18,442.50
Total (lb)				39,130.71		40,658.76

TABLE 4
Groundwater Remedial System
Contaminant Mass Removal For Individual Extraction Wells

Sampling Date	Source	Days of Operation	Average Flow Rate	Tetrachloroethylene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
7/7/1998	Magothy	8	50	9400	20.50	9650	21.04
7/7/1998	Upper Glacial	8	200	4000	34.89	4580	39.94
10/27/1998	Magothy	112	50	7600	259.47	7921	268.18
10/27/1998	Upper Glacial	112	200	4300	506.72	4770	570.83
2/24/1999	Magothy	120	50	9000	271.46	9290	281.45
2/24/1999	Upper Glacial	120	200	5400	634.50	5840	694.02
5/28/1999	Magothy	93	50	7100	204.04	7362	211.04
5/28/1999	Upper Glacial	93	200	4800	517.08	5188	559.06
10/12/1999	Magothy	137	47	8100	266.75	8350	275.74
10/12/1999	Upper Glacial	137	165	5100	609.94	5240	642.47
11/10/1999	Magothy	12	40	8900	22.24	9160	22.91
11/10/1999	Upper Glacial	12	80	5500	27.73	5634	28.45
2/15/2000	Magothy	81	40	6000	131.58	6270	136.26
2/15/2000	UpperGlacial	81	80	4300	173.08	4480	178.63
5/26/2000	Magothy	97	50	6500	165.23	6720	171.71
5/26/2000	UpperGlacial	97	90	5000	221.28	5248	231.46
9/27/2000	Magothy	124	50	4200	180.81	4386	187.67
9/27/2000	Upper Glacial	124	100	2800	263.61	3137	283.38
2/27/2001	Magothy	152	50	3200	153.28	3391	161.09
2/27/2001	Upper Glacial	152	100	2500	219.57	2680	240.98
5/30/2001	Magothy	88	50	2100	63.56	2433	69.84
5/30/2001	Upper Glacial	88	100	2400	117.52	2723	129.59
8/23/2001	Magothy	85	50	2500	53.28	2715	59.63
8/23/2001	Upper Glacial	85	100	2500	113.52	2736	126.47
11/27/2001	Magothy	96	50	2500	65.41	2530	68.62
11/27/2001	Upper Glacial	96	100	2400	128.21	2542	138.10
2/27/2002	Magothy	93	50	2300	60.83	2362	62.00
2/27/2002	Upper Glacial	93	100	2600	126.74	2665	131.98
5/29/2002	Magothy	86	50	6200	99.62	6213	100.50
5/29/2002	Upper Glacial	86	100	6400	210.95	6412	212.76
8/30/2002	Magothy	93	50	5400	147.01	5521	148.71
8/30/2002	Upper Glacial	93	100	5300	296.56	5410	299.65
11/26/2002	Magothy	77	50	4300	101.78	4351	103.59
11/26/2002	Upper Glacial	77	100	3800	190.98	3851	194.35
2/4/2003	Magothy	61	0	3800	0.00	3853	0.00
2/4/2003	Upper Glacial	61	90	4000	116.71	4055	118.30
7/7/2003	Magothy	56	0	9600	0.00	11591	0.00
7/7/2003	Upper Glacial	56	90	2400	87.91	2515	90.25
8/26/2003	Magothy	22	50	4600	42.57	4702	48.85
8/26/2003	Upper Glacial	46	120	1200	54.16	1255	56.72
12/1/2003	Magothy	91	50	4900	117.81	4986	120.14
12/1/2003	Upper Glacial	91	120	1800	89.29	1841	92.14
2/26/2004	Magothy	87	40	4300	87.26	4386	88.89
2/26/2004	Upper Glacial	87	120	1800	102.44	1819	104.14
5/17/2004	Magothy	81	40	3400	68.00	3466	69.34
5/17/2004	Upper Glacial	81	120	1600	90.07	1600	90.58
8/13/2004	Magothy	88	40	2600	57.56	2684	59.00
8/13/2004	Upper Glacial	88	110	1800	89.70	1825	90.36
11/23/2004	Magothy	102	40	3800	71.17	3857	72.74
11/23/2004	Upper Glacial	102	110	3200	152.90	3225	154.43
2/10/2005	Magothy	79	30	2200	38.76	2254	39.47
2/10/2005	Upper Glacial	79	50	3000	66.75	3028	67.32
5/16/2005	Magothy	95	30	2000	32.62	2048	33.42
5/16/2005	Upper Glacial	95	55	3100	86.87	3138	87.81
8/23/2005	Magothy	99	33	2600	40.96	2641	41.75
8/23/2005	Upper Glacial	99	50	5600	117.37	5640	118.43
11/10/2005	Magothy	79	30	2600	33.59	2646	34.15
11/10/2005	Upper Glacial	79	44	3400	85.26	3400	85.64
3/27/2006	Magothy	84	65	3100	84.82	3148	86.22
3/27/2006	Upper Glacial	84	160	2800	227.11	2823	227.95
5/19/2006	Magothy	53	64	2200	49.00	2252	49.92
5/19/2006	Upper Glacial	53	150	1400	91.00	1414	91.81
8/11/2006	Magothy	84	57	2200	57.42	2248	58.72
8/11/2006	Upper Glacial	84	140	1600	96.16	1620	97.25
11/7/2006	Magothy	88	62	2500	69.89	2561	71.51
11/7/2006	Upper Glacial	88	123	3200	141.60	3277	144.47
2/6/2007	Magothy	91	62	2000	69.20	2042	70.78
2/6/2007	Upper Glacial	91	110	1700	133.68	1718	136.27
5/3/2007	Magothy	86	65	1600	54.85	1676	56.65
5/3/2007	Upper Glacial	86	98	1600	75.80	1619	76.65
8/8/2007	Magothy	65	65	2200	43.76	2252	45.23
8/8/2007	Upper Glacial	65	98	4200	100.70	4206	101.13
11/6/2007	Magothy	90	60	2100	54.46	2144	64.70
11/6/2007	Upper Glacial	90	95	2100	86.22	2117	147.34
2/6/2008	Magothy	92	53	2000	55.82	2035	55.54
2/6/2008	Upper Glacial	92	81	2000	83.27	2017	83.96
5/20/2008	Magothy	104	52	1500	51.59	1553	52.89
5/20/2008	Upper Glacial	104	66	1900	72.96	1918	73.62
11/24/2008	Magothy	188	48	1600	76.24	1645	78.65
11/24/2008	Upper Glacial	188	67	1900	130.46	1923	131.86
2/20/2009	Magothy	88	44	1700	34.83	1754	35.87
2/20/2009	Upper Glacial	88	72	1900	65.62	1950	63.96
5/13/2009	Magothy	82	41	1700	31.15	1740	32.02
5/13/2009	Upper Glacial	82	75	1900	63.69	1916	64.80
8/27/2009	Magothy	106	50	1900	52.00	1935	53.09
8/27/2009	Upper Glacial	106	70	2200	82.92	2216	83.56
11/9/2009	Magothy	74	40	1900	30.66	1929	31.17
11/9/2009	Upper Glacial	74	60	2300	54.46	2320	54.89

TABLE 4
Groundwater Remedial System
Contaminant Mass Removal For Individual Extraction Wells

Sampling Date	Source	Days of Operation	Average Flow Rate	Tetrachloroethylene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
2/11/2010	Magothy	72	43	1900	32.06	1928	32.55
2/11/2010	Upper Glacial	72	60	2300	54.16	2323	54.67
5/18/2010	Magothy	73	40	2000	31.04	2042	31.60
5/18/2010	Upper Glacial	73	64	2200	57.30	2224	57.90
8/6/2010	Magothy	73	40	1900	31.04	1931	31.62
8/6/2010	Upper Glacial	73	64	2000	53.48	2021	54.05
11/10/2010	Magothy	96	32	2100	33.49	2123	33.94
11/10/2010	Upper Glacial	96	64	2300	72.01	2321	72.71
3/17/2011	Magothy	94	29	3700	43.09	3744	43.59
3/17/2011	Upper Glacial	94	52	4200	86.59	4256	87.62
5/31/2011	Magothy	75	25	3000	34.24	3030	34.62
5/31/2011	Upper Glacial	75	45	2400	60.71	2400	61.23
6/28/2011	Magothy	14	25	2600	5.34	2643	5.41
6/28/2011	Upper Glacial	14	45	4000	10.99	4061	11.09
8/10/2011	Magothy	43	25	2300	14.36	2322	14.55
8/10/2011	Upper Glacial	43	50	2800	39.85	2823	40.34
11/14/2011	Magothy	96	22	2400	27.05	2419	27.29
11/14/2011	Upper Glacial	96	40	2500	55.47	2520	55.92
2/17/2012	Magothy	62	20	2300	15.88	2320	16.02
2/17/2012	Upper Glacial	62	43	2600	37.06	2634	37.45
5/25/2012	Magothy #2	98	20	2900	27.78	2942	28.11
5/25/2012	Upper Glacial	98	43	2900	59.72	2944	60.46
5/25/2012	Magothy #4	64	36	3800	47.72	3828	48.08
8/9/2012	Magothy #2	76	20	2600	22.79	2634	23.10
8/9/2012	Upper Glacial	76	43	5300	73.04	5349	73.87
8/9/2012	Magothy #4	76	51	3400	76.06	3428	76.65
11/26/2012	Magothy #2	109	7	1700	8.94	1722	9.06
11/26/2012	Upper Glacial	109	29	3900	79.26	3931	79.95
11/26/2012	Magothy #4	109	62	2800	114.20	2819	115.06
2/15/2013	Magothy #2	51	18	1300	10.51	1328	10.68
2/15/2013	Upper Glacial	51	34	3400	29.77	3423	30.09
2/15/2013	Magothy #4	51	60	1900	47.54	1916	47.91
3/21/2013	Magothy #2	34	22	1100	4.89	1149	5.05
3/21/2013	Upper Glacial	34	32	2500	17.50	2523	17.63
3/21/2013	Magothy #4	34	60	2800	26.13	2821	26.34
5/23/2013	Magothy #2	63	17	1600	7.88	1600	8.02
5/23/2013	Upper Glacial	63	30	7000	48.94	7000	49.05
5/23/2013	Magothy #4	63	59	2300	51.67	2300	51.88
6/24/2013	Magothy #2	32	22	1000	4.99	1033	5.05
6/24/2013	Upper Glacial	32	40	3900	38.03	3917	38.09
6/24/2013	Magothy #4	32	55	1900	20.15	1920	20.24
8/28/2013	Magothy #2	65	18	1600	8.29	1600	8.40
8/28/2013	Upper Glacial	65	35	7000	67.59	7000	67.69
8/28/2013	Magothy #4	65	62	2300	46.13	2300	46.35
11/15/2013	Magothy #2	79	20	4700	27.13	4724	27.23
11/15/2013	Upper Glacial	79	34	3400	76.14	3400	76.14
11/15/2013	Magothy #4	79	50	4600	74.28	4600	74.28
2/28/2014	Upper Glacial	105	24	4400	53.57	4425	53.74
2/28/2014	Magothy #4	105	47	1800	86.08	1816	86.30
5/15/2014	Upper Glacial	76	26	4400	47.39	4400	47.53
5/15/2014	Magothy #4	76	44	1800	32.81	1800	32.96
8/28/2014	Upper Glacial	105	22	4000	52.89	4000	52.89
8/28/2014	Magothy #4	105	42	2100	46.88	2100	46.88
11/24/2014	Upper Glacial	102	16	4300	36.92	4300	36.92
11/24/2014	Magothy #4	102	44	9.9	25.81	9.9	25.81
3/6/2015	Upper Glacial #1	91	41	4300	65.08	8844	111.29
8/12/2015	Upper Glacial #3	16	75	8800	42.84	8844	42.99
8/12/2015	Magothy #4	107	46	1700	50.98	1719	51.23
12/30/2015	Upper Glacial	140	102	8100	482.61	8177	485.61
12/30/2015	Magothy #4	140	47	1900	34.25	1900	34.25
2/25/2016	Upper Glacial	57	88	3100	101.17	3100	121.08
2/25/2016	Magothy #4	57	49	3100	76.88	1313	77.32
5/16/2016	Upper Glacial	81	92	2800	91.40	2800	91.78
5/16/2016	Magothy #4	81	50	900	99.34	900	100.19
8/17/2016	Upper Glacial	93	82	2800	97.69	2800	97.69
8/17/2016	Magothy #4	93	46	1200	50.14	1213	50.29
11/22/2016	Upper Glacial	97	65	2150	90.22	2150	59.51
11/22/2016	Magothy #4	97	39	1140	40.62	1140	40.62
2/16/2017	Upper Glacial	86	72	2700	97.88	2700	67.72
2/16/2017	Magothy #4	86	38	1410	37.50	1410	37.50
5/19/2017	Upper Glacial	92	74	1130	37.67	1130	37.67
5/19/2017	Magothy #4	92	41	2520	54.69	2555	55.05
8/21/2017	Upper Glacial	94	68	2410	62.89	2410	63.12
8/21/2017	Magothy #4	94	41	1220	35.40	1220	35.40
11/17/2017	Upper Glacial	88	94	2640	85.22	2640	85.22
11/17/2017	Magothy #4	88	36	1330	34.80	1338	34.87
2/13/2018	Upper Glacial	88	92	1750	63.77	1777	64.37
2/13/2018	Magothy #4	88	37	960	32.48	966	32.53
5/17/2018	Upper Glacial	93	99	2030	86.32	2056	86.97
5/17/2018	Magothy #4	93	39	1090	21.95	1090	21.95
8/14/2018	Upper Glacial	89	96	872	78.99	894	80.32
8/14/2018	Magothy #4	89	38	1120	32.54	1127	32.60
11/19/2018	Upper Glacial	97	102	1190	64.99	1217	65.72
11/19/2018	Magothy #4	97	39	704	34.48	710	34.54
2/13/2019	Upper Glacial	86	75	1990	58.36	2012	58.89
2/13/2019	Magothy #4	86	24	1136	16.23	1136	16.39
8/19/2019	Upper Glacial	187	81	1600	120.96	1625	122.32
8/19/2019	Magothy #4	187	10	950	13.76	950	13.90
11/21/2019	Upper Glacial	281	72	1880	177.01	1899	178.50
11/21/2019	Magothy #4	94	74	1200	55.93	1200	56.44
3/17/2020	Upper Glacial	117	62	1400	46.66	1421	47.19
3/17/2020	Magothy #4	117	75	1070	74.14	1074	74.86
Total (kg)					15632.44		16195.90
Total (lb)					34391.36		35630.98

TABLE 5
SVE Historic Influent Results

PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	SVE-1 Influent	SVE-1 Influent	SVE-2 Influent	SVE-2 Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		3/7/1997	6/25/1997	9/26/1997	12/18/1997	3/17/1998	4/21/1998	7/7/1998	7/8/1998	8/5/1998	9/17/1998	12/29/1998	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	30,000	900	830	560	340	370	310	740	1,100	930	1,600	190,000	1,900
1,1,1-Trichloroethane	µg/m³	12,000	650	560	230	97	64	45	27	57	52	47	450,000	1,000
Trichloroethylene	µg/m³	88,000	2,300	2,600	2,900	570	340	170	200	520	380	1,200	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	BDL	BDL	BDL	BDL	28	20	19	16	21	25	560,000	700.000
1,1-Dichloroethane	µg/m³	BDL	BDL	BDL	BDL	BDL	15	25	12	25	BDL	28	190,000	500.000
Tetrachloroethene	µg/m³	3,600,000	200,000	160,000	150,000	20,000	5,200	1,900	2,800	2,700	2,200	2,300	81,000	0.075
TVOCs	**µg/m³**	**3,730,000**	**203,850**	**163,990**	**153,690**	**21,007**	**6,017**	**2,470**	**3,798**	**4,418**	**3,583**	**5,200**	NA	NA

PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		3/24/1999	6/29/1999	11/1/1999	12/16/1999	3/21/2000	8/3/2000	12/21/2000	3/29/2001	6/28/2001	9/27/2001	10/15/2001	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	390	720	660	180	60	240	79	120	540	450	BDL	190,000	1,900
1,1,1-Trichloroethane	µg/m³	38	37	37	17	8	37	6	BDL	BDL	22	BDL	450,000	1,000
Trichloroethylene	µg/m³	150	620	360	170	170	220	230	100	520	4,300	350	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	7	17	BDL	BDL	27	BDL	BDL	BDL	BDL	BDL	560,000	700.000
1,1-Dichloroethane	µg/m³	20	19	28	13	7	25	6	10	BDL	16	BDL	190,000	500.000
Tetrachloroethene	µg/m³	540	1,400	1,500	1,100	1,200	620	400	420	6,300	18,000	610	81,000	0.075
TVOCs	**µg/m³**	**1,138**	**2,803**	**2,602**	**1,480**	**1,445**	**1,169**	**721**	**650**	**7,360**	**22,788**	**960**	NA	NA

									Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
PARAMETER	Units	3/26/2002	6/26/2002	9/26/2002	1/3/2003	7/7/2003	9/30/2003	12/15/2003	3/30/2004	5/17/2004	9/24/2004	12/10/2004	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	98	61	44	66	200	93	58	370	34	11	48	190,000	1,900
1,1,1-Trichloroethane	µg/m³	12	10	BDL	11	BDL	32	BDL	16	BDL	BDL	6.3	450,000	1,000
Trichloroethylene	µg/m³	340	81	24	29	30	30	20	890	8	BDL	11	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560,000	700.000
1,1-Dichloroethane	µg/m³	12	8	BDL	16	100	BDL	BDL	BDL	BDL	BDL	10	190,000	500.000
Tetrachloroethene	µg/m³	1,600	710	450	360	150	100	31	14,000	26	16	40	81,000	0.075
TVOCs	**µg/m³**	**2,062**	**870**	**518**	**482**	**480**	**255**	**109**	**15,276**	**68**	**27**	**115**	NA	NA

PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		3/16/2005	6/28/2005	9/28/2005	12/15/2005	3/27/2006	6/30/2006	9/26/2006	12/21/2006	3/22/2007	6/25/2007	9/27/2007	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	40	140	150	33	53	34	53	91	64	180	1,100	190,000	1,900
1,1,1-Trichloroethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	60	450,000	1,000
Trichloroethylene	µg/m³	14	48	30	BDL	11	BDL	11	BDL	11	26	54	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560,000	700.000
1,1-Dichloroethane	µg/m³	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	23	130	190,000	500.000
Tetrachloroethene	µg/m³	41	380	80	90	14	BDL	14	34	35	46	56	81,000	0.075
TVOCs	**µg/m³**	**106**	**568**	**260**	**123**	**78**	**34**	**78**	**125**	**110**	**275**	**1,400**	NA	NA

PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		12/11/2007	3/31/2008	6/17/2008	8/6/2008	9/29/2008	12/18/2008	3/17/2009	6/11/2009	9/30/2009	12/16/2009	3/17/2010	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	66	180	21	160	130	80	230	BDL	BDL	690	950	190,000	1,900
1,1,1-Trichloroethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	14	BDL	BDL	14	19	450,000	1,000
Trichloroethylene	µg/m³	BDL	BDL	BDL	67	23	BDL	BDL	BDL	7	110	53	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560,000	700.000
1,1-Dichloroethane	µg/m³	17	22	BDL	14	14	10	38	BDL	BDL	24	46	190,000	500.000
Tetrachloroethene	µg/m³	40	29	BDL	350	97	37	BDL	BDL	84	500	570	81,000	0.075
TVOCs	**µg/m³**	**123**	**231**	**21**	**591**	**264**	**127**	**282**	**BDL**	**91**	**1,338**	**1,638**	NA	NA

PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		5/15/2010	6/16/2010	9/23/2010	12/9/2010	3/17/2011	6/15/2011	9/27/2011	12/15/2011	3/12/2012	6/14/2012	9/11/2012	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	210	200	200	515.71	396.70	206.28	281.66	714.06	234.05	476.04	490.00	190,000	1,900
1,1,1-Trichloroethane	µg/m³	6	6.1	6.0	21.29	12.56	13.10	4.26	BDL	2.24	BDL	17.70	450,000	1,000
Trichloroethylene	µg/m³	94	110	75	236.41	193.43	209.55	123.58	96.71	59.10	166.56	202.00	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.75	560,000	700.000
1,1-Dichloroethane	µg/m³	10	13	9	18.64	16.61	14.18	8.91	21.88	9.32	14.58	25.60	190,000	500.000
Tetrachloroethene	µg/m³	540	2,100	290	4478.10	2510.50	3663.90	3189.00	2103.40	1492.70	2374.80	1670.00	81,000	0.075
TVOCs	**µg/m³**	**860**	**2,429**	**580**	**5,270**	**3,130**	**4,107**	**3,607**	**2,936**	**1,797**	**3,032**	**2,405**	NA	NA

PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		1/11/2013	3/21/2013	6/24/2013	9/19/2013	11/15/2013	6/11/2014	11/24/2014	9/23/2015	12/30/2015	3/18/2016	6/14/2016	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	144	436	119	150	238	283	243	544	89	143	19	190,000	1,900
1,1,1-Trichloroethane	µg/m³	7.0	8.7	3.4	3.6	13.1	9.93	5.24	26.30	4.97	4.86	BDL	450,000	1,000
Trichloroethylene	µg/m³	91	155	31	46	148	93.5	54.6	245.0	59.2	63.5	6.0	33,000	0.450
Trichlorofluoromethane	µg/m³	1.69	2.47	1.40	2.02	3.03	2.25	2.02	3.43	2.25	1.97	1.21	560,000	700.000
1,1-Dichloroethane	µg/m³	12.2	13.6	4.5	5.9	15.0	12.1	8.3	25.3	11.0	8.3	1.0	190,000	500.000
Tetrachloroethene	µg/m³	1,300	1,230	423	609	1,810	1,280	1,030	3,550	1,400	1,360	114	81,000	0.075
TVOCs	**µg/m³**	**1,556**	**1,846**	**583**	**817**	**2,227**	**1,681**	**1,343**	**4,394**	**1,566**	**1,582**	**141**	NA	NA

PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		9/19/2016	3/16/2017	6/16/2017	10/16/2017	12/13/2017	3/26/2018	6/14/2018	9/21/2018	12/18/2018	3/12/2019	6/11/2019	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	280	376	179	270	212	178	156	305	460	926	193	190,000	1,900
1,1,1-Trichloroethane	µg/m³	10.9	11.7	6.8	6.0	BDL	3.1	4.7	7.4	9.1	14.6	5.2	450,000	1,000
Trichloroethylene	µg/m³	61	106	88	138	58	47	60	134	89	95	92	33,000	0.450
Trichlorofluoromethane	µg/m³	11.20	BDL	1.47	BDL	BDL	5.70	12.40	9.90	3.70	6.80	4.30	560,000	700.000
1,1-Dichloroethane	µg/m³	7.9	18.4	9.4	14.0	BDL	6.6	9.2	10.4	18.4	79.7	10.4	190,000	500.000
Tetrachloroethene	µg/m³	742	431	1,450	1,630	1,240	1,030	689	2,620	1,320	1,180	567	81,000	0.075
TVOCs	**µg/m³**	**1,113**	**943**	**1,735**	**2,058**	**1,510**	**1,270**	**931**	**3,087**	**1,901**	**2,302**	**872**	NA	NA

PARAMETER	Units	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		9/16/2019	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	270	190,000	1,900
1,1,1-Trichloroethane	µg/m³	BDL	450,000	1,000
Trichloroethylene	µg/m³	140	33,000	0.450
Trichlorofluoromethane	µg/m³	8.10	560,000	700.000
1,1-Dichloroethane	µg/m³	20.5	190,000	500.000
Tetrachloroethene	µg/m³	1,130	81,000	0.075
TVOCs	**µg/m³**	**1,569**	NA	NA

NA = Not Applicable

BDL= Below Detection Limit. Based on a reduction in concentrations, additional compounds have been detected in more recent analyses performed.

***** - Second Quarter 2001-Laboratory method changed from air sampling with carbon tubes to air sampling with 'porapak-N' tubes.

TABLE 6

SVE
Contaminant Mass Removal

SVE Wells 1 & 2 System Influent	Baseline Sample 7-Mar-97 (µg/m³)	Second Qtr. 30-Jun-97 (µg/m³)	Third Qtr. 26-Sep-97 (µg/m³)	Fourth Qtr. 15-Dec-97 (µg/m³)	First Qtr. 17-Mar-98 (µg/m³)	Confirm. Sam. 21-Apr-98 (µg/m³)	Third Qtr. 17-Sep-98 (µg/m³)	Fourth Qtr. 29-Dec-98 (µg/m³)	First Qtr. 24-Mar-99 (µg/m³)	Second Qtr. 29-Jun-99 (µg/m³)	Third Qtr. 1-Nov-99 (µg/m³)	Fourth Qtr. 16-Dec-99 (µg/m³)
Tetrachloroethylene	3,600,000	200,000	160,000	150,000	20,000	5,200	2,200	2,300	540	1,400	1,500	1,100
Trichloroethylene	88,000	2,300	2,600	2,900	570	340	380	1,200	150	620	360	170
1,1,1-Trichloroethane	12,000	650	560	230	97	64	52	47	38	37	37	17
cis-1,2-Dichloroethene	30,000	900	830	560	340	370	930	1,600	390	720	660	180
Total VOCs	**3,730,000**	**203,850**	**163,990**	**153,690**	**21,007**	**5,974**	**3,562**	**5,147**	**1,118**	**2,777**	**2,557**	**1,467**
Average SVE Flow Rate (cfm):		254	265	280	280	280	265	260	238	300	300	300
Average VOC Removal Rate (lb/hr):		1.86	0.18	0.17	0.09	0.01	0.005	0.004	0.003	0.002	0.003	0.002
Total VOCs Removed Over Quarter (lb):		4214.54	402.45	367.82	193.48	11.88	18.42	10.48	5.70	5.09	8.99	2.44

SVE Wells 1 & 2 System Influent	First Qtr. 21-Mar-00 (µg/m³)	Second Qtr. 3-Aug-00 (µg/m³)	Fourth Qtr. 21-Dec-00 (µg/m³)	First Qtr. 29-Mar-01 (µg/m³)	Second Qtr. 28-Jun-01 (µg/m³)	Third Qtr. 15-Oct-01 (µg/m³)	First Qtr. 26-Mar-02 (µg/m³)	Second Qtr. 27-Jun-02 (µg/m³)	Third Qtr. 26-Sep-02 (µg/m³)	Fourth Qtr. 3-Jan-03 (µg/m³)	First/Sec Qtr. 7-Jul-03 (µg/m³)	Third Qtr. 30-Sep-03 (µg/m³)
Tetrachloroethylene	1,200	620	400	420	6,300	610	1,600	710	450	360	150	100
Trichloroethylene	170	220	230	100	520	350	340	81	24	29	30	30
1,1,1-Trichloroethane	8	37	6	0	0	0	12	10	0	11	0	32
cis-1,2-Dichloroethene	60	240	79	120	540	0	98	61	44	66	200	93
Total VOCs	**1,438**	**1,117**	**715**	**640**	**7,360**	**960**	**2,050**	**862**	**518**	**466**	**380**	**255**
Average SVE Flow Rate (cfm):	300	300	300	300	300	300	300	300	300	300	300	300
Average VOC Removal Rate (lb/hr):	0.002	0.001	0.001	0.001	0.004	0.005	0.002	0.002	0.001	0.001	0.0005	0.0004
Total VOCs Removed Over Quarter (lb):	3.76	4.65	3.46	1.79	9.82	12.23	6.58	3.65	1.69	1.31	2.11	0.73

SVE Wells 1 & 2 System Influent	Fourth Qtr. 15-Dec-03 (µg/m³)	First Qtr. 30-Mar-04 (µg/m³)	Second Qtr. 17-May-04 (µg/m³)	Third Qtr. 24-Sep-04 (µg/m³)	Fourth Qtr. 10-Dec-04 (µg/m³)	First Qtr. 17-Mar-05 (µg/m³)	Second Qtr. 28-Jun-05 (µg/m³)	Third Qtr. 28-Sep-05 (µg/m³)	Fourth Qtr. 15-Dec-05 (µg/m³)	First Qtr. 27-Mar-06 (µg/m³)	Second Qtr. 30-Jun-06 (µg/m³)	Third Qtr. 26-Sep-06 (µg/m³)
Tetrachloroethylene	31	14,000	26	16	40	41	380	80	90	14	0	23
Trichloroethylene	20	890	8	0	11	14	48	30	0	11	0	0
1,1,1-Trichloroethane	0	16	0	0	6.3	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	58	370	34	11	48	40	140	150	33	53	34	32
Total VOCs	**109**	**15,276**	**68**	**27**	**105**	**95**	**568**	**260**	**123**	**78**	**34**	**55**
Average SVE Flow Rate (cfm):	300	300	300	300	300	300	300	300	300	300	300	300
Average VOC Removal Rate (lb/hr):	0.0002	0.009	0.009	0.00005	0.0001	0.0001	0.0004	0.0005	0.0002	0.0001	0.0001	0.00005
Total VOCs Removed Over Quarter (lb):	0.37	21.37	9.31	0.16	0.14	0.26	0.92	1.03	0.40	0.28	0.14	0.11

SVE Wells 1 & 2 System Influent	Fourth Qtr. 21-Dec-06 (µg/m³)	First Qtr. 22-Mar-07 (µg/m³)	Second Qtr. 20-Jun-07 (µg/m³)	Third Qtr. 29-Sep-07 (µg/m³)	Fourth Qtr. 11-Dec-07 (µg/m³)	First Qtr. 31-Mar-08 (µg/m³)	Second Qtr. 17-Jun-08 (µg/m³)	Third Qtr. 29-Sep-08 (µg/m³)	Fourth Qtr. 18-Dec-08 (µg/m³)	First Qtr. 17-Mar-09 (µg/m³)	Second Qtr. 11-Jun-09 (µg/m³)	Third Qtr. 30-Sep-09 (µg/m³)
Tetrachloroethylene	34	35	46	56	40	29	0	97	37	0	0	84
Trichloroethylene	0	11	26	54	0	0	0	23	3	0	0	7
1,1,1-Trichloroethane	0	0	0	60	0	0	0	0	0	14	0	0
cis-1,2-Dichloroethene	91	64	180	1,100	66	180	21	130	80	230	0	0
Total VOCs	**125**	**110**	**252**	**1,270**	**106**	**209**	**21**	**250**	**120**	**244**	**0**	**91**
Average SVE Flow Rate (cfm):	300	300	300	300	300	300	300	300	300	300	300	300
Average VOC Removal Rate (lb/hr):	0.0001	0.0001	0.0002	0.0009	0.0008	0.0002	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001
Total VOCs Removed Over Quarter (lb):	0.21	0.29	0.44	2.07	1.35	0.47	0.24	0.38	0.40	0.44	0.28	0.14

SVE Wells 1 & 2 System Influent	Fourth Qtr. 16-Dec-09 (µg/m³)	First Qtr. 17-Mar-10 (µg/m³)	Second Qtr. 16-Jun-10 (µg/m³)	Third Qtr. 23-Sep-10 (µg/m³)	Fourth Qtr. 9-Dec-10 (µg/m³)	First Qtr. 17-Mar-11 (µg/m³)	Second Qtr. 15-Jun-11 (µg/m³)	Third Quarter 27-Sep-11 (µg/m³)	Fourth Quarter 15-Dec-11 (µg/m³)	First Quarter 12-Mar-12 (µg/m³)	Second Quarter 14-Jun-12 (µg/m³)	Third Quarter 11-Sep-12 (µg/m³)
Tetrachloroethylene	500	570	2,100	290	4478.10	2510.50	3663.90	3189.00	2103.40	1492.70	2374.80	1670.00
Trichloroethylene	110	150	110	75	236.41	193.43	209.55	123.58	96.71	59.10	166.56	202.00
1,1,1-Trichloroethane	14	19	6.1	6.0	21.29	12.56	13.10	4.26	0.00	0.00	0.00	17.70
cis-1,2-Dichloroethene	690	950	200	200	515.71	396.70	206.28	281.66	714.06	234.05	476.04	490.00
Total VOCs	**1,314**	**1,689**	**2,416**	**571**	**5,251.51**	**3,113.19**	**4,092.83**	**3,598.50**	**2,914.17**	**1,785.85**	**3,017.40**	**2,379.70**
Average SVE Flow Rate (cfm):	300	300	300	300	300	300	300	300	300	300	300	300
Average VOC Removal Rate (lb/hr):	0.0008	0.0017	0.0023	0.0017	0.0033	0.0047	0.0040	0.0043	0.0037	0.0026	0.0027	0.0030
Total VOCs Removed Over Quarter (lb):	1.46	3.68	5.04	3.99	6.05	11.05	8.75	10.79	6.94	5.58	6.09	6.48

SVE Wells 1 & 2 System Influent	Fouth Quarter 11-Jan-13 (µg/m³)	First Qtr. 21-Mar-13 (µg/m³)	Second Qtr. 24-Jun-13 (µg/m³)	Third Qtr. 19-Sep-13 (µg/m³)	Fourth Qtr. 15-Nov-13 (µg/m³)	Second Qtr. 11-Jun-14 (µg/m³)	Fourth Qtr. 24-Nov-14 (µg/m³)	1st Half 17-Sep-15 (µg/m³)	2nd Half 30-Dec-15 (µg/m³)	First Qtr. 18-Mar-16 (µg/m³)	Second Qtr 14-Jun-16 (µg/m³)	Third Qtr 19-Sep-16 (µg/m³)
Tetrachloroethylene	1300.00	1,230	423	609	1,810	1,280	1,030	3,550	1,400	1,360	114	742
Trichloroethylene	91.00	155	31	46	148	94	54.6	245	59	64	6	61
1,1,1-Trichloroethane	7.04	8.73	3.38	3.60	13.10	9.93	5.24	26	5	5	1	11
cis-1,2-Dichloroethene	144.00	436	119	150	150	283	243	544	89	143	19	280
Total VOCs	**1,542.04**	**1,830**	**577**	**809**	**2,121**	**1,666**	**1,333**	**4,365**	**1,553**	**1,571**	**140**	**1,094**
Average SVE Flow Rate (cfm):	300	300	300	300	300	300	300	300	300	300	300	300
Average VOC Removal Rate (lb/hr):	0.0022	0.0019	0.0013	0.0008	0.0016	0.0021	0.0017	0.0032	0.0033	0.0018	0.0010	0.0007
Total VOCs Removed Over Quarter (lb):	6.45	3.14	3.08	1.63	2.25	10.62	6.71	11.29	8.30	3.33	2.03	1.61

SVE Wells 1 & 2 System Influent	First Qtr 16-Mar-17 (µg/m³)	Second Qtr 16-Jun-17 (µg/m³)	Third Qtr 16-Oct-17 (µg/m³)	Fourth Qtr 13-Dec-17 (µg/m³)	First Qtr 26-Mar-18 (µg/m³)	Second Qtr 14-Jun-18 (µg/m³)	Third Qtr 21-Sep-18 (µg/m³)	Fourth Qtr 18-Dec-18 (µg/m³)	First Qtr 11-Mar-19 (µg/m³)	Second Qtr 11-Jun-19 (µg/m³)	Third Qtr 16-Sep-19 (µg/m³)		Mass Removed to Date (kg)	Mass Removed to Date (lbs)
Tetrachloroethylene	431	1,450	1,630	1,240	1,030	689	2,620	1,320	1,180	567	1,130		2,336	5,149
Trichloroethylene	106	88	138	58	47	60	134	89	95	92	140		60	131
1,1,1-Trichloroethane	12	7	6	0	3	5	7	9	15	5	0		8	18
cis-1,2-Dichloroethene	376	179	270	212	178	156	305	460	926	193	270		29	64
Total VOCs	**925**	**1,724**	**2,044**	**1,510**	**1,258**	**910**	**3,066**	**1,878**	**2,216**	**857**	**1,540**		**2,432**	**5,362**
Average SVE Flow Rate (cfm):	300	300	300	300	300	300	300	300	300	300	300			
Average VOC Removal Rate (lb/hr):	0.0011	0.0015	0.0021	0.0020	0.0016	0.0012	0.0022	0.0028	0.0023	0.0015	0.0019			
Total VOCs Removed Over Quarter (lb):	4.85	3.29	6.20	2.78	3.84	2.34	5.31	5.87	4.58	6.45	12.54			

TABLE 7A
First Quarter 2020 Groundwater Sampling Results
(Volatile Organic Compounds)

PARAMETER	Units	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	NYSDEC G.W. Standards
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Trichloroethylene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	µg/L	ND	ND	2.8	ND	ND	ND	ND	ND	ND	5
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
TVOC's	µg/L	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	

PARAMETER	Units	SP-3	SP-4	SP-5	SP-6	GW-1	GW-2	GW-3	SCDHS Well	NYSDEC G.W. Standards
1,1-Dichloroethene	µg/L	ND	ND	NS	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	µg/L	ND	ND	NS	ND	ND	ND	ND	ND	5
Chloroform	µg/L	ND	ND	NS	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	µg/L	ND	ND	NS	ND	ND	ND	ND	ND	5
Trichloroethylene	µg/L	ND	ND	NS	ND	ND	ND	ND	ND	5
Tetrachloroethene	µg/L	1.8	1.4	NS	ND	1.7	ND	ND	2.9	5
Benzene	µg/L	ND	ND	NS	ND	ND	ND	ND	ND	0.4
1,2-Dichloroethene (total)	µg/L	ND	ND	NS	ND	ND	ND	ND	ND	5
Ethylbenzene	µg/L	ND	ND	NS	ND	ND	ND	ND	ND	5
Toluene	µg/L	ND	ND	NS	ND	ND	ND	ND	ND	5
Xylene (total)	µg/L	ND	ND	NS	ND	ND	ND	ND	ND	5
TVOC's	µg/L	1.8	1.4	NS	0.0	1.7	0.0	0.0	2.9	

Notes:
ND = Not Detected
NS = Not Sampled
Bold/highlighted text denotes exceedance of G.W. Standard
G.W. Standards - Ambient Water Quality Standards or Guidance Values, 1993

TABLE 8
Monitoring Well History
PCE Concentrations

Sampling Date	MW-1 (µg/L)	MW-2 (µg/L)	MW-3 (µg/L)	MW-4 (µg/L)	MW-5 (µg/L)	MW-6 (µg/L)	MW-7 (µg/L)	MW-8 (µg/L)	MW-9 (µg/L)	SCDHS Well (µg/L)
12/31/92	**10**	**34,000**	**81,000**	**1,800**	**15,000**	**14**	**3,600**	**1,300**	**-**	-
07/06/95	-	-	**140,000**	-	-	**13**	-	**1,200**	**60**	-
12/16/96	**23**	**5,400**	NS	**2,300**	**3,400**	1	**7,200**	**130**	**15**	NS
03/17/97	3	**6,500**	NS	**1,100**	**1,000**	4	**3,500**	**500**	**17**	NS
06/24/97	1	**8,900**	**32,000**	**47**	**210**	3	**150**	**73**	**15**	NS
09/23/97	**56**	**13,000**	**>10,000**	**25**	**140**	**33**	**39**	**17**	**28**	NS
12/15/97	<1	**10,000**	**92,000**	**15**	49	<1	**33**	**6**	**28**	NS
03/17/98	**12**	**7,200**	**34,000**	**68**	**7**	2	**18**	**13**	**18**	NS
09/17/98	2	**3,400**	**38,000**	**70**	**8**	2	**14**	2	NS	NS
12/22/98	3	**2,000**	**51,000**	**6**	**5**	3	**34**	3	NS	NS
03/17/99	<1	**870**	**29,000**	NS	3	4	**160**	**56**	**35**	NS
06/30/99	**22**	**240**	**25,000**	NS	2	4	2	<1	**15**	**62**
10/13/99	<1	**210**	**26,000**	<1	1	4	**870**	<1	**10**	NS
12/23/99	4	**270**	**83,000**	<1	<1	**5**	**990**	3	1	**1,400**
03/21/00	<1	**110**	**12,000**	<1	<1	4	**1,700**	4	2	**170**
08/04/00	<1	**51**	**10,000**	<1	<1	1	**10**	<1	<1	**170**
12/21/00	<1	**35**	**820**	**16**	<1	2	3	3	<1	NS
03/30/01	<1	**24**	**2,100**	NS	4	<1	2	**36**	<1	**81**
06/29/01	<1	1	**1,000**	1.5	<1	NS	ND	1.1	ND	**5**
09/28/01	<1	**13**	**410**	2	<1	2	4	<1	1	**20**
12/19/01	<1	3	**4,800**	2	<1	2	4	1	2	**22**
03/27/02	**6**	**10**	**9,600**	4	3	4	3	2	**16**	**16**
06/27/02	2	**6**	**270**	<1	2	2	3	2	2	**9**
09/27/02	3	3	**1,700**	NS	**5**	1	NS	<1	<1	**17**
12/31/03	<1	3	**1,800**	NS	2	<1	3	**34**	<1	**9**
07/08/03	3	**13**	**970**	**5**	7	2	1	1	2	**9**
09/30/03	3	<1	**340**	**7**	<1	2	3	<1	**22**	**7**
12/15/03	<1	2	**75**	NS	<1	1	NS	NS	**31**	**7**
03/30/04	<1	2	**30**	1	<1	2	2	<1	**6**	**6**
06/30/04	<1	2	**19**	1	<1	2	NS	2	**10**	**7**
09/21/04	<1	3	<1	3	<1	2	2	NS	<1	**6**
12/10/04	<1	2	<1	NS	<1	2	NS	NS	3	9
03/16/05	<1	3	2	3	<1	NS	3	<1	5	NS
06/27/05	<1	2	2	**5**	<1	NS	3	3	2	NS
09/28/05	<1	2	1	1	<1	NS	2	**10**	**9**	NS
12/15/05	<1	1	4	<1	<1	NS	ND	1	ND	NS
03/27/06	<1	1.1	3.7	<1	<1	NS	ND	1.1	ND	NS
06/30/06	<1	1.0	2.0	3.0	<1	NS	<1	1.0	NS	NS
09/26/06	ND	1.1	3.7	1.5	ND	NS	ND	1.1	ND	NS
12/21/06	ND	1.0	4.0	4.0	ND	ND	2.0	ND	**26.0**	**8.0**
03/22/07	ND	2.0	5.0	3.0	ND	NS	ND	ND	1.0	NS
06/20/07	ND	1.0	**9.0**	ND	ND	NS	ND	**16.0**	3.0	NS
09/27/07	ND	2.0	**8.0**	ND	ND	NS	ND	ND	1.0	NS
12/11/07	ND	1.0	**7.0**	2.0	ND	2.0	ND	ND	2.0	**5.0**
03/31/08	ND	1.0	5.0	2.0	ND	NS	ND	ND	ND	NS
06/17/08	ND	1.0	5.0	2.0	ND	NS	1.0	ND	ND	NS
09/29/08	ND	ND	**7.0**	3.0	ND	NS	1.0	ND	1.0	NS
12/18/08	2.0	1.0	5.0	ND	ND	2.0	1.0	ND	ND	**5.0**
03/17/09	ND	2.0	5.0	ND	ND	NS	ND	ND	NS	NS
06/11/09	0.0	1.0	**7.0**	0.0	0.0	NS	0.0	0.0	ND	NS
09/30/09	ND	1.0	**11.0**	2.0	ND	NS	ND	ND	ND	NS
12/16/09	ND	1.0	**5.0**	1.0	ND	ND	1.0	ND	ND	**5.0**
03/17/10	ND	1.0	3.0	2.0	ND	NS	ND	ND	**16.0**	NS
06/16/10	ND	1.0	4.0	ND	ND	NS	1.0	ND	1.0	NS
09/23/10	ND	1.0	4.0	1.0	ND	NS	ND	ND	**18.0**	NS
12/09/10	ND	ND	3.0	2.0	ND	ND	2.0	ND	3.0	3.0
03/17/11	ND	ND	3.0	ND	ND	NS	ND	ND	**11.0**	NS
06/15/11	ND	ND	4.0	ND	ND	NS	1.0	ND	ND	NS
09/27/11	ND	ND	3.0	2.0	ND	NS	2.0	ND	3.0	NS
12/15/11	ND	ND	3.0	ND	ND	ND	ND	ND	2.0	3.0
03/12/12	ND	ND	5.0	**8.0**	ND	NS	ND	2.0	NS	NS
06/14/12	ND	ND	2.0	NS	ND	NS	ND	ND	**18.0**	**7.0**
09/11/12	ND	ND	**6.0**	1.4	2.6	NS	1.6	ND	1.4	NS
01/09/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03/21/13	ND	ND	1.4	ND	ND	NS	ND	ND	ND	ND
06/24/13	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND
09/19/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/15/13	ND	ND	1.9	1.6	ND	1.1	ND	ND	1.9	**5.3**
08/12/15	3	**5.4**	**7.3**	**13**	3.5	ND	3.4	ND	**24**	3.0
06/14/16	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND
10/02/17	ND	ND	1.6	ND	ND	ND	ND	ND	ND	3.3
10/16/18	ND	0.45	0.92	1.4	0.88	ND	0.45	ND	**6.5**	3.8
03/01/20	ND	ND	2.8	ND	ND	ND	ND	ND	ND	2.9

Notes:
NS = Not Sampled
ND = Not Detected

TABLE 8
Monitoring Well History
PCE Concentrations

Sampling Date	GW-1 (µg/L)	GW-2 (µg/L)	GW-3 (µg/L)	SP-3 (µg/L)	SP-4 (µg/L)	SP-5 (µg/L)	SP-6 (µg/L)
12/16/96	**340**	**110**	**1,800**	**3,900**	**11,000**	**1,300**	3
03/17/97	1	**42**	**350**	**1,000**	**15,000**	**610**	**36**
06/24/97	**60**	**190**	**46**	**120**	**1,100**	**78**	**10**
09/23/97	4	4	**9**	**28**	**360**	**7**	**39**
12/15/97	**6**	**11**	**23**	**15**	**110**	**9**	1
03/17/98	**7**	4	**27**	**15**	**57**	4	<1
12/22/98	4	4	**59**	NS	NS	NS	NS
03/17/98	2	**17**	**12**	NS	NS	NS	NS
06/30/99	<1	**15**	**8**	NS	NS	NS	NS
10/13/99	<1	**88**	**9**	**10**	**280**	**86**	<1
12/23/99	<1	**37**	3	2	**3,700**	**51**	3
03/21/00	<1	**53**	**6**	2	**6,400**	**35**	4
08/04/00	**10**	**54**	**61**	2	**1,100**	**150**	1
12/21/00	<1	2	**16**	2	**25**	NS	<1
03/30/01	<1	<1	3	2	**15**	NS	NS
06/29/01	<1	<1	<1	ND	ND	NS	NS
09/28/01	<1	NS	**47**	2	3	NS	<1
12/19/01	4	4	**15**	**6**	4	**30**	2
03/27/02	3	**5**	**5**	4	**5**	**13**	<1
06/27/02	2	**11**	**3**	2	NS	NS	NS
09/27/02	1	**9**	**23**	2	NS	NS	NS
12/31/03	2	**10**	3	3	4	**20**	<1
07/08/03	2	**6**	4	3	**5**	3	<1
09/30/03	3	2	**11**	1	**6**	NS	1
12/15/03	<1	2	**16**	3	**7**	NS	**8**
03/30/04	<1	<1	4	<1	**5**	NS	<1
06/30/04	<1	2	NS	<1	4	3	<1
09/21/04	<1	2	4	2	4	**5**	<1
12/10/04	<1	2	2	3	4	4	<1
03/16/05	NS	NS	2	1	3	NS	NS
06/27/05	NS	NS	2	ND	3	2	NS
09/28/05	NS	NS	2	2	2	3	NS
12/15/05	<1	NS	4	1	**11**	**16**	NS
03/27/06	<1	NS	4.0	1.3	**11.0**	**16.0**	NS
06/30/06	NS	NS	<1	NS	NS	**21.0**	<1
09/26/06	NS	NS	4.0	1.3	11.0	**16.0**	NS
12/21/06	ND	2.0	**6.0**	2.0	**7.0**	**23.0**	1.0
03/22/07	NS	NS	2.0	ND	4.0	**14.0**	NS
06/20/07	NS	NS	1.0	ND	2.0	NS	NS
07/27/07	NS	NS	ND	3.0	2.0	2.0	NS
12/11/07	ND	4.0	**7.0**	2.0	4.0	NS	10
03/31/08	NS	NS	3.0	1.0	3.0	**6.0**	NS
06/17/08	NS	NS	2.0	ND	3.0	2.0	NS
09/29/08	NS	NS	3.0	2.0	3.0	**5.0**	NS
12/18/08	1.0	3.0	2.0	2.0	4.0	**5.0**	**8.0**
03/17/09	NS	NS	NS	ND	2.0	2.0	1.0
06/11/09	NS	NS	0.0	0.0	0.0	0.0	NS
09/30/09	NS	NS	1.0	ND	2.0	2.0	NS
12/16/09	1.0	2.0	2.0	ND	2.0	4.0	**9.0**
03/17/10	NS	NS	2.0	ND	2.0	3.0	NS
06/16/10	NS	NS	ND	ND	3.0	1.0	NS
09/23/10	NS	NS	ND	2.0	3.0	NS	NS
12/09/10	ND	ND	1.0	3.0	4.0	4.0	**18.0**
03/17/11	NS	NS	2.0	ND	2.0	2.0	NS
06/15/11	NS	NS	ND	ND	2.0	1.0	NS
09/27/11	NS	NS	2.0	2.0	2.0	2.0	NS
12/15/11	ND	ND	1.0	2.0	3.0	2.0	**9.0**
03/12/12	NS	NS	3.0	2.0	3.0	1.0	NS
06/14/12	NS	NS	ND	NS	ND	2.0	1.0
09/11/12	NS	NS	1.4	2.0	1.6	2.9	NS
01/09/13	**12.0**	ND	ND	ND	ND	ND	**15.0**
03/21/13	NS	NS	ND	ND	ND	ND	NS
06/24/13	ND	ND	ND	ND	1	ND	**17**
09/19/13	NS	NS	NS	NS	NS	NS	NS
11/15/13	ND	ND	ND	1.3	2.4	NS	ND
08/12/15	1.5	ND	1	1.2	2.4	NS	1.7
06/14/16	**20**	ND	ND	ND	2.2	NS	2.1
10/02/17	ND	ND	ND	1.4	NS	NS	**21.9**
10/16/18	0.2	ND	0.2	1.2	1.9	NS	4.8
03/05/20	1.7	ND	ND	1.8	1.4	NS	ND

Notes:
NS = Not Sampled
ND = Not Detected
* Monitorng Well SP-1 is no longer accessible to sample. It has been covered over with asphalt when the facility re-paved the parking lot during the end of the second quarter 2005.
* Monitorng Well SP-2 is no longer accessible to sample. It has been covered over with asphalt when the facility re-paved the parking lot during the middle of the second quarter 2010.
* Monitorng Well GW-4 is no longer accessible to sample. It has been destroyed by vehicular traffic during the middle of the third quarter 2010.

TABLE 9
Multi-Level Well
Historical Sampling Results

		August-00			December-00			March-01			June-01			September-01			December-01			March-02		
Well	Interval	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
L	39.5-40	26	ND	NS	NS	NS	NS	NS	NS	NS	25	4	<2	NS	NS	NS	NS	NS	NS	NS	NS	NS
K	49.5-50	36	1	NS	NS	NS	NS	NS	NS	NS	2	<1	<1	NS	NS	NS	NS	NS	NS	NS	NS	NS
J	59.5-60	50	2	NS	NS	NS	NS	NS	NS	NS	2	<1	<1	NS	NS	NS	NS	NS	NS	NS	NS	NS
I	69.5-70	36	ND	NS	NS	NS	NS	NS	NS	NS	4	<1	<1	NS	NS	NS	NS	NS	NS	NS	NS	NS
H	79.5-80	20	ND	NS	NS	NS	NS	NS	NS	NS	5	<1	<1	NS	NS	NS	NS	NS	NS	NS	NS	NS
G	89.5-90	14	ND	NS	NS	NS	NS	NS	NS	NS	<1	<1	<1	NS	NS	NS	NS	NS	NS	NS	NS	NS
F	99.5-100	10	ND	NS	NS	NS	NS	NS	NS	NS	4	<1	<1	NS	NS	NS	NS	NS	NS	NS	NS	NS
E	109.5-110	17	ND	NS	NS	NS	NS	NS	NS	NS	8	<1	<1	NS	NS	NS	NS	NS	NS	NS	NS	NS
D	119.5-120	6	ND	NS	NS	NS	NS	NS	NS	NS	<1	<1	<1	NS	NS	NS	NS	NS	NS	NS	NS	NS
C	129.5-130	18	ND	NS	3	<1	<1	3	<1	2	19	4	<1	5	1	9	6	2	4	4	<1	3
B	139.5-140	1100	16	NS	28	<1	2	27	2	4	15	5	<1	10	3	130	10	3	100	11	<1	66
A	149.5-150	4400	180	NS	90	15	120	290	2	130	90	6	<1	28	71	240	59	24	240	51	14	200

		June-02			September-02			December-02			July-03			September-03			December-03			March-04		
Well	Interval	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
C	129.5-130	3	<1	3	2	<1	3	5	1	4	4	<1	2	<1	2	1	3	<1	2	2	<1	6
B	139.5-140	4	<1	60	5	1	49	13	2	23	4	1	24	4	<1	20	4	1	16	4	<1	15
A	149.5-150	19	3	110	21	4	94	7	7	180	9	1	150	5	1	120	6	2	100	6	<1	80

		June-04			September-04			December-04			March-05			June-05			September-05			December-05		
Well	Interval	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
C	129.5-130	1	<1	9	2	<1	19	<1	<1	11	4	1	46	<1	<1	15	4	2	70	1	<1	44
B	139.5-140	5	<1	8	7	<1	5	4	<1	4	10	<1	5	5	<1	4	10	<1	2	12	<1	6
A	149.5-150	6	<1	11	10	<1	7	36	<1	14	39	11	360	15	3	36	18	3	13	12	5	120

		March-06			June-06			September-06			December-06			March-07			June-07			September-07		
Well	Interval	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
C	129.5-130	1.5	<1	49	<1	<1	19	<1	<1	19	4	1	14	3	<1	16	<1	<1	7	4	1	15
B	139.5-140	13	1	4.8	5	<1	4	5	<1	4	13	1	6	51	2	6	5	<1	4	28	1	4
A	149.5-150	55	31	210	11	5	54	13	3.7	33	19	2	9	14	2	27	13	3	16	17	2	7

		December-07			March-08			June-08			September-08			December-08			March-09			June-09		
Well	Interval	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
C	129.5-130	2.0	ND	11	1.0	ND	11	2.0	ND	11	7.0	3	17	1.0	2.0	10	12.0	7.0	7	ND	3	13
B	139.5-140	16	1.0	5.0	16	1.0	6.0	7	ND	3.0	14	1.0	6.0	13	3.0	7.0	9	5.0	7.0	3	18	37
A	149.5-150	15	1.0	5.0	15	1.0	4.0	12	3.0	10.0	14	1.0	4.0	10	3.0	9.0	ND	3.0	16.0	7	27	11

		September-09			December-09			March-10			June-10			September-10			December-10			March-11		
Well	Interval	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
C	129.5-130	ND	2	17	<1	2	22	<1	6	65	<1	<1	33	<1	1	25	<1	2	50	<1	3	45
B	139.5-140	2	15	110	2	13	97	12	32	200	1	11	120	3	39	89	8	36	78	7	31	34
A	149.5-150	5	37	24	3	38	21	4	29	43	4	22	11	170	98	95	3	14	30	3	13	7

		June-11			September-11			December-11			March-12			June-12			September-12			January-13		
Well	Interval	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
C	129.5-130	ND	ND	16	ND	1	42	ND	ND	3	ND	ND	19	ND	ND	13	ND	ND	18	ND	ND	18
B	139.5-140	1	12	69	2	26	100	5	36	130	2	12	120	1	14	82	ND	9.2	120	ND	7.0	150
A	149.5-150	3	11	40	3	9	22	13	15	46	5	7	81	3	6	67	1.4	6.2	76	ND	6.6	100

		March-13			June-13			November-13			August-15			June-16			September-17			October-18		
Well	Interval	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
C	129.5-130	ND	ND	21	ND	ND	13	ND	1.4	37	ND	ND	19	ND	ND	3	ND	ND	ND	ND	ND	ND
B	139.5-140	ND	5.5	120	ND	7.2	110	ND	4.4	110	ND	ND	3	ND	1.2	5	ND	2.0	3	0.87	2.1	1.7
A	149.5-150	3.3	5.5	53	ND	6.9	35	1.2	5.4	41	3.9	2.9	21	3.6	2.1	11	2.7	3.5	20	3.4	4.1	3.5

		March-20		
Well	Interval	PCE	TCE	DCE
C	129.5-130	ND	ND	ND
B	139.5-140	ND	2.3	ND
A	149.5-150	2.6	3.1	ND

Notes:
ND = Not Detected
NS = Not Samlped
Intervals D (119.5 - 120) through L (39.5-40) have not been sampled since June 2001 where the concentrations have shown non-detect or near non-detect results.

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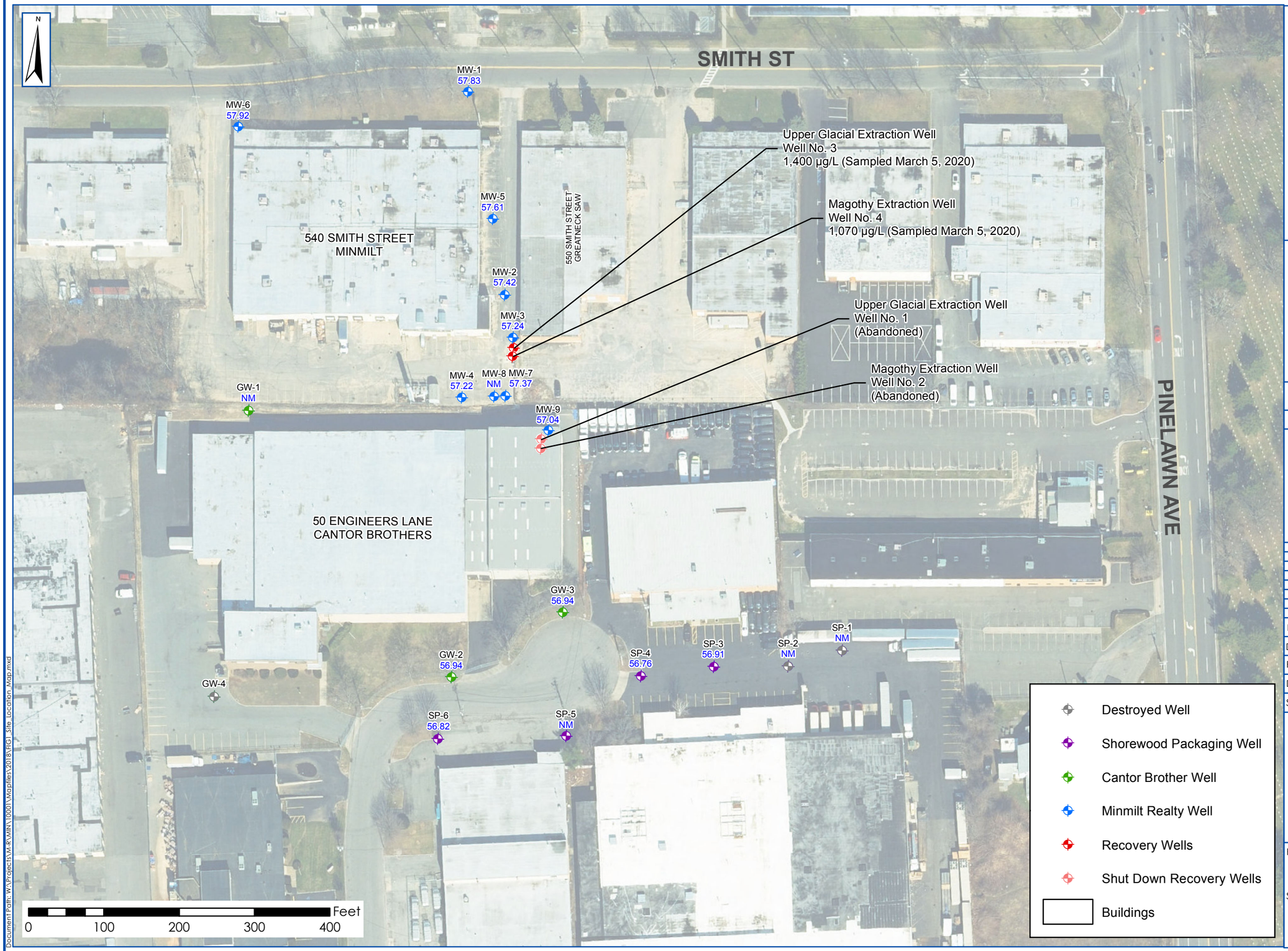
CLIENT DRIVEN SOLUTIONS

FIGURES



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PWGC
CLIENT DRIVEN SOLUTIONS
P.W. Grosser Consulting, Inc.
630 Johnson Ave., Suite 7
Bohemia, NY 11716
Ph: 631-589-6353 • Fax: 631-589-8705
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DRAWING PREPARED FOR:

2019 PERIODIC REVIEW REPORT
MINMILT REALTY CORP.
352 CARNATION DRIVE
FARMINGDALE, NY 11735

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

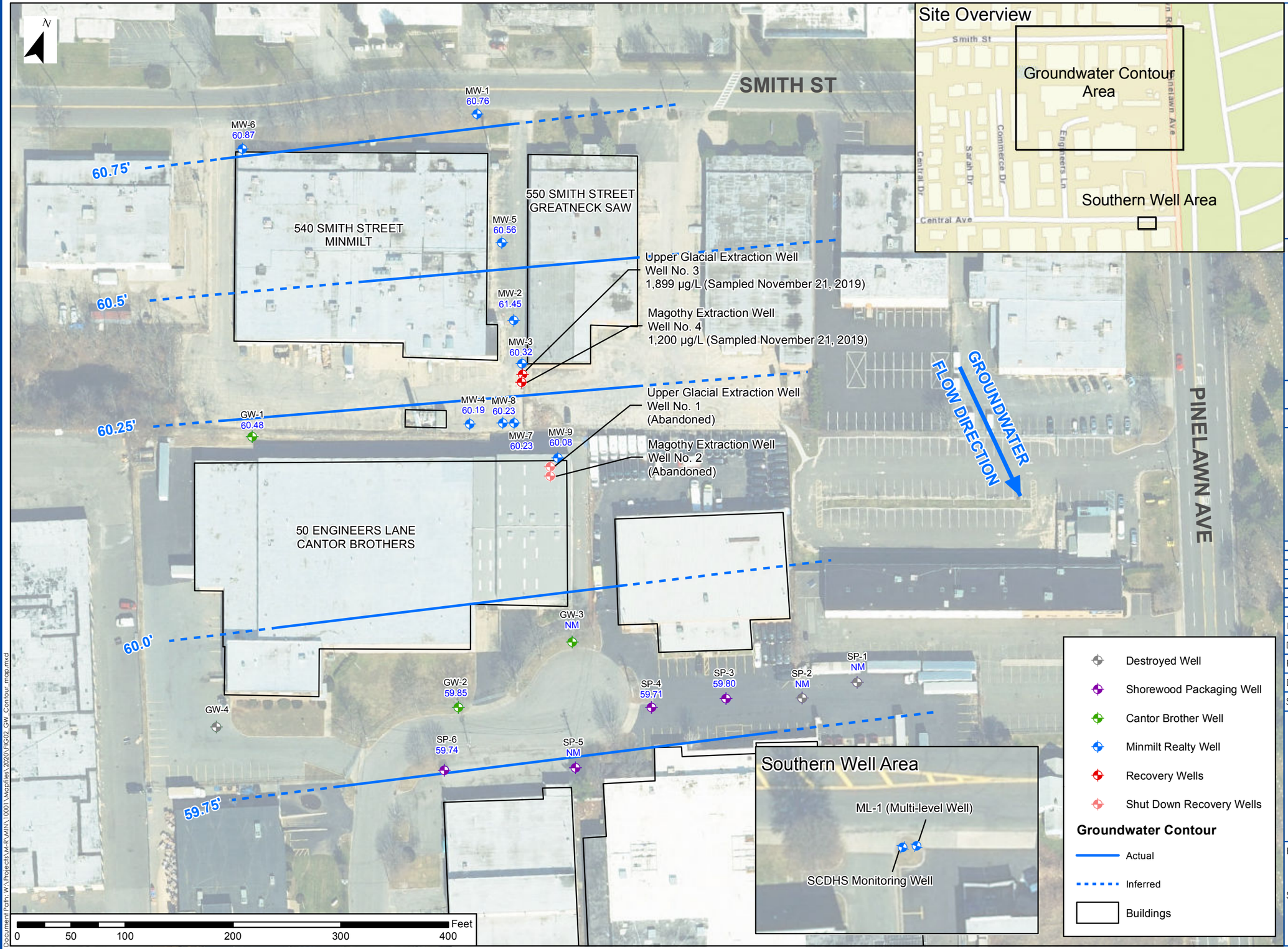
Project:	MIN1001	Designed by:	RB
Date:	6/18/2020	Drawn by:	PH
Scale:	AS SHOWN	Approved by:	RB

SITE LOCATION MAP

540 SMITH ST
EAST FARMINGDALE, NY

FIGURE NO:
1

SHEET:



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DRAWING PREPARED FOR:

PERIODIC REVIEW REPORT
MINMILT REALTY CORP.
352 CARNATION DRIVE
FARMINGDALE, NY 11735

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	MIN1001	Designed by:	RB
Date:	3/25/2020	Drawn by:	PH
Scale:	AS SHOWN	Approved by:	RB

GROUNDWATER CONTOUR MAP

540 SMITH ST
EAST FARMINGDALE, NY

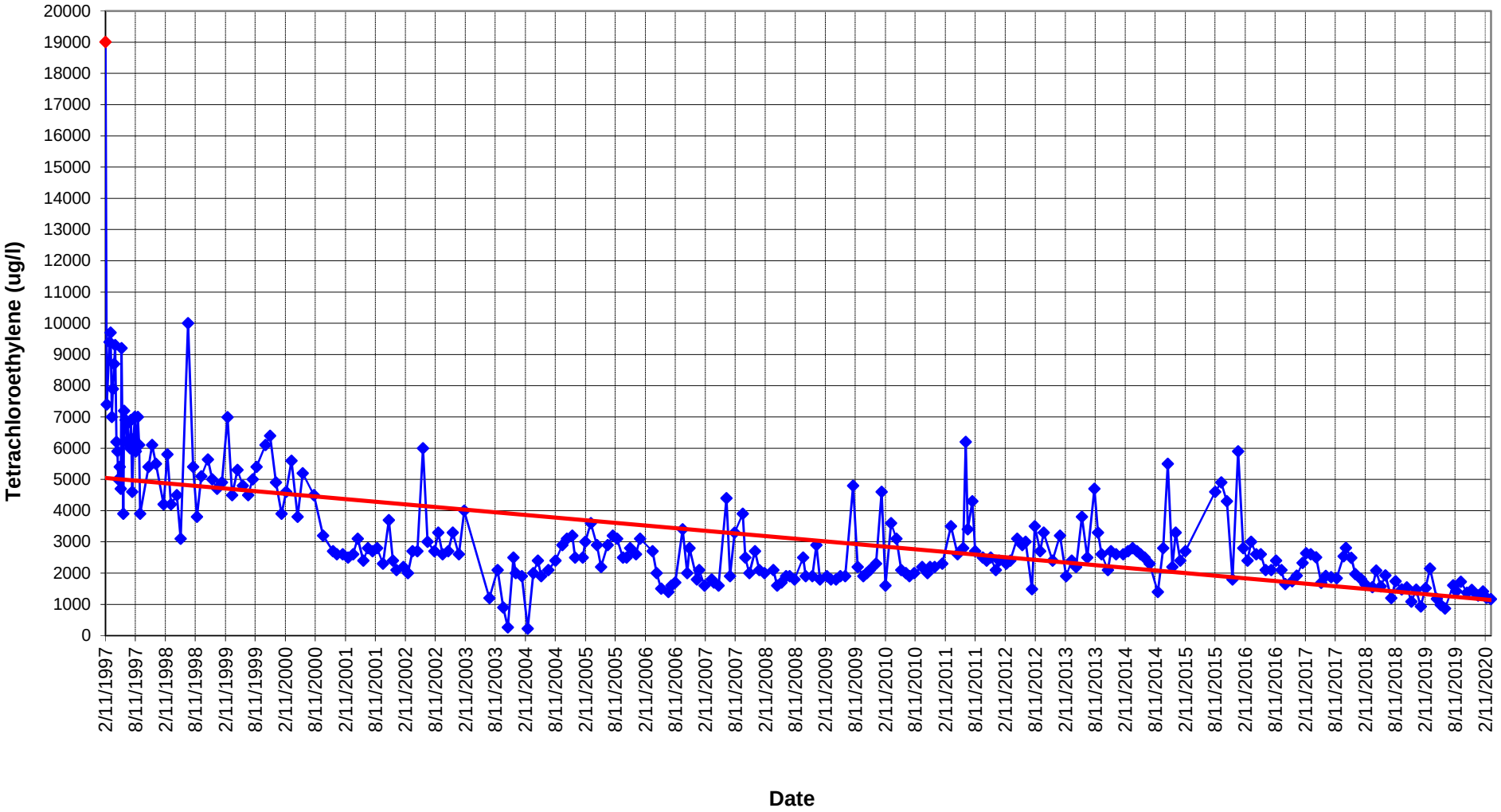
FIGURE NO:
2

SHEET:

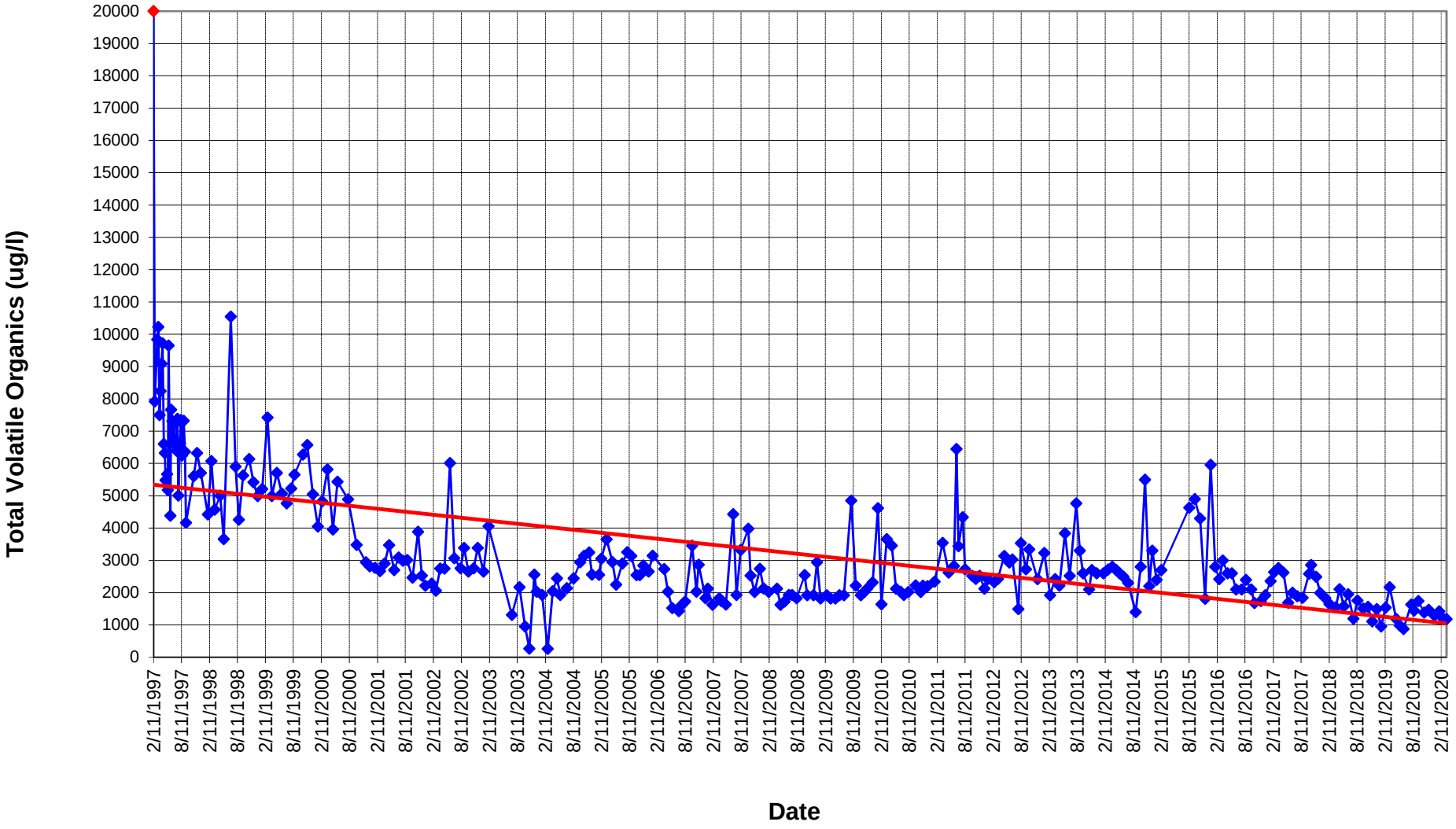
GRAPHS

P.W. GROSSER CONSULTING, INC.
P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
PHONE: 631.589.6353
PWGROSSER.COM
630 JOHNSON AVENUE, STE 7
BOHEMIA, NY 11716
LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SEATTLE • SHELTON

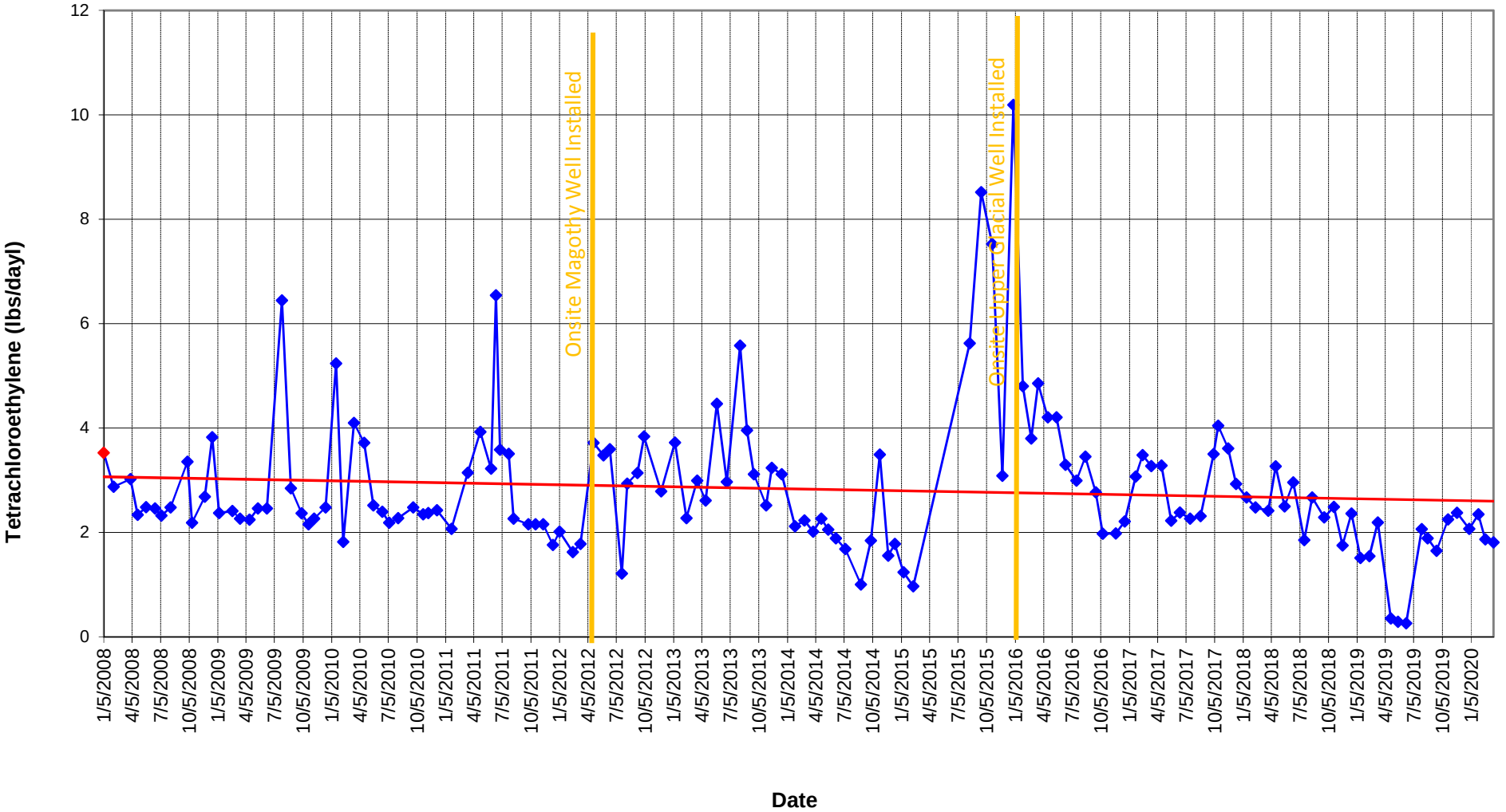
Graph 1
Tetrachloroethylene Concentrations
Combined RW System Influent



Graph 2
Total Volatile Organic Concentrations
Combined RW System Influent



Graph 3
Tetrachloroethylene Removal Rates
January 2008 through February 2020
Combined GW System Influent



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APPENDIX A

Annual Inspection Checklist

MINMILT REALTY SITE

540 SMITH STREET

FARMINGDALE, NEW YORK

Date: 11/06/2019

Inspector (name/organization): Regina Bykov / P.W. Grosser Consulting, Inc.

Detail the condition of monitoring wells – Confirm well integrity; note damage to well casing, j-plug, cover; note missing bolts:

The monitoring wells appear to be in good condition

Detail the condition of soil vapor extraction system, including, above grade piping, one blower, and one pressure alarm:

No damage was observed in the above-grade piping and/or blowers. The pressure readings indicated that the blowers were functioning as intended.

Detail the condition of ground cover and evidence of ground intrusive activity:

The site is stabilized with building, asphalt pavement and grass. No evidence of ground intrusive activities was observed.

Are any repairs and/or maintenance needed at this time? If so, conduct another inspection following repairs.

N/A

Regina Bykov , PG — 11/06/2019

Name — Signature — Date

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CLIENT DRIVEN SOLUTIONS

APPENDIX B

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

January 22, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

Sample: SYS-EFF **Lab ID: 7076687001** Collected: 01/15/19 10:40 Received: 01/15/19 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**700**	ug/L	100	1	01/16/19 09:51	01/16/19 18:06	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		01/16/19 15:38	67-64-1	
Benzene	ND	ug/L	1.0	1		01/16/19 15:38	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		01/16/19 15:38	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		01/16/19 15:38	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		01/16/19 15:38	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		01/16/19 15:38	78-93-3	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		01/16/19 15:38	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		01/16/19 15:38	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		01/16/19 15:38	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:38	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		01/16/19 15:38	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		01/16/19 15:38	74-87-3	CL
Dibromochloromethane	**<1.0**	ug/L	1.0	1		01/16/19 15:38	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:38	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:38	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		01/16/19 15:38	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		01/16/19 15:38	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		01/16/19 15:38	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		01/16/19 15:38	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		01/16/19 15:38	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		01/16/19 15:38	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		01/16/19 15:38	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		01/16/19 15:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		01/16/19 15:38	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		01/16/19 15:38	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:38	79-34-5	
Tetrachloroethene	**65.0**	ug/L	1.0	1		01/16/19 15:38	127-18-4	CL,D6
Toluene	**<1.0**	ug/L	1.0	1		01/16/19 15:38	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:38	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:38	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		01/16/19 15:38	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		01/16/19 15:38	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		01/16/19 15:38	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	68-153	1		01/16/19 15:38	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-124	1		01/16/19 15:38	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		01/16/19 15:38	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**7.6**	Std. Units	0.10	1		01/21/19 13:45		H3,H6
Temperature, Water (C)	**21.8**	deg C	0.10	1		01/21/19 13:45		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

Sample: SYS-INF **Lab ID: 7076687002** Collected: 01/15/19 10:50 Received: 01/15/19 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**549**	ug/L	100	1	01/16/19 09:51	01/16/19 18:09	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		01/16/19 15:59	67-64-1	
Benzene	ND	ug/L	1.0	1		01/16/19 15:59	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		01/16/19 15:59	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		01/16/19 15:59	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		01/16/19 15:59	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		01/16/19 15:59	78-93-3	L1
Carbon disulfide	**<1.0**	ug/L	1.0	1		01/16/19 15:59	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		01/16/19 15:59	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		01/16/19 15:59	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:59	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		01/16/19 15:59	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		01/16/19 15:59	74-87-3	CL
Dibromochloromethane	**<1.0**	ug/L	1.0	1		01/16/19 15:59	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:59	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:59	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		01/16/19 15:59	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		01/16/19 15:59	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		01/16/19 15:59	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		01/16/19 15:59	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		01/16/19 15:59	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		01/16/19 15:59	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		01/16/19 15:59	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		01/16/19 15:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		01/16/19 15:59	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		01/16/19 15:59	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:59	79-34-5	
Tetrachloroethene	**935**	ug/L	20.0	20		01/16/19 16:24	127-18-4	CL
Toluene	**<1.0**	ug/L	1.0	1		01/16/19 15:59	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:59	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		01/16/19 15:59	79-00-5	
Trichloroethene	**19.8**	ug/L	1.0	1		01/16/19 15:59	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		01/16/19 15:59	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		01/16/19 15:59	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	68-153	1		01/16/19 15:59	17060-07-0	
4-Bromofluorobenzene (S)	108	%	79-124	1		01/16/19 15:59	460-00-4	
Toluene-d8 (S)	111	%	69-124	1		01/16/19 15:59	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**6.6**	Std. Units	0.10	1		01/21/19 13:45		H3,H6
Temperature, Water (C)	**21.8**	deg C	0.10	1		01/21/19 13:45		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

QC Batch: 98452
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7076687001, 7076687002

METHOD BLANK: 455079
Matrix: Water
Associated Lab Samples: 7076687001, 7076687002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	01/16/19 17:34	

LABORATORY CONTROL SAMPLE: 455080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	2040	102	85-115	

MATRIX SPIKE SAMPLE: 455082

Parameter	Units	7076649001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	311	2000	2330	101	70-130	

SAMPLE DUPLICATE: 455081

Parameter	Units	7076649001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	311	323	4	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

QC Batch: 98573 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7076687001, 7076687002

METHOD BLANK: 455625 Matrix: Water
Associated Lab Samples: 7076687001, 7076687002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	01/16/19 12:29	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	01/16/19 12:29	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	01/16/19 12:29	
1,1-Dichloroethane	ug/L	<1.0	1.0	01/16/19 12:29	
1,1-Dichloroethene	ug/L	<1.0	1.0	01/16/19 12:29	
1,2-Dichloroethane	ug/L	<1.0	1.0	01/16/19 12:29	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	01/16/19 12:29	
1,2-Dichloropropane	ug/L	<1.0	1.0	01/16/19 12:29	
2-Butanone (MEK)	ug/L	<5.0	5.0	01/16/19 12:29	
2-Hexanone	ug/L	<5.0	5.0	01/16/19 12:29	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	01/16/19 12:29	
Acetone	ug/L	<5.0	5.0	01/16/19 12:29	
Benzene	ug/L	ND	1.0	01/16/19 12:29	
Bromodichloromethane	ug/L	<1.0	1.0	01/16/19 12:29	
Bromoform	ug/L	<1.0	1.0	01/16/19 12:29	
Bromomethane	ug/L	<1.0	1.0	01/16/19 12:29	CL
Carbon disulfide	ug/L	<1.0	1.0	01/16/19 12:29	
Carbon tetrachloride	ug/L	<1.0	1.0	01/16/19 12:29	
Chlorobenzene	ug/L	<1.0	1.0	01/16/19 12:29	
Chloroethane	ug/L	<1.0	1.0	01/16/19 12:29	
Chloroform	ug/L	<1.0	1.0	01/16/19 12:29	
Chloromethane	ug/L	<1.0	1.0	01/16/19 12:29	CL
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	01/16/19 12:29	
Dibromochloromethane	ug/L	<1.0	1.0	01/16/19 12:29	
Ethylbenzene	ug/L	<1.0	1.0	01/16/19 12:29	
Methylene Chloride	ug/L	<1.0	1.0	01/16/19 12:29	
Styrene	ug/L	<1.0	1.0	01/16/19 12:29	
Tetrachloroethene	ug/L	<1.0	1.0	01/16/19 12:29	CL
Toluene	ug/L	<1.0	1.0	01/16/19 12:29	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	01/16/19 12:29	
Trichloroethene	ug/L	<1.0	1.0	01/16/19 12:29	
Vinyl chloride	ug/L	<1.0	1.0	01/16/19 12:29	
Xylene (Total)	ug/L	<3.0	3.0	01/16/19 12:29	
1,2-Dichloroethane-d4 (S)	%	95	68-153	01/16/19 12:29	
4-Bromofluorobenzene (S)	%	100	79-124	01/16/19 12:29	
Toluene-d8 (S)	%	101	69-124	01/16/19 12:29	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

LABORATORY CONTROL SAMPLE: 455626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.9	94	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	44.2	88	74-121	
1,1,2-Trichloroethane	ug/L	50	47.2	94	80-117	
1,1-Dichloroethane	ug/L	50	47.9	96	83-151	
1,1-Dichloroethene	ug/L	50	46.9	94	45-146	
1,2-Dichloroethane	ug/L	50	52.1	104	74-129	
1,2-Dichloroethene (Total)	ug/L	100	100	100	60-140	
1,2-Dichloropropane	ug/L	50	48.6	97	75-117	
2-Butanone (MEK)	ug/L	50	82.5	165	44-162	CH,L1
2-Hexanone	ug/L	50	46.9	94	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	53.9	108	69-132	
Acetone	ug/L	50	58.5	117	23-188	
Benzene	ug/L	50	48.6	97	73-119	
Bromodichloromethane	ug/L	50	49.6	99	78-117	
Bromoform	ug/L	50	50.0	100	65-122	
Bromomethane	ug/L	50	40.7	81	52-147	CL
Carbon disulfide	ug/L	50	46.5	93	41-144	
Carbon tetrachloride	ug/L	50	47.6	95	59-120	
Chlorobenzene	ug/L	50	42.6	85	75-113	
Chloroethane	ug/L	50	44.2	88	49-151	
Chloroform	ug/L	50	48.0	96	72-122	
Chloromethane	ug/L	50	33.1	66	46-144	CL
cis-1,3-Dichloropropene	ug/L	50	46.2	92	78-116	
Dibromochloromethane	ug/L	50	45.2	90	70-120	
Ethylbenzene	ug/L	50	46.2	92	70-113	
Methylene Chloride	ug/L	50	45.3	91	61-142	
Styrene	ug/L	50	45.2	90	72-118	
Tetrachloroethene	ug/L	50	43.0	86	60-128	CL
Toluene	ug/L	50	50.0	100	72-119	
trans-1,3-Dichloropropene	ug/L	50	50.0	100	79-116	
Trichloroethene	ug/L	50	50.4	101	69-117	
Vinyl chloride	ug/L	50	39.2	78	43-143	
Xylene (Total)	ug/L	150	131	87	71-109	
1,2-Dichloroethane-d4 (S)	%			99	68-153	
4-Bromofluorobenzene (S)	%			105	79-124	
Toluene-d8 (S)	%			94	69-124	

MATRIX SPIKE SAMPLE: 455628

Parameter	Units	7076738002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	43.7	87	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	37.2	74	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	40.3	81	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	44.9	90	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	46.8	94	45-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

MATRIX SPIKE SAMPLE: 455628

Parameter	Units	7076738002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	45.4	91	74-129	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	90.5	91	60-140	
1,2-Dichloropropane	ug/L	<1.0	50	42.1	84	75-117	
2-Butanone (MEK)	ug/L	<5.0	50	68.3	137	44-162	CH
2-Hexanone	ug/L	<5.0	50	41.4	83	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	45.1	90	69-132	
Acetone	ug/L	<5.0	50	37.3	75	23-188	
Benzene	ug/L	<1.0	50	44.0	88	73-119	
Bromodichloromethane	ug/L	<1.0	50	44.0	88	78-117	
Bromoform	ug/L	<1.0	50	41.2	82	65-122	
Bromomethane	ug/L	<1.0	50	39.7	79	52-147	CL
Carbon disulfide	ug/L	<1.0	50	47.1	94	41-144	
Carbon tetrachloride	ug/L	<1.0	50	44.6	89	59-120	
Chlorobenzene	ug/L	<1.0	50	37.8	76	75-113	
Chloroethane	ug/L	<1.0	50	43.6	87	49-151	
Chloroform	ug/L	<1.0	50	43.8	88	72-122	
Chloromethane	ug/L	<1.0	50	32.9	66	46-144	CL
cis-1,3-Dichloropropene	ug/L	<1.0	50	41.1	82	78-116	
Dibromochloromethane	ug/L	<1.0	50	38.7	77	70-120	
Ethylbenzene	ug/L	<1.0	50	42.8	86	70-113	
Methylene Chloride	ug/L	<1.0	50	40.1	80	61-142	
Styrene	ug/L	<1.0	50	40.9	82	72-118	
Tetrachloroethene	ug/L	<1.0	50	30.5	61	60-128	CL
Toluene	ug/L	<1.0	50	44.0	88	72-119	
trans-1,3-Dichloropropene	ug/L	<1.0	50	41.3	83	79-116	
Trichloroethene	ug/L	<1.0	50	46.1	92	69-117	
Vinyl chloride	ug/L	<1.0	50	38.4	77	43-143	
Xylene (Total)	ug/L	<3.0	150	121	81	71-109	
1,2-Dichloroethane-d4 (S)	%				98	68-153	
4-Bromofluorobenzene (S)	%				107	79-124	
Toluene-d8 (S)	%				101	69-124	

SAMPLE DUPLICATE: 455627

Parameter	Units	7076687001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Hexanone	ug/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

SAMPLE DUPLICATE: 455627

Parameter	Units	7076687001 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	ND	ND		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		CL
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		CL
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	65.0	2.9	183	CL,D6
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	96	95	1	
4-Bromofluorobenzene (S)	%	103	102	1	
Toluene-d8 (S)	%	96	100	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

QC Batch: 98920
QC Batch Method: SM22 4500-H+B
Analysis Method: SM22 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 7076687001, 7076687002

SAMPLE DUPLICATE: 457606

Parameter	Units	7076275001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.2	7.2	0	H3,H6
Temperature, Water (C)	deg C	21.7	21.7	0	H3,H6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT MONTHLY-1/15
Pace Project No.: 7076687

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7076687001	**SYS-EFF**	EPA 200.7	98452	EPA 200.7	98467
7076687002	**SYS-INF**	EPA 200.7	98452	EPA 200.7	98467
7076687001	**SYS-EFF**	EPA 8260C/5030C	98573		
7076687002	**SYS-INF**	EPA 8260C/5030C	98573		
7076687001	**SYS-EFF**	SM22 4500-H+B	98920		
7076687002	**SYS-INF**	SM22 4500-H+B	98920		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Reques

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields

WO# : 7076687

7076687

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	P.W. Grosser Engineer & Hydrogeologist	Report To:	Kaitlyn Crosby	Attention:	Same as Client
Address:	630 Johnson Avenue	Copy To:		Company Name:	
	Bohemia, NY 11716			Address:	
Email:	kcrosby@pwgrosser.com	Purchase Order #:		Pace Quote:	
Phone:	(631) 589-6353 Fax:	Project Name:	MINMILT MONTHLY	Pace Project Manager:	betty.harrison@pacelabs.com,
Requested Due Date:	Standard	Project #:	MIN1001	Pace Profile #:	5392

Regulatory Agency	
State / Location	NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	200.7 ICP Metals	4500H+B pH	8260 Full List	Residual Chlorine (Y/N)
1	SYS-EFF	WT		—	—	1-15-19	1040		4	X		X	X						X	X	X	
2	SYS-INF	WT		—	—	↓	1050		4	X		X	X						X	X	X	
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PWGC	1-15-19	1110		1-15-19	11:10	11.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: [signature] DATE Signed: 01/15/19

Pace Analytical
Long Island Laboratory

Sample Condition Upon R

WO#: 7076687
PM: EMH Due Date: 01/29/19
CLIENT: PWG

Client Name: PW GROSSER

Pro

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No

Temperature Blank Present: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Type of Ice: Wet / Blue None

SK 1/15/19

Thermometer Used: TH091 **Correction Factor:** 0.0

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 11.6 **Cooler Temperature Corrected (°C):** 11.6

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Date and Initials of person examining contents: SK 1/15/19

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC857466				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑Yes	☐No	☐N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

February 27, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on February 13, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

Sample: SYS-EFF **Lab ID: 7079352001** Collected: 02/13/19 10:30 Received: 02/13/19 11:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**988**	ug/L	100	1	02/15/19 09:00	02/18/19 13:21	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		02/17/19 20:35	67-64-1	CH
Benzene	ND	ug/L	1.0	1		02/17/19 20:35	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		02/17/19 20:35	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		02/17/19 20:35	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		02/17/19 20:35	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		02/17/19 20:35	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		02/17/19 20:35	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		02/17/19 20:35	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		02/17/19 20:35	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:35	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		02/17/19 20:35	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		02/17/19 20:35	74-87-3	CL
Dibromochloromethane	**<1.0**	ug/L	1.0	1		02/17/19 20:35	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:35	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:35	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		02/17/19 20:35	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		02/17/19 20:35	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		02/17/19 20:35	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		02/17/19 20:35	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		02/17/19 20:35	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		02/17/19 20:35	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		02/17/19 20:35	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		02/17/19 20:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		02/17/19 20:35	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		02/17/19 20:35	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:35	79-34-5	
Tetrachloroethene	**6.3**	ug/L	1.0	1		02/17/19 20:35	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		02/17/19 20:35	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:35	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:35	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		02/17/19 20:35	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		02/17/19 20:35	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		02/17/19 20:35	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	68-153	1		02/17/19 20:35	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		02/17/19 20:35	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		02/17/19 20:35	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**7.4**	Std. Units	0.10	1		02/18/19 13:05		H3,H6
Temperature, Water (C)	**22.9**	deg C	0.10	1		02/18/19 13:05		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

Sample: SYS-INF **Lab ID: 7079352002** Collected: 02/13/19 10:40 Received: 02/13/19 11:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**649**	ug/L	100	1	02/15/19 09:00	02/18/19 13:22	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		02/20/19 13:10	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/19 13:10	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		02/20/19 13:10	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		02/20/19 13:10	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		02/20/19 13:10	74-83-9	L2
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		02/20/19 13:10	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		02/20/19 13:10	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		02/20/19 13:10	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		02/20/19 13:10	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		02/20/19 13:10	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		02/20/19 13:10	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		02/20/19 13:10	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		02/20/19 13:10	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		02/20/19 13:10	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		02/20/19 13:10	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		02/20/19 13:10	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		02/20/19 13:10	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		02/20/19 13:10	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		02/20/19 13:10	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		02/20/19 13:10	10061-02-6	L1
Ethylbenzene	**<1.0**	ug/L	1.0	1		02/20/19 13:10	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		02/20/19 13:10	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		02/20/19 13:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		02/20/19 13:10	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		02/20/19 13:10	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		02/20/19 13:10	79-34-5	
Tetrachloroethene	**1520**	ug/L	20.0	20		02/20/19 14:04	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		02/20/19 13:10	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		02/20/19 13:10	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		02/20/19 13:10	79-00-5	
Trichloroethene	**18.6**	ug/L	1.0	1		02/20/19 13:10	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		02/20/19 13:10	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		02/20/19 13:10	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	68-153	1		02/20/19 13:10	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-124	1		02/20/19 13:10	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		02/20/19 13:10	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**5.9**	Std. Units	0.10	1		02/18/19 13:05		H3,H6
Temperature, Water (C)	**22.9**	deg C	0.10	1		02/18/19 13:05		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

Sample: MAG **Lab ID: 7079352003** Collected: 02/13/19 10:50 Received: 02/13/19 11:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**1960**	ug/L	100	1	02/15/19 09:00	02/18/19 13:24	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		02/17/19 20:53	67-64-1	
Benzene	ND	ug/L	1.0	1		02/17/19 20:53	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		02/17/19 20:53	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		02/17/19 20:53	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		02/17/19 20:53	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		02/17/19 20:53	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		02/17/19 20:53	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		02/17/19 20:53	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		02/17/19 20:53	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:53	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		02/17/19 20:53	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		02/17/19 20:53	74-87-3	CL
Dibromochloromethane	**<1.0**	ug/L	1.0	1		02/17/19 20:53	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:53	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:53	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		02/17/19 20:53	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		02/17/19 20:53	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		02/17/19 20:53	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		02/17/19 20:53	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		02/17/19 20:53	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		02/17/19 20:53	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		02/17/19 20:53	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		02/17/19 20:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		02/17/19 20:53	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		02/17/19 20:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:53	79-34-5	
Tetrachloroethene	**1130**	ug/L	10.0	10		02/20/19 11:58	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		02/17/19 20:53	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:53	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 20:53	79-00-5	
Trichloroethene	**6.1**	ug/L	1.0	1		02/17/19 20:53	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		02/17/19 20:53	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		02/17/19 20:53	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	68-153	1		02/17/19 20:53	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		02/17/19 20:53	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		02/17/19 20:53	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**5.8**	Std. Units	0.10	1		02/18/19 13:06		H3,H6
Temperature, Water (C)	**22.9**	deg C	0.10	1		02/18/19 13:06		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

Sample: UG **Lab ID: 7079352004** Collected: 02/13/19 10:45 Received: 02/13/19 11:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**531**	ug/L	100	1	02/15/19 09:00	02/18/19 13:25	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		02/17/19 21:11	67-64-1	
Benzene	ND	ug/L	1.0	1		02/17/19 21:11	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		02/17/19 21:11	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		02/17/19 21:11	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		02/17/19 21:11	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		02/17/19 21:11	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		02/17/19 21:11	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		02/17/19 21:11	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		02/17/19 21:11	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		02/17/19 21:11	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		02/17/19 21:11	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		02/17/19 21:11	74-87-3	CL
Dibromochloromethane	**<1.0**	ug/L	1.0	1		02/17/19 21:11	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 21:11	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 21:11	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		02/17/19 21:11	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		02/17/19 21:11	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		02/17/19 21:11	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		02/17/19 21:11	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		02/17/19 21:11	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		02/17/19 21:11	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		02/17/19 21:11	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		02/17/19 21:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		02/17/19 21:11	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		02/17/19 21:11	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		02/17/19 21:11	79-34-5	
Tetrachloroethene	**1990**	ug/L	20.0	20		02/20/19 12:16	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		02/17/19 21:11	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 21:11	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		02/17/19 21:11	79-00-5	
Trichloroethene	**22.4**	ug/L	1.0	1		02/17/19 21:11	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		02/17/19 21:11	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		02/17/19 21:11	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		02/17/19 21:11	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		02/17/19 21:11	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		02/17/19 21:11	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**6.0**	Std. Units	0.10	1		02/18/19 13:06		H3,H6
Temperature, Water (C)	**22.9**	deg C	0.10	1		02/18/19 13:06		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

QC Batch: 102004 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7079352001, 7079352002, 7079352003, 7079352004

METHOD BLANK: 471595 Matrix: Water
Associated Lab Samples: 7079352001, 7079352002, 7079352003, 7079352004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	02/18/19 13:07	

LABORATORY CONTROL SAMPLE: 471596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	2010	100	85-115	

MATRIX SPIKE SAMPLE: 471599

Parameter	Units	7079468001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	213	2000	2130	96	70-130	

SAMPLE DUPLICATE: 471597

Parameter	Units	7079468001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	213	216	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

QC Batch: 102129 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7079352001, 7079352003, 7079352004

METHOD BLANK: 472527 Matrix: Water
Associated Lab Samples: 7079352001, 7079352003, 7079352004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	02/17/19 16:15	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	02/17/19 16:15	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	02/17/19 16:15	
1,1-Dichloroethane	ug/L	<1.0	1.0	02/17/19 16:15	
1,1-Dichloroethene	ug/L	<1.0	1.0	02/17/19 16:15	
1,2-Dichloroethane	ug/L	<1.0	1.0	02/17/19 16:15	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	02/17/19 16:15	
1,2-Dichloropropane	ug/L	<1.0	1.0	02/17/19 16:15	
2-Butanone (MEK)	ug/L	<5.0	5.0	02/17/19 16:15	IL
2-Hexanone	ug/L	<5.0	5.0	02/17/19 16:15	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	02/17/19 16:15	
Acetone	ug/L	<5.0	5.0	02/17/19 16:15	
Benzene	ug/L	ND	1.0	02/17/19 16:15	
Bromodichloromethane	ug/L	<1.0	1.0	02/17/19 16:15	
Bromoform	ug/L	<1.0	1.0	02/17/19 16:15	
Bromomethane	ug/L	<1.0	1.0	02/17/19 16:15	
Carbon disulfide	ug/L	<1.0	1.0	02/17/19 16:15	
Carbon tetrachloride	ug/L	<1.0	1.0	02/17/19 16:15	
Chlorobenzene	ug/L	<1.0	1.0	02/17/19 16:15	
Chloroethane	ug/L	<1.0	1.0	02/17/19 16:15	
Chloroform	ug/L	<1.0	1.0	02/17/19 16:15	
Chloromethane	ug/L	<1.0	1.0	02/17/19 16:15	CL
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	02/17/19 16:15	
Dibromochloromethane	ug/L	<1.0	1.0	02/17/19 16:15	
Ethylbenzene	ug/L	<1.0	1.0	02/17/19 16:15	
Methylene Chloride	ug/L	<1.0	1.0	02/17/19 16:15	
Styrene	ug/L	<1.0	1.0	02/17/19 16:15	
Tetrachloroethene	ug/L	<1.0	1.0	02/17/19 16:15	
Toluene	ug/L	<1.0	1.0	02/17/19 16:15	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	02/17/19 16:15	
Trichloroethene	ug/L	<1.0	1.0	02/17/19 16:15	
Vinyl chloride	ug/L	<1.0	1.0	02/17/19 16:15	
Xylene (Total)	ug/L	<3.0	3.0	02/17/19 16:15	
1,2-Dichloroethane-d4 (S)	%	91	68-153	02/17/19 16:15	
4-Bromofluorobenzene (S)	%	99	79-124	02/17/19 16:15	
Toluene-d8 (S)	%	91	69-124	02/17/19 16:15	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

LABORATORY CONTROL SAMPLE: 472528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.4	87	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	46.1	92	74-121	
1,1,2-Trichloroethane	ug/L	50	49.1	98	80-117	
1,1-Dichloroethane	ug/L	50	44.3	89	83-151	
1,1-Dichloroethene	ug/L	50	42.6	85	45-146	
1,2-Dichloroethane	ug/L	50	44.8	90	74-129	
1,2-Dichloroethene (Total)	ug/L	100	87.9	88	60-140	
1,2-Dichloropropane	ug/L	50	46.7	93	75-117	
2-Butanone (MEK)	ug/L	50	44.8	90	44-162	IL
2-Hexanone	ug/L	50	43.1	86	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	49.0	98	69-132	
Acetone	ug/L	50	42.0	84	23-188	CH
Benzene	ug/L	50	42.6	85	73-119	
Bromodichloromethane	ug/L	50	44.4	89	78-117	
Bromoform	ug/L	50	45.6	91	65-122	
Bromomethane	ug/L	50	31.4	63	52-147	
Carbon disulfide	ug/L	50	39.1	78	41-144	
Carbon tetrachloride	ug/L	50	42.7	85	59-120	
Chlorobenzene	ug/L	50	45.3	91	75-113	
Chloroethane	ug/L	50	39.0	78	49-151	
Chloroform	ug/L	50	44.0	88	72-122	
Chloromethane	ug/L	50	33.9	68	46-144	CL
cis-1,3-Dichloropropene	ug/L	50	49.5	99	78-116	
Dibromochloromethane	ug/L	50	44.7	89	70-120	
Ethylbenzene	ug/L	50	44.3	89	70-113	
Methylene Chloride	ug/L	50	45.1	90	61-142	
Styrene	ug/L	50	46.3	93	72-118	
Tetrachloroethene	ug/L	50	43.0	86	60-128	
Toluene	ug/L	50	44.4	89	72-119	
trans-1,3-Dichloropropene	ug/L	50	53.7	107	79-116	
Trichloroethene	ug/L	50	46.0	92	69-117	
Vinyl chloride	ug/L	50	37.3	75	43-143	
Xylene (Total)	ug/L	150	133	89	71-109	
1,2-Dichloroethane-d4 (S)	%			92	68-153	
4-Bromofluorobenzene (S)	%			102	79-124	
Toluene-d8 (S)	%			92	69-124	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

QC Batch: 102459
QC Batch Method: EPA 8260C/5030C
Associated Lab Samples: 7079352002

Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV

METHOD BLANK: 473833
Matrix: Water
Associated Lab Samples: 7079352002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	02/20/19 09:07	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	02/20/19 09:07	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	02/20/19 09:07	
1,1-Dichloroethane	ug/L	<1.0	1.0	02/20/19 09:07	
1,1-Dichloroethene	ug/L	<1.0	1.0	02/20/19 09:07	
1,2-Dichloroethane	ug/L	<1.0	1.0	02/20/19 09:07	
1,2-Dichloropropane	ug/L	<1.0	1.0	02/20/19 09:07	
2-Butanone (MEK)	ug/L	<5.0	5.0	02/20/19 09:07	IL
2-Hexanone	ug/L	<5.0	5.0	02/20/19 09:07	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	02/20/19 09:07	
Acetone	ug/L	<5.0	5.0	02/20/19 09:07	
Benzene	ug/L	ND	1.0	02/20/19 09:07	
Bromodichloromethane	ug/L	<1.0	1.0	02/20/19 09:07	
Bromoform	ug/L	<1.0	1.0	02/20/19 09:07	
Bromomethane	ug/L	<1.0	1.0	02/20/19 09:07	
Carbon disulfide	ug/L	<1.0	1.0	02/20/19 09:07	
Carbon tetrachloride	ug/L	<1.0	1.0	02/20/19 09:07	
Chlorobenzene	ug/L	<1.0	1.0	02/20/19 09:07	
Chloroethane	ug/L	<1.0	1.0	02/20/19 09:07	
Chloroform	ug/L	<1.0	1.0	02/20/19 09:07	
Chloromethane	ug/L	<1.0	1.0	02/20/19 09:07	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	02/20/19 09:07	
Dibromochloromethane	ug/L	<1.0	1.0	02/20/19 09:07	
Ethylbenzene	ug/L	<1.0	1.0	02/20/19 09:07	
Methylene Chloride	ug/L	<1.0	1.0	02/20/19 09:07	
Styrene	ug/L	<1.0	1.0	02/20/19 09:07	
Tetrachloroethene	ug/L	<1.0	1.0	02/20/19 09:07	
Toluene	ug/L	<1.0	1.0	02/20/19 09:07	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	02/20/19 09:07	
Trichloroethene	ug/L	<1.0	1.0	02/20/19 09:07	
Vinyl chloride	ug/L	<1.0	1.0	02/20/19 09:07	
Xylene (Total)	ug/L	<3.0	3.0	02/20/19 09:07	
1,2-Dichloroethane-d4 (S)	%	89	68-153	02/20/19 09:07	
4-Bromofluorobenzene (S)	%	99	79-124	02/20/19 09:07	
Toluene-d8 (S)	%	92	69-124	02/20/19 09:07	

LABORATORY CONTROL SAMPLE: 473834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.1	96	65-118	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

LABORATORY CONTROL SAMPLE: 473834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	74-121	
1,1,2-Trichloroethane	ug/L	50	55.5	111	80-117	
1,1-Dichloroethane	ug/L	50	48.7	97	83-151	
1,1-Dichloroethene	ug/L	50	48.2	96	45-146	
1,2-Dichloroethane	ug/L	50	48.8	98	74-129	
1,2-Dichloropropane	ug/L	50	51.3	103	75-117	
2-Butanone (MEK)	ug/L	50	45.1	90	44-162	IL
2-Hexanone	ug/L	50	46.2	92	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	52.7	105	69-132	
Acetone	ug/L	50	39.0	78	23-188	
Benzene	ug/L	50	47.3	95	73-119	
Bromodichloromethane	ug/L	50	49.0	98	78-117	
Bromoform	ug/L	50	49.9	100	65-122	
Bromomethane	ug/L	50	9.8	20	52-147	L2
Carbon disulfide	ug/L	50	45.0	90	41-144	
Carbon tetrachloride	ug/L	50	46.6	93	59-120	
Chlorobenzene	ug/L	50	49.3	99	75-113	
Chloroethane	ug/L	50	41.7	83	49-151	
Chloroform	ug/L	50	48.2	96	72-122	
Chloromethane	ug/L	50	41.2	82	46-144	
cis-1,3-Dichloropropene	ug/L	50	54.9	110	78-116	
Dibromochloromethane	ug/L	50	48.4	97	70-120	
Ethylbenzene	ug/L	50	48.5	97	70-113	
Methylene Chloride	ug/L	50	49.7	99	61-142	
Styrene	ug/L	50	50.4	101	72-118	
Tetrachloroethene	ug/L	50	47.1	94	60-128	
Toluene	ug/L	50	49.0	98	72-119	
trans-1,3-Dichloropropene	ug/L	50	59.2	118	79-116	L1
Trichloroethene	ug/L	50	51.1	102	69-117	
Vinyl chloride	ug/L	50	46.1	92	43-143	
Xylene (Total)	ug/L	150	145	97	71-109	
1,2-Dichloroethane-d4 (S)	%			88	68-153	
4-Bromofluorobenzene (S)	%			101	79-124	
Toluene-d8 (S)	%			91	69-124	

MATRIX SPIKE SAMPLE: 475660

Parameter	Units	7079662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L			46.4			
1,1,2,2-Tetrachloroethane	ug/L			46.2			
1,1,2-Trichloroethane	ug/L			49.5			
1,1-Dichloroethane	ug/L			47.2			
1,1-Dichloroethene	ug/L			47.9			
1,2-Dichloroethane	ug/L			45.8			
1,2-Dichloroethene (Total)	ug/L			95.6			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

MATRIX SPIKE SAMPLE: 475660

Parameter	Units	7079662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L			48.1			
2-Butanone (MEK)	ug/L			44.9			IL
2-Hexanone	ug/L			41.9			
4-Methyl-2-pentanone (MIBK)	ug/L			48.7			
Acetone	ug/L			46.9			
Benzene	ug/L	<1.0	50	45.5	91	73-119	
Bromodichloromethane	ug/L			45.5			
Bromoform	ug/L			45.2			
Bromomethane	ug/L			40.7			
Carbon disulfide	ug/L			44.1			
Carbon tetrachloride	ug/L			45.0			
Chlorobenzene	ug/L			46.3			
Chloroethane	ug/L			44.7			
Chloroform	ug/L			46.1			
Chloromethane	ug/L			37.2			
cis-1,3-Dichloropropene	ug/L			50.4			
Dibromochloromethane	ug/L			44.4			
Ethylbenzene	ug/L	<1.0	50	46.6	93	70-113	
Methylene Chloride	ug/L			47.1			
Styrene	ug/L			47.4			
Tetrachloroethene	ug/L			45.0			
Toluene	ug/L	<1.0	50	47.0	94	72-119	
trans-1,3-Dichloropropene	ug/L			54.1			
Trichloroethene	ug/L			49.5			
Vinyl chloride	ug/L			43.1			
Xylene (Total)	ug/L	<3.0	150	138	92	71-109	
1,2-Dichloroethane-d4 (S)	%				89	68-153	
4-Bromofluorobenzene (S)	%				103	79-124	
Toluene-d8 (S)	%				92	69-124	

SAMPLE DUPLICATE: 475661

Parameter	Units	2096231005 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	ND	<1.0		
1,1,2-Trichloroethane	ug/L	ND	<1.0		
1,1-Dichloroethane	ug/L	ND	<1.0		
1,1-Dichloroethene	ug/L	ND	<1.0		
1,2-Dichloroethane	ug/L	ND	<1.0		
1,2-Dichloroethene (Total)	ug/L		<2.0		
1,2-Dichloropropane	ug/L	ND	<1.0		
2-Butanone (MEK)	ug/L	ND	<5.0		IL
2-Hexanone	ug/L	ND	<5.0		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	<5.0		
Acetone	ug/L	15.9	18.8	16	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

SAMPLE DUPLICATE: 475661

Parameter	Units	2096231005 Result	Dup Result	RPD	Qualifiers
Benzene	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	<1.0		
Bromoform	ug/L	ND	<1.0		
Bromomethane	ug/L	ND	<1.0		
Carbon disulfide	ug/L	ND	<1.0		
Carbon tetrachloride	ug/L	ND	<1.0		
Chlorobenzene	ug/L	ND	<1.0		
Chloroethane	ug/L	ND	<1.0		
Chloroform	ug/L	ND	<1.0		
Chloromethane	ug/L	ND	<1.0		
cis-1,3-Dichloropropene	ug/L	ND	<1.0		
Dibromochloromethane	ug/L	ND	<1.0		
Ethylbenzene	ug/L	ND	<1.0		
Methylene Chloride	ug/L	ND	<1.0		
Styrene	ug/L	ND	<1.0		
Tetrachloroethene	ug/L	ND	<1.0		
Toluene	ug/L	ND	<1.0		
trans-1,3-Dichloropropene	ug/L	ND	<1.0		
Trichloroethene	ug/L	ND	<1.0		
Vinyl chloride	ug/L	ND	<1.0		
Xylene (Total)	ug/L	ND	<3.0		
1,2-Dichloroethane-d4 (S)	%	91	89	2	
4-Bromofluorobenzene (S)	%	98	99	1	
Toluene-d8 (S)	%	91	91	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

QC Batch: 102178 Analysis Method: SM22 4500-H+B
QC Batch Method: SM22 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 7079352001, 7079352002, 7079352003, 7079352004

SAMPLE DUPLICATE: 472654

Parameter	Units	7079001001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.9	6.9	0	H3,H6
Temperature, Water (C)	deg C	22.9	22.9	0	H3,H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT MONTHLY 2/13
Pace Project No.: 7079352

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7079352001	**SYS-EFF**	EPA 200.7	102004	EPA 200.7	102011
7079352002	**SYS-INF**	EPA 200.7	102004	EPA 200.7	102011
7079352003	**MAG**	EPA 200.7	102004	EPA 200.7	102011
7079352004	**UG**	EPA 200.7	102004	EPA 200.7	102011
7079352001	**SYS-EFF**	EPA 8260C/5030C	102129		
7079352002	**SYS-INF**	EPA 8260C/5030C	102459		
7079352003	**MAG**	EPA 8260C/5030C	102129		
7079352004	**UG**	EPA 8260C/5030C	102129		
7079352001	**SYS-EFF**	SM22 4500-H+B	102178		
7079352002	**SYS-INF**	SM22 4500-H+B	102178		
7079352003	**MAG**	SM22 4500-H+B	102178		
7079352004	**UG**	SM22 4500-H+B	102178		

WO#:7079352

7079352

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Required Project Information:		Section C Invoice Information:	
Company: P.W. Grosser Engineer & Hydrogeologist	Report To: Kaitlyn Crosby	Attention: same as Client	
Address: 630 Johnson Avenue	Copy To:	Company Name:	Regulatory Agency
Bohemia, NY 11716		Address:	
Email: kcrosby@pwgrosser.com	Purchase Order #:	Pace Quote:	
Phone: (631) 589-6353 Fax:	Project Name: MINMILT MONTHLY	Pace Project Manager: betty.harrison@pacelabs.com,	State / Location
Requested Due Date: Standard	Project #: MIN1001	Pace Profile #: 5392	NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	200.7 ICP Metals	4500H+B pH	8260 Full List	Residual Chlorine (Y/N)	
1	SYS-EFF	WT		—	—	2-13-19	1030		4	X		X	X						X	X	X		001
2	SYS-INF	WT		—	—		1040												X	X	X		002
3	MAG			—	—		1050												X	X	X		003
4	UG			—	—		1045												X	X	X		004
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	PWGC	2-13-19	1114		2-13-19	11:14	9.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: DATE Signed: 02/13/19

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical
Long Island Laboratory

Sample Condition Upon Receipt

WO#: 7079352
PM: EMH Due Date: 02/27/19
CLIENT: PWG

Client Name: PWGROSSER **Projec**

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals intact:** ☐ Yes ☐ No **Temperature Blank Present:** ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ Other **Type of Ice:** Wet Blue None

Thermometer Used: TH091 **Correction Factor:** 0.0 ☒ Samples on ice, cooling process has begun

Cooler Temperature (°C): 9.6 **Cooler Temperature Corrected (°C):** 9.6 **Date/Time 5035A kits placed in freezer**

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample) **Date and Initials of person examining contents:** JK 2/13/19

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC857466				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Sample #
				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

*** PM (Project Manager) review is documented electronically in LIMS.**

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

March 14, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMILT MONTHLY-3/12
Pace Project No.: 7082025

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMILT MONTHLY-3/12
Pace Project No.: 7082025

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY-3/12
Pace Project No.: 7082025

Sample: SYS-EFF **Lab ID: 7082025001** Collected: 03/12/19 11:00 Received: 03/12/19 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**491**	ug/L	100	1	03/13/19 10:27	03/13/19 22:02	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/14/19 11:13	67-64-1	
Benzene	ND	ug/L	1.0	1		03/14/19 11:13	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/14/19 11:13	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/14/19 11:13	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/14/19 11:13	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/14/19 11:13	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/14/19 11:13	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/14/19 11:13	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/14/19 11:13	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:13	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/14/19 11:13	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/14/19 11:13	74-87-3	CL
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/14/19 11:13	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:13	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:13	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/14/19 11:13	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/14/19 11:13	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/14/19 11:13	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/14/19 11:13	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/14/19 11:13	10061-02-6	L1
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/14/19 11:13	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/14/19 11:13	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/14/19 11:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/14/19 11:13	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/14/19 11:13	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:13	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/14/19 11:13	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/14/19 11:13	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:13	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:13	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/14/19 11:13	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/14/19 11:13	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/14/19 11:13	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		03/14/19 11:13	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-124	1		03/14/19 11:13	460-00-4	
Toluene-d8 (S)	104	%	69-124	1		03/14/19 11:13	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**7.0**	Std. Units	0.10	1		03/13/19 09:43		H3,H6
Temperature, Water (C)	**23.4**	deg C	0.10	1		03/13/19 09:43		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY-3/12
Pace Project No.: 7082025

Sample: SYS-INF **Lab ID: 7082025002** Collected: 03/12/19 11:10 Received: 03/12/19 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**463**	ug/L	100	1	03/13/19 10:27	03/13/19 22:08	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/14/19 11:31	67-64-1	
Benzene	ND	ug/L	1.0	1		03/14/19 11:31	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/14/19 11:31	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/14/19 11:31	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/14/19 11:31	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/14/19 11:31	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/14/19 11:31	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/14/19 11:31	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/14/19 11:31	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:31	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/14/19 11:31	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/14/19 11:31	74-87-3	CL
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/14/19 11:31	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:31	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:31	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/14/19 11:31	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/14/19 11:31	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/14/19 11:31	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/14/19 11:31	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/14/19 11:31	10061-02-6	L1
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/14/19 11:31	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/14/19 11:31	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/14/19 11:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/14/19 11:31	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/14/19 11:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:31	79-34-5	
Tetrachloroethene	**2150**	ug/L	20.0	20		03/14/19 11:55	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/14/19 11:31	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:31	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/14/19 11:31	79-00-5	
Trichloroethene	**18.4**	ug/L	1.0	1		03/14/19 11:31	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/14/19 11:31	75-01-4	CL
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/14/19 11:31	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	68-153	1		03/14/19 11:31	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-124	1		03/14/19 11:31	460-00-4	
Toluene-d8 (S)	101	%	69-124	1		03/14/19 11:31	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**5.8**	Std. Units	0.10	1		03/13/19 09:43		H3,H6
Temperature, Water (C)	**23.4**	deg C	0.10	1		03/13/19 09:43		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY-3/12
Pace Project No.: 7082025

QC Batch: 105224 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7082025001, 7082025002

METHOD BLANK: 486342 Matrix: Water
Associated Lab Samples: 7082025001, 7082025002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	03/13/19 20:51	

LABORATORY CONTROL SAMPLE: 486343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	1970	98	85-115	

MATRIX SPIKE SAMPLE: 486345

Parameter	Units	7082031002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	4900	2000	6910	101	70-130	

SAMPLE DUPLICATE: 486344

Parameter	Units	7082031002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	4900	5020	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY-3/12
Pace Project No.: 7082025

QC Batch: 105338 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7082025001, 7082025002

METHOD BLANK: 487046 Matrix: Water
Associated Lab Samples: 7082025001, 7082025002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	03/14/19 08:07	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	03/14/19 08:07	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	03/14/19 08:07	
1,1-Dichloroethane	ug/L	<1.0	1.0	03/14/19 08:07	
1,1-Dichloroethene	ug/L	<1.0	1.0	03/14/19 08:07	
1,2-Dichloroethane	ug/L	<1.0	1.0	03/14/19 08:07	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	03/14/19 08:07	
1,2-Dichloropropane	ug/L	<1.0	1.0	03/14/19 08:07	
2-Butanone (MEK)	ug/L	<5.0	5.0	03/14/19 08:07	IL
2-Hexanone	ug/L	<5.0	5.0	03/14/19 08:07	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	03/14/19 08:07	
Acetone	ug/L	<5.0	5.0	03/14/19 08:07	
Benzene	ug/L	ND	1.0	03/14/19 08:07	
Bromodichloromethane	ug/L	<1.0	1.0	03/14/19 08:07	
Bromoform	ug/L	<1.0	1.0	03/14/19 08:07	
Bromomethane	ug/L	<1.0	1.0	03/14/19 08:07	
Carbon disulfide	ug/L	<1.0	1.0	03/14/19 08:07	
Carbon tetrachloride	ug/L	<1.0	1.0	03/14/19 08:07	
Chlorobenzene	ug/L	<1.0	1.0	03/14/19 08:07	
Chloroethane	ug/L	<1.0	1.0	03/14/19 08:07	
Chloroform	ug/L	<1.0	1.0	03/14/19 08:07	
Chloromethane	ug/L	<1.0	1.0	03/14/19 08:07	CL
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	03/14/19 08:07	
Dibromochloromethane	ug/L	<1.0	1.0	03/14/19 08:07	
Ethylbenzene	ug/L	<1.0	1.0	03/14/19 08:07	
Methylene Chloride	ug/L	<1.0	1.0	03/14/19 08:07	
Styrene	ug/L	<1.0	1.0	03/14/19 08:07	
Tetrachloroethene	ug/L	<1.0	1.0	03/14/19 08:07	
Toluene	ug/L	<1.0	1.0	03/14/19 08:07	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	03/14/19 08:07	
Trichloroethene	ug/L	<1.0	1.0	03/14/19 08:07	
Vinyl chloride	ug/L	<1.0	1.0	03/14/19 08:07	CL
Xylene (Total)	ug/L	<3.0	3.0	03/14/19 08:07	
1,2-Dichloroethane-d4 (S)	%	95	68-153	03/14/19 08:07	
4-Bromofluorobenzene (S)	%	103	79-124	03/14/19 08:07	
Toluene-d8 (S)	%	103	69-124	03/14/19 08:07	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY-3/12
Pace Project No.: 7082025

LABORATORY CONTROL SAMPLE: 487047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.9	100	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	53.3	107	74-121	
1,1,2-Trichloroethane	ug/L	50	53.6	107	80-117	
1,1-Dichloroethane	ug/L	50	45.4	91	83-151	
1,1-Dichloroethene	ug/L	50	47.4	95	45-146	
1,2-Dichloroethane	ug/L	50	46.1	92	74-129	
1,2-Dichloroethene (Total)	ug/L	100	95.8	96	60-140	
1,2-Dichloropropane	ug/L	50	49.2	98	75-117	
2-Butanone (MEK)	ug/L	50	45.7	91	44-162	IL
2-Hexanone	ug/L	50	53.4	107	32-183	CH
4-Methyl-2-pentanone (MIBK)	ug/L	50	54.6	109	69-132	
Acetone	ug/L	50	54.2	108	23-188	CH
Benzene	ug/L	50	46.5	93	73-119	
Bromodichloromethane	ug/L	50	49.0	98	78-117	
Bromoform	ug/L	50	59.7	119	65-122	CH
Bromomethane	ug/L	50	40.0	80	52-147	
Carbon disulfide	ug/L	50	41.3	83	41-144	
Carbon tetrachloride	ug/L	50	49.1	98	59-120	
Chlorobenzene	ug/L	50	54.5	109	75-113	
Chloroethane	ug/L	50	41.9	84	49-151	
Chloroform	ug/L	50	45.4	91	72-122	
Chloromethane	ug/L	50	32.5	65	46-144	CL
cis-1,3-Dichloropropene	ug/L	50	54.9	110	78-116	
Dibromochloromethane	ug/L	50	55.9	112	70-120	
Ethylbenzene	ug/L	50	51.9	104	70-113	
Methylene Chloride	ug/L	50	43.3	87	61-142	
Styrene	ug/L	50	55.0	110	72-118	
Tetrachloroethene	ug/L	50	53.8	108	60-128	
Toluene	ug/L	50	48.5	97	72-119	
trans-1,3-Dichloropropene	ug/L	50	59.3	119	79-116	L1
Trichloroethene	ug/L	50	52.7	105	69-117	
Vinyl chloride	ug/L	50	36.7	73	43-143	CL
Xylene (Total)	ug/L	150	155	103	71-109	
1,2-Dichloroethane-d4 (S)	%			94	68-153	
4-Bromofluorobenzene (S)	%			107	79-124	
Toluene-d8 (S)	%			103	69-124	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY-3/12
Pace Project No.: 7082025

QC Batch: 105182
QC Batch Method: SM22 4500-H+B
Analysis Method: SM22 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 7082025001, 7082025002

SAMPLE DUPLICATE: 486268

Parameter	Units	7082025001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.0	7.0	0	H3,H6
Temperature, Water (C)	deg C	23.4	23.4	0	H3,H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MINMILT MONTHLY-3/12
Pace Project No.: 7082025

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT MONTHLY-3/12
Pace Project No.: 7082025

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7082025001	**SYS-EFF**	EPA 200.7	105224	EPA 200.7	105259
7082025002	**SYS-INF**	EPA 200.7	105224	EPA 200.7	105259
7082025001	**SYS-EFF**	EPA 8260C/5030C	105338		
7082025002	**SYS-INF**	EPA 8260C/5030C	105338		
7082025001	**SYS-EFF**	SM22 4500-H+B	105182		
7082025002	**SYS-INF**	SM22 4500-H+B	105182		

WO# : 7082025

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	P.W. Grosser Engineer & Hydrogeologist	Report To:	Kaitlyn Crosby	Attention:	Same as Client
Address:	630 Johnson Avenue	Copy To:		Company Name:	
	Bohemia, NY 11716			Address:	
Email:	kcrosby@pwgrosser.com	Purchase Order #:		Pace Quote:	
Phone:	(631) 589-6353 Fax:	Project Name:	MINMILT MONTHLY	Pace Project Manager:	betty.harrison@pacelabs.com,
Requested Due Date:	Standard	Project #:	MFN1001	Pace Profile #:	5392

Regulatory Agency	State / Location
	NY

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: 200.7 ICP Metals	4500H+B pH	8260 Full List	Residual Chlorine (Y/N)	
1	SYS-EFF	WT		—	—	3-12-19	1100		4	X		X	X						X	X	X		001
2	SYS-INF	WT		—	—	↓	1110		4	X		X	X						X	X	X		002
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	PWGC	3-12-19	1130	PACELI	3/12/19	11:30	Cool	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: [signature] DATE Signed: 03/12/19

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical
Long Island Laboratory

Sample Condition Upon Receipt

WO#: 7082025
PM: EMH Due Date: 03/26/19
CLIENT: PWG

Client Name: PW Grosser **Project**

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals intact:** ☐ Yes ☒ No **Temperature Blank Present:** ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other **Type of Ice:** Wet (Blue) None

Thermometer Used: (TH091) **Correction Factor:** 0.0 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 6.6 **Cooler Temperature Corrected (°C):** 6.6 **Date/Time 5035A kits placed in freezer**

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample) **Date and Initials of person examining contents:** JD 3/12/19

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
-Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☐Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☒Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC857466				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☒Yes	☐No	☐N/A	Sample #
				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	15.
Trip Blank Present:	☐Yes	☒No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

May 03, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

Sample: SYS-EFF **Lab ID: 7086847001** Collected: 04/23/19 11:00 Received: 04/23/19 11:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**<100**	ug/L	100	1	04/25/19 12:00	05/02/19 18:28	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		04/28/19 16:19	67-64-1	CH
Benzene	ND	ug/L	1.0	1		04/28/19 16:19	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/28/19 16:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/28/19 16:19	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/28/19 16:19	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/28/19 16:19	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/28/19 16:19	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/28/19 16:19	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/28/19 16:19	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/28/19 16:19	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/28/19 16:19	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/28/19 16:19	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:19	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:19	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		04/28/19 16:19	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/28/19 16:19	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/28/19 16:19	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/28/19 16:19	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/28/19 16:19	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/28/19 16:19	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/28/19 16:19	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/28/19 16:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/28/19 16:19	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		04/28/19 16:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:19	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		04/28/19 16:19	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/28/19 16:19	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:19	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:19	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		04/28/19 16:19	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/28/19 16:19	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/28/19 16:19	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	68-153	1		04/28/19 16:19	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-124	1		04/28/19 16:19	460-00-4	
Toluene-d8 (S)	99	%	69-124	1		04/28/19 16:19	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**7.2**	Std. Units	0.10	1		05/02/19 14:08		H3,H6
Temperature, Water (C)	**23.2**	deg C	0.10	1		05/02/19 14:08		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

Sample: SYS-INF **Lab ID: 7086847002** Collected: 04/23/19 11:10 Received: 04/23/19 11:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**<100**	ug/L	100	1	04/25/19 12:00	05/02/19 18:31	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		04/28/19 16:36	67-64-1	
Benzene	ND	ug/L	1.0	1		04/28/19 16:36	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		04/28/19 16:36	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		04/28/19 16:36	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		04/28/19 16:36	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		04/28/19 16:36	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		04/28/19 16:36	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		04/28/19 16:36	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		04/28/19 16:36	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:36	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		04/28/19 16:36	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		04/28/19 16:36	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		04/28/19 16:36	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:36	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:36	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		04/28/19 16:36	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		04/28/19 16:36	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		04/28/19 16:36	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/28/19 16:36	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		04/28/19 16:36	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		04/28/19 16:36	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		04/28/19 16:36	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		04/28/19 16:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		04/28/19 16:36	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		04/28/19 16:36	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:36	79-34-5	
Tetrachloroethene	**1180**	ug/L	20.0	20		04/28/19 18:42	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		04/28/19 16:36	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:36	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		04/28/19 16:36	79-00-5	
Trichloroethene	**5.0**	ug/L	1.0	1		04/28/19 16:36	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		04/28/19 16:36	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		04/28/19 16:36	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		04/28/19 16:36	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		04/28/19 16:36	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		04/28/19 16:36	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**5.9**	Std. Units	0.10	1		05/02/19 14:08		H3,H6
Temperature, Water (C)	**23.2**	deg C	0.10	1		05/02/19 14:08		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

QC Batch: 110932 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7086847001, 7086847002

METHOD BLANK: 518673 Matrix: Water
Associated Lab Samples: 7086847001, 7086847002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	05/02/19 13:20	

LABORATORY CONTROL SAMPLE: 518674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	1880	94	85-115	

MATRIX SPIKE SAMPLE: 518676

Parameter	Units	7086908001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1410	2000	3530	106	70-130	

SAMPLE DUPLICATE: 518675

Parameter	Units	7086908001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1410	1330	6	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

QC Batch: 111241 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7086847001, 7086847002

METHOD BLANK: 521500 Matrix: Water
Associated Lab Samples: 7086847001, 7086847002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	04/28/19 11:56	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	04/28/19 11:56	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	04/28/19 11:56	
1,1-Dichloroethane	ug/L	<1.0	1.0	04/28/19 11:56	
1,1-Dichloroethene	ug/L	<1.0	1.0	04/28/19 11:56	
1,2-Dichloroethane	ug/L	<1.0	1.0	04/28/19 11:56	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	04/28/19 11:56	
1,2-Dichloropropane	ug/L	<1.0	1.0	04/28/19 11:56	
2-Butanone (MEK)	ug/L	<5.0	5.0	04/28/19 11:56	IL
2-Hexanone	ug/L	<5.0	5.0	04/28/19 11:56	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	04/28/19 11:56	
Acetone	ug/L	<5.0	5.0	04/28/19 11:56	
Benzene	ug/L	ND	1.0	04/28/19 11:56	
Bromodichloromethane	ug/L	<1.0	1.0	04/28/19 11:56	
Bromoform	ug/L	<1.0	1.0	04/28/19 11:56	
Bromomethane	ug/L	<1.0	1.0	04/28/19 11:56	
Carbon disulfide	ug/L	<1.0	1.0	04/28/19 11:56	
Carbon tetrachloride	ug/L	<1.0	1.0	04/28/19 11:56	
Chlorobenzene	ug/L	<1.0	1.0	04/28/19 11:56	
Chloroethane	ug/L	<1.0	1.0	04/28/19 11:56	
Chloroform	ug/L	<1.0	1.0	04/28/19 11:56	
Chloromethane	ug/L	<1.0	1.0	04/28/19 11:56	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	04/28/19 11:56	
Dibromochloromethane	ug/L	<1.0	1.0	04/28/19 11:56	
Ethylbenzene	ug/L	<1.0	1.0	04/28/19 11:56	
Methylene Chloride	ug/L	<1.0	1.0	04/28/19 11:56	
Styrene	ug/L	<1.0	1.0	04/28/19 11:56	
Tetrachloroethene	ug/L	<1.0	1.0	04/28/19 11:56	
Toluene	ug/L	<1.0	1.0	04/28/19 11:56	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	04/28/19 11:56	
Trichloroethene	ug/L	<1.0	1.0	04/28/19 11:56	
Vinyl chloride	ug/L	<1.0	1.0	04/28/19 11:56	
Xylene (Total)	ug/L	<3.0	3.0	04/28/19 11:56	
1,2-Dichloroethane-d4 (S)	%	97	68-153	04/28/19 11:56	
4-Bromofluorobenzene (S)	%	97	79-124	04/28/19 11:56	
Toluene-d8 (S)	%	100	69-124	04/28/19 11:56	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

LABORATORY CONTROL SAMPLE: 521501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.4	97	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	46.0	92	74-121	
1,1,2-Trichloroethane	ug/L	50	47.0	94	80-117	
1,1-Dichloroethane	ug/L	50	44.0	88	83-151	
1,1-Dichloroethene	ug/L	50	45.6	91	45-146	
1,2-Dichloroethane	ug/L	50	43.7	87	74-129	
1,2-Dichloroethene (Total)	ug/L	100	88.7	89	60-140	
1,2-Dichloropropane	ug/L	50	48.1	96	75-117	
2-Butanone (MEK)	ug/L	50	44.5	89	44-162	IL
2-Hexanone	ug/L	50	52.4	105	32-183	CH
4-Methyl-2-pentanone (MIBK)	ug/L	50	49.3	99	69-132	
Acetone	ug/L	50	40.2	80	23-188	CH
Benzene	ug/L	50	46.1	92	73-119	
Bromodichloromethane	ug/L	50	48.0	96	78-117	
Bromoform	ug/L	50	56.9	114	65-122	
Bromomethane	ug/L	50	43.2	86	52-147	
Carbon disulfide	ug/L	50	45.8	92	41-144	
Carbon tetrachloride	ug/L	50	48.5	97	59-120	
Chlorobenzene	ug/L	50	49.4	99	75-113	
Chloroethane	ug/L	50	46.3	93	49-151	
Chloroform	ug/L	50	43.5	87	72-122	
Chloromethane	ug/L	50	48.1	96	46-144	
cis-1,3-Dichloropropene	ug/L	50	52.2	104	78-116	
Dibromochloromethane	ug/L	50	53.5	107	70-120	
Ethylbenzene	ug/L	50	49.4	99	70-113	
Methylene Chloride	ug/L	50	42.7	85	61-142	
Styrene	ug/L	50	51.9	104	72-118	
Tetrachloroethene	ug/L	50	51.1	102	60-128	
Toluene	ug/L	50	46.9	94	72-119	
trans-1,3-Dichloropropene	ug/L	50	54.2	108	79-116	
Trichloroethene	ug/L	50	47.1	94	69-117	
Vinyl chloride	ug/L	50	48.1	96	43-143	
Xylene (Total)	ug/L	150	151	101	71-109	
1,2-Dichloroethane-d4 (S)	%			98	68-153	
4-Bromofluorobenzene (S)	%			99	79-124	
Toluene-d8 (S)	%			101	69-124	

MATRIX SPIKE SAMPLE: 521700

Parameter	Units	30290606001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	47.2	94	65-118	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	40.9	82	74-121	
1,1,2-Trichloroethane	ug/L	ND	50	42.6	85	80-117	
1,1-Dichloroethane	ug/L	1.9	50	45.0	86	83-151	
1,1-Dichloroethene	ug/L	ND	50	42.0	84	45-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

MATRIX SPIKE SAMPLE: 521700

Parameter	Units	30290606001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	50	42.4	85	74-129	
1,2-Dichloroethene (Total)	ug/L	ND	100	85.6	86	60-140	
1,2-Dichloropropane	ug/L	ND	50	46.9	94	75-117	
2-Butanone (MEK)	ug/L	ND	50	38.7	77	44-162	IL
2-Hexanone	ug/L	ND	50	46.9	94	32-183	CH
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	45.4	91	69-132	
Acetone	ug/L	ND	50	37.9	71	23-188	CH
Benzene	ug/L	ND	50	44.5	89	73-119	
Bromodichloromethane	ug/L	ND	50	45.8	92	78-117	
Bromoform	ug/L	ND	50	50.1	100	65-122	
Bromomethane	ug/L	ND	50	35.7	71	52-147	
Carbon disulfide	ug/L	ND	50	41.1	82	41-144	
Carbon tetrachloride	ug/L	ND	50	47.1	94	59-120	
Chlorobenzene	ug/L	ND	50	47.3	95	75-113	
Chloroethane	ug/L	ND	50	42.1	84	49-151	
Chloroform	ug/L	ND	50	42.9	86	72-122	
Chloromethane	ug/L	ND	50	35.1	70	46-144	
cis-1,3-Dichloropropene	ug/L	ND	50	47.4	95	78-116	
Dibromochloromethane	ug/L	ND	50	48.4	97	70-120	
Ethylbenzene	ug/L	ND	50	47.6	95	70-113	
Methylene Chloride	ug/L	ND	50	41.6	83	61-142	
Styrene	ug/L	ND	50	48.9	98	72-118	
Tetrachloroethene	ug/L	ND	50	50.4	101	60-128	
Toluene	ug/L	ND	50	45.4	91	72-119	
trans-1,3-Dichloropropene	ug/L	ND	50	48.6	97	79-116	
Trichloroethene	ug/L	ND	50	46.0	92	69-117	
Vinyl chloride	ug/L	ND	50	38.4	77	43-143	
Xylene (Total)	ug/L	ND	150	146	97	71-109	
1,2-Dichloroethane-d4 (S)	%				100	68-153	
4-Bromofluorobenzene (S)	%				98	79-124	
Toluene-d8 (S)	%				100	69-124	

SAMPLE DUPLICATE: 521701

Parameter	Units	7087397001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		IL
2-Hexanone	ug/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

SAMPLE DUPLICATE: 521701

Parameter	Units	7087397001 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	5.1	<5.0		CH
Benzene	ug/L	<1.0	ND		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	2.7	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	100	98		
4-Bromofluorobenzene (S)	%	94	94		
Toluene-d8 (S)	%	99	99		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

QC Batch: 111968
QC Batch Method: SM22 4500-H+B
Analysis Method: SM22 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 7086847001, 7086847002

SAMPLE DUPLICATE: 524680

Parameter	Units	7086763001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.7	6.7	0	H3,H6
Temperature, Water (C)	deg C	23.2	23.2	0	H3,H6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT MONTHLY 4/23
Pace Project No.: 7086847

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7086847001	**SYS-EFF**	EPA 200.7	110932	EPA 200.7	110936
7086847002	**SYS-INF**	EPA 200.7	110932	EPA 200.7	110936
7086847001	**SYS-EFF**	EPA 8260C/5030C	111241		
7086847002	**SYS-INF**	EPA 8260C/5030C	111241		
7086847001	**SYS-EFF**	SM22 4500-H+B	111968		
7086847002	**SYS-INF**	SM22 4500-H+B	111968		

WO#:7086847

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A — Required Client Information:

Company:	P.W. Grosser Engineer & Hydrogeologist
Address:	630 Johnson Avenue
	Bohemia, NY 11716
Email:	kcrosby@pwgrosser.com
Phone:	(631) 589-6353 Fax
Requested Due Date:	Standard

Section B — Required Project Information:

Report To:	Kaitlyn Crosby
Copy To:	
Purchase Order #:	
Project Name:	MINMILT MONTHLY
Project #:	MIN1001

Section C — Invoice Information:

Attention:	Same as client
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	betty.harrison@pacelabs.com,
Pace Profile #:	5392

Regulatory Agency
State / Location
NY

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	200.7 ICP Metals	4500H+B pH	8260 Full List	Residual Chlorine (Y/N)
1	SYS-EFF	WT				4-23-19	1100		5	X		X	X						X	X	X	
2	SYS-INF	WT				↓	1110		5	X		X	X						X	X	X	
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	PW&C	4-23-19	1146		4-23-19	11:46	5.3 Y W Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: [signature] DATE Signed: 04/23/19

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
5.3	Y	W	Y

Sample Condition Upon Receipt

Pace Analytical

WO#:7086847
PM: EMH Due Date: 05/07/19
CLIENT: PWG

Client Name: PWG

Projec

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Type of Ice: Wet Blue None

Thermometer Used: TH091

Correction Factor: 0.0

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 5.3

Cooler Temperature Corrected (°C): 5.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents: 4/23/19

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC837466				Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☐Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

May 21, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on May 16, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

Sample: SYS-EFF **Lab ID: 7089836001** Collected: 05/16/19 10:50 Received: 05/16/19 11:12 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**<100**	ug/L	100	1	05/17/19 13:00	05/20/19 14:16	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		05/17/19 18:06	67-64-1	L1
Benzene	ND	ug/L	1.0	1		05/17/19 18:06	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/17/19 18:06	75-27-4	L1
Bromoform	**<1.0**	ug/L	1.0	1		05/17/19 18:06	75-25-2	L1
Bromomethane	**<1.0**	ug/L	1.0	1		05/17/19 18:06	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/17/19 18:06	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/17/19 18:06	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/17/19 18:06	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/17/19 18:06	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:06	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/17/19 18:06	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/17/19 18:06	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/17/19 18:06	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:06	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:06	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		05/17/19 18:06	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/17/19 18:06	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/17/19 18:06	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/17/19 18:06	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/17/19 18:06	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/17/19 18:06	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/17/19 18:06	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/17/19 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/17/19 18:06	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/17/19 18:06	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:06	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/17/19 18:06	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/17/19 18:06	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:06	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:06	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/17/19 18:06	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/17/19 18:06	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/17/19 18:06	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	68-153	1		05/17/19 18:06	17060-07-0	
4-Bromofluorobenzene (S)	106	%	79-124	1		05/17/19 18:06	460-00-4	
Toluene-d8 (S)	86	%	69-124	1		05/17/19 18:06	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**7.5**	Std. Units	0.10	1		05/21/19 12:04		H3,H6
Temperature, Water (C)	**23.6**	deg C	0.10	1		05/21/19 12:04		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

Sample: SYS-INF **Lab ID: 7089836002** Collected: 05/16/19 11:00 Received: 05/16/19 11:12 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**<100**	ug/L	100	1	05/17/19 13:00	05/20/19 14:18	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		05/17/19 18:25	67-64-1	L1
Benzene	ND	ug/L	1.0	1		05/17/19 18:25	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/17/19 18:25	75-27-4	L1
Bromoform	**<1.0**	ug/L	1.0	1		05/17/19 18:25	75-25-2	L1
Bromomethane	**<1.0**	ug/L	1.0	1		05/17/19 18:25	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/17/19 18:25	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/17/19 18:25	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/17/19 18:25	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/17/19 18:25	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/17/19 18:25	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/17/19 18:25	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/17/19 18:25	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:25	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:25	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		05/17/19 18:25	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/17/19 18:25	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/17/19 18:25	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/17/19 18:25	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/17/19 18:25	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/17/19 18:25	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/17/19 18:25	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/17/19 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/17/19 18:25	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/17/19 18:25	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:25	79-34-5	
Tetrachloroethene	**980**	ug/L	10.0	10		05/17/19 21:57	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/17/19 18:25	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:25	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/17/19 18:25	79-00-5	
Trichloroethene	**6.5**	ug/L	1.0	1		05/17/19 18:25	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/17/19 18:25	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/17/19 18:25	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	68-153	1		05/17/19 18:25	17060-07-0	
4-Bromofluorobenzene (S)	106	%	79-124	1		05/17/19 18:25	460-00-4	
Toluene-d8 (S)	85	%	69-124	1		05/17/19 18:25	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**6.1**	Std. Units	0.10	1		05/21/19 12:04		H1,H6
Temperature, Water (C)	**23.7**	deg C	0.10	1		05/21/19 12:04		H1,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

QC Batch: 114191 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7089836001, 7089836002

METHOD BLANK: 537649 Matrix: Water
Associated Lab Samples: 7089836001, 7089836002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	05/20/19 13:38	

LABORATORY CONTROL SAMPLE: 537650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	2060	103	85-115	

MATRIX SPIKE SAMPLE: 537652

Parameter	Units	7089759001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	2000	2120	103	70-130	

SAMPLE DUPLICATE: 537651

Parameter	Units	7089759001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

QC Batch: 114200 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7089836001, 7089836002

METHOD BLANK: 537695 Matrix: Water
Associated Lab Samples: 7089836001, 7089836002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/17/19 16:49	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/17/19 16:49	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/17/19 16:49	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/17/19 16:49	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/17/19 16:49	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/17/19 16:49	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	05/17/19 16:49	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/17/19 16:49	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/17/19 16:49	IL
2-Hexanone	ug/L	<5.0	5.0	05/17/19 16:49	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/17/19 16:49	
Acetone	ug/L	<5.0	5.0	05/17/19 16:49	
Benzene	ug/L	ND	1.0	05/17/19 16:49	
Bromodichloromethane	ug/L	<1.0	1.0	05/17/19 16:49	
Bromoform	ug/L	<1.0	1.0	05/17/19 16:49	
Bromomethane	ug/L	<1.0	1.0	05/17/19 16:49	CL
Carbon disulfide	ug/L	<1.0	1.0	05/17/19 16:49	
Carbon tetrachloride	ug/L	<1.0	1.0	05/17/19 16:49	
Chlorobenzene	ug/L	<1.0	1.0	05/17/19 16:49	
Chloroethane	ug/L	<1.0	1.0	05/17/19 16:49	
Chloroform	ug/L	<1.0	1.0	05/17/19 16:49	
Chloromethane	ug/L	<1.0	1.0	05/17/19 16:49	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/17/19 16:49	
Dibromochloromethane	ug/L	<1.0	1.0	05/17/19 16:49	
Ethylbenzene	ug/L	<1.0	1.0	05/17/19 16:49	
Methylene Chloride	ug/L	<1.0	1.0	05/17/19 16:49	
Styrene	ug/L	<1.0	1.0	05/17/19 16:49	
Tetrachloroethene	ug/L	<1.0	1.0	05/17/19 16:49	
Toluene	ug/L	<1.0	1.0	05/17/19 16:49	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/17/19 16:49	
Trichloroethene	ug/L	<1.0	1.0	05/17/19 16:49	
Vinyl chloride	ug/L	<1.0	1.0	05/17/19 16:49	
Xylene (Total)	ug/L	<3.0	3.0	05/17/19 16:49	
1,2-Dichloroethane-d4 (S)	%	111	68-153	05/17/19 16:49	
4-Bromofluorobenzene (S)	%	104	79-124	05/17/19 16:49	
Toluene-d8 (S)	%	85	69-124	05/17/19 16:49	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

LABORATORY CONTROL SAMPLE: 537696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.5	107	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	50.7	101	74-121	
1,1,2-Trichloroethane	ug/L	50	50.9	102	80-117	
1,1-Dichloroethane	ug/L	50	53.2	106	83-151	
1,1-Dichloroethene	ug/L	50	44.7	89	45-146	
1,2-Dichloroethane	ug/L	50	64.0	128	74-129	CH
1,2-Dichloroethene (Total)	ug/L	100	102	102	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	75-117	
2-Butanone (MEK)	ug/L	50	62.4	125	44-162	IL
2-Hexanone	ug/L	50	53.2	106	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	53.0	106	69-132	
Acetone	ug/L	50	109	217	23-188	CH,L1
Benzene	ug/L	50	47.7	95	73-119	
Bromodichloromethane	ug/L	50	60.8	122	78-117	CH,L1
Bromoform	ug/L	50	64.0	128	65-122	CH,L1
Bromomethane	ug/L	50	28.2	56	52-147	CL
Carbon disulfide	ug/L	50	52.9	106	41-144	
Carbon tetrachloride	ug/L	50	54.8	110	59-120	
Chlorobenzene	ug/L	50	42.8	86	75-113	
Chloroethane	ug/L	50	53.3	107	49-151	
Chloroform	ug/L	50	59.1	118	72-122	
Chloromethane	ug/L	50	40.9	82	46-144	
cis-1,3-Dichloropropene	ug/L	50	53.0	106	78-116	
Dibromochloromethane	ug/L	50	57.7	115	70-120	
Ethylbenzene	ug/L	50	44.8	90	70-113	
Methylene Chloride	ug/L	50	50.6	101	61-142	
Styrene	ug/L	50	49.7	99	72-118	
Tetrachloroethene	ug/L	50	40.9	82	60-128	
Toluene	ug/L	50	45.3	91	72-119	
trans-1,3-Dichloropropene	ug/L	50	56.7	113	79-116	
Trichloroethene	ug/L	50	51.6	103	69-117	
Vinyl chloride	ug/L	50	53.9	108	43-143	
Xylene (Total)	ug/L	150	137	91	71-109	
1,2-Dichloroethane-d4 (S)	%			107	68-153	
4-Bromofluorobenzene (S)	%			113	79-124	
Toluene-d8 (S)	%			86	69-124	

MATRIX SPIKE SAMPLE: 537926

Parameter	Units	7089834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	51.5	103	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	54.4	109	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	55.9	112	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	53.1	106	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	42.5	85	45-146	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

MATRIX SPIKE SAMPLE: 537926

Parameter	Units	7089834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	69.4	139	74-129	CH,M1
1,2-Dichloroethene (Total)	ug/L	<2.0	100	102	102	60-140	
1,2-Dichloropropane	ug/L	<1.0	50	49.7	99	75-117	
2-Butanone (MEK)	ug/L	<5.0	50	63.1	126	44-162	IL
2-Hexanone	ug/L	<5.0	50	51.7	103	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	60.8	122	69-132	
Acetone	ug/L	<5.0	50	74.9	150	23-188	CH
Benzene	ug/L	<1.0	50	49.3	99	73-119	
Bromodichloromethane	ug/L	<1.0	50	62.8	126	78-117	CH,M0
Bromoform	ug/L	<1.0	50	64.6	129	65-122	CH,M0
Bromomethane	ug/L	<1.0	50	29.7	59	52-147	CL
Carbon disulfide	ug/L	<1.0	50	49.8	100	41-144	
Carbon tetrachloride	ug/L	<1.0	50	51.8	104	59-120	
Chlorobenzene	ug/L	<1.0	50	42.5	85	75-113	
Chloroethane	ug/L	<1.0	50	53.1	106	49-151	
Chloroform	ug/L	<1.0	50	60.1	120	72-122	
Chloromethane	ug/L	<1.0	50	43.1	86	46-144	
cis-1,3-Dichloropropene	ug/L	<1.0	50	53.8	108	78-116	
Dibromochloromethane	ug/L	<1.0	50	56.8	114	70-120	
Ethylbenzene	ug/L	<1.0	50	43.0	86	70-113	
Methylene Chloride	ug/L	<1.0	50	52.7	105	61-142	
Styrene	ug/L	<1.0	50	49.3	99	72-118	
Tetrachloroethene	ug/L	<1.0	50	39.6	79	60-128	
Toluene	ug/L	<1.0	50	46.5	93	72-119	
trans-1,3-Dichloropropene	ug/L	<1.0	50	58.7	117	79-116	M1
Trichloroethene	ug/L	<1.0	50	51.1	102	69-117	
Vinyl chloride	ug/L	<1.0	50	51.5	103	43-143	
Xylene (Total)	ug/L	<3.0	150	136	91	71-109	
1,2-Dichloroethane-d4 (S)	%				115	68-153	
4-Bromofluorobenzene (S)	%				112	79-124	
Toluene-d8 (S)	%				86	69-124	

SAMPLE DUPLICATE: 537927

Parameter	Units	7089556007 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		IL
2-Hexanone	ug/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

SAMPLE DUPLICATE: 537927

Parameter	Units	7089556007 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	<1.0	ND		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		CL
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	114	118		
4-Bromofluorobenzene (S)	%	107	106		
Toluene-d8 (S)	%	83	84		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

QC Batch: 114505
QC Batch Method: SM22 4500-H+B
Analysis Method: SM22 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 7089836001, 7089836002

SAMPLE DUPLICATE: 539375

Parameter	Units	7089488001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.5	7.5	0	H3,H6
Temperature, Water (C)	deg C	23.7	23.7	0	H3,H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT MONTHLY 5/16
Pace Project No.: 7089836

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7089836001	**SYS-EFF**	EPA 200.7	114191	EPA 200.7	114192
7089836002	**SYS-INF**	EPA 200.7	114191	EPA 200.7	114192
7089836001	**SYS-EFF**	EPA 8260C/5030C	114200		
7089836002	**SYS-INF**	EPA 8260C/5030C	114200		
7089836001	**SYS-EFF**	SM22 4500-H+B	114505		
7089836002	**SYS-INF**	SM22 4500-H+B	114505		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mu

WO# : 7089836

7089836

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	P.W. Grosser Engineer & Hydrogeologist	Report To:	Kaitlyn Crosby	Attention:	same as Client
Address:	630 Johnson Avenue	Copy To:		Company Name:	
	Bohemia, NY 11716			Address:	
Email:	kcrosby@pwgrosser.com	Purchase Order #:		Pace Quote:	
Phone:	(631) 589-6353 Fax	Project Name:	MINMILT MONTHLY	Pace Project Manager:	betty.harrison@pacelabs.com,
Requested Due Date:	Standard	Project #:	MIN1001	Pace Profile #:	5392

Regulatory Agency

State / Location: NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	200.7 ICP Metals	4500H+B pH	8260 Full List	Residual Chlorine (Y/N)
1	SYS-EFF	WT		—	—	5-16-19	1050		5	X		X	X						X	X	X	
2	SYS-INF	WT		—	—	↓	1100		5	X		X	X						X	X	X	
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	PWGC	5-16-19	1112		5/16/19	11:12	12.1	Y	N	Y
							B			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER:

DATE Signed: 05/16/19

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Sample Condition Upon Receipt

Pace Analytical — Long Island Laboratory

WO#: 7089836
PM: EMH Due Date: 05/31/19
CLIENT: PWG

Client Name: PW Grosser

Pro

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Type of Ice: Wet (Blue) None

Thermometer Used: TH091 Correction Factor: 0.0

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 12.1 Cooler Temperature Corrected (°C): 12.1

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Date and Initials of person examining contents: 5/16/19 JP

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC863463				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Sample #
				Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

F-LI-C-002-rev.02

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

June 19, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

Sample: SYS-EFF **Lab ID: 7093141001** Collected: 06/11/19 12:10 Received: 06/11/19 12:43 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**<100**	ug/L	100	1	06/13/19 09:04	06/19/19 00:20	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**5.3**	ug/L	5.0	1		06/12/19 01:19	67-64-1	CL
Benzene	ND	ug/L	1.0	1		06/12/19 01:19	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/12/19 01:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/12/19 01:19	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/12/19 01:19	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/12/19 01:19	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/12/19 01:19	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/12/19 01:19	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/12/19 01:19	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/12/19 01:19	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/12/19 01:19	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/12/19 01:19	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:19	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:19	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		06/12/19 01:19	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/12/19 01:19	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/12/19 01:19	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/12/19 01:19	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/12/19 01:19	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/12/19 01:19	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/12/19 01:19	591-78-6	CL
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/12/19 01:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/12/19 01:19	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/12/19 01:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:19	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/12/19 01:19	127-18-4	CL
Toluene	**<1.0**	ug/L	1.0	1		06/12/19 01:19	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:19	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:19	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/12/19 01:19	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/12/19 01:19	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/12/19 01:19	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	68-153	1		06/12/19 01:19	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		06/12/19 01:19	460-00-4	
Toluene-d8 (S)	99	%	69-124	1		06/12/19 01:19	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**7.1**	Std. Units	0.10	1		06/14/19 13:52		H3,H6
Temperature, Water (C)	**23.9**	deg C	0.10	1		06/14/19 13:52		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

Sample: SYS-INF **Lab ID: 7093141002** Collected: 06/11/19 12:20 Received: 06/11/19 12:43 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**<100**	ug/L	100	1	06/13/19 09:04	06/19/19 00:26	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		06/12/19 01:37	67-64-1	CL
Benzene	ND	ug/L	1.0	1		06/12/19 01:37	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/12/19 01:37	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/12/19 01:37	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		06/12/19 01:37	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/12/19 01:37	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		06/12/19 01:37	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/12/19 01:37	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/12/19 01:37	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:37	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/12/19 01:37	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/12/19 01:37	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/12/19 01:37	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:37	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:37	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		06/12/19 01:37	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/12/19 01:37	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		06/12/19 01:37	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/12/19 01:37	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		06/12/19 01:37	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/12/19 01:37	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/12/19 01:37	591-78-6	CL
Methylene Chloride	**<1.0**	ug/L	1.0	1		06/12/19 01:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/12/19 01:37	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/12/19 01:37	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:37	79-34-5	
Tetrachloroethene	**869**	ug/L	20.0	20		06/12/19 01:55	127-18-4	CL
Toluene	**<1.0**	ug/L	1.0	1		06/12/19 01:37	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:37	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/12/19 01:37	79-00-5	
Trichloroethene	**4.9**	ug/L	1.0	1		06/12/19 01:37	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/12/19 01:37	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/12/19 01:37	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	68-153	1		06/12/19 01:37	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-124	1		06/12/19 01:37	460-00-4	
Toluene-d8 (S)	100	%	69-124	1		06/12/19 01:37	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**5.6**	Std. Units	0.10	1		06/14/19 13:52		H3,H6
Temperature, Water (C)	**23.9**	deg C	0.10	1		06/14/19 13:52		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

QC Batch: 117593 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7093141001, 7093141002

METHOD BLANK: 557023 Matrix: Water
Associated Lab Samples: 7093141001, 7093141002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	06/18/19 21:42	

LABORATORY CONTROL SAMPLE: 557024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	1940	97	85-115	

MATRIX SPIKE SAMPLE: 557026

Parameter	Units	7093060001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1670	2000	3610	97	70-130	

MATRIX SPIKE SAMPLE: 557028

Parameter	Units	7093060002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	129	2000	1980	93	70-130	

SAMPLE DUPLICATE: 557025

Parameter	Units	7093060001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1670	1740	4	

SAMPLE DUPLICATE: 557027

Parameter	Units	7093060002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	129	122	6	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

QC Batch: 117325 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7093141001, 7093141002

METHOD BLANK: 555632 Matrix: Water
Associated Lab Samples: 7093141001, 7093141002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	06/11/19 20:37	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	06/11/19 20:37	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	06/11/19 20:37	
1,1-Dichloroethane	ug/L	<1.0	1.0	06/11/19 20:37	
1,1-Dichloroethene	ug/L	<1.0	1.0	06/11/19 20:37	
1,2-Dichloroethane	ug/L	<1.0	1.0	06/11/19 20:37	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	06/11/19 20:37	
1,2-Dichloropropane	ug/L	<1.0	1.0	06/11/19 20:37	
2-Butanone (MEK)	ug/L	<5.0	5.0	06/11/19 20:37	IL
2-Hexanone	ug/L	<5.0	5.0	06/11/19 20:37	CL
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	06/11/19 20:37	
Acetone	ug/L	<5.0	5.0	06/11/19 20:37	CL
Benzene	ug/L	ND	1.0	06/11/19 20:37	
Bromodichloromethane	ug/L	<1.0	1.0	06/11/19 20:37	
Bromoform	ug/L	<1.0	1.0	06/11/19 20:37	
Bromomethane	ug/L	<1.0	1.0	06/11/19 20:37	
Carbon disulfide	ug/L	<1.0	1.0	06/11/19 20:37	
Carbon tetrachloride	ug/L	<1.0	1.0	06/11/19 20:37	
Chlorobenzene	ug/L	<1.0	1.0	06/11/19 20:37	
Chloroethane	ug/L	<1.0	1.0	06/11/19 20:37	
Chloroform	ug/L	<1.0	1.0	06/11/19 20:37	
Chloromethane	ug/L	<1.0	1.0	06/11/19 20:37	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	06/11/19 20:37	
Dibromochloromethane	ug/L	<1.0	1.0	06/11/19 20:37	
Ethylbenzene	ug/L	<1.0	1.0	06/11/19 20:37	
Methylene Chloride	ug/L	<1.0	1.0	06/11/19 20:37	
Styrene	ug/L	<1.0	1.0	06/11/19 20:37	
Tetrachloroethene	ug/L	<1.0	1.0	06/11/19 20:37	CL
Toluene	ug/L	<1.0	1.0	06/11/19 20:37	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	06/11/19 20:37	
Trichloroethene	ug/L	<1.0	1.0	06/11/19 20:37	
Vinyl chloride	ug/L	<1.0	1.0	06/11/19 20:37	
Xylene (Total)	ug/L	<3.0	3.0	06/11/19 20:37	
1,2-Dichloroethane-d4 (S)	%	100	68-153	06/11/19 20:37	
4-Bromofluorobenzene (S)	%	95	79-124	06/11/19 20:37	
Toluene-d8 (S)	%	99	69-124	06/11/19 20:37	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

LABORATORY CONTROL SAMPLE: 555633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.4	95	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	74-121	
1,1,2-Trichloroethane	ug/L	50	48.2	96	80-117	
1,1-Dichloroethane	ug/L	50	50.6	101	83-151	
1,1-Dichloroethene	ug/L	50	46.8	94	45-146	
1,2-Dichloroethane	ug/L	50	49.9	100	74-129	
1,2-Dichloroethene (Total)	ug/L	100	98.5	98	60-140	
1,2-Dichloropropane	ug/L	50	50.1	100	75-117	
2-Butanone (MEK)	ug/L	50	49.8	100	44-162	IL
2-Hexanone	ug/L	50	49.6	99	32-183	CL
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.5	95	69-132	
Acetone	ug/L	50	48.5	97	23-188	CL
Benzene	ug/L	50	50.4	101	73-119	
Bromodichloromethane	ug/L	50	51.1	102	78-117	
Bromoform	ug/L	50	47.4	95	65-122	
Bromomethane	ug/L	50	46.9	94	52-147	
Carbon disulfide	ug/L	50	47.0	94	41-144	
Carbon tetrachloride	ug/L	50	54.1	108	59-120	
Chlorobenzene	ug/L	50	48.6	97	75-113	
Chloroethane	ug/L	50	48.4	97	49-151	
Chloroform	ug/L	50	51.1	102	72-122	
Chloromethane	ug/L	50	46.3	93	46-144	
cis-1,3-Dichloropropene	ug/L	50	49.4	99	78-116	
Dibromochloromethane	ug/L	50	56.8	114	70-120	
Ethylbenzene	ug/L	50	49.0	98	70-113	
Methylene Chloride	ug/L	50	44.0	88	61-142	
Styrene	ug/L	50	48.9	98	72-118	
Tetrachloroethene	ug/L	50	43.1	86	60-128	CL
Toluene	ug/L	50	49.2	98	72-119	
trans-1,3-Dichloropropene	ug/L	50	50.4	101	79-116	
Trichloroethene	ug/L	50	48.0	96	69-117	
Vinyl chloride	ug/L	50	49.9	100	43-143	
Xylene (Total)	ug/L	150	146	97	71-109	
1,2-Dichloroethane-d4 (S)	%			99	68-153	
4-Bromofluorobenzene (S)	%			99	79-124	
Toluene-d8 (S)	%			104	69-124	

MATRIX SPIKE SAMPLE: 555694

Parameter	Units	7092092005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.22	50	41.3	83	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<0.32	50	47.1	94	74-121	
1,1,2-Trichloroethane	ug/L	<0.23	50	42.5	85	80-117	
1,1-Dichloroethane	ug/L	<0.19	50	43.6	87	83-151	
1,1-Dichloroethene	ug/L	<0.23	50	41.4	83	45-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

MATRIX SPIKE SAMPLE: 555694

Parameter	Units	7092092005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<0.19	50	42.9	86	74-129	
1,2-Dichloroethene (Total)	ug/L	<0.24	100	83.8	84	60-140	
1,2-Dichloropropane	ug/L	<0.43	50	43.3	87	75-117	
2-Butanone (MEK)	ug/L	<1.3	50	37.8	76	44-162	IL
2-Hexanone	ug/L	<0.60	50	37.7	75	32-183	CL
4-Methyl-2-pentanone (MIBK)	ug/L	<0.39	50	43.1	86	69-132	
Acetone	ug/L	<1.6	50	26.1	50	23-188	CL
Benzene	ug/L	0.62J	50	43.8	86	73-119	
Bromodichloromethane	ug/L	<0.22	50	43.9	88	78-117	
Bromoform	ug/L	<0.43	50	38.6	77	65-122	
Bromomethane	ug/L	<0.43	50	32.6	65	52-147	
Carbon disulfide	ug/L	<0.25	50	41.8	84	41-144	
Carbon tetrachloride	ug/L	<0.20	50	43.9	88	59-120	
Chlorobenzene	ug/L	<0.18	50	38.2	76	75-113	
Chloroethane	ug/L	<0.35	50	42.6	85	49-151	
Chloroform	ug/L	<0.20	50	42.1	84	72-122	
Chloromethane	ug/L	<0.20	50	38.7	77	46-144	
cis-1,3-Dichloropropene	ug/L	<0.26	50	42.2	84	78-116	
Dibromochloromethane	ug/L	<0.29	50	46.9	94	70-120	
Ethylbenzene	ug/L	<0.16	50	37.2	74	70-113	
Methylene Chloride	ug/L	<0.30	50	40.6	81	61-142	
Styrene	ug/L	<0.22	50	38.6	77	72-118	
Tetrachloroethene	ug/L	<0.28	50	32.1	64	60-128	CL
Toluene	ug/L	<0.20	50	42.3	85	72-119	
trans-1,3-Dichloropropene	ug/L	<0.36	50	42.5	85	79-116	
Trichloroethene	ug/L	<0.22	50	41.7	83	69-117	
Vinyl chloride	ug/L	<0.33	50	42.0	84	43-143	
Xylene (Total)	ug/L	<0.18	150	112	75	71-109	
1,2-Dichloroethane-d4 (S)	%				102	68-153	
4-Bromofluorobenzene (S)	%				95	79-124	
Toluene-d8 (S)	%				101	69-124	

SAMPLE DUPLICATE: 555693

Parameter	Units	7092092003 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.22	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<0.32	<1.0		
1,1,2-Trichloroethane	ug/L	<0.23	<1.0		
1,1-Dichloroethane	ug/L	<0.19	<1.0		
1,1-Dichloroethene	ug/L	<0.23	<1.0		
1,2-Dichloroethane	ug/L	<0.19	<1.0		
1,2-Dichloroethene (Total)	ug/L	<0.24	<2.0		
1,2-Dichloropropane	ug/L	<0.43	<1.0		
2-Butanone (MEK)	ug/L	<1.3	<5.0		IL
2-Hexanone	ug/L	<0.60	<5.0		CL

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

SAMPLE DUPLICATE: 555693

Parameter	Units	7092092003 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<0.39	<5.0		
Acetone	ug/L	2.4J	<5.0		CL
Benzene	ug/L	2.7	2.9	9	
Bromodichloromethane	ug/L	<0.22	<1.0		
Bromoform	ug/L	<0.43	<1.0		
Bromomethane	ug/L	<0.43	<1.0		
Carbon disulfide	ug/L	<0.25	<1.0		
Carbon tetrachloride	ug/L	<0.20	<1.0		
Chlorobenzene	ug/L	<0.18	<1.0		
Chloroethane	ug/L	<0.35	<1.0		
Chloroform	ug/L	<0.20	<1.0		
Chloromethane	ug/L	<0.20	<1.0		
cis-1,3-Dichloropropene	ug/L	<0.26	<1.0		
Dibromochloromethane	ug/L	<0.29	<1.0		
Ethylbenzene	ug/L	4.3	4.5	4	
Methylene Chloride	ug/L	<0.30	<1.0		
Styrene	ug/L	<0.22	<1.0		
Tetrachloroethene	ug/L	<0.28	<1.0		CL
Toluene	ug/L	19.3	20.4	6	
trans-1,3-Dichloropropene	ug/L	<0.36	<1.0		
Trichloroethene	ug/L	<0.22	<1.0		
Vinyl chloride	ug/L	<0.33	<1.0		
Xylene (Total)	ug/L	26.0	25.8	1	
1,2-Dichloroethane-d4 (S)	%	96	100		
4-Bromofluorobenzene (S)	%	93	93		
Toluene-d8 (S)	%	97	96		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

QC Batch: 117847 Analysis Method: SM22 4500-H+B
QC Batch Method: SM22 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 7093141001, 7093141002

SAMPLE DUPLICATE: 558253

Parameter	Units	7091641003 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.2	7.2	0	H3,H6
Temperature, Water (C)	deg C	23.9	23.9	0	H3,H6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT MONTHLY MIN1001 6/11
Pace Project No.: 7093141

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7093141001	**SYS-EFF**	EPA 200.7	117593	EPA 200.7	117618
7093141002	**SYS-INF**	EPA 200.7	117593	EPA 200.7	117618
7093141001	**SYS-EFF**	EPA 8260C/5030C	117325		
7093141002	**SYS-INF**	EPA 8260C/5030C	117325		
7093141001	**SYS-EFF**	SM22 4500-H+B	117847		
7093141002	**SYS-INF**	SM22 4500-H+B	117847		

WO#:7093141

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section C Invoice Information:		Required Project Information:	
Company:	P.W. Grosser Engineer & Hydrogeologist	Report To:	Kaitlyn Crosby
Address:	630 Johnson Avenue	Copy To:	
	Bohemia, NY 11716		
Email:	kcrosby@pwgrosser.com	Purchase Order #:	
Phone:	(631) 589-6353 Fax	Project Name:	MINMILT MONTHLY
Requested Due Date:	Standard	Project #:	MIN1001
Attention:	Same as Client		
Company Name:			
Address:			
Pace Quote:			
Pace Project Manager:	betty.harrison@pacelabs.com,		
Pace Profile #:	5392		

Regulatory Agency	State / Location
	NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	200.7 ICP Metals	4500H+B pH	8260 Full List	Residual Chlorine (Y/N)
1	SYS-EFF	WT		—	—	6-11-19	1210		5	+		X	X						X	X	X	001
2	SYS-INF	WT		—	—	↓	1220		5	+		X	+						X	X	X	002
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PWGC	6-11-19	1245	FEDEX Ground	6/11/19	1245	16.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: [signature] DATE Signed: 06-11-19

Sample Condition Upon Receipt

Pace Analytical

WO#:7093141
PM: EMH Due Date: 06/25/19
CLIENT: PWG

Client Name: PWG Proj

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No

Temperature Blank Present: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Type of Ice: Wet Blue None

Thermometer Used: TH091 Correction Factor: +0.2

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 16.3 Cooler Temperature Corrected (°C): 16.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents: SK 06/11/19

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☐Yes	☐No		1.
Chain of Custody Filled Out:	☐Yes	☐No		2.
Chain of Custody Relinquished:	☐Yes	☐No		3.
Sampler Name & Signature on COC:	☐Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☐Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☐No		6.
Rush Turn Around Time Requested:	☐Yes	☐No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☐Yes	☐No		8.
Correct Containers Used:	☐Yes	☐No		9.
-Pace Containers Used:	☐Yes	☐No		
Containers Intact:	☐Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☐N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☐Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC863463				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☐N/A	Sample #
				Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination:	☐Yes	☐No	☐N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☐N/A	15.
Trip Blank Present:	☐Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

August 07, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

Sample: SYS-EFF **Lab ID: 7099405001** Collected: 07/31/19 10:00 Received: 07/31/19 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**266**	ug/L	100	1	08/02/19 10:00	08/07/19 13:05	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		08/01/19 17:05	67-64-1	CH,IC
Benzene	ND	ug/L	1.0	1		08/01/19 17:05	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/01/19 17:05	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/01/19 17:05	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		08/01/19 17:05	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/01/19 17:05	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/01/19 17:05	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/01/19 17:05	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/01/19 17:05	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		08/01/19 17:05	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/01/19 17:05	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/01/19 17:05	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/01/19 17:05	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/01/19 17:05	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/01/19 17:05	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		08/01/19 17:05	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/01/19 17:05	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/01/19 17:05	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/01/19 17:05	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/01/19 17:05	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/01/19 17:05	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/01/19 17:05	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/01/19 17:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/01/19 17:05	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		08/01/19 17:05	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/01/19 17:05	79-34-5	
Tetrachloroethene	**1.5**	ug/L	1.0	1		08/01/19 17:05	127-18-4	CL
Toluene	**<1.0**	ug/L	1.0	1		08/01/19 17:05	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/01/19 17:05	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/01/19 17:05	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/01/19 17:05	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/01/19 17:05	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/01/19 17:05	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	68-153	1		08/01/19 17:05	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		08/01/19 17:05	460-00-4	
Toluene-d8 (S)	90	%	69-124	1		08/01/19 17:05	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**6.8**	Std. Units	0.10	1		07/31/19 16:37		H3,H6
Temperature, Water (C)	**24.3**	deg C	0.10	1		07/31/19 16:37		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

Sample: SYS-INF **Lab ID: 7099405002** Collected: 07/31/19 10:10 Received: 07/31/19 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**649**	ug/L	100	1	08/02/19 10:00	08/07/19 13:08	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		08/01/19 20:31	67-64-1	IC
Benzene	ND	ug/L	1.0	1		08/01/19 20:31	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/01/19 20:31	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/01/19 20:31	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/01/19 20:31	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/01/19 20:31	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/01/19 20:31	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/01/19 20:31	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/01/19 20:31	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		08/01/19 20:31	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/01/19 20:31	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/01/19 20:31	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/01/19 20:31	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/01/19 20:31	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/01/19 20:31	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		08/01/19 20:31	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/01/19 20:31	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/01/19 20:31	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/01/19 20:31	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/01/19 20:31	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/01/19 20:31	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/01/19 20:31	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/01/19 20:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/01/19 20:31	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		08/01/19 20:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/01/19 20:31	79-34-5	
Tetrachloroethene	**1610**	ug/L	10.0	10		08/01/19 16:42	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		08/01/19 20:31	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/01/19 20:31	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/01/19 20:31	79-00-5	
Trichloroethene	**25.2**	ug/L	1.0	1		08/01/19 20:31	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/01/19 20:31	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/01/19 20:31	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	68-153	1		08/01/19 20:31	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	1		08/01/19 20:31	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		08/01/19 20:31	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**5.4**	Std. Units	0.10	1		07/31/19 16:37		H1,H6
Temperature, Water (C)	**24.4**	deg C	0.10	1		07/31/19 16:37		H1,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

QC Batch: 124458 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 7099405001, 7099405002

METHOD BLANK: 592964 Matrix: Water
Associated Lab Samples: 7099405001, 7099405002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	08/07/19 12:35	

LABORATORY CONTROL SAMPLE: 592965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	2070	104	85-115	

MATRIX SPIKE SAMPLE: 592967

Parameter	Units	7099553001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	3980	2000	6670	134	70-130	M1

SAMPLE DUPLICATE: 592966

Parameter	Units	7099553001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	3980	4070	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

QC Batch: 124251 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7099405001, 7099405002

METHOD BLANK: 591898 Matrix: Water
Associated Lab Samples: 7099405001, 7099405002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	08/01/19 12:16	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	08/01/19 12:16	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	08/01/19 12:16	
1,1-Dichloroethane	ug/L	<1.0	1.0	08/01/19 12:16	
1,1-Dichloroethene	ug/L	<1.0	1.0	08/01/19 12:16	
1,2-Dichloroethane	ug/L	<1.0	1.0	08/01/19 12:16	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	08/01/19 12:16	
1,2-Dichloropropane	ug/L	<1.0	1.0	08/01/19 12:16	
2-Butanone (MEK)	ug/L	<5.0	5.0	08/01/19 12:16	IL
2-Hexanone	ug/L	<5.0	5.0	08/01/19 12:16	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	08/01/19 12:16	
Acetone	ug/L	<5.0	5.0	08/01/19 12:16	IC
Benzene	ug/L	ND	1.0	08/01/19 12:16	
Bromodichloromethane	ug/L	<1.0	1.0	08/01/19 12:16	
Bromoform	ug/L	<1.0	1.0	08/01/19 12:16	CL
Bromomethane	ug/L	<1.0	1.0	08/01/19 12:16	
Carbon disulfide	ug/L	<1.0	1.0	08/01/19 12:16	
Carbon tetrachloride	ug/L	<1.0	1.0	08/01/19 12:16	
Chlorobenzene	ug/L	<1.0	1.0	08/01/19 12:16	
Chloroethane	ug/L	<1.0	1.0	08/01/19 12:16	
Chloroform	ug/L	<1.0	1.0	08/01/19 12:16	
Chloromethane	ug/L	<1.0	1.0	08/01/19 12:16	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	08/01/19 12:16	
Dibromochloromethane	ug/L	<1.0	1.0	08/01/19 12:16	
Ethylbenzene	ug/L	<1.0	1.0	08/01/19 12:16	
Methylene Chloride	ug/L	<1.0	1.0	08/01/19 12:16	
Styrene	ug/L	<1.0	1.0	08/01/19 12:16	
Tetrachloroethene	ug/L	<1.0	1.0	08/01/19 12:16	CL
Toluene	ug/L	<1.0	1.0	08/01/19 12:16	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	08/01/19 12:16	
Trichloroethene	ug/L	<1.0	1.0	08/01/19 12:16	
Vinyl chloride	ug/L	<1.0	1.0	08/01/19 12:16	
Xylene (Total)	ug/L	<3.0	3.0	08/01/19 12:16	
1,2-Dichloroethane-d4 (S)	%	105	68-153	08/01/19 12:16	
4-Bromofluorobenzene (S)	%	96	79-124	08/01/19 12:16	
Toluene-d8 (S)	%	93	69-124	08/01/19 12:16	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

LABORATORY CONTROL SAMPLE: 591899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.0	92	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	46.5	93	74-121	
1,1,2-Trichloroethane	ug/L	50	46.5	93	80-117	
1,1-Dichloroethane	ug/L	50	52.9	106	83-151	
1,1-Dichloroethene	ug/L	50	49.0	98	45-146	
1,2-Dichloroethane	ug/L	50	56.5	113	74-129	
1,2-Dichloroethene (Total)	ug/L	100	99.6	100	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	75-117	
2-Butanone (MEK)	ug/L	50	46.8	94	44-162	IL
2-Hexanone	ug/L	50	42.7	85	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	46.6	93	69-132	
Acetone	ug/L	50	56.5	113	23-188	CH,IC
Benzene	ug/L	50	45.9	92	73-119	
Bromodichloromethane	ug/L	50	48.6	97	78-117	
Bromoform	ug/L	50	35.0	70	65-122	CL
Bromomethane	ug/L	50	47.8	96	52-147	
Carbon disulfide	ug/L	50	47.6	95	41-144	
Carbon tetrachloride	ug/L	50	48.1	96	59-120	
Chlorobenzene	ug/L	50	42.0	84	75-113	
Chloroethane	ug/L	50	52.5	105	49-151	
Chloroform	ug/L	50	55.4	111	72-122	
Chloromethane	ug/L	50	49.1	98	46-144	
cis-1,3-Dichloropropene	ug/L	50	45.8	92	78-116	
Dibromochloromethane	ug/L	50	40.1	80	70-120	
Ethylbenzene	ug/L	50	42.1	84	70-113	
Methylene Chloride	ug/L	50	51.0	102	61-142	
Styrene	ug/L	50	42.0	84	72-118	
Tetrachloroethene	ug/L	50	37.6	75	60-128	CL
Toluene	ug/L	50	45.9	92	72-119	
trans-1,3-Dichloropropene	ug/L	50	44.0	88	79-116	
Trichloroethene	ug/L	50	43.5	87	69-117	
Vinyl chloride	ug/L	50	51.3	103	43-143	
Xylene (Total)	ug/L	150	124	83	71-109	
1,2-Dichloroethane-d4 (S)	%			105	68-153	
4-Bromofluorobenzene (S)	%			96	79-124	
Toluene-d8 (S)	%			92	69-124	

MATRIX SPIKE SAMPLE: 592357

Parameter	Units	7099405001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	46.8	94	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	45.7	91	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	47.8	96	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	54.7	109	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	51.5	103	45-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

MATRIX SPIKE SAMPLE: 592357

Parameter	Units	7099405001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	58.4	117	74-129	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	103	103	60-140	
1,2-Dichloropropane	ug/L	<1.0	50	47.3	95	75-117	
2-Butanone (MEK)	ug/L	<5.0	50	45.6	91	44-162	IL
2-Hexanone	ug/L	<5.0	50	41.6	83	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	46.5	93	69-132	
Acetone	ug/L	<5.0	50	55.8	112	23-188	CH,IC
Benzene	ug/L	ND	50	45.9	92	73-119	
Bromodichloromethane	ug/L	<1.0	50	48.3	97	78-117	
Bromoform	ug/L	<1.0	50	33.9	68	65-122	CL
Bromomethane	ug/L	<1.0	50	31.4	63	52-147	
Carbon disulfide	ug/L	<1.0	50	46.1	92	41-144	
Carbon tetrachloride	ug/L	<1.0	50	48.4	97	59-120	
Chlorobenzene	ug/L	<1.0	50	42.6	85	75-113	
Chloroethane	ug/L	<1.0	50	50.0	100	49-151	
Chloroform	ug/L	<1.0	50	58.5	117	72-122	
Chloromethane	ug/L	<1.0	50	33.8	68	46-144	
cis-1,3-Dichloropropene	ug/L	<1.0	50	44.8	90	78-116	
Dibromochloromethane	ug/L	<1.0	50	38.6	77	70-120	
Ethylbenzene	ug/L	<1.0	50	43.2	86	70-113	
Methylene Chloride	ug/L	<1.0	50	51.3	103	61-142	
Styrene	ug/L	<1.0	50	42.3	85	72-118	
Tetrachloroethene	ug/L	1.5	50	40.6	78	60-128	CL
Toluene	ug/L	<1.0	50	47.3	95	72-119	
trans-1,3-Dichloropropene	ug/L	<1.0	50	42.5	85	79-116	
Trichloroethene	ug/L	<1.0	50	46.1	92	69-117	
Vinyl chloride	ug/L	<1.0	50	41.8	84	43-143	
Xylene (Total)	ug/L	<3.0	150	127	85	71-109	
1,2-Dichloroethane-d4 (S)	%				105	68-153	
4-Bromofluorobenzene (S)	%				96	79-124	
Toluene-d8 (S)	%				92	69-124	

SAMPLE DUPLICATE: 592358

Parameter	Units	7099405001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		IL
2-Hexanone	ug/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

SAMPLE DUPLICATE: 592358

Parameter	Units	7099405001 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		IC
Benzene	ug/L	ND	ND		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		CL
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	1.5	1.6	5	CL
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	107	108		
4-Bromofluorobenzene (S)	%	94	97		
Toluene-d8 (S)	%	90	92		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

QC Batch: 124152 Analysis Method: SM22 4500-H+B
QC Batch Method: SM22 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 7099405001, 7099405002

SAMPLE DUPLICATE: 591504

Parameter	Units	7099300001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.2	6.2	0	H3,H6
Temperature, Water (C)	deg C	24.7	24.7	0	H3,H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMINLT MONTHLY 7/31
Pace Project No.: 7099405

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7099405001	**SYS-EFF**	EPA 200.7	124458	EPA 200.7	124465
7099405002	**SYS-INF**	EPA 200.7	124458	EPA 200.7	124465
7099405001	**SYS-EFF**	EPA 8260C/5030C	124251		
7099405002	**SYS-INF**	EPA 8260C/5030C	124251		
7099405001	**SYS-EFF**	SM22 4500-H+B	124152		
7099405002	**SYS-INF**	SM22 4500-H+B	124152		

WO#:7099405

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A — Required Clie

Required Project Information:

Company:	Engineer & Hydrogeologist
Address:	630 Johnson Avenue
	Bohemia, NY 11716
Email:	kcrosby@pwgrosser.com
Phone:	(631) 589-6353 Fax
Requested Due Date:	Standard
Report To:	Kaitlyn Crosby
Copy To:	
Purchase Order #:	
Project Name:	MINMILT MONTHLY
Project #:	MIN100

Section C — Invoice Information:

Attention:	Same as Client
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	betty.harrison@pacelabs.com
Pace Profile #:	5392

Regulatory Agency
State / Location
NY

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: 200.7 ICP Metals	4500H+B pH	8260 Full List	Residual Chlorine (Y/N)
1	SYS-EFF	WT		—	—	7.31.19	1000		5	X		X	X						X	X	X	
2	SYS-INF	WT		—	—	↓	1010		5	X		X	X						X	X	X	
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PWGC	7.31.19	1018		7/31/2019	1018	10.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: [signature] DATE Signed: 07/31/19

Sample Condition Upon Receipt

Pace Analytical

WO#: 7099405
PM: EMH Due Date: 08/14/19
CLIENT: PWG

Client Name: PW Grosser Engineer/Hydrogeolg Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☑ Yes ☐ No Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH091 Correction Factor: +0.2 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 16.8 Cooler Temperature Corrected (°C): 11 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample) Date and Initials of person examining contents: 7/31/2019 SP

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☐ No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☐ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☐ Yes	☐ No		
Containers Intact:	☐ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC863463				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑ Yes	☐ No	☐ N/A	Sample #
				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

August 26, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on August 19, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

Sample: SYS-EFF **Lab ID: 70101882001** Collected: 08/19/19 10:00 Received: 08/19/19 10:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**286**	ug/L	100	1	08/20/19 11:30	08/22/19 11:36	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		08/21/19 13:16	67-64-1	IC
Benzene	ND	ug/L	1.0	1		08/21/19 13:16	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/21/19 13:16	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/21/19 13:16	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		08/21/19 13:16	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/21/19 13:16	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/21/19 13:16	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/21/19 13:16	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/21/19 13:16	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		08/21/19 13:16	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/21/19 13:16	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/21/19 13:16	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/21/19 13:16	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/21/19 13:16	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/21/19 13:16	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		08/21/19 13:16	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/21/19 13:16	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/21/19 13:16	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/21/19 13:16	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/21/19 13:16	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/21/19 13:16	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/21/19 13:16	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/21/19 13:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/21/19 13:16	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		08/21/19 13:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/21/19 13:16	79-34-5	
Tetrachloroethene	**1.2**	ug/L	1.0	1		08/21/19 13:16	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		08/21/19 13:16	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/21/19 13:16	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/21/19 13:16	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/21/19 13:16	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/21/19 13:16	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/21/19 13:16	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	1		08/21/19 13:16	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	1		08/21/19 13:16	460-00-4	
Toluene-d8 (S)	95	%	69-124	1		08/21/19 13:16	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**7.1**	Std. Units	0.10	1		08/21/19 16:12		H3,H6
Temperature, Water (C)	**24.2**	deg C	0.10	1		08/21/19 16:12		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

Sample: SYS-INF **Lab ID: 70101882002** Collected: 08/19/19 10:10 Received: 08/19/19 10:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**561**	ug/L	100	1	08/20/19 11:30	08/22/19 11:38	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<100**	ug/L	100	20		08/21/19 12:08	67-64-1	IC
Benzene	ND	ug/L	20.0	20		08/21/19 12:08	71-43-2	
Bromodichloromethane	**<20.0**	ug/L	20.0	20		08/21/19 12:08	75-27-4	
Bromoform	**<20.0**	ug/L	20.0	20		08/21/19 12:08	75-25-2	CL
Bromomethane	**<20.0**	ug/L	20.0	20		08/21/19 12:08	74-83-9	
2-Butanone (MEK)	**<100**	ug/L	100	20		08/21/19 12:08	78-93-3	IL
Carbon disulfide	**<20.0**	ug/L	20.0	20		08/21/19 12:08	75-15-0	
Carbon tetrachloride	**<20.0**	ug/L	20.0	20		08/21/19 12:08	56-23-5	
Chlorobenzene	**<20.0**	ug/L	20.0	20		08/21/19 12:08	108-90-7	
Chloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:08	75-00-3	
Chloroform	**<20.0**	ug/L	20.0	20		08/21/19 12:08	67-66-3	
Chloromethane	**<20.0**	ug/L	20.0	20		08/21/19 12:08	74-87-3	
Dibromochloromethane	**<20.0**	ug/L	20.0	20		08/21/19 12:08	124-48-1	
1,1-Dichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:08	75-34-3	
1,2-Dichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:08	107-06-2	
1,2-Dichloroethene (Total)	**<40.0**	ug/L	40.0	20		08/21/19 12:08	540-59-0	
1,1-Dichloroethene	**<20.0**	ug/L	20.0	20		08/21/19 12:08	75-35-4	
1,2-Dichloropropane	**<20.0**	ug/L	20.0	20		08/21/19 12:08	78-87-5	
cis-1,3-Dichloropropene	**<20.0**	ug/L	20.0	20		08/21/19 12:08	10061-01-5	
trans-1,3-Dichloropropene	**<20.0**	ug/L	20.0	20		08/21/19 12:08	10061-02-6	
Ethylbenzene	**<20.0**	ug/L	20.0	20		08/21/19 12:08	100-41-4	
2-Hexanone	**<100**	ug/L	100	20		08/21/19 12:08	591-78-6	
Methylene Chloride	**<20.0**	ug/L	20.0	20		08/21/19 12:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<100**	ug/L	100	20		08/21/19 12:08	108-10-1	
Styrene	**<20.0**	ug/L	20.0	20		08/21/19 12:08	100-42-5	
1,1,2,2-Tetrachloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:08	79-34-5	
Tetrachloroethene	**1420**	ug/L	20.0	20		08/21/19 12:08	127-18-4	
Toluene	**<20.0**	ug/L	20.0	20		08/21/19 12:08	108-88-3	
1,1,1-Trichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:08	71-55-6	
1,1,2-Trichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:08	79-00-5	
Trichloroethene	**22.8**	ug/L	20.0	20		08/21/19 12:08	79-01-6	
Vinyl chloride	**<20.0**	ug/L	20.0	20		08/21/19 12:08	75-01-4	
Xylene (Total)	**<60.0**	ug/L	60.0	20		08/21/19 12:08	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	20		08/21/19 12:08	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	20		08/21/19 12:08	460-00-4	
Toluene-d8 (S)	95	%	69-124	20		08/21/19 12:08	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**5.7**	Std. Units	0.10	1		08/21/19 16:12		H3,H6
Temperature, Water (C)	**24.2**	deg C	0.10	1		08/21/19 16:12		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

Sample: UG **Lab ID: 70101882003** Collected: 08/19/19 10:20 Received: 08/19/19 10:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**629**	ug/L	100	1	08/20/19 11:30	08/22/19 11:40	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<100**	ug/L	100	20		08/21/19 12:31	67-64-1	IC
Benzene	ND	ug/L	20.0	20		08/21/19 12:31	71-43-2	
Bromodichloromethane	**<20.0**	ug/L	20.0	20		08/21/19 12:31	75-27-4	
Bromoform	**<20.0**	ug/L	20.0	20		08/21/19 12:31	75-25-2	CL
Bromomethane	**<20.0**	ug/L	20.0	20		08/21/19 12:31	74-83-9	
2-Butanone (MEK)	**<100**	ug/L	100	20		08/21/19 12:31	78-93-3	IL
Carbon disulfide	**<20.0**	ug/L	20.0	20		08/21/19 12:31	75-15-0	
Carbon tetrachloride	**<20.0**	ug/L	20.0	20		08/21/19 12:31	56-23-5	
Chlorobenzene	**<20.0**	ug/L	20.0	20		08/21/19 12:31	108-90-7	
Chloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:31	75-00-3	
Chloroform	**<20.0**	ug/L	20.0	20		08/21/19 12:31	67-66-3	
Chloromethane	**<20.0**	ug/L	20.0	20		08/21/19 12:31	74-87-3	
Dibromochloromethane	**<20.0**	ug/L	20.0	20		08/21/19 12:31	124-48-1	
1,1-Dichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:31	75-34-3	
1,2-Dichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:31	107-06-2	
1,2-Dichloroethene (Total)	**<40.0**	ug/L	40.0	20		08/21/19 12:31	540-59-0	
1,1-Dichloroethene	**<20.0**	ug/L	20.0	20		08/21/19 12:31	75-35-4	
1,2-Dichloropropane	**<20.0**	ug/L	20.0	20		08/21/19 12:31	78-87-5	
cis-1,3-Dichloropropene	**<20.0**	ug/L	20.0	20		08/21/19 12:31	10061-01-5	
trans-1,3-Dichloropropene	**<20.0**	ug/L	20.0	20		08/21/19 12:31	10061-02-6	
Ethylbenzene	**<20.0**	ug/L	20.0	20		08/21/19 12:31	100-41-4	
2-Hexanone	**<100**	ug/L	100	20		08/21/19 12:31	591-78-6	
Methylene Chloride	**<20.0**	ug/L	20.0	20		08/21/19 12:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<100**	ug/L	100	20		08/21/19 12:31	108-10-1	
Styrene	**<20.0**	ug/L	20.0	20		08/21/19 12:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:31	79-34-5	
Tetrachloroethene	**1600**	ug/L	20.0	20		08/21/19 12:31	127-18-4	
Toluene	**<20.0**	ug/L	20.0	20		08/21/19 12:31	108-88-3	
1,1,1-Trichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:31	71-55-6	
1,1,2-Trichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:31	79-00-5	
Trichloroethene	**24.5**	ug/L	20.0	20		08/21/19 12:31	79-01-6	
Vinyl chloride	**<20.0**	ug/L	20.0	20		08/21/19 12:31	75-01-4	
Xylene (Total)	**<60.0**	ug/L	60.0	20		08/21/19 12:31	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	20		08/21/19 12:31	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-124	20		08/21/19 12:31	460-00-4	
Toluene-d8 (S)	95	%	69-124	20		08/21/19 12:31	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**5.9**	Std. Units	0.10	1		08/21/19 16:12		H3,H6
Temperature, Water (C)	**24.2**	deg C	0.10	1		08/21/19 16:12		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

Sample: MAG **Lab ID: 70101882004** Collected: 08/19/19 10:30 Received: 08/19/19 10:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**8010**	ug/L	100	1	08/20/19 11:30	08/22/19 11:43	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<100**	ug/L	100	20		08/21/19 12:54	67-64-1	IC
Benzene	ND	ug/L	20.0	20		08/21/19 12:54	71-43-2	
Bromodichloromethane	**<20.0**	ug/L	20.0	20		08/21/19 12:54	75-27-4	
Bromoform	**<20.0**	ug/L	20.0	20		08/21/19 12:54	75-25-2	CL
Bromomethane	**<20.0**	ug/L	20.0	20		08/21/19 12:54	74-83-9	
2-Butanone (MEK)	**<100**	ug/L	100	20		08/21/19 12:54	78-93-3	IL
Carbon disulfide	**<20.0**	ug/L	20.0	20		08/21/19 12:54	75-15-0	
Carbon tetrachloride	**<20.0**	ug/L	20.0	20		08/21/19 12:54	56-23-5	
Chlorobenzene	**<20.0**	ug/L	20.0	20		08/21/19 12:54	108-90-7	
Chloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:54	75-00-3	
Chloroform	**<20.0**	ug/L	20.0	20		08/21/19 12:54	67-66-3	
Chloromethane	**<20.0**	ug/L	20.0	20		08/21/19 12:54	74-87-3	
Dibromochloromethane	**<20.0**	ug/L	20.0	20		08/21/19 12:54	124-48-1	
1,1-Dichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:54	75-34-3	
1,2-Dichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:54	107-06-2	
1,2-Dichloroethene (Total)	**<40.0**	ug/L	40.0	20		08/21/19 12:54	540-59-0	
1,1-Dichloroethene	**<20.0**	ug/L	20.0	20		08/21/19 12:54	75-35-4	
1,2-Dichloropropane	**<20.0**	ug/L	20.0	20		08/21/19 12:54	78-87-5	
cis-1,3-Dichloropropene	**<20.0**	ug/L	20.0	20		08/21/19 12:54	10061-01-5	
trans-1,3-Dichloropropene	**<20.0**	ug/L	20.0	20		08/21/19 12:54	10061-02-6	
Ethylbenzene	**<20.0**	ug/L	20.0	20		08/21/19 12:54	100-41-4	
2-Hexanone	**<100**	ug/L	100	20		08/21/19 12:54	591-78-6	
Methylene Chloride	**<20.0**	ug/L	20.0	20		08/21/19 12:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<100**	ug/L	100	20		08/21/19 12:54	108-10-1	
Styrene	**<20.0**	ug/L	20.0	20		08/21/19 12:54	100-42-5	
1,1,2,2-Tetrachloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:54	79-34-5	
Tetrachloroethene	**950**	ug/L	20.0	20		08/21/19 12:54	127-18-4	
Toluene	**<20.0**	ug/L	20.0	20		08/21/19 12:54	108-88-3	
1,1,1-Trichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:54	71-55-6	
1,1,2-Trichloroethane	**<20.0**	ug/L	20.0	20		08/21/19 12:54	79-00-5	
Trichloroethene	**<20.0**	ug/L	20.0	20		08/21/19 12:54	79-01-6	
Vinyl chloride	**<20.0**	ug/L	20.0	20		08/21/19 12:54	75-01-4	
Xylene (Total)	**<60.0**	ug/L	60.0	20		08/21/19 12:54	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	68-153	20		08/21/19 12:54	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	20		08/21/19 12:54	460-00-4	
Toluene-d8 (S)	96	%	69-124	20		08/21/19 12:54	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**5.6**	Std. Units	0.10	1		08/21/19 16:12		H3,H6
Temperature, Water (C)	**24.2**	deg C	0.10	1		08/21/19 16:12		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

QC Batch: 126740 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 70101882001, 70101882002, 70101882003, 70101882004

METHOD BLANK: 604886 Matrix: Water
Associated Lab Samples: 70101882001, 70101882002, 70101882003, 70101882004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	08/22/19 10:27	

LABORATORY CONTROL SAMPLE: 604887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	2010	101	85-115	

MATRIX SPIKE SAMPLE: 604889

Parameter	Units	70101706004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	4500	2000	6970	123	70-130	

MATRIX SPIKE SAMPLE: 604891

Parameter	Units	70101706006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1020	2000	2990	98	70-130	

SAMPLE DUPLICATE: 604888

Parameter	Units	70101706004 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	4500	4320	4	

SAMPLE DUPLICATE: 604890

Parameter	Units	70101706006 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1020	1000	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

QC Batch: 126854 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 70101882001, 70101882002, 70101882003, 70101882004

METHOD BLANK: 605646 Matrix: Water
Associated Lab Samples: 70101882001, 70101882002, 70101882003, 70101882004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	08/21/19 11:28	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	08/21/19 11:28	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	08/21/19 11:28	
1,1-Dichloroethane	ug/L	<1.0	1.0	08/21/19 11:28	
1,1-Dichloroethene	ug/L	<1.0	1.0	08/21/19 11:28	
1,2-Dichloroethane	ug/L	<1.0	1.0	08/21/19 11:28	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	08/21/19 11:28	
1,2-Dichloropropane	ug/L	<1.0	1.0	08/21/19 11:28	
2-Butanone (MEK)	ug/L	<5.0	5.0	08/21/19 11:28	IL
2-Hexanone	ug/L	<5.0	5.0	08/21/19 11:28	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	08/21/19 11:28	
Acetone	ug/L	<5.0	5.0	08/21/19 11:28	IC
Benzene	ug/L	ND	1.0	08/21/19 11:28	
Bromodichloromethane	ug/L	<1.0	1.0	08/21/19 11:28	
Bromoform	ug/L	<1.0	1.0	08/21/19 11:28	CL
Bromomethane	ug/L	<1.0	1.0	08/21/19 11:28	
Carbon disulfide	ug/L	<1.0	1.0	08/21/19 11:28	
Carbon tetrachloride	ug/L	<1.0	1.0	08/21/19 11:28	
Chlorobenzene	ug/L	<1.0	1.0	08/21/19 11:28	
Chloroethane	ug/L	<1.0	1.0	08/21/19 11:28	
Chloroform	ug/L	<1.0	1.0	08/21/19 11:28	
Chloromethane	ug/L	<1.0	1.0	08/21/19 11:28	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	08/21/19 11:28	
Dibromochloromethane	ug/L	<1.0	1.0	08/21/19 11:28	
Ethylbenzene	ug/L	<1.0	1.0	08/21/19 11:28	
Methylene Chloride	ug/L	<1.0	1.0	08/21/19 11:28	
Styrene	ug/L	<1.0	1.0	08/21/19 11:28	
Tetrachloroethene	ug/L	<1.0	1.0	08/21/19 11:28	
Toluene	ug/L	<1.0	1.0	08/21/19 11:28	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	08/21/19 11:28	
Trichloroethene	ug/L	<1.0	1.0	08/21/19 11:28	
Vinyl chloride	ug/L	<1.0	1.0	08/21/19 11:28	
Xylene (Total)	ug/L	<3.0	3.0	08/21/19 11:28	
1,2-Dichloroethane-d4 (S)	%	106	68-153	08/21/19 11:28	
4-Bromofluorobenzene (S)	%	98	79-124	08/21/19 11:28	
Toluene-d8 (S)	%	96	69-124	08/21/19 11:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

LABORATORY CONTROL SAMPLE: 605647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.3	89	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	49.5	99	74-121	
1,1,2-Trichloroethane	ug/L	50	47.0	94	80-117	
1,1-Dichloroethane	ug/L	50	52.5	105	83-151	
1,1-Dichloroethene	ug/L	50	50.6	101	45-146	
1,2-Dichloroethane	ug/L	50	52.8	106	74-129	
1,2-Dichloroethene (Total)	ug/L	100	99.5	99	60-140	
1,2-Dichloropropane	ug/L	50	48.8	98	75-117	
2-Butanone (MEK)	ug/L	50	48.2	96	44-162	IL
2-Hexanone	ug/L	50	43.3	87	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.2	94	69-132	
Acetone	ug/L	50	53.9	108	23-188	CH,IC
Benzene	ug/L	50	46.6	93	73-119	
Bromodichloromethane	ug/L	50	46.9	94	78-117	
Bromoform	ug/L	50	34.9	70	65-122	CL
Bromomethane	ug/L	50	45.9	92	52-147	
Carbon disulfide	ug/L	50	45.3	91	41-144	
Carbon tetrachloride	ug/L	50	46.6	93	59-120	
Chlorobenzene	ug/L	50	43.7	87	75-113	
Chloroethane	ug/L	50	51.6	103	49-151	
Chloroform	ug/L	50	54.2	108	72-122	
Chloromethane	ug/L	50	43.4	87	46-144	
cis-1,3-Dichloropropene	ug/L	50	44.7	89	78-116	
Dibromochloromethane	ug/L	50	39.5	79	70-120	
Ethylbenzene	ug/L	50	43.7	87	70-113	
Methylene Chloride	ug/L	50	54.3	109	61-142	
Styrene	ug/L	50	43.4	87	72-118	
Tetrachloroethene	ug/L	50	38.6	77	60-128	
Toluene	ug/L	50	46.9	94	72-119	
trans-1,3-Dichloropropene	ug/L	50	42.2	84	79-116	
Trichloroethene	ug/L	50	44.9	90	69-117	
Vinyl chloride	ug/L	50	48.9	98	43-143	
Xylene (Total)	ug/L	150	129	86	71-109	
1,2-Dichloroethane-d4 (S)	%			101	68-153	
4-Bromofluorobenzene (S)	%			96	79-124	
Toluene-d8 (S)	%			96	69-124	

MATRIX SPIKE SAMPLE: 608707

Parameter	Units	70101745013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	44.1	88	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	45.7	91	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	44.7	89	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	49.8	100	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	48.1	96	45-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

MATRIX SPIKE SAMPLE: 608707

Parameter	Units	70101745013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	50.5	101	74-129	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	96.6	97	60-140	
1,2-Dichloropropane	ug/L	<1.0	50	44.1	88	75-117	
2-Butanone (MEK)	ug/L	<5.0	50	42.7	85	44-162	IL
2-Hexanone	ug/L	<5.0	50	40.9	82	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	42.8	86	69-132	
Acetone	ug/L	<5.0	50	46.3	93	23-188	CH,IC
Benzene	ug/L	<1.0	50	44.6	89	73-119	
Bromodichloromethane	ug/L	<1.0	50	44.7	89	78-117	
Bromoform	ug/L	<1.0	50	33.3	67	65-122	CL
Bromomethane	ug/L	<1.0	50	31.8	64	52-147	
Carbon disulfide	ug/L	<1.0	50	45.5	91	41-144	
Carbon tetrachloride	ug/L	<1.0	50	47.7	95	59-120	
Chlorobenzene	ug/L	<1.0	50	42.5	85	75-113	
Chloroethane	ug/L	<1.0	50	51.4	103	49-151	
Chloroform	ug/L	<1.0	50	51.8	104	72-122	
Chloromethane	ug/L	<1.0	50	39.7	79	46-144	
cis-1,3-Dichloropropene	ug/L	<1.0	50	41.6	83	78-116	
Dibromochloromethane	ug/L	<1.0	50	38.7	77	70-120	
Ethylbenzene	ug/L	<1.0	50	42.8	86	70-113	
Methylene Chloride	ug/L	<1.0	50	50.8	102	61-142	
Styrene	ug/L	<1.0	50	42.0	84	72-118	
Tetrachloroethene	ug/L	<1.0	50	39.7	79	60-128	
Toluene	ug/L	<1.0	50	45.3	91	72-119	
trans-1,3-Dichloropropene	ug/L	<1.0	50	38.6	77	79-116	M1
Trichloroethene	ug/L	<1.0	50	44.3	89	69-117	
Vinyl chloride	ug/L	<1.0	50	46.9	94	43-143	
Xylene (Total)	ug/L	<3.0	150	127	84	71-109	
1,2-Dichloroethane-d4 (S)	%				103	68-153	
4-Bromofluorobenzene (S)	%				97	79-124	
Toluene-d8 (S)	%				96	69-124	

SAMPLE DUPLICATE: 608708

Parameter	Units	70101745014 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		IL
2-Hexanone	ug/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

SAMPLE DUPLICATE: 608708

Parameter	Units	70101745014 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		IC
Benzene	ug/L	<1.0	ND		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		CL
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	104	102		
4-Bromofluorobenzene (S)	%	96	96		
Toluene-d8 (S)	%	95	94		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

QC Batch: 126971 Analysis Method: SM22 4500-H+B
QC Batch Method: SM22 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 70101882001, 70101882002, 70101882003, 70101882004

SAMPLE DUPLICATE: 605952

Parameter	Units	70102015001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.9	6.9	0	H3,H6
Temperature, Water (C)	deg C	24.2	24.2	0	H3,H6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

QUALIFIERS

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT MONTHLY MIN 1001 8/19
Pace Project No.: 70101882

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70101882001	**SYS-EFF**	EPA 200.7	126740	EPA 200.7	126746
70101882002	**SYS-INF**	EPA 200.7	126740	EPA 200.7	126746
70101882003	**UG**	EPA 200.7	126740	EPA 200.7	126746
70101882004	**MAG**	EPA 200.7	126740	EPA 200.7	126746
70101882001	**SYS-EFF**	EPA 8260C/5030C	126854		
70101882002	**SYS-INF**	EPA 8260C/5030C	126854		
70101882003	**UG**	EPA 8260C/5030C	126854		
70101882004	**MAG**	EPA 8260C/5030C	126854		
70101882001	**SYS-EFF**	SM22 4500-H+B	126971		
70101882002	**SYS-INF**	SM22 4500-H+B	126971		
70101882003	**UG**	SM22 4500-H+B	126971		
70101882004	**MAG**	SM22 4500-H+B	126971		

WO#:70101882

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section C
Invoice Information:

Company: P.W. Grosser Engineer & Hydrogeologist	Report To: Kaitlyn Crosby	Attention: same as Client	
Address: 630 Johnson Avenue	Copy To:	Company Name:	Regulatory Agency
Bohemia, NY 11716		Address:	
Email: kcrosby@pwgrosser.com	Purchase Order #:	Pace Quote:	State / Location
Phone: (631) 589-6353 Fax:	Project Name: MINMILT MONTHLY	Pace Project Manager: betty.harrison@pacelabs.com,	NY
Requested Due Date: Standard	Project #: MIN1001	Pace Profile #: 5392	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): 200.7 ICP Metals	4500H+B pH	8260 Full List	Residual Chlorine (Y/N)
1	SYS-EFF	WT	G	—	—	8-19-19	1000		5	X		X	X						X	X	X	001
2	SYS-INF	WT	G	—	—		1010												X	X	X	002
3	UG		G	—	—		1020												X	X	X	003
4	MAG		G	—	—		1030												X	X	X	004
5							1030↑															
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	PWGC	8-19-19	1045	Pace	8/19/19	10:46	1.6	W	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: [signature] DATE Signed: 08/19/19

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Sample Condition Upon Receipt

Pace Analytical

WO#:70101882

PM: EMH Due Date: 09/03/19

CLIENT: PWG

Client Name: P.W. Grosser

Proj

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No

Temperature Blank Present: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 Correction Factor: +0.2

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 1.4 Cooler Temperature Corrected (°C): 1.6

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample) Date and Initials of person examining contents: SK 8/19/19

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☐Yes	☐No		1.
Chain of Custody Filled Out:	☐Yes	☐No		2.
Chain of Custody Relinquished:	☐Yes	☐No		3.
Sampler Name & Signature on COC:	☐Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☐Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☐No		6.
Rush Turn Around Time Requested:	☐Yes	☐No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☐Yes	☐No		8.
Correct Containers Used:	☐Yes	☐No		9.
-Pace Containers Used:	☐Yes	☐No		
Containers Intact:	☐Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☐N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☐Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC866463				Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☐N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☐N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☐N/A	15.
Trip Blank Present:	☐Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

September 26, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

Sample: SYS-EFF **Lab ID: 70105012001** Collected: 09/16/19 10:30 Received: 09/16/19 10:58 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**270**	ug/L	100	1	09/20/19 09:46	09/26/19 13:11	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		09/19/19 18:26	67-64-1	IC
Benzene	ND	ug/L	1.0	1		09/19/19 18:26	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/19/19 18:26	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/19/19 18:26	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		09/19/19 18:26	74-83-9	L1
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/19/19 18:26	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/19/19 18:26	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/19/19 18:26	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/19/19 18:26	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/19/19 18:26	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/19/19 18:26	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/19/19 18:26	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/19/19 18:26	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/19/19 18:26	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/19/19 18:26	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		09/19/19 18:26	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/19/19 18:26	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/19/19 18:26	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/19/19 18:26	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/19/19 18:26	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/19/19 18:26	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		09/19/19 18:26	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/19/19 18:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/19/19 18:26	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		09/19/19 18:26	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/19/19 18:26	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/19/19 18:26	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/19/19 18:26	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/19/19 18:26	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/19/19 18:26	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/19/19 18:26	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/19/19 18:26	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/19/19 18:26	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		09/19/19 18:26	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		09/19/19 18:26	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		09/19/19 18:26	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**7.5**	Std. Units	0.10	1		09/17/19 19:11		H3,H6
Temperature, Water (C)	**22.9**	deg C	0.10	1		09/17/19 19:11		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

Sample: SYS-INF **Lab ID: 70105012002** Collected: 09/16/19 10:40 Received: 09/16/19 10:58 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**580**	ug/L	100	1	09/20/19 09:46	09/26/19 13:18	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		09/17/19 19:42	67-64-1	IC
Benzene	ND	ug/L	1.0	1		09/17/19 19:42	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/17/19 19:42	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/17/19 19:42	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		09/17/19 19:42	74-83-9	L1
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/17/19 19:42	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		09/17/19 19:42	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/17/19 19:42	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/17/19 19:42	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/17/19 19:42	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/17/19 19:42	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/17/19 19:42	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/17/19 19:42	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/17/19 19:42	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/17/19 19:42	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		09/17/19 19:42	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/17/19 19:42	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/17/19 19:42	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/17/19 19:42	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/17/19 19:42	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/17/19 19:42	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		09/17/19 19:42	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		09/17/19 19:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/17/19 19:42	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		09/17/19 19:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/17/19 19:42	79-34-5	
Tetrachloroethene	**1720**	ug/L	10.0	10		09/17/19 20:05	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/17/19 19:42	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/17/19 19:42	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/17/19 19:42	79-00-5	
Trichloroethene	**23.2**	ug/L	1.0	1		09/17/19 19:42	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/17/19 19:42	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/17/19 19:42	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		09/17/19 19:42	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		09/17/19 19:42	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		09/17/19 19:42	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**6.4**	Std. Units	0.10	1		09/17/19 19:11		H3,H6
Temperature, Water (C)	**22.9**	deg C	0.10	1		09/17/19 19:11		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

QC Batch: 131071 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 70105012001, 70105012002

METHOD BLANK: 626365 Matrix: Water
Associated Lab Samples: 70105012001, 70105012002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	09/26/19 12:22	

LABORATORY CONTROL SAMPLE: 626366

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	2110	106	85-115	

MATRIX SPIKE SAMPLE: 626368

Parameter	Units	70104811001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	2000	2150	107	70-130	

MATRIX SPIKE SAMPLE: 626370

Parameter	Units	70104813001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	11600	2000	14800	158	70-130	M1

SAMPLE DUPLICATE: 626367

Parameter	Units	70104811001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 626369

Parameter	Units	70104813001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	11600	12000	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

QC Batch: 130353 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 70105012002

METHOD BLANK: 622913 Matrix: Water
Associated Lab Samples: 70105012002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/17/19 11:37	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	09/17/19 11:37	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	09/17/19 11:37	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/17/19 11:37	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/17/19 11:37	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/17/19 11:37	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	09/17/19 11:37	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/17/19 11:37	
2-Butanone (MEK)	ug/L	<5.0	5.0	09/17/19 11:37	IL
2-Hexanone	ug/L	<5.0	5.0	09/17/19 11:37	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	09/17/19 11:37	
Acetone	ug/L	<5.0	5.0	09/17/19 11:37	IC
Benzene	ug/L	ND	1.0	09/17/19 11:37	
Bromodichloromethane	ug/L	<1.0	1.0	09/17/19 11:37	
Bromoform	ug/L	<1.0	1.0	09/17/19 11:37	CL
Bromomethane	ug/L	<1.0	1.0	09/17/19 11:37	
Carbon disulfide	ug/L	<1.0	1.0	09/17/19 11:37	
Carbon tetrachloride	ug/L	<1.0	1.0	09/17/19 11:37	
Chlorobenzene	ug/L	<1.0	1.0	09/17/19 11:37	
Chloroethane	ug/L	<1.0	1.0	09/17/19 11:37	
Chloroform	ug/L	<1.0	1.0	09/17/19 11:37	
Chloromethane	ug/L	<1.0	1.0	09/17/19 11:37	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	09/17/19 11:37	
Dibromochloromethane	ug/L	<1.0	1.0	09/17/19 11:37	
Ethylbenzene	ug/L	<1.0	1.0	09/17/19 11:37	
Methylene Chloride	ug/L	<1.0	1.0	09/17/19 11:37	
Styrene	ug/L	<1.0	1.0	09/17/19 11:37	
Tetrachloroethene	ug/L	<1.0	1.0	09/17/19 11:37	
Toluene	ug/L	<1.0	1.0	09/17/19 11:37	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	09/17/19 11:37	
Trichloroethene	ug/L	<1.0	1.0	09/17/19 11:37	
Vinyl chloride	ug/L	<1.0	1.0	09/17/19 11:37	
Xylene (Total)	ug/L	<3.0	3.0	09/17/19 11:37	
1,2-Dichloroethane-d4 (S)	%	94	68-153	09/17/19 11:37	
4-Bromofluorobenzene (S)	%	93	79-124	09/17/19 11:37	
Toluene-d8 (S)	%	94	69-124	09/17/19 11:37	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

LABORATORY CONTROL SAMPLE: 622914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.8	92	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	74-121	
1,1,2-Trichloroethane	ug/L	50	51.4	103	80-117	
1,1-Dichloroethane	ug/L	50	52.3	105	83-151	
1,1-Dichloroethene	ug/L	50	57.2	114	45-146	
1,2-Dichloroethane	ug/L	50	54.4	109	74-129	
1,2-Dichloroethene (Total)	ug/L	100	106	106	60-140	
1,2-Dichloropropane	ug/L	50	52.3	105	75-117	
2-Butanone (MEK)	ug/L	50	40.6	81	44-162	IL
2-Hexanone	ug/L	50	41.4	83	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.7	97	69-132	
Acetone	ug/L	50	79.3	159	23-188	CH,IC
Benzene	ug/L	50	49.7	99	73-119	
Bromodichloromethane	ug/L	50	52.3	105	78-117	
Bromoform	ug/L	50	39.7	79	65-122	CL
Bromomethane	ug/L	50	97.4	195	52-147	CH,L1
Carbon disulfide	ug/L	50	46.5	93	41-144	
Carbon tetrachloride	ug/L	50	49.5	99	59-120	
Chlorobenzene	ug/L	50	46.1	92	75-113	
Chloroethane	ug/L	50	56.2	112	49-151	
Chloroform	ug/L	50	56.0	112	72-122	
Chloromethane	ug/L	50	66.8	134	46-144	CH
cis-1,3-Dichloropropene	ug/L	50	48.1	96	78-116	
Dibromochloromethane	ug/L	50	43.5	87	70-120	
Ethylbenzene	ug/L	50	45.6	91	70-113	
Methylene Chloride	ug/L	50	56.2	112	61-142	
Styrene	ug/L	50	44.8	90	72-118	
Tetrachloroethene	ug/L	50	43.8	88	60-128	
Toluene	ug/L	50	51.1	102	72-119	
trans-1,3-Dichloropropene	ug/L	50	42.2	84	79-116	
Trichloroethene	ug/L	50	48.2	96	69-117	
Vinyl chloride	ug/L	50	54.7	109	43-143	
Xylene (Total)	ug/L	150	134	89	71-109	
1,2-Dichloroethane-d4 (S)	%			95	68-153	
4-Bromofluorobenzene (S)	%			94	79-124	
Toluene-d8 (S)	%			93	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 623262 623263

Parameter	Units	70104904005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	47.0	47.7	94	95	65-118	2	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	42.7	45.9	85	92	74-121	7	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	47.7	48.9	95	98	80-117	3	
1,1-Dichloroethane	ug/L	<1.0	50	50	49.5	51.2	99	102	83-151	3	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 623262 623263

Parameter	Units	70104904005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	<1.0	50	50	50.3	53.5	101	107	45-146	6	
1,2-Dichloroethane	ug/L	<1.0	50	50	45.9	52.2	92	104	74-129	13	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	96.9	101	97	101	60-140	4	
1,2-Dichloropropane	ug/L	<1.0	50	50	48.5	51.0	97	102	75-117	5	
2-Butanone (MEK)	ug/L	<5.0	50	50	35.8	38.8	72	78	44-162	8	IL
2-Hexanone	ug/L	<5.0	50	50	38.4	42.4	77	85	32-183	10	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	45.0	48.2	90	96	69-132	7	
Acetone	ug/L	3.7J	50	50	77.2	79.2	147	151	23-188	3	CH,IC
Benzene	ug/L	<1.0	50	50	47.8	49.9	96	100	73-119	4	
Bromodichloromethane	ug/L	<1.0	50	50	47.6	50.7	95	101	78-117	6	
Bromoform	ug/L	<1.0	50	50	34.4	37.6	69	75	65-122	9	CL
Bromomethane	ug/L	<1.0	50	50	44.0	66.3	88	133	52-147	41	CH,R1
Carbon disulfide	ug/L	<1.0	50	50	42.6	43.6	85	87	41-144	2	
Carbon tetrachloride	ug/L	<1.0	50	50	51.2	51.4	102	103	59-120	0	
Chlorobenzene	ug/L	<1.0	50	50	43.7	45.8	87	92	75-113	5	
Chloroethane	ug/L	<1.0	50	50	43.1	46.5	86	93	49-151	8	
Chloroform	ug/L	<1.0	50	50	53.6	55.7	107	111	72-122	4	
Chloromethane	ug/L	<1.0	50	50	46.3	51.2	93	102	46-144	10	CH
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	42.9	45.4	86	91	78-116	6	
Dibromochloromethane	ug/L	<1.0	50	50	40.1	42.7	80	85	70-120	6	
Ethylbenzene	ug/L	<1.0	50	50	44.3	46.9	89	94	70-113	6	
Methylene Chloride	ug/L	<1.0	50	50	48.0	49.7	96	99	61-142	3	
Styrene	ug/L	<1.0	50	50	42.3	44.1	85	88	72-118	4	
Tetrachloroethene	ug/L	<1.0	50	50	42.6	44.5	85	89	60-128	4	
Toluene	ug/L	<1.0	50	50	49.3	51.3	99	103	72-119	4	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	36.1	40.0	72	80	79-116	10	M1
Trichloroethene	ug/L	<1.0	50	50	46.8	48.3	94	97	69-117	3	
Vinyl chloride	ug/L	<1.0	50	50	39.1	41.4	78	83	43-143	6	
Xylene (Total)	ug/L	<3.0	150	150	130	136	87	91	71-109	4	
1,2-Dichloroethane-d4 (S)	%						92	94	68-153		
4-Bromofluorobenzene (S)	%						94	94	79-124		
Toluene-d8 (S)	%						92	93	69-124		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

QC Batch: 130893
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Associated Lab Samples: 70105012001

METHOD BLANK: 625276
Matrix: Water
Associated Lab Samples: 70105012001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/19/19 15:47	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	09/19/19 15:47	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	09/19/19 15:47	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/19/19 15:47	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/19/19 15:47	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/19/19 15:47	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	09/19/19 15:47	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/19/19 15:47	
2-Butanone (MEK)	ug/L	<5.0	5.0	09/19/19 15:47	IL
2-Hexanone	ug/L	<5.0	5.0	09/19/19 15:47	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	09/19/19 15:47	
Acetone	ug/L	<5.0	5.0	09/19/19 15:47	IC
Benzene	ug/L	ND	1.0	09/19/19 15:47	
Bromodichloromethane	ug/L	<1.0	1.0	09/19/19 15:47	
Bromoform	ug/L	<1.0	1.0	09/19/19 15:47	
Bromomethane	ug/L	<1.0	1.0	09/19/19 15:47	
Carbon disulfide	ug/L	<1.0	1.0	09/19/19 15:47	
Carbon tetrachloride	ug/L	<1.0	1.0	09/19/19 15:47	
Chlorobenzene	ug/L	<1.0	1.0	09/19/19 15:47	
Chloroethane	ug/L	<1.0	1.0	09/19/19 15:47	
Chloroform	ug/L	<1.0	1.0	09/19/19 15:47	
Chloromethane	ug/L	<1.0	1.0	09/19/19 15:47	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	09/19/19 15:47	
Dibromochloromethane	ug/L	<1.0	1.0	09/19/19 15:47	
Ethylbenzene	ug/L	<1.0	1.0	09/19/19 15:47	
Methylene Chloride	ug/L	<1.0	1.0	09/19/19 15:47	
Styrene	ug/L	<1.0	1.0	09/19/19 15:47	
Tetrachloroethene	ug/L	<1.0	1.0	09/19/19 15:47	
Toluene	ug/L	<1.0	1.0	09/19/19 15:47	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	09/19/19 15:47	
Trichloroethene	ug/L	<1.0	1.0	09/19/19 15:47	
Vinyl chloride	ug/L	<1.0	1.0	09/19/19 15:47	
Xylene (Total)	ug/L	<3.0	3.0	09/19/19 15:47	
1,2-Dichloroethane-d4 (S)	%	97	68-153	09/19/19 15:47	
4-Bromofluorobenzene (S)	%	98	79-124	09/19/19 15:47	
Toluene-d8 (S)	%	91	69-124	09/19/19 15:47	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

LABORATORY CONTROL SAMPLE: 625277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.8	92	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	44.1	88	74-121	
1,1,2-Trichloroethane	ug/L	50	47.8	96	80-117	
1,1-Dichloroethane	ug/L	50	50.0	100	83-151	
1,1-Dichloroethene	ug/L	50	48.9	98	45-146	
1,2-Dichloroethane	ug/L	50	53.5	107	74-129	
1,2-Dichloroethene (Total)	ug/L	100	98.4	98	60-140	
1,2-Dichloropropane	ug/L	50	45.9	92	75-117	
2-Butanone (MEK)	ug/L	50	46.9	94	44-162	IL
2-Hexanone	ug/L	50	41.4	83	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.6	91	69-132	
Acetone	ug/L	50	52.4	105	23-188	CH,IC
Benzene	ug/L	50	45.2	90	73-119	
Bromodichloromethane	ug/L	50	49.7	99	78-117	
Bromoform	ug/L	50	40.0	80	65-122	
Bromomethane	ug/L	50	100	201	52-147	CH,L1
Carbon disulfide	ug/L	50	44.7	89	41-144	
Carbon tetrachloride	ug/L	50	50.9	102	59-120	
Chlorobenzene	ug/L	50	44.5	89	75-113	
Chloroethane	ug/L	50	50.5	101	49-151	
Chloroform	ug/L	50	53.8	108	72-122	
Chloromethane	ug/L	50	49.8	100	46-144	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	78-116	
Dibromochloromethane	ug/L	50	43.8	88	70-120	
Ethylbenzene	ug/L	50	42.6	85	70-113	
Methylene Chloride	ug/L	50	54.1	108	61-142	
Styrene	ug/L	50	43.5	87	72-118	
Tetrachloroethene	ug/L	50	41.1	82	60-128	
Toluene	ug/L	50	47.0	94	72-119	
trans-1,3-Dichloropropene	ug/L	50	43.0	86	79-116	
Trichloroethene	ug/L	50	45.1	90	69-117	
Vinyl chloride	ug/L	50	48.4	97	43-143	
Xylene (Total)	ug/L	150	128	86	71-109	
1,2-Dichloroethane-d4 (S)	%			97	68-153	
4-Bromofluorobenzene (S)	%			98	79-124	
Toluene-d8 (S)	%			92	69-124	

MATRIX SPIKE SAMPLE: 625697

Parameter	Units	70105012001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	48.6	97	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	44.8	90	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	49.8	100	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	54.3	109	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	58.5	117	45-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

MATRIX SPIKE SAMPLE: 625697

Parameter	Units	70105012001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	55.3	111	74-129	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	107	107	60-140	
1,2-Dichloropropane	ug/L	<1.0	50	48.5	97	75-117	
2-Butanone (MEK)	ug/L	<5.0	50	40.0	80	44-162	IL
2-Hexanone	ug/L	<5.0	50	43.8	88	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	47.5	95	69-132	
Acetone	ug/L	<5.0	50	56.2	112	23-188	CH,IC
Benzene	ug/L	ND	50	50.9	102	73-119	
Bromodichloromethane	ug/L	<1.0	50	50.4	101	78-117	
Bromoform	ug/L	<1.0	50	39.5	79	65-122	
Bromomethane	ug/L	<1.0	50	57.1	114	52-147	CH
Carbon disulfide	ug/L	<1.0	50	53.2	106	41-144	
Carbon tetrachloride	ug/L	<1.0	50	52.3	105	59-120	
Chlorobenzene	ug/L	<1.0	50	47.5	95	75-113	
Chloroethane	ug/L	<1.0	50	62.9	126	49-151	
Chloroform	ug/L	<1.0	50	57.3	115	72-122	
Chloromethane	ug/L	<1.0	50	65.3	131	46-144	
cis-1,3-Dichloropropene	ug/L	<1.0	50	45.1	90	78-116	
Dibromochloromethane	ug/L	<1.0	50	45.1	90	70-120	
Ethylbenzene	ug/L	<1.0	50	46.1	92	70-113	
Methylene Chloride	ug/L	<1.0	50	60.1	120	61-142	
Styrene	ug/L	<1.0	50	45.6	91	72-118	
Tetrachloroethene	ug/L	<1.0	50	46.9	94	60-128	
Toluene	ug/L	<1.0	50	50.2	100	72-119	
trans-1,3-Dichloropropene	ug/L	<1.0	50	43.3	87	79-116	
Trichloroethene	ug/L	<1.0	50	49.6	99	69-117	
Vinyl chloride	ug/L	<1.0	50	64.3	129	43-143	
Xylene (Total)	ug/L	<3.0	150	137	91	71-109	
1,2-Dichloroethane-d4 (S)	%				93	68-153	
4-Bromofluorobenzene (S)	%				99	79-124	
Toluene-d8 (S)	%				92	69-124	

SAMPLE DUPLICATE: 625695

Parameter	Units	70105420001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		IL
2-Hexanone	ug/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

SAMPLE DUPLICATE: 625695

Parameter	Units	70105420001 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	19.4	17.4	11	IC
Benzene	ug/L	<1.0	ND		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	1.1	1.3	19	
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	97	98		
4-Bromofluorobenzene (S)	%	99	99		
Toluene-d8 (S)	%	92	92		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

QC Batch: 130479
QC Batch Method: SM22 4500-H+B
Analysis Method: SM22 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 70105012001, 70105012002

SAMPLE DUPLICATE: 623440

Parameter	Units	70104777001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.0	7.0	0	H3,H6
Temperature, Water (C)	deg C	22.9	22.9	0	H3,H6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT MONTHLY 9/16
Pace Project No.: 70105012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70105012001	**SYS-EFF**	EPA 200.7	131071	EPA 200.7	131082
70105012002	**SYS-INF**	EPA 200.7	131071	EPA 200.7	131082
70105012001	**SYS-EFF**	EPA 8260C/5030C	130893		
70105012002	**SYS-INF**	EPA 8260C/5030C	130353		
70105012001	**SYS-EFF**	SM22 4500-H+B	130479		
70105012002	**SYS-INF**	SM22 4500-H+B	130479		

WO#:70105012

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	P W. Grosser Engineer & Hydrogeologist	Report To:	Kaitlyn Crosby	Attention:	Same as Client
Address:	630 Johnson Avenue	Copy To:		Company Name:	
	Bohemia, NY 11716			Address:	
Email:	kcrosby@pwgrosser.com	Purchase Order #:		Pace Quote:	
Phone:	(631) 589-6353 Fax —	Project Name:	MINMILT MONTHLY	Pace Project Manager:	betty.harrison@pacelabs.com,
Requested Due Date:	Standard	Project #:	MIN1001	Pace Profile #:	5392

Regulatory Agency	
State / Location	
NY	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	200.7 ICP Metals	4500H+B pH	8260 Full List	Residual Chlorine (Y/N)	
1	SYS-EFF	WT		—	—	9-16-19	1036		5	X		X	X					X	X	X		
2	SYS-INF	WT		—	—	↓	1040		5	X		X	X					X	X	X		
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	PWGC	9-16-19	1057	Pace LI	9/16/19	10:58	5.1 (B) N Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kaitlyn Crosby					
SIGNATURE of SAMPLER:		DATE Signed: 09/16/19				

Sample Condition Upon Receipt

Pace Analytical

WO#: 70105012
PM: EMH Due Date: 09/30/19
CLIENT: PWG

Client Name: PWG

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No

Temperature Blank Present: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Type of Ice: Wet (Blue) None

Thermometer Used: TH091 Correction Factor: +0.2

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 4.9 Cooler Temperature Corrected (°C): 5.1

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample) Date and Initials of person examining contents: SH 9/6/19

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☐Yes	☐No		1.
Chain of Custody Filled Out:	☐Yes	☐No		2.
Chain of Custody Relinquished:	☐Yes	☐No		3.
Sampler Name & Signature on COC:	☐Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☐Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☐No		6.
Rush Turn Around Time Requested:	☐Yes	☐No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☐Yes	☐No		8.
Correct Containers Used:	☐Yes	☐No		9.
-Pace Containers Used:	☐Yes	☐No		
Containers Intact:	☐Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☐N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix SL WT OIL	☐Yes	☐No		12.
All containers needing preservation have been checked. pH paper Lot # HC863463	☐Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☐N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☐N/A	14. Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☐N/A	15.
Trip Blank Present:	☐Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

November 04, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

Sample: SYS-EFF **Lab ID: 70109431001** Collected: 10/23/19 11:00 Received: 10/23/19 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**232**	ug/L	100	1	11/01/19 10:00	11/04/19 13:24	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		10/28/19 13:50	67-64-1	IC
Benzene	ND	ug/L	1.0	1		10/28/19 13:50	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		10/28/19 13:50	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		10/28/19 13:50	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		10/28/19 13:50	74-83-9	L1
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		10/28/19 13:50	78-93-3	IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		10/28/19 13:50	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		10/28/19 13:50	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		10/28/19 13:50	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		10/28/19 13:50	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		10/28/19 13:50	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		10/28/19 13:50	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		10/28/19 13:50	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/19 13:50	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		10/28/19 13:50	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		10/28/19 13:50	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		10/28/19 13:50	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		10/28/19 13:50	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		10/28/19 13:50	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		10/28/19 13:50	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/28/19 13:50	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		10/28/19 13:50	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		10/28/19 13:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		10/28/19 13:50	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		10/28/19 13:50	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		10/28/19 13:50	79-34-5	
Tetrachloroethene	**4.4**	ug/L	1.0	1		10/28/19 13:50	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		10/28/19 13:50	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		10/28/19 13:50	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		10/28/19 13:50	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		10/28/19 13:50	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		10/28/19 13:50	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/28/19 13:50	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	68-153	1		10/28/19 13:50	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		10/28/19 13:50	460-00-4	
Toluene-d8 (S)	95	%	69-124	1		10/28/19 13:50	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**7.2**	Std. Units	0.10	1		10/24/19 18:45		H3,H6
Temperature, Water (C)	**23.3**	deg C	0.10	1		10/24/19 18:45		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

Sample: SYS-INF **Lab ID: 70109431002** Collected: 10/23/19 11:10 Received: 10/23/19 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**297**	ug/L	100	1	11/01/19 10:00	11/04/19 13:26	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<50.0**	ug/L	50.0	10		10/28/19 13:25	67-64-1	IC
Benzene	ND	ug/L	10.0	10		10/28/19 13:25	71-43-2	
Bromodichloromethane	**<10.0**	ug/L	10.0	10		10/28/19 13:25	75-27-4	
Bromoform	**<10.0**	ug/L	10.0	10		10/28/19 13:25	75-25-2	CL
Bromomethane	**<10.0**	ug/L	10.0	10		10/28/19 13:25	74-83-9	L1
2-Butanone (MEK)	**<50.0**	ug/L	50.0	10		10/28/19 13:25	78-93-3	IL
Carbon disulfide	**<10.0**	ug/L	10.0	10		10/28/19 13:25	75-15-0	
Carbon tetrachloride	**<10.0**	ug/L	10.0	10		10/28/19 13:25	56-23-5	
Chlorobenzene	**<10.0**	ug/L	10.0	10		10/28/19 13:25	108-90-7	
Chloroethane	**<10.0**	ug/L	10.0	10		10/28/19 13:25	75-00-3	
Chloroform	**<10.0**	ug/L	10.0	10		10/28/19 13:25	67-66-3	
Chloromethane	**<10.0**	ug/L	10.0	10		10/28/19 13:25	74-87-3	
Dibromochloromethane	**<10.0**	ug/L	10.0	10		10/28/19 13:25	124-48-1	
1,1-Dichloroethane	**<10.0**	ug/L	10.0	10		10/28/19 13:25	75-34-3	
1,2-Dichloroethane	**<10.0**	ug/L	10.0	10		10/28/19 13:25	107-06-2	
1,2-Dichloroethene (Total)	**<20.0**	ug/L	20.0	10		10/28/19 13:25	540-59-0	
1,1-Dichloroethene	**<10.0**	ug/L	10.0	10		10/28/19 13:25	75-35-4	
1,2-Dichloropropane	**<10.0**	ug/L	10.0	10		10/28/19 13:25	78-87-5	
cis-1,3-Dichloropropene	**<10.0**	ug/L	10.0	10		10/28/19 13:25	10061-01-5	
trans-1,3-Dichloropropene	**<10.0**	ug/L	10.0	10		10/28/19 13:25	10061-02-6	
Ethylbenzene	**<10.0**	ug/L	10.0	10		10/28/19 13:25	100-41-4	
2-Hexanone	**<50.0**	ug/L	50.0	10		10/28/19 13:25	591-78-6	
Methylene Chloride	**<10.0**	ug/L	10.0	10		10/28/19 13:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<50.0**	ug/L	50.0	10		10/28/19 13:25	108-10-1	
Styrene	**<10.0**	ug/L	10.0	10		10/28/19 13:25	100-42-5	
1,1,2,2-Tetrachloroethane	**<10.0**	ug/L	10.0	10		10/28/19 13:25	79-34-5	
Tetrachloroethene	**1370**	ug/L	10.0	10		10/28/19 13:25	127-18-4	
Toluene	**<10.0**	ug/L	10.0	10		10/28/19 13:25	108-88-3	
1,1,1-Trichloroethane	**<10.0**	ug/L	10.0	10		10/28/19 13:25	71-55-6	
1,1,2-Trichloroethane	**<10.0**	ug/L	10.0	10		10/28/19 13:25	79-00-5	
Trichloroethene	**12.4**	ug/L	10.0	10		10/28/19 13:25	79-01-6	
Vinyl chloride	**<10.0**	ug/L	10.0	10		10/28/19 13:25	75-01-4	
Xylene (Total)	**<30.0**	ug/L	30.0	10		10/28/19 13:25	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	68-153	10		10/28/19 13:25	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	10		10/28/19 13:25	460-00-4	
Toluene-d8 (S)	95	%	69-124	10		10/28/19 13:25	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**6.0**	Std. Units	0.10	1		10/24/19 18:45		H1,H6
Temperature, Water (C)	**23.3**	deg C	0.10	1		10/24/19 18:45		H1,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

QC Batch: 136833 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 70109431001, 70109431002

METHOD BLANK: 654849 Matrix: Water
Associated Lab Samples: 70109431001, 70109431002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	11/04/19 12:55	

LABORATORY CONTROL SAMPLE: 654850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	2030	101	85-115	

MATRIX SPIKE SAMPLE: 654852

Parameter	Units	70109242001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	4920	2000	6760	92	70-130	

MATRIX SPIKE SAMPLE: 654854

Parameter	Units	70109609001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1790	2000	3520	87	70-130	

SAMPLE DUPLICATE: 654851

Parameter	Units	70109242001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	4920	5020	2	

SAMPLE DUPLICATE: 654853

Parameter	Units	70109609001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1790	1730	3	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

QC Batch: 136104 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 70109431001, 70109431002

METHOD BLANK: 651461 Matrix: Water
Associated Lab Samples: 70109431001, 70109431002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/28/19 09:59	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	10/28/19 09:59	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	10/28/19 09:59	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/28/19 09:59	
1,1-Dichloroethene	ug/L	<1.0	1.0	10/28/19 09:59	
1,2-Dichloroethane	ug/L	<1.0	1.0	10/28/19 09:59	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	10/28/19 09:59	
1,2-Dichloropropane	ug/L	<1.0	1.0	10/28/19 09:59	
2-Butanone (MEK)	ug/L	<5.0	5.0	10/28/19 09:59	IL
2-Hexanone	ug/L	<5.0	5.0	10/28/19 09:59	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	10/28/19 09:59	
Acetone	ug/L	<5.0	5.0	10/28/19 09:59	IC
Benzene	ug/L	ND	1.0	10/28/19 09:59	
Bromodichloromethane	ug/L	<1.0	1.0	10/28/19 09:59	
Bromoform	ug/L	<1.0	1.0	10/28/19 09:59	CL
Bromomethane	ug/L	<1.0	1.0	10/28/19 09:59	
Carbon disulfide	ug/L	<1.0	1.0	10/28/19 09:59	
Carbon tetrachloride	ug/L	<1.0	1.0	10/28/19 09:59	
Chlorobenzene	ug/L	<1.0	1.0	10/28/19 09:59	
Chloroethane	ug/L	<1.0	1.0	10/28/19 09:59	
Chloroform	ug/L	<1.0	1.0	10/28/19 09:59	
Chloromethane	ug/L	<1.0	1.0	10/28/19 09:59	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	10/28/19 09:59	
Dibromochloromethane	ug/L	<1.0	1.0	10/28/19 09:59	
Ethylbenzene	ug/L	<1.0	1.0	10/28/19 09:59	
Methylene Chloride	ug/L	<1.0	1.0	10/28/19 09:59	
Styrene	ug/L	<1.0	1.0	10/28/19 09:59	
Tetrachloroethene	ug/L	<1.0	1.0	10/28/19 09:59	
Toluene	ug/L	<1.0	1.0	10/28/19 09:59	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	10/28/19 09:59	
Trichloroethene	ug/L	<1.0	1.0	10/28/19 09:59	
Vinyl chloride	ug/L	<1.0	1.0	10/28/19 09:59	
Xylene (Total)	ug/L	<3.0	3.0	10/28/19 09:59	
1,2-Dichloroethane-d4 (S)	%	96	68-153	10/28/19 09:59	
4-Bromofluorobenzene (S)	%	95	79-124	10/28/19 09:59	
Toluene-d8 (S)	%	92	69-124	10/28/19 09:59	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

LABORATORY CONTROL SAMPLE: 651462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.5	95	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	50.8	102	74-121	
1,1,2-Trichloroethane	ug/L	50	50.3	101	80-117	
1,1-Dichloroethane	ug/L	50	55.4	111	83-151	
1,1-Dichloroethene	ug/L	50	55.6	111	45-146	
1,2-Dichloroethane	ug/L	50	53.9	108	74-129	
1,2-Dichloroethene (Total)	ug/L	100	109	109	60-140	
1,2-Dichloropropane	ug/L	50	51.5	103	75-117	
2-Butanone (MEK)	ug/L	50	40.6	81	44-162	IL
2-Hexanone	ug/L	50	44.0	88	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.3	97	69-132	
Acetone	ug/L	50	49.9	100	23-188	IC
Benzene	ug/L	50	50.6	101	73-119	
Bromodichloromethane	ug/L	50	48.8	98	78-117	
Bromoform	ug/L	50	36.0	72	65-122	CL
Bromomethane	ug/L	50	80.8	162	52-147	CH,L1
Carbon disulfide	ug/L	50	52.0	104	41-144	
Carbon tetrachloride	ug/L	50	50.1	100	59-120	
Chlorobenzene	ug/L	50	46.4	93	75-113	
Chloroethane	ug/L	50	57.9	116	49-151	
Chloroform	ug/L	50	56.4	113	72-122	
Chloromethane	ug/L	50	64.2	128	46-144	CH
cis-1,3-Dichloropropene	ug/L	50	48.5	97	78-116	
Dibromochloromethane	ug/L	50	42.7	85	70-120	
Ethylbenzene	ug/L	50	46.8	94	70-113	
Methylene Chloride	ug/L	50	58.3	117	61-142	
Styrene	ug/L	50	46.1	92	72-118	
Tetrachloroethene	ug/L	50	43.1	86	60-128	
Toluene	ug/L	50	50.6	101	72-119	
trans-1,3-Dichloropropene	ug/L	50	45.0	90	79-116	
Trichloroethene	ug/L	50	48.0	96	69-117	
Vinyl chloride	ug/L	50	62.2	124	43-143	CH
Xylene (Total)	ug/L	150	138	92	71-109	
1,2-Dichloroethane-d4 (S)	%			92	68-153	
4-Bromofluorobenzene (S)	%			96	79-124	
Toluene-d8 (S)	%			93	69-124	

MATRIX SPIKE SAMPLE: 651805

Parameter	Units	70109506002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	42.0	84	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	48.5	97	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	45.0	90	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	51.3	103	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	48.7	97	45-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

MATRIX SPIKE SAMPLE: 651805

Parameter	Units	70109506002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	49.4	99	74-129	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	98.7	99	60-140	
1,2-Dichloropropane	ug/L	<1.0	50	46.6	93	75-117	
2-Butanone (MEK)	ug/L	<5.0	50	36.2	72	44-162	IL
2-Hexanone	ug/L	<5.0	50	42.5	85	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	44.6	89	69-132	
Acetone	ug/L	<5.0	50	48.5	97	23-188	IC
Benzene	ug/L	<1.0	50	45.9	92	73-119	
Bromodichloromethane	ug/L	<1.0	50	44.7	89	78-117	
Bromoform	ug/L	<1.0	50	31.3	63	65-122	CL,M1
Bromomethane	ug/L	<1.0	50	44.4	89	52-147	CH
Carbon disulfide	ug/L	<1.0	50	43.7	87	41-144	
Carbon tetrachloride	ug/L	<1.0	50	44.7	89	59-120	
Chlorobenzene	ug/L	<1.0	50	41.9	84	75-113	
Chloroethane	ug/L	<1.0	50	46.9	94	49-151	
Chloroform	ug/L	<1.0	50	52.3	105	72-122	
Chloromethane	ug/L	<1.0	50	40.1	80	46-144	CH
cis-1,3-Dichloropropene	ug/L	<1.0	50	41.5	83	78-116	
Dibromochloromethane	ug/L	<1.0	50	37.2	74	70-120	
Ethylbenzene	ug/L	<1.0	50	42.2	84	70-113	
Methylene Chloride	ug/L	<1.0	50	48.1	96	61-142	
Styrene	ug/L	<1.0	50	41.7	83	72-118	
Tetrachloroethene	ug/L	<1.0	50	38.8	78	60-128	
Toluene	ug/L	<1.0	50	45.8	92	72-119	
trans-1,3-Dichloropropene	ug/L	<1.0	50	38.6	77	79-116	M1
Trichloroethene	ug/L	<1.0	50	43.7	87	69-117	
Vinyl chloride	ug/L	<1.0	50	44.3	89	43-143	CH
Xylene (Total)	ug/L	<3.0	150	124	82	71-109	
1,2-Dichloroethane-d4 (S)	%				99	68-153	
4-Bromofluorobenzene (S)	%				91	79-124	
Toluene-d8 (S)	%				97	69-124	

SAMPLE DUPLICATE: 651804

Parameter	Units	70109506001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		IL
2-Hexanone	ug/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

SAMPLE DUPLICATE: 651804

Parameter	Units	70109506001 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		IC
Benzene	ug/L	<1.0	ND		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		CL
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	1.3	1.4	5	
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	95	96		
4-Bromofluorobenzene (S)	%	94	94		
Toluene-d8 (S)	%	96	97		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

QC Batch: 135835 Analysis Method: SM22 4500-H+B
QC Batch Method: SM22 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 70109431001, 70109431002

SAMPLE DUPLICATE: 650107

Parameter	Units	70109575001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.8	6.8	0	H3,H6
Temperature, Water (C)	deg C	23.3	23.3	0	H3,H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Monthly Min Milt 10/23
Pace Project No.: 70109431

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70109431001	**SYS-EFF**	EPA 200.7	136833	EPA 200.7	136844
70109431002	**SYS-INF**	EPA 200.7	136833	EPA 200.7	136844
70109431001	**SYS-EFF**	EPA 8260C/5030C	136104		
70109431002	**SYS-INF**	EPA 8260C/5030C	136104		
70109431001	**SYS-EFF**	SM22 4500-H+B	135835		
70109431002	**SYS-INF**	SM22 4500-H+B	135835		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

WO#:70109431

Company: PWGC

Billing Information: Same as Client

Address: 630 Johnson Ave, Bohemia

Report To: Kaitlyn Crosby

Email To:

Copy To: ———

Site Collection Info/Address: 540 Smith Street

Customer Project Name/Number: MinMilt / MIN1001

State: NY County/City: Farmingdale Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET

Phone: 631-589-6353

Email: Kcrosby@pwgrosser.com

Site/Facility ID #: ———

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Kaitlyn Crosby

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature):

Turnaround Date Required: Standard

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOC	Iron	pH
SYS-EFF	GW	G	10-23-19	1100	—	—		4	X	X	X
SYS-INF	↓	↓	↓	1110	—	—		↓	X	X	X

Containers: 3 | 1 | V

BH

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: HC 8/6346			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

001
002

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet (Blue) Dry None

Packing Material Used: BUBBLE BAG

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2434139

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: T1691
Cooler 1 Temp Upon Receipt: 13.3 oC
Cooler 1 Therm Corr. Factor: +1.2 oC
Cooler 1 Corrected Temp: +13.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
PWGC	10/23/19 1122	PACE	10/23/19 1122
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

December 09, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

Sample: SYS-EFF **Lab ID: 70112653001** Collected: 11/21/19 09:10 Received: 11/21/19 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**306**	ug/L	100	1	12/05/19 11:54	12/06/19 13:47	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		12/02/19 13:59	67-64-1	CH,IC
Benzene	ND	ug/L	1.0	1		12/02/19 13:59	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		12/02/19 13:59	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		12/02/19 13:59	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		12/02/19 13:59	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		12/02/19 13:59	78-93-3	CL,IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		12/02/19 13:59	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		12/02/19 13:59	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		12/02/19 13:59	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		12/02/19 13:59	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		12/02/19 13:59	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		12/02/19 13:59	74-87-3	CL
Dibromochloromethane	**<1.0**	ug/L	1.0	1		12/02/19 13:59	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		12/02/19 13:59	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		12/02/19 13:59	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		12/02/19 13:59	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		12/02/19 13:59	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		12/02/19 13:59	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		12/02/19 13:59	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		12/02/19 13:59	10061-02-6	M1
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/02/19 13:59	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		12/02/19 13:59	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		12/02/19 13:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		12/02/19 13:59	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		12/02/19 13:59	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		12/02/19 13:59	79-34-5	
Tetrachloroethene	**6.8**	ug/L	1.0	1		12/02/19 13:59	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		12/02/19 13:59	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		12/02/19 13:59	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		12/02/19 13:59	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		12/02/19 13:59	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		12/02/19 13:59	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/02/19 13:59	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	68-153	1		12/02/19 13:59	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		12/02/19 13:59	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		12/02/19 13:59	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**7.2**	Std. Units	0.10	1		11/21/19 12:40		H3,H6
Temperature, Water (C)	**23.6**	deg C	0.10	1		11/21/19 12:40		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

Sample: SYS-INF **Lab ID: 70112653002** Collected: 11/21/19 09:15 Received: 11/21/19 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**151**	ug/L	100	1	12/05/19 11:54	12/06/19 13:48	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<50.0**	ug/L	50.0	10		12/02/19 12:51	67-64-1	IC
Benzene	ND	ug/L	10.0	10		12/02/19 12:51	71-43-2	
Bromodichloromethane	**<10.0**	ug/L	10.0	10		12/02/19 12:51	75-27-4	
Bromoform	**<10.0**	ug/L	10.0	10		12/02/19 12:51	75-25-2	
Bromomethane	**<10.0**	ug/L	10.0	10		12/02/19 12:51	74-83-9	
2-Butanone (MEK)	**<50.0**	ug/L	50.0	10		12/02/19 12:51	78-93-3	CL,IL
Carbon disulfide	**<10.0**	ug/L	10.0	10		12/02/19 12:51	75-15-0	
Carbon tetrachloride	**<10.0**	ug/L	10.0	10		12/02/19 12:51	56-23-5	
Chlorobenzene	**<10.0**	ug/L	10.0	10		12/02/19 12:51	108-90-7	
Chloroethane	**<10.0**	ug/L	10.0	10		12/02/19 12:51	75-00-3	
Chloroform	**<10.0**	ug/L	10.0	10		12/02/19 12:51	67-66-3	
Chloromethane	**<10.0**	ug/L	10.0	10		12/02/19 12:51	74-87-3	CL
Dibromochloromethane	**<10.0**	ug/L	10.0	10		12/02/19 12:51	124-48-1	
1,1-Dichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 12:51	75-34-3	
1,2-Dichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 12:51	107-06-2	
1,2-Dichloroethene (Total)	**<20.0**	ug/L	20.0	10		12/02/19 12:51	540-59-0	
1,1-Dichloroethene	**<10.0**	ug/L	10.0	10		12/02/19 12:51	75-35-4	
1,2-Dichloropropane	**<10.0**	ug/L	10.0	10		12/02/19 12:51	78-87-5	
cis-1,3-Dichloropropene	**<10.0**	ug/L	10.0	10		12/02/19 12:51	10061-01-5	
trans-1,3-Dichloropropene	**<10.0**	ug/L	10.0	10		12/02/19 12:51	10061-02-6	
Ethylbenzene	**<10.0**	ug/L	10.0	10		12/02/19 12:51	100-41-4	
2-Hexanone	**<50.0**	ug/L	50.0	10		12/02/19 12:51	591-78-6	
Methylene Chloride	**<10.0**	ug/L	10.0	10		12/02/19 12:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<50.0**	ug/L	50.0	10		12/02/19 12:51	108-10-1	
Styrene	**<10.0**	ug/L	10.0	10		12/02/19 12:51	100-42-5	
1,1,2,2-Tetrachloroethane	**<10.0**	ug/L	10.0	10		12/02/19 12:51	79-34-5	
Tetrachloroethene	**1460**	ug/L	10.0	10		12/02/19 12:51	127-18-4	
Toluene	**<10.0**	ug/L	10.0	10		12/02/19 12:51	108-88-3	
1,1,1-Trichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 12:51	71-55-6	
1,1,2-Trichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 12:51	79-00-5	
Trichloroethene	**11.6**	ug/L	10.0	10		12/02/19 12:51	79-01-6	
Vinyl chloride	**<10.0**	ug/L	10.0	10		12/02/19 12:51	75-01-4	
Xylene (Total)	**<30.0**	ug/L	30.0	10		12/02/19 12:51	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	68-153	10		12/02/19 12:51	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	10		12/02/19 12:51	460-00-4	
Toluene-d8 (S)	99	%	69-124	10		12/02/19 12:51	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**6.0**	Std. Units	0.10	1		11/21/19 12:40		H3,H6
Temperature, Water (C)	**23.6**	deg C	0.10	1		11/21/19 12:40		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

Sample: UG **Lab ID: 70112653003** Collected: 11/21/19 09:20 Received: 11/21/19 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**907**	ug/L	100	1	12/05/19 11:54	12/06/19 13:52	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<50.0**	ug/L	50.0	10		12/02/19 13:14	67-64-1	IC
Benzene	ND	ug/L	10.0	10		12/02/19 13:14	71-43-2	
Bromodichloromethane	**<10.0**	ug/L	10.0	10		12/02/19 13:14	75-27-4	
Bromoform	**<10.0**	ug/L	10.0	10		12/02/19 13:14	75-25-2	
Bromomethane	**<10.0**	ug/L	10.0	10		12/02/19 13:14	74-83-9	
2-Butanone (MEK)	**<50.0**	ug/L	50.0	10		12/02/19 13:14	78-93-3	CL,IL
Carbon disulfide	**<10.0**	ug/L	10.0	10		12/02/19 13:14	75-15-0	
Carbon tetrachloride	**<10.0**	ug/L	10.0	10		12/02/19 13:14	56-23-5	
Chlorobenzene	**<10.0**	ug/L	10.0	10		12/02/19 13:14	108-90-7	
Chloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:14	75-00-3	
Chloroform	**<10.0**	ug/L	10.0	10		12/02/19 13:14	67-66-3	
Chloromethane	**<10.0**	ug/L	10.0	10		12/02/19 13:14	74-87-3	CL
Dibromochloromethane	**<10.0**	ug/L	10.0	10		12/02/19 13:14	124-48-1	
1,1-Dichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:14	75-34-3	
1,2-Dichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:14	107-06-2	
1,2-Dichloroethene (Total)	**<20.0**	ug/L	20.0	10		12/02/19 13:14	540-59-0	
1,1-Dichloroethene	**<10.0**	ug/L	10.0	10		12/02/19 13:14	75-35-4	
1,2-Dichloropropane	**<10.0**	ug/L	10.0	10		12/02/19 13:14	78-87-5	
cis-1,3-Dichloropropene	**<10.0**	ug/L	10.0	10		12/02/19 13:14	10061-01-5	
trans-1,3-Dichloropropene	**<10.0**	ug/L	10.0	10		12/02/19 13:14	10061-02-6	
Ethylbenzene	**<10.0**	ug/L	10.0	10		12/02/19 13:14	100-41-4	
2-Hexanone	**<50.0**	ug/L	50.0	10		12/02/19 13:14	591-78-6	
Methylene Chloride	**<10.0**	ug/L	10.0	10		12/02/19 13:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<50.0**	ug/L	50.0	10		12/02/19 13:14	108-10-1	
Styrene	**<10.0**	ug/L	10.0	10		12/02/19 13:14	100-42-5	
1,1,2,2-Tetrachloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:14	79-34-5	
Tetrachloroethene	**1880**	ug/L	10.0	10		12/02/19 13:14	127-18-4	
Toluene	**<10.0**	ug/L	10.0	10		12/02/19 13:14	108-88-3	
1,1,1-Trichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:14	71-55-6	
1,1,2-Trichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:14	79-00-5	
Trichloroethene	**19.2**	ug/L	10.0	10		12/02/19 13:14	79-01-6	
Vinyl chloride	**<10.0**	ug/L	10.0	10		12/02/19 13:14	75-01-4	
Xylene (Total)	**<30.0**	ug/L	30.0	10		12/02/19 13:14	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	68-153	10		12/02/19 13:14	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	10		12/02/19 13:14	460-00-4	
Toluene-d8 (S)	100	%	69-124	10		12/02/19 13:14	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**6.0**	Std. Units	0.10	1		11/21/19 12:40		H3,H6
Temperature, Water (C)	**23.6**	deg C	0.10	1		11/21/19 12:40		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

Sample: MAG **Lab ID: 70112653004** Collected: 11/21/19 09:25 Received: 11/21/19 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**343**	ug/L	100	1	12/05/19 11:54	12/06/19 13:53	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<50.0**	ug/L	50.0	10		12/02/19 13:37	67-64-1	IC
Benzene	ND	ug/L	10.0	10		12/02/19 13:37	71-43-2	
Bromodichloromethane	**<10.0**	ug/L	10.0	10		12/02/19 13:37	75-27-4	
Bromoform	**<10.0**	ug/L	10.0	10		12/02/19 13:37	75-25-2	
Bromomethane	**<10.0**	ug/L	10.0	10		12/02/19 13:37	74-83-9	
2-Butanone (MEK)	**<50.0**	ug/L	50.0	10		12/02/19 13:37	78-93-3	CL,IL
Carbon disulfide	**<10.0**	ug/L	10.0	10		12/02/19 13:37	75-15-0	
Carbon tetrachloride	**<10.0**	ug/L	10.0	10		12/02/19 13:37	56-23-5	
Chlorobenzene	**<10.0**	ug/L	10.0	10		12/02/19 13:37	108-90-7	
Chloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:37	75-00-3	
Chloroform	**<10.0**	ug/L	10.0	10		12/02/19 13:37	67-66-3	
Chloromethane	**<10.0**	ug/L	10.0	10		12/02/19 13:37	74-87-3	CL
Dibromochloromethane	**<10.0**	ug/L	10.0	10		12/02/19 13:37	124-48-1	
1,1-Dichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:37	75-34-3	
1,2-Dichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:37	107-06-2	
1,2-Dichloroethene (Total)	**<20.0**	ug/L	20.0	10		12/02/19 13:37	540-59-0	
1,1-Dichloroethene	**<10.0**	ug/L	10.0	10		12/02/19 13:37	75-35-4	
1,2-Dichloropropane	**<10.0**	ug/L	10.0	10		12/02/19 13:37	78-87-5	
cis-1,3-Dichloropropene	**<10.0**	ug/L	10.0	10		12/02/19 13:37	10061-01-5	
trans-1,3-Dichloropropene	**<10.0**	ug/L	10.0	10		12/02/19 13:37	10061-02-6	
Ethylbenzene	**<10.0**	ug/L	10.0	10		12/02/19 13:37	100-41-4	
2-Hexanone	**<50.0**	ug/L	50.0	10		12/02/19 13:37	591-78-6	
Methylene Chloride	**<10.0**	ug/L	10.0	10		12/02/19 13:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<50.0**	ug/L	50.0	10		12/02/19 13:37	108-10-1	
Styrene	**<10.0**	ug/L	10.0	10		12/02/19 13:37	100-42-5	
1,1,2,2-Tetrachloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:37	79-34-5	
Tetrachloroethene	**1200**	ug/L	10.0	10		12/02/19 13:37	127-18-4	
Toluene	**<10.0**	ug/L	10.0	10		12/02/19 13:37	108-88-3	
1,1,1-Trichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:37	71-55-6	
1,1,2-Trichloroethane	**<10.0**	ug/L	10.0	10		12/02/19 13:37	79-00-5	
Trichloroethene	**<10.0**	ug/L	10.0	10		12/02/19 13:37	79-01-6	
Vinyl chloride	**<10.0**	ug/L	10.0	10		12/02/19 13:37	75-01-4	
Xylene (Total)	**<30.0**	ug/L	30.0	10		12/02/19 13:37	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	68-153	10		12/02/19 13:37	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	10		12/02/19 13:37	460-00-4	
Toluene-d8 (S)	101	%	69-124	10		12/02/19 13:37	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**5.8**	Std. Units	0.10	1		11/21/19 12:40		H3,H6
Temperature, Water (C)	**23.6**	deg C	0.10	1		11/21/19 12:40		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

QC Batch: 141092 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 70112653001, 70112653002, 70112653003, 70112653004

METHOD BLANK: 675818 Matrix: Water
Associated Lab Samples: 70112653001, 70112653002, 70112653003, 70112653004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	12/06/19 13:25	

LABORATORY CONTROL SAMPLE: 675819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	2080	104	85-115	

MATRIX SPIKE SAMPLE: 675821

Parameter	Units	70112475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	2000	2170	105	70-130	

MATRIX SPIKE SAMPLE: 675823

Parameter	Units	70112475003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1270	2000	3400	106	70-130	

SAMPLE DUPLICATE: 675820

Parameter	Units	70112475001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 675822

Parameter	Units	70112475003 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1270	1330	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

QC Batch: 140462 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 70112653001, 70112653002, 70112653003, 70112653004

METHOD BLANK: 673034 Matrix: Water
Associated Lab Samples: 70112653001, 70112653002, 70112653003, 70112653004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/02/19 12:02	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	12/02/19 12:02	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	12/02/19 12:02	
1,1-Dichloroethane	ug/L	<1.0	1.0	12/02/19 12:02	
1,1-Dichloroethene	ug/L	<1.0	1.0	12/02/19 12:02	
1,2-Dichloroethane	ug/L	<1.0	1.0	12/02/19 12:02	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	12/02/19 12:02	
1,2-Dichloropropane	ug/L	<1.0	1.0	12/02/19 12:02	
2-Butanone (MEK)	ug/L	<5.0	5.0	12/02/19 12:02	CL,IL
2-Hexanone	ug/L	<5.0	5.0	12/02/19 12:02	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	12/02/19 12:02	
Acetone	ug/L	<5.0	5.0	12/02/19 12:02	IC
Benzene	ug/L	ND	1.0	12/02/19 12:02	
Bromodichloromethane	ug/L	<1.0	1.0	12/02/19 12:02	
Bromoform	ug/L	<1.0	1.0	12/02/19 12:02	
Bromomethane	ug/L	<1.0	1.0	12/02/19 12:02	
Carbon disulfide	ug/L	<1.0	1.0	12/02/19 12:02	
Carbon tetrachloride	ug/L	<1.0	1.0	12/02/19 12:02	
Chlorobenzene	ug/L	<1.0	1.0	12/02/19 12:02	
Chloroethane	ug/L	<1.0	1.0	12/02/19 12:02	
Chloroform	ug/L	<1.0	1.0	12/02/19 12:02	
Chloromethane	ug/L	<1.0	1.0	12/02/19 12:02	CL
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	12/02/19 12:02	
Dibromochloromethane	ug/L	<1.0	1.0	12/02/19 12:02	
Ethylbenzene	ug/L	<1.0	1.0	12/02/19 12:02	
Methylene Chloride	ug/L	<1.0	1.0	12/02/19 12:02	
Styrene	ug/L	<1.0	1.0	12/02/19 12:02	
Tetrachloroethene	ug/L	<1.0	1.0	12/02/19 12:02	
Toluene	ug/L	<1.0	1.0	12/02/19 12:02	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	12/02/19 12:02	
Trichloroethene	ug/L	<1.0	1.0	12/02/19 12:02	
Vinyl chloride	ug/L	<1.0	1.0	12/02/19 12:02	
Xylene (Total)	ug/L	<3.0	3.0	12/02/19 12:02	
1,2-Dichloroethane-d4 (S)	%	91	68-153	12/02/19 12:02	
4-Bromofluorobenzene (S)	%	97	79-124	12/02/19 12:02	
Toluene-d8 (S)	%	101	69-124	12/02/19 12:02	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

LABORATORY CONTROL SAMPLE: 673035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.5	87	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	74-121	
1,1,2-Trichloroethane	ug/L	50	48.9	98	80-117	
1,1-Dichloroethane	ug/L	50	51.9	104	83-151	
1,1-Dichloroethene	ug/L	50	48.8	98	45-146	
1,2-Dichloroethane	ug/L	50	50.9	102	74-129	
1,2-Dichloroethene (Total)	ug/L	100	105	105	60-140	
1,2-Dichloropropane	ug/L	50	48.4	97	75-117	
2-Butanone (MEK)	ug/L	50	36.1	72	44-162	CL,IL
2-Hexanone	ug/L	50	43.7	87	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	43.4	87	69-132	
Acetone	ug/L	50	47.1	94	23-188	CH,IC
Benzene	ug/L	50	47.6	95	73-119	
Bromodichloromethane	ug/L	50	47.2	94	78-117	
Bromoform	ug/L	50	40.3	81	65-122	
Bromomethane	ug/L	50	47.0	94	52-147	
Carbon disulfide	ug/L	50	43.8	88	41-144	
Carbon tetrachloride	ug/L	50	46.6	93	59-120	
Chlorobenzene	ug/L	50	49.1	98	75-113	
Chloroethane	ug/L	50	45.5	91	49-151	
Chloroform	ug/L	50	55.3	111	72-122	
Chloromethane	ug/L	50	38.6	77	46-144	CL
cis-1,3-Dichloropropene	ug/L	50	44.7	89	78-116	
Dibromochloromethane	ug/L	50	44.6	89	70-120	
Ethylbenzene	ug/L	50	48.5	97	70-113	
Methylene Chloride	ug/L	50	54.7	109	61-142	
Styrene	ug/L	50	48.7	97	72-118	
Tetrachloroethene	ug/L	50	46.5	93	60-128	
Toluene	ug/L	50	48.1	96	72-119	
trans-1,3-Dichloropropene	ug/L	50	41.5	83	79-116	
Trichloroethene	ug/L	50	45.8	92	69-117	
Vinyl chloride	ug/L	50	40.8	82	43-143	
Xylene (Total)	ug/L	150	144	96	71-109	
1,2-Dichloroethane-d4 (S)	%			89	68-153	
4-Bromofluorobenzene (S)	%			93	79-124	
Toluene-d8 (S)	%			101	69-124	

MATRIX SPIKE SAMPLE: 673753

Parameter	Units	70112653001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	42.4	85	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	43.7	87	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	45.0	90	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	49.6	99	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	51.0	102	45-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

MATRIX SPIKE SAMPLE: 673753

Parameter	Units	70112653001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	46.5	93	74-129	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	101	101	60-140	
1,2-Dichloropropane	ug/L	<1.0	50	46.4	93	75-117	
2-Butanone (MEK)	ug/L	<5.0	50	32.1	64	44-162	CL,IL
2-Hexanone	ug/L	<5.0	50	37.7	75	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	39.9	80	69-132	
Acetone	ug/L	<5.0	50	44.0	88	23-188	CH,IC
Benzene	ug/L	ND	50	46.7	93	73-119	
Bromodichloromethane	ug/L	<1.0	50	42.4	85	78-117	
Bromoform	ug/L	<1.0	50	33.8	68	65-122	
Bromomethane	ug/L	<1.0	50	35.9	72	52-147	
Carbon disulfide	ug/L	<1.0	50	44.9	90	41-144	
Carbon tetrachloride	ug/L	<1.0	50	45.4	91	59-120	
Chlorobenzene	ug/L	<1.0	50	47.2	94	75-113	
Chloroethane	ug/L	<1.0	50	48.7	97	49-151	
Chloroform	ug/L	<1.0	50	52.0	104	72-122	
Chloromethane	ug/L	<1.0	50	38.7	77	46-144	CL
cis-1,3-Dichloropropene	ug/L	<1.0	50	40.1	80	78-116	
Dibromochloromethane	ug/L	<1.0	50	39.5	79	70-120	
Ethylbenzene	ug/L	<1.0	50	46.8	94	70-113	
Methylene Chloride	ug/L	<1.0	50	49.4	99	61-142	
Styrene	ug/L	<1.0	50	46.3	93	72-118	
Tetrachloroethene	ug/L	6.8	50	50.5	88	60-128	
Toluene	ug/L	<1.0	50	47.1	94	72-119	
trans-1,3-Dichloropropene	ug/L	<1.0	50	35.9	72	79-116	M1
Trichloroethene	ug/L	<1.0	50	44.6	89	69-117	
Vinyl chloride	ug/L	<1.0	50	44.8	90	43-143	
Xylene (Total)	ug/L	<3.0	150	138	92	71-109	
1,2-Dichloroethane-d4 (S)	%				89	68-153	
4-Bromofluorobenzene (S)	%				97	79-124	
Toluene-d8 (S)	%				100	69-124	

SAMPLE DUPLICATE: 673754

Parameter	Units	70112653001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		CL,IL
2-Hexanone	ug/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

SAMPLE DUPLICATE: 673754

Parameter	Units	70112653001 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		IC
Benzene	ug/L	ND	ND		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		CL
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	6.8	5.9	13	
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	89	89		
4-Bromofluorobenzene (S)	%	95	95		
Toluene-d8 (S)	%	98	99		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

QC Batch: 139535 Analysis Method: SM22 4500-H+B
QC Batch Method: SM22 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 70112653001, 70112653002, 70112653003, 70112653004

SAMPLE DUPLICATE: 668554

Parameter	Units	30335981001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units		6.9		H3,H6
Temperature, Water (C)	deg C		23.5		H3,H6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT MONTHLY 11/21
Pace Project No.: 70112653

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70112653001	**SYS-EFF**	EPA 200.7	141092	EPA 200.7	141153
70112653002	**SYS-INF**	EPA 200.7	141092	EPA 200.7	141153
70112653003	**UG**	EPA 200.7	141092	EPA 200.7	141153
70112653004	**MAG**	EPA 200.7	141092	EPA 200.7	141153
70112653001	**SYS-EFF**	EPA 8260C/5030C	140462		
70112653002	**SYS-INF**	EPA 8260C/5030C	140462		
70112653003	**UG**	EPA 8260C/5030C	140462		
70112653004	**MAG**	EPA 8260C/5030C	140462		
70112653001	**SYS-EFF**	SM22 4500-H+B	139535		
70112653002	**SYS-INF**	SM22 4500-H+B	139535		
70112653003	**UG**	SM22 4500-H+B	139535		
70112653004	**MAG**	SM22 4500-H+B	139535		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must

WO#:70112653

70112653

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	P.W. Grosser Engineer & Hydrogeologist	Report To:	Kaitlyn Crosby	Attention:	Same as Client
Address:	630 Johnson Avenue	Copy To:		Company Name:	
	Bohemia, NY 11716			Address:	
Email:	kcrosby@pwgrosser.com	Purchase Order #:		Pace Quote:	
Phone:	(631) 589-6353 Fax	Project Name:	MINMILT MONTHLY	Pace Project Manager:	betty.harrison@pacelabs.com,
Requested Due Date:	Standard	Project #:	MIN1001	Pace Profile #:	5392

Regulatory Agency
State / Location
NY

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: 200.7 ICP Metals	4500H+B pH	8260 Full List	Residual Chlorine (Y/N)
1	SYS-EFF	WT	G	—	—	11-21-19	0910		5	X		X	X						X	X	X	
2	SYS-INF	WT		—	—		0915												X	X	X	
3	UG						0920												X	X	X	
4	MAG						0925												X	X	X	
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Phoe	11-21-19	0945	/ Pace	11/20/19	9:45	0.9	Y (B)	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: [signature] DATE Signed: 11/21/19

Pace Analytical

Sample Condition Upon Receipt

WO#:70112653
PM: EMH Due Date: 12/09/19
CLIENT: PWG

Client Name: PWG

Pro

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Type of Ice: Wet (Blue) None

Thermometer Used: TH091

Correction Factor: +0.2

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 0.9

Cooler Temperature Corrected (°C): 1.1

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Date and Initials of person examining contents: 11/21/19 SP

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL (WT) OIL				
All containers needing preservation have been checked	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC998032				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Sample #
				Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

January 10, 2020

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on December 30, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

Sample: SYS-EFF **Lab ID: 70116756001** Collected: 12/30/19 10:00 Received: 12/30/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**121**	ug/L	100	1	01/08/20 12:01	01/08/20 17:55	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		01/06/20 16:51	67-64-1	IC
Benzene	ND	ug/L	1.0	1		01/06/20 16:51	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		01/06/20 16:51	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		01/06/20 16:51	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		01/06/20 16:51	74-83-9	L1
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		01/06/20 16:51	78-93-3	CL,IL
Carbon disulfide	**<1.0**	ug/L	1.0	1		01/06/20 16:51	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		01/06/20 16:51	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		01/06/20 16:51	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		01/06/20 16:51	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		01/06/20 16:51	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		01/06/20 16:51	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		01/06/20 16:51	124-48-1	CL
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		01/06/20 16:51	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		01/06/20 16:51	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		01/06/20 16:51	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		01/06/20 16:51	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		01/06/20 16:51	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		01/06/20 16:51	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		01/06/20 16:51	10061-02-6	CL,L2
Ethylbenzene	**<1.0**	ug/L	1.0	1		01/06/20 16:51	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		01/06/20 16:51	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		01/06/20 16:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		01/06/20 16:51	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		01/06/20 16:51	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		01/06/20 16:51	79-34-5	
Tetrachloroethene	**3.7**	ug/L	1.0	1		01/06/20 16:51	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		01/06/20 16:51	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		01/06/20 16:51	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		01/06/20 16:51	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		01/06/20 16:51	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		01/06/20 16:51	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		01/06/20 16:51	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	68-153	1		01/06/20 16:51	17060-07-0	
4-Bromofluorobenzene (S)	91	%	79-124	1		01/06/20 16:51	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		01/06/20 16:51	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**7.6**	Std. Units	0.10	1		12/31/19 10:16		H3,H6
Temperature, Water (C)	**24.5**	deg C	0.10	1		12/31/19 10:16		H3,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

Sample: SYS-INF **Lab ID: 70116756002** Collected: 12/30/19 10:10 Received: 12/30/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	**258**	ug/L	100	1	01/08/20 12:01	01/08/20 18:02	7439-89-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<50.0**	ug/L	50.0	10		01/06/20 16:28	67-64-1	IC
Benzene	ND	ug/L	10.0	10		01/06/20 16:28	71-43-2	
Bromodichloromethane	**<10.0**	ug/L	10.0	10		01/06/20 16:28	75-27-4	
Bromoform	**<10.0**	ug/L	10.0	10		01/06/20 16:28	75-25-2	CL
Bromomethane	**<10.0**	ug/L	10.0	10		01/06/20 16:28	74-83-9	L1
2-Butanone (MEK)	**<50.0**	ug/L	50.0	10		01/06/20 16:28	78-93-3	CL,IL
Carbon disulfide	**<10.0**	ug/L	10.0	10		01/06/20 16:28	75-15-0	
Carbon tetrachloride	**<10.0**	ug/L	10.0	10		01/06/20 16:28	56-23-5	
Chlorobenzene	**<10.0**	ug/L	10.0	10		01/06/20 16:28	108-90-7	
Chloroethane	**<10.0**	ug/L	10.0	10		01/06/20 16:28	75-00-3	
Chloroform	**<10.0**	ug/L	10.0	10		01/06/20 16:28	67-66-3	
Chloromethane	**<10.0**	ug/L	10.0	10		01/06/20 16:28	74-87-3	
Dibromochloromethane	**<10.0**	ug/L	10.0	10		01/06/20 16:28	124-48-1	CL
1,1-Dichloroethane	**<10.0**	ug/L	10.0	10		01/06/20 16:28	75-34-3	
1,2-Dichloroethane	**<10.0**	ug/L	10.0	10		01/06/20 16:28	107-06-2	
1,2-Dichloroethene (Total)	**<20.0**	ug/L	20.0	10		01/06/20 16:28	540-59-0	
1,1-Dichloroethene	**<10.0**	ug/L	10.0	10		01/06/20 16:28	75-35-4	
1,2-Dichloropropane	**<10.0**	ug/L	10.0	10		01/06/20 16:28	78-87-5	
cis-1,3-Dichloropropene	**<10.0**	ug/L	10.0	10		01/06/20 16:28	10061-01-5	
trans-1,3-Dichloropropene	**<10.0**	ug/L	10.0	10		01/06/20 16:28	10061-02-6	CL,L2
Ethylbenzene	**<10.0**	ug/L	10.0	10		01/06/20 16:28	100-41-4	
2-Hexanone	**<50.0**	ug/L	50.0	10		01/06/20 16:28	591-78-6	
Methylene Chloride	**<10.0**	ug/L	10.0	10		01/06/20 16:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<50.0**	ug/L	50.0	10		01/06/20 16:28	108-10-1	
Styrene	**<10.0**	ug/L	10.0	10		01/06/20 16:28	100-42-5	
1,1,2,2-Tetrachloroethane	**<10.0**	ug/L	10.0	10		01/06/20 16:28	79-34-5	
Tetrachloroethene	**1280**	ug/L	10.0	10		01/06/20 16:28	127-18-4	
Toluene	**<10.0**	ug/L	10.0	10		01/06/20 16:28	108-88-3	
1,1,1-Trichloroethane	**<10.0**	ug/L	10.0	10		01/06/20 16:28	71-55-6	
1,1,2-Trichloroethane	**<10.0**	ug/L	10.0	10		01/06/20 16:28	79-00-5	
Trichloroethene	**11.8**	ug/L	10.0	10		01/06/20 16:28	79-01-6	
Vinyl chloride	**<10.0**	ug/L	10.0	10		01/06/20 16:28	75-01-4	
Xylene (Total)	**<30.0**	ug/L	30.0	10		01/06/20 16:28	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	10		01/06/20 16:28	17060-07-0	
4-Bromofluorobenzene (S)	90	%	79-124	10		01/06/20 16:28	460-00-4	
Toluene-d8 (S)	95	%	69-124	10		01/06/20 16:28	2037-26-5	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B							
pH	**6.1**	Std. Units	0.10	1		12/31/19 10:26		H1,H6
Temperature, Water (C)	**24.5**	deg C	0.10	1		12/31/19 10:26		H1,H6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

QC Batch: 144835 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 70116756001, 70116756002

METHOD BLANK: 694165 Matrix: Water
Associated Lab Samples: 70116756001, 70116756002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	01/08/20 15:58	

LABORATORY CONTROL SAMPLE: 694166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	2010	101	85-115	

MATRIX SPIKE SAMPLE: 694168

Parameter	Units	70116733001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1870	2000	4180	115	70-130	

MATRIX SPIKE SAMPLE: 694170

Parameter	Units	70116733002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1440	2000	3470	101	70-130	

SAMPLE DUPLICATE: 694167

Parameter	Units	70116733001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1870	1980	6	

SAMPLE DUPLICATE: 694169

Parameter	Units	70116733002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1440	1460	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

QC Batch: 144512
QC Batch Method: EPA 8260C/5030C
Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV
Associated Lab Samples: 70116756001, 70116756002

METHOD BLANK: 692436
Matrix: Water
Associated Lab Samples: 70116756001, 70116756002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	01/06/20 11:57	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	01/06/20 11:57	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	01/06/20 11:57	
1,1-Dichloroethane	ug/L	<1.0	1.0	01/06/20 11:57	
1,1-Dichloroethene	ug/L	<1.0	1.0	01/06/20 11:57	
1,2-Dichloroethane	ug/L	<1.0	1.0	01/06/20 11:57	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	01/06/20 11:57	
1,2-Dichloropropane	ug/L	<1.0	1.0	01/06/20 11:57	
2-Butanone (MEK)	ug/L	<5.0	5.0	01/06/20 11:57	CL,IL
2-Hexanone	ug/L	<5.0	5.0	01/06/20 11:57	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	01/06/20 11:57	
Acetone	ug/L	<5.0	5.0	01/06/20 11:57	IC
Benzene	ug/L	ND	1.0	01/06/20 11:57	
Bromodichloromethane	ug/L	<1.0	1.0	01/06/20 11:57	
Bromoform	ug/L	<1.0	1.0	01/06/20 11:57	CL
Bromomethane	ug/L	<1.0	1.0	01/06/20 11:57	
Carbon disulfide	ug/L	<1.0	1.0	01/06/20 11:57	
Carbon tetrachloride	ug/L	<1.0	1.0	01/06/20 11:57	
Chlorobenzene	ug/L	<1.0	1.0	01/06/20 11:57	
Chloroethane	ug/L	<1.0	1.0	01/06/20 11:57	
Chloroform	ug/L	<1.0	1.0	01/06/20 11:57	
Chloromethane	ug/L	<1.0	1.0	01/06/20 11:57	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	01/06/20 11:57	
Dibromochloromethane	ug/L	<1.0	1.0	01/06/20 11:57	CL
Ethylbenzene	ug/L	<1.0	1.0	01/06/20 11:57	
Methylene Chloride	ug/L	<1.0	1.0	01/06/20 11:57	
Styrene	ug/L	<1.0	1.0	01/06/20 11:57	
Tetrachloroethene	ug/L	<1.0	1.0	01/06/20 11:57	
Toluene	ug/L	<1.0	1.0	01/06/20 11:57	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	01/06/20 11:57	CL
Trichloroethene	ug/L	<1.0	1.0	01/06/20 11:57	
Vinyl chloride	ug/L	<1.0	1.0	01/06/20 11:57	
Xylene (Total)	ug/L	<3.0	3.0	01/06/20 11:57	
1,2-Dichloroethane-d4 (S)	%	93	68-153	01/06/20 11:57	
4-Bromofluorobenzene (S)	%	91	79-124	01/06/20 11:57	
Toluene-d8 (S)	%	96	69-124	01/06/20 11:57	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

LABORATORY CONTROL SAMPLE: 692437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	39.0	78	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	74-121	
1,1,2-Trichloroethane	ug/L	50	43.6	87	80-117	
1,1-Dichloroethane	ug/L	50	47.7	95	83-151	
1,1-Dichloroethene	ug/L	50	43.6	87	45-146	
1,2-Dichloroethane	ug/L	50	47.2	94	74-129	
1,2-Dichloroethene (Total)	ug/L	100	93.9	94	60-140	
1,2-Dichloropropane	ug/L	50	45.0	90	75-117	
2-Butanone (MEK)	ug/L	50	31.7	63	44-162	CL,IL
2-Hexanone	ug/L	50	39.4	79	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	41.0	82	69-132	
Acetone	ug/L	50	43.5	87	23-188	IC
Benzene	ug/L	50	43.3	87	73-119	
Bromodichloromethane	ug/L	50	42.6	85	78-117	
Bromoform	ug/L	50	33.1	66	65-122	CL
Bromomethane	ug/L	50	79.1	158	52-147	CH,L1
Carbon disulfide	ug/L	50	39.8	80	41-144	
Carbon tetrachloride	ug/L	50	42.5	85	59-120	
Chlorobenzene	ug/L	50	42.1	84	75-113	
Chloroethane	ug/L	50	47.1	94	49-151	
Chloroform	ug/L	50	50.4	101	72-122	
Chloromethane	ug/L	50	47.3	95	46-144	
cis-1,3-Dichloropropene	ug/L	50	39.9	80	78-116	
Dibromochloromethane	ug/L	50	37.9	76	70-120	CL
Ethylbenzene	ug/L	50	42.1	84	70-113	
Methylene Chloride	ug/L	50	48.3	97	61-142	
Styrene	ug/L	50	41.8	84	72-118	
Tetrachloroethene	ug/L	50	38.7	77	60-128	
Toluene	ug/L	50	43.4	87	72-119	
trans-1,3-Dichloropropene	ug/L	50	36.9	74	79-116	CL,L2
Trichloroethene	ug/L	50	40.5	81	69-117	
Vinyl chloride	ug/L	50	42.0	84	43-143	
Xylene (Total)	ug/L	150	123	82	71-109	
1,2-Dichloroethane-d4 (S)	%			91	68-153	
4-Bromofluorobenzene (S)	%			91	79-124	
Toluene-d8 (S)	%			96	69-124	

MATRIX SPIKE SAMPLE: 692759

Parameter	Units	70116896002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	48.2	40.2	83	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	48.2	46.3	96	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	48.2	42.8	89	80-117	
1,1-Dichloroethane	ug/L	<1.0	48.2	48.8	101	83-151	
1,1-Dichloroethene	ug/L	<1.0	48.2	48.2	100	45-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

MATRIX SPIKE SAMPLE: 692759

Parameter	Units	70116896002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	48.2	47.1	98	74-129	
1,2-Dichloroethene (Total)	ug/L	2.9	96.4	100	101	60-140	
1,2-Dichloropropane	ug/L	<1.0	48.2	44.5	92	75-117	
2-Butanone (MEK)	ug/L	<5.0	48.2	31.1	64	44-162	CL,IL
2-Hexanone	ug/L	<5.0	48.2	40.2	83	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	48.2	40.2	83	69-132	
Acetone	ug/L	<5.0	48.2	47.9	99	23-188	IC
Benzene	ug/L	1.5	48.2	46.3	93	73-119	
Bromodichloromethane	ug/L	<1.0	48.2	37.6	78	78-117	
Bromoform	ug/L	<1.0	48.2	23.4	49	65-122	CL,M1
Bromomethane	ug/L	<1.0	48.2	22.3	46	52-147	CH,M0
Carbon disulfide	ug/L	<1.0	48.2	43.0	89	41-144	
Carbon tetrachloride	ug/L	<1.0	48.2	28.5	59	59-120	
Chlorobenzene	ug/L	<1.0	48.2	43.8	91	75-113	
Chloroethane	ug/L	<1.0	48.2	49.1	102	49-151	
Chloroform	ug/L	<1.0	48.2	50.8	105	72-122	
Chloromethane	ug/L	<1.0	48.2	36.0	75	46-144	
cis-1,3-Dichloropropene	ug/L	<1.0	48.2	36.2	75	78-116	M1
Dibromochloromethane	ug/L	<1.0	48.2	30.0	62	70-120	CL,M1
Ethylbenzene	ug/L	<1.0	48.2	45.1	94	70-113	
Methylene Chloride	ug/L	1.4	48.2	48.7	98	61-142	
Styrene	ug/L	<1.0	48.2	42.6	88	72-118	
Tetrachloroethene	ug/L	<1.0	48.2	41.8	87	60-128	
Toluene	ug/L	1.1	48.2	46.1	93	72-119	
trans-1,3-Dichloropropene	ug/L	<1.0	48.2	30.8	64	79-116	CL,M0
Trichloroethene	ug/L	<1.0	48.2	46.9	97	69-117	
Vinyl chloride	ug/L	<1.0	48.2	41.6	86	43-143	
Xylene (Total)	ug/L	<3.0	145	130	90	71-109	
1,2-Dichloroethane-d4 (S)	%				91	68-153	
4-Bromofluorobenzene (S)	%				90	79-124	
Toluene-d8 (S)	%				97	69-124	

SAMPLE DUPLICATE: 692760

Parameter	Units	70116896003 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	1.4	1.5	3	
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	4.0	4.2	5	
1,2-Dichloroethene (Total)	ug/L	7.7	7.5	3	
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	21.5	20.6	4	CL,IL
2-Hexanone	ug/L	<5.0	<5.0		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

SAMPLE DUPLICATE: 692760

Parameter	Units	70116896003 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	29.2	29.2	0	
Acetone	ug/L	316	209	41	D6,E,IC
Benzene	ug/L	5.0	4.9	0	
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		CL
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	2.3	1.7	30	D6
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		CL
Ethylbenzene	ug/L	4.5	4.6	3	
Methylene Chloride	ug/L	3.3	3.1	7	
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	25.8	25.5	1	
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		CL
Trichloroethene	ug/L	1.8	1.8	2	
Vinyl chloride	ug/L	9.1	8.7	5	
Xylene (Total)	ug/L	10.9	10.9	1	
1,2-Dichloroethane-d4 (S)	%	91	90		
4-Bromofluorobenzene (S)	%	91	91		
Toluene-d8 (S)	%	96	97		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

QC Batch: 144079
QC Batch Method: SM22 4500-H+B
Analysis Method: SM22 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 70116756001, 70116756002

SAMPLE DUPLICATE: 690101

Parameter	Units	70116551001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.1	7.1	0	H3,H6
Temperature, Water (C)	deg C	24.5	24.5	0	H3,H6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT MONTHLY 12/30
Pace Project No.: 70116756

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70116756001	**SYS-EFF**	EPA 200.7	144835	EPA 200.7	144851
70116756002	**SYS-INF**	EPA 200.7	144835	EPA 200.7	144851
70116756001	**SYS-EFF**	EPA 8260C/5030C	144512		
70116756002	**SYS-INF**	EPA 8260C/5030C	144512		
70116756001	**SYS-EFF**	SM22 4500-H+B	144079		
70116756002	**SYS-INF**	SM22 4500-H+B	144079		

WO#:70116756

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	P.W. Grosser Engineer & Hydrogeologist	Report To:	Kaitlyn Crosby	Attention:	Same as Client
Address:	630 Johnson Avenue	Copy To:		Company Name:	
	Bohemia, NY 11716			Address:	
Email:	kcrosby@pwgrosser.com	Purchase Order #:		Pace Quote:	
Phone:	(631) 589-6353 Fax: —	Project Name:	MINMILT MONTHLY	Pace Project Manager:	betty.harrison@pacelabs.com,
Requested Due Date:	Standard	Project #:	MIN1001	Pace Profile #:	5392

Regulatory Agency	
State / Location	
	NY

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: 200.7 ICP Metals	4500H+B pH	8260 Full List	Residual Chlorine (Y/N)
1	SYS-EFF		WT	G	—	—	12.30.19	1000		5	X		X	X						X	X	X	
2	SYS-INF		WT	G	—	—	↓	1010		5	X		X	X						X	X	X	
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PWG-C	12-30-19	1021	PACE	12/30/19	10:21	6-8	Y (B)	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: [signature] DATE Signed: 12/30/19

Sample Condition Upon Receipt

Pace Analytical

WO#:70116756
PM: EMH Due Date: 01/14/20
CLIENT: PWG

Client Name: PWG

Pr

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet (Blue) None

Thermometer Used: TH091 Correction Factor: +0.2 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 6.8 Cooler Temperature Corrected (°C): 7.0 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample) Date and Initials of person examining contents: V.U 12/30/19

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix SL (WT) OIL	☑Yes	☐No		12.
All containers needing preservation have been checked pH paper Lot # HC948032	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Sample #
				Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

PWGC
CLIENT DRIVEN SOLUTIONS

APPENDIX C

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

March 29, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MIN MILT MIN 1001
Pace Project No.: 7082027

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Air Samples were subcontracted to Pace Analytical Services, Inc., 1700 Elm Street, Minneapolis, MN 55414

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MIN MILT MIN 1001
Pace Project No.: 7082027

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

SAMPLE ANALYTE COUNT

Project: MIN MILT MIN 1001
Pace Project No.: 7082027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7082027001	**SVE-INF**	TO-15	MJL	61	PASI-M

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: MIN MILT MIN 1001
Pace Project No.: 7082027

Sample: SVE-INF **Lab ID: 7082027001** Collected: 03/12/19 11:15 Received: 03/12/19 11:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**18.1**	ug/m3	3.0	1.26		03/28/19 13:20	67-64-1	CH,L1
Benzene	**<0.19**	ug/m3	0.41	1.26		03/28/19 13:20	71-43-2	
Benzyl chloride	**<1.5**	ug/m3	3.3	1.26		03/28/19 13:20	100-44-7	
Bromodichloromethane	**<0.46**	ug/m3	1.7	1.26		03/28/19 13:20	75-27-4	
Bromoform	**<1.8**	ug/m3	6.6	1.26		03/28/19 13:20	75-25-2	
Bromomethane	**<0.29**	ug/m3	0.99	1.26		03/28/19 13:20	74-83-9	
1,3-Butadiene	**<0.16**	ug/m3	0.57	1.26		03/28/19 13:20	106-99-0	
2-Butanone (MEK)	**3.3J**	ug/m3	3.8	1.26		03/28/19 13:20	78-93-3	
Carbon disulfide	**0.51J**	ug/m3	0.80	1.26		03/28/19 13:20	75-15-0	
Carbon tetrachloride	**<0.54**	ug/m3	1.6	1.26		03/28/19 13:20	56-23-5	
Chlorobenzene	**<0.35**	ug/m3	1.2	1.26		03/28/19 13:20	108-90-7	
Chloroethane	**0.90**	ug/m3	0.68	1.26		03/28/19 13:20	75-00-3	
Chloroform	**2.9**	ug/m3	0.62	1.26		03/28/19 13:20	67-66-3	
Chloromethane	**0.53**	ug/m3	0.53	1.26		03/28/19 13:20	74-87-3	
Cyclohexane	**0.75J**	ug/m3	2.2	1.26		03/28/19 13:20	110-82-7	
Dibromochloromethane	**<0.91**	ug/m3	2.2	1.26		03/28/19 13:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.46**	ug/m3	0.98	1.26		03/28/19 13:20	106-93-4	
1,2-Dichlorobenzene	**<0.63**	ug/m3	1.5	1.26		03/28/19 13:20	95-50-1	
1,3-Dichlorobenzene	**<0.73**	ug/m3	1.5	1.26		03/28/19 13:20	541-73-1	
1,4-Dichlorobenzene	**<1.3**	ug/m3	3.9	1.26		03/28/19 13:20	106-46-7	
Dichlorodifluoromethane	**3.4**	ug/m3	1.3	1.26		03/28/19 13:20	75-71-8	
1,1-Dichloroethane	**79.7**	ug/m3	1.0	1.26		03/28/19 13:20	75-34-3	
1,2-Dichloroethane	**<0.19**	ug/m3	0.52	1.26		03/28/19 13:20	107-06-2	
1,1-Dichloroethene	**1.4**	ug/m3	1.0	1.26		03/28/19 13:20	75-35-4	
cis-1,2-Dichloroethene	**926**	ug/m3	20.3	25.2		03/29/19 09:14	156-59-2	
trans-1,2-Dichloroethene	**7.1**	ug/m3	1.0	1.26		03/28/19 13:20	156-60-5	
1,2-Dichloropropane	**<0.29**	ug/m3	1.2	1.26		03/28/19 13:20	78-87-5	
cis-1,3-Dichloropropene	**<0.38**	ug/m3	1.2	1.26		03/28/19 13:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.55**	ug/m3	1.2	1.26		03/28/19 13:20	10061-02-6	
Dichlorotetrafluoroethane	**<0.55**	ug/m3	1.8	1.26		03/28/19 13:20	76-14-2	
Ethanol	**2.9**	ug/m3	2.4	1.26		03/28/19 13:20	64-17-5	
Ethyl acetate	**<0.24**	ug/m3	0.92	1.26		03/28/19 13:20	141-78-6	
Ethylbenzene	**<0.38**	ug/m3	1.1	1.26		03/28/19 13:20	100-41-4	
4-Ethyltoluene	**<0.72**	ug/m3	3.2	1.26		03/28/19 13:20	622-96-8	
n-Heptane	**<0.48**	ug/m3	1.0	1.26		03/28/19 13:20	142-82-5	
Hexachloro-1,3-butadiene	**<2.5**	ug/m3	6.8	1.26		03/28/19 13:20	87-68-3	
n-Hexane	**0.45J**	ug/m3	0.90	1.26		03/28/19 13:20	110-54-3	
2-Hexanone	**1.0J**	ug/m3	5.2	1.26		03/28/19 13:20	591-78-6	
Methylene Chloride	**1.4J**	ug/m3	4.4	1.26		03/28/19 13:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.65**	ug/m3	5.2	1.26		03/28/19 13:20	108-10-1	
Methyl-tert-butyl ether	**<0.84**	ug/m3	4.6	1.26		03/28/19 13:20	1634-04-4	
Naphthalene	**<1.7**	ug/m3	3.4	1.26		03/28/19 13:20	91-20-3	
2-Propanol	**7.2**	ug/m3	3.2	1.26		03/28/19 13:20	67-63-0	
Propylene	**17.4**	ug/m3	0.44	1.26		03/28/19 13:20	115-07-1	
Styrene	**<0.43**	ug/m3	1.1	1.26		03/28/19 13:20	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.37**	ug/m3	0.88	1.26		03/28/19 13:20	79-34-5	
Tetrachloroethene	**1180**	ug/m3	17.4	25.2		03/29/19 09:14	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN MILT MIN 1001
Pace Project No.: 7082027

Sample: SVE-INF **Lab ID: 7082027001** Collected: 03/12/19 11:15 Received: 03/12/19 11:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	**<0.33**	ug/m3	0.76	1.26		03/28/19 13:20	109-99-9	
Toluene	**<0.44**	ug/m3	0.97	1.26		03/28/19 13:20	108-88-3	
1,2,4-Trichlorobenzene	**<4.7**	ug/m3	9.5	1.26		03/28/19 13:20	120-82-1	
1,1,1-Trichloroethane	**14.6**	ug/m3	1.4	1.26		03/28/19 13:20	71-55-6	
1,1,2-Trichloroethane	**<0.32**	ug/m3	0.70	1.26		03/28/19 13:20	79-00-5	
Trichloroethene	**94.9**	ug/m3	0.69	1.26		03/28/19 13:20	79-01-6	
Trichlorofluoromethane	**6.8**	ug/m3	1.4	1.26		03/28/19 13:20	75-69-4	CH,L1
1,1,2-Trichlorotrifluoroethane	**0.95J**	ug/m3	2.0	1.26		03/28/19 13:20	76-13-1	
1,2,4-Trimethylbenzene	**<0.57**	ug/m3	1.3	1.26		03/28/19 13:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/m3	1.3	1.26		03/28/19 13:20	108-67-8	
Vinyl acetate	**<0.34**	ug/m3	0.90	1.26		03/28/19 13:20	108-05-4	
Vinyl chloride	**0.27J**	ug/m3	0.33	1.26		03/28/19 13:20	75-01-4	
m&p-Xylene	**<0.88**	ug/m3	2.2	1.26		03/28/19 13:20	179601-23-1	
o-Xylene	**<0.43**	ug/m3	1.1	1.26		03/28/19 13:20	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: MIN MILT MIN 1001
Pace Project No.: 7082027

QC Batch: 596343
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 7082027001

METHOD BLANK: 3224006
Matrix: Air
Associated Lab Samples: 7082027001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	03/28/19 12:17	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	0.70	03/28/19 12:17	
1,1,2-Trichloroethane	ug/m3	<0.25	0.56	03/28/19 12:17	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	03/28/19 12:17	
1,1-Dichloroethane	ug/m3	<0.22	0.82	03/28/19 12:17	
1,1-Dichloroethene	ug/m3	<0.27	0.81	03/28/19 12:17	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	03/28/19 12:17	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	03/28/19 12:17	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	03/28/19 12:17	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	03/28/19 12:17	
1,2-Dichloroethane	ug/m3	<0.15	0.41	03/28/19 12:17	
1,2-Dichloropropane	ug/m3	<0.23	0.94	03/28/19 12:17	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	03/28/19 12:17	
1,3-Butadiene	ug/m3	<0.13	0.45	03/28/19 12:17	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	03/28/19 12:17	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	03/28/19 12:17	
2-Butanone (MEK)	ug/m3	<0.37	3.0	03/28/19 12:17	
2-Hexanone	ug/m3	<0.74	4.2	03/28/19 12:17	
2-Propanol	ug/m3	<0.70	2.5	03/28/19 12:17	
4-Ethyltoluene	ug/m3	<0.57	2.5	03/28/19 12:17	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	03/28/19 12:17	
Acetone	ug/m3	<1.2	2.4	03/28/19 12:17	
Benzene	ug/m3	<0.15	0.32	03/28/19 12:17	
Benzyl chloride	ug/m3	<1.2	2.6	03/28/19 12:17	
Bromodichloromethane	ug/m3	<0.37	1.4	03/28/19 12:17	
Bromoform	ug/m3	<1.4	5.2	03/28/19 12:17	
Bromomethane	ug/m3	<0.23	0.79	03/28/19 12:17	
Carbon disulfide	ug/m3	<0.22	0.63	03/28/19 12:17	
Carbon tetrachloride	ug/m3	<0.43	1.3	03/28/19 12:17	
Chlorobenzene	ug/m3	<0.28	0.94	03/28/19 12:17	
Chloroethane	ug/m3	<0.26	0.54	03/28/19 12:17	
Chloroform	ug/m3	<0.20	0.50	03/28/19 12:17	
Chloromethane	ug/m3	<0.16	0.42	03/28/19 12:17	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	03/28/19 12:17	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	03/28/19 12:17	
Cyclohexane	ug/m3	<0.35	1.8	03/28/19 12:17	
Dibromochloromethane	ug/m3	<0.72	1.7	03/28/19 12:17	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	03/28/19 12:17	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	03/28/19 12:17	
Ethanol	ug/m3	<0.81	1.9	03/28/19 12:17	
Ethyl acetate	ug/m3	<0.19	0.73	03/28/19 12:17	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: MIN MILT MIN 1001
Pace Project No.: 7082027

METHOD BLANK: 3224006 Matrix: Air
Associated Lab Samples: 7082027001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	03/28/19 12:17	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	03/28/19 12:17	
m&p-Xylene	ug/m3	<0.70	1.8	03/28/19 12:17	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	03/28/19 12:17	
Methylene Chloride	ug/m3	<0.94	3.5	03/28/19 12:17	
n-Heptane	ug/m3	<0.38	0.83	03/28/19 12:17	
n-Hexane	ug/m3	<0.31	0.72	03/28/19 12:17	
Naphthalene	ug/m3	<1.3	2.7	03/28/19 12:17	
o-Xylene	ug/m3	<0.34	0.88	03/28/19 12:17	
Propylene	ug/m3	<0.14	0.35	03/28/19 12:17	
Styrene	ug/m3	<0.34	0.87	03/28/19 12:17	
Tetrachloroethene	ug/m3	<0.31	0.69	03/28/19 12:17	
Tetrahydrofuran	ug/m3	<0.26	0.60	03/28/19 12:17	
Toluene	ug/m3	<0.35	0.77	03/28/19 12:17	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	03/28/19 12:17	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	03/28/19 12:17	
Trichloroethene	ug/m3	<0.26	0.55	03/28/19 12:17	
Trichlorofluoromethane	ug/m3	<0.37	1.1	03/28/19 12:17	
Vinyl acetate	ug/m3	<0.27	0.72	03/28/19 12:17	
Vinyl chloride	ug/m3	<0.13	0.26	03/28/19 12:17	

LABORATORY CONTROL SAMPLE: 3224007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.4	107	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	75.5	108	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	56.7	102	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	78.5	101	70-130	
1,1-Dichloroethane	ug/m3	41.1	43.4	106	70-130	
1,1-Dichloroethene	ug/m3	40.3	44.2	110	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	85.8	114	56-130	
1,2,4-Trimethylbenzene	ug/m3	50	51.9	104	70-134	
1,2-Dibromoethane (EDB)	ug/m3	78.1	82.5	106	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	64.0	105	70-132	
1,2-Dichloroethane	ug/m3	41.1	46.2	112	70-130	
1,2-Dichloropropane	ug/m3	47	51.3	109	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	52.1	104	70-132	
1,3-Butadiene	ug/m3	22.5	26.2	117	65-130	
1,3-Dichlorobenzene	ug/m3	61.1	63.8	104	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	64.6	106	70-134	
2-Butanone (MEK)	ug/m3	30	26.7	89	70-130	
2-Hexanone	ug/m3	41.6	50.9	122	70-135	
2-Propanol	ug/m3	125	158	126	68-130	
4-Ethyltoluene	ug/m3	50	52.4	105	70-138	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: MIN MILT MIN 1001
Pace Project No.: 7082027

LABORATORY CONTROL SAMPLE: 3224007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	49.7	119	70-131	
Acetone	ug/m3	121	166	138	67-130	CH,L1
Benzene	ug/m3	32.5	34.1	105	70-130	
Benzyl chloride	ug/m3	52.6	60.4	115	70-130	
Bromodichloromethane	ug/m3	68.1	74.7	110	70-130	
Bromoform	ug/m3	105	108	103	70-132	
Bromomethane	ug/m3	39.5	42.4	107	69-130	
Carbon disulfide	ug/m3	31.6	33.3	105	56-137	
Carbon tetrachloride	ug/m3	64	69.6	109	66-131	
Chlorobenzene	ug/m3	46.8	47.3	101	70-130	
Chloroethane	ug/m3	26.8	29.0	108	70-130	
Chloroform	ug/m3	49.6	53.5	108	70-130	
Chloromethane	ug/m3	21	24.7	118	66-130	
cis-1,2-Dichloroethene	ug/m3	40.3	38.6	96	70-130	
cis-1,3-Dichloropropene	ug/m3	46.1	47.9	104	70-133	
Cyclohexane	ug/m3	35	36.3	104	68-132	
Dibromochloromethane	ug/m3	86.6	100	116	70-130	
Dichlorodifluoromethane	ug/m3	50.3	55.9	111	70-130	
Dichlorotetrafluoroethane	ug/m3	71	84.6	119	70-130	
Ethanol	ug/m3	95.8	115	120	68-133	
Ethyl acetate	ug/m3	36.6	42.7	117	69-130	
Ethylbenzene	ug/m3	44.1	46.0	104	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	102	94	66-137	
m&p-Xylene	ug/m3	88.3	90.2	102	70-132	
Methyl-tert-butyl ether	ug/m3	36.6	39.2	107	70-130	
Methylene Chloride	ug/m3	177	175	99	65-130	
n-Heptane	ug/m3	41.7	45.6	109	65-130	
n-Hexane	ug/m3	35.8	35.4	99	66-130	
Naphthalene	ug/m3	53.3	62.1	117	56-130	
o-Xylene	ug/m3	44.1	45.0	102	70-130	
Propylene	ug/m3	17.5	20.0	115	67-130	
Styrene	ug/m3	43.3	43.3	100	69-136	
Tetrachloroethene	ug/m3	68.9	66.7	97	70-130	
Tetrahydrofuran	ug/m3	30	34.5	115	68-131	
Toluene	ug/m3	38.3	39.0	102	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	39.6	98	70-130	
trans-1,3-Dichloropropene	ug/m3	46.1	49.3	107	70-134	
Trichloroethene	ug/m3	54.6	53.5	98	70-130	
Trichlorofluoromethane	ug/m3	57.1	81.1	142	65-130	CH,L1
Vinyl acetate	ug/m3	35.8	42.2	118	61-133	
Vinyl chloride	ug/m3	26	28.3	109	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MIN MILT MIN 1001
Pace Project No.: 7082027

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN MILT MIN 1001
Pace Project No.: 7082027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7082027001	**SVE-INF**	TO-15	596343		

WO# : 7082027

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

38219

Page: 1 of 1

Section A Required Client Information:

Company: PW Grosser

Address: 630 Johnson Ave Bohemia, NY 11716

Email To: Kcrosby@pwgrosser.com

Phone: 631-589-6353 Fax:

Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kaitlyn Crosby

Copy To:

Purchase Order No.:

Project Name: MinMilt

Project Number: MIN1001

Section C Invoice Information:

Attention: Same as Client

Company Name:

Address:

Pace Quote Reference:

Pace Project Manager/Sales Rep. Betty Harrison

Pace Profile #: 38150

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: _____

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other____

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	SVE-INF	6LC	—	—	—	3-12-19	1115	—	—	3204	———					X					001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
PWGC	3-12-19	1130		3/12/19	11:30

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
6.6	(Y/N)	(Y/N)	(Y/N)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 03/12/19

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

June 29, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MIN MILT 6/11
Pace Project No.: 7093167

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Samples were subcontracted to Pace Analytical Services, Inc., 1700 Elm Street, Minneapolis, MN 55414

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MIN MILT 6/11
Pace Project No.: 7093167

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE ANALYTE COUNT

Project: MIN MILT 6/11
Pace Project No.: 7093167

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7093167001	**SVE-INF**	TO-15	MJL	61	PASI-M

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN MILT 6/11
Pace Project No.: 7093167

Sample: SVE-INF **Lab ID: 7093167001** Collected: 06/11/19 12:30 Received: 06/11/19 12:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**34.4**	ug/m3	16.1	6.7		06/24/19 01:11	67-64-1	
Benzene	**<2.2**	ug/m3	2.2	6.7		06/24/19 01:11	71-43-2	
Benzyl chloride	**<17.6**	ug/m3	17.6	6.7		06/24/19 01:11	100-44-7	
Bromodichloromethane	**<9.1**	ug/m3	9.1	6.7		06/24/19 01:11	75-27-4	
Bromoform	**<35.2**	ug/m3	35.2	6.7		06/24/19 01:11	75-25-2	
Bromomethane	**<5.3**	ug/m3	5.3	6.7		06/24/19 01:11	74-83-9	
1,3-Butadiene	**<3.0**	ug/m3	3.0	6.7		06/24/19 01:11	106-99-0	
2-Butanone (MEK)	**<20.1**	ug/m3	20.1	6.7		06/24/19 01:11	78-93-3	
Carbon disulfide	**<4.2**	ug/m3	4.2	6.7		06/24/19 01:11	75-15-0	
Carbon tetrachloride	**<8.6**	ug/m3	8.6	6.7		06/24/19 01:11	56-23-5	
Chlorobenzene	**<6.3**	ug/m3	6.3	6.7		06/24/19 01:11	108-90-7	
Chloroethane	**<3.6**	ug/m3	3.6	6.7		06/24/19 01:11	75-00-3	
Chloroform	**<3.3**	ug/m3	3.3	6.7		06/24/19 01:11	67-66-3	
Chloromethane	**<2.8**	ug/m3	2.8	6.7		06/24/19 01:11	74-87-3	
Cyclohexane	**<11.7**	ug/m3	11.7	6.7		06/24/19 01:11	110-82-7	
Dibromochloromethane	**<11.6**	ug/m3	11.6	6.7		06/24/19 01:11	124-48-1	
1,2-Dibromoethane (EDB)	**<5.2**	ug/m3	5.2	6.7		06/24/19 01:11	106-93-4	
1,2-Dichlorobenzene	**<8.2**	ug/m3	8.2	6.7		06/24/19 01:11	95-50-1	
1,3-Dichlorobenzene	**<8.2**	ug/m3	8.2	6.7		06/24/19 01:11	541-73-1	
1,4-Dichlorobenzene	**<20.5**	ug/m3	20.5	6.7		06/24/19 01:11	106-46-7	
Dichlorodifluoromethane	**2.8J**	ug/m3	6.8	6.7		06/24/19 01:11	75-71-8	
1,1-Dichloroethane	**10.4**	ug/m3	5.5	6.7		06/24/19 01:11	75-34-3	
1,2-Dichloroethane	**77.3**	ug/m3	2.8	6.7		06/24/19 01:11	107-06-2	
1,1-Dichloroethene	**<5.4**	ug/m3	5.4	6.7		06/24/19 01:11	75-35-4	
cis-1,2-Dichloroethene	**193**	ug/m3	5.4	6.7		06/24/19 01:11	156-59-2	
trans-1,2-Dichloroethene	**2.2J**	ug/m3	5.4	6.7		06/24/19 01:11	156-60-5	
1,2-Dichloropropane	**<6.3**	ug/m3	6.3	6.7		06/24/19 01:11	78-87-5	
cis-1,3-Dichloropropene	**<6.2**	ug/m3	6.2	6.7		06/24/19 01:11	10061-01-5	
trans-1,3-Dichloropropene	**<6.2**	ug/m3	6.2	6.7		06/24/19 01:11	10061-02-6	
Dichlorotetrafluoroethane	**<9.5**	ug/m3	9.5	6.7		06/24/19 01:11	76-14-2	
Ethanol	**7.1J**	ug/m3	12.9	6.7		06/24/19 01:11	64-17-5	
Ethyl acetate	**<4.9**	ug/m3	4.9	6.7		06/24/19 01:11	141-78-6	
Ethylbenzene	**<5.9**	ug/m3	5.9	6.7		06/24/19 01:11	100-41-4	
4-Ethyltoluene	**<16.8**	ug/m3	16.8	6.7		06/24/19 01:11	622-96-8	
n-Heptane	**<5.6**	ug/m3	5.6	6.7		06/24/19 01:11	142-82-5	
Hexachloro-1,3-butadiene	**<36.3**	ug/m3	36.3	6.7		06/24/19 01:11	87-68-3	
n-Hexane	**<4.8**	ug/m3	4.8	6.7		06/24/19 01:11	110-54-3	
2-Hexanone	**<27.9**	ug/m3	27.9	6.7		06/24/19 01:11	591-78-6	
Methylene Chloride	**<59.1**	ug/m3	59.1	6.7		06/24/19 01:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<27.9**	ug/m3	27.9	6.7		06/24/19 01:11	108-10-1	
Methyl-tert-butyl ether	**<24.5**	ug/m3	24.5	6.7		06/24/19 01:11	1634-04-4	
Naphthalene	**<17.8**	ug/m3	17.8	6.7		06/24/19 01:11	91-20-3	
2-Propanol	**5.6J**	ug/m3	16.8	6.7		06/24/19 01:11	67-63-0	
Propylene	**13.9**	ug/m3	2.3	6.7		06/24/19 01:11	115-07-1	
Styrene	**<5.8**	ug/m3	5.8	6.7		06/24/19 01:11	100-42-5	
1,1,2,2-Tetrachloroethane	**<4.7**	ug/m3	4.7	6.7		06/24/19 01:11	79-34-5	
Tetrachloroethene	**567**	ug/m3	27.7	40.2		06/24/19 14:05	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN MILT 6/11
Pace Project No.: 7093167

Sample: SVE-INF **Lab ID: 7093167001** Collected: 06/11/19 12:30 Received: 06/11/19 12:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	**<4.0**	ug/m3	4.0	6.7		06/24/19 01:11	109-99-9	
Toluene	**<5.1**	ug/m3	5.1	6.7		06/24/19 01:11	108-88-3	
1,2,4-Trichlorobenzene	**<50.5**	ug/m3	50.5	6.7		06/24/19 01:11	120-82-1	
1,1,1-Trichloroethane	**5.2J**	ug/m3	7.4	6.7		06/24/19 01:11	71-55-6	
1,1,2-Trichloroethane	**<3.7**	ug/m3	3.7	6.7		06/24/19 01:11	79-00-5	
Trichloroethene	**91.6**	ug/m3	3.7	6.7		06/24/19 01:11	79-01-6	
Trichlorofluoromethane	**4.3J**	ug/m3	7.6	6.7		06/24/19 01:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<10.5**	ug/m3	10.5	6.7		06/24/19 01:11	76-13-1	
1,2,4-Trimethylbenzene	**<6.7**	ug/m3	6.7	6.7		06/24/19 01:11	95-63-6	
1,3,5-Trimethylbenzene	**<6.7**	ug/m3	6.7	6.7		06/24/19 01:11	108-67-8	
Vinyl acetate	**<4.8**	ug/m3	4.8	6.7		06/24/19 01:11	108-05-4	
Vinyl chloride	**<1.7**	ug/m3	1.7	6.7		06/24/19 01:11	75-01-4	
m&p-Xylene	**<11.9**	ug/m3	11.9	6.7		06/24/19 01:11	179601-23-1	
o-Xylene	**<5.9**	ug/m3	5.9	6.7		06/24/19 01:11	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MIN MILT 6/11
Pace Project No.: 7093167

QC Batch: 614947
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 7093167001

METHOD BLANK: 3322709
Matrix: Air
Associated Lab Samples: 7093167001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<1.1	1.1	06/23/19 09:21	
1,1,2,2-Tetrachloroethane	ug/m3	<0.70	0.70	06/23/19 09:21	
1,1,2-Trichloroethane	ug/m3	<0.56	0.56	06/23/19 09:21	
1,1,2-Trichlorotrifluoroethane	ug/m3	<1.6	1.6	06/23/19 09:21	
1,1-Dichloroethane	ug/m3	<0.82	0.82	06/23/19 09:21	
1,1-Dichloroethene	ug/m3	<0.81	0.81	06/23/19 09:21	
1,2,4-Trichlorobenzene	ug/m3	<7.5	7.5	06/23/19 09:21	
1,2,4-Trimethylbenzene	ug/m3	<1.0	1.0	06/23/19 09:21	
1,2-Dibromoethane (EDB)	ug/m3	<0.78	0.78	06/23/19 09:21	
1,2-Dichlorobenzene	ug/m3	<1.2	1.2	06/23/19 09:21	
1,2-Dichloroethane	ug/m3	<0.41	0.41	06/23/19 09:21	
1,2-Dichloropropane	ug/m3	<0.94	0.94	06/23/19 09:21	
1,3,5-Trimethylbenzene	ug/m3	<1.0	1.0	06/23/19 09:21	
1,3-Butadiene	ug/m3	<0.45	0.45	06/23/19 09:21	
1,3-Dichlorobenzene	ug/m3	<1.2	1.2	06/23/19 09:21	
1,4-Dichlorobenzene	ug/m3	<3.1	3.1	06/23/19 09:21	
2-Butanone (MEK)	ug/m3	<3.0	3.0	06/23/19 09:21	
2-Hexanone	ug/m3	<4.2	4.2	06/23/19 09:21	
2-Propanol	ug/m3	<2.5	2.5	06/23/19 09:21	
4-Ethyltoluene	ug/m3	<2.5	2.5	06/23/19 09:21	
4-Methyl-2-pentanone (MIBK)	ug/m3	<4.2	4.2	06/23/19 09:21	
Acetone	ug/m3	<2.4	2.4	06/23/19 09:21	
Benzene	ug/m3	<0.32	0.32	06/23/19 09:21	
Benzyl chloride	ug/m3	<2.6	2.6	06/23/19 09:21	
Bromodichloromethane	ug/m3	<1.4	1.4	06/23/19 09:21	
Bromoform	ug/m3	<5.2	5.2	06/23/19 09:21	
Bromomethane	ug/m3	<0.79	0.79	06/23/19 09:21	
Carbon disulfide	ug/m3	<0.63	0.63	06/23/19 09:21	
Carbon tetrachloride	ug/m3	<1.3	1.3	06/23/19 09:21	
Chlorobenzene	ug/m3	<0.94	0.94	06/23/19 09:21	
Chloroethane	ug/m3	<0.54	0.54	06/23/19 09:21	
Chloroform	ug/m3	<0.50	0.50	06/23/19 09:21	
Chloromethane	ug/m3	<0.42	0.42	06/23/19 09:21	
cis-1,2-Dichloroethene	ug/m3	<0.81	0.81	06/23/19 09:21	
cis-1,3-Dichloropropene	ug/m3	<0.92	0.92	06/23/19 09:21	
Cyclohexane	ug/m3	<1.8	1.8	06/23/19 09:21	
Dibromochloromethane	ug/m3	<1.7	1.7	06/23/19 09:21	
Dichlorodifluoromethane	ug/m3	<1.0	1.0	06/23/19 09:21	
Dichlorotetrafluoroethane	ug/m3	<1.4	1.4	06/23/19 09:21	
Ethanol	ug/m3	<1.9	1.9	06/23/19 09:21	
Ethyl acetate	ug/m3	<0.73	0.73	06/23/19 09:21	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MIN MILT 6/11
Pace Project No.: 7093167

METHOD BLANK: 3322709 Matrix: Air
Associated Lab Samples: 7093167001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.88	0.88	06/23/19 09:21	
Hexachloro-1,3-butadiene	ug/m3	<5.4	5.4	06/23/19 09:21	
m&p-Xylene	ug/m3	<1.8	1.8	06/23/19 09:21	
Methyl-tert-butyl ether	ug/m3	<3.7	3.7	06/23/19 09:21	
Methylene Chloride	ug/m3	<8.8	8.8	06/23/19 09:21	MN
n-Heptane	ug/m3	<0.83	0.83	06/23/19 09:21	
n-Hexane	ug/m3	<0.72	0.72	06/23/19 09:21	
Naphthalene	ug/m3	<2.7	2.7	06/23/19 09:21	
o-Xylene	ug/m3	<0.88	0.88	06/23/19 09:21	
Propylene	ug/m3	<0.35	0.35	06/23/19 09:21	
Styrene	ug/m3	<0.87	0.87	06/23/19 09:21	
Tetrachloroethene	ug/m3	<0.69	0.69	06/23/19 09:21	
Tetrahydrofuran	ug/m3	<0.60	0.60	06/23/19 09:21	
Toluene	ug/m3	<0.77	0.77	06/23/19 09:21	
trans-1,2-Dichloroethene	ug/m3	<0.81	0.81	06/23/19 09:21	
trans-1,3-Dichloropropene	ug/m3	<0.92	0.92	06/23/19 09:21	
Trichloroethene	ug/m3	<0.55	0.55	06/23/19 09:21	
Trichlorofluoromethane	ug/m3	<1.1	1.1	06/23/19 09:21	
Vinyl acetate	ug/m3	<0.72	0.72	06/23/19 09:21	
Vinyl chloride	ug/m3	<0.26	0.26	06/23/19 09:21	

LABORATORY CONTROL SAMPLE: 3322710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	62.8	113	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	80.6	115	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	63.6	115	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	84.5	108	70-130	
1,1-Dichloroethane	ug/m3	41.1	45.0	109	70-130	
1,1-Dichloroethene	ug/m3	40.3	41.2	102	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	72.8	97	56-130	
1,2,4-Trimethylbenzene	ug/m3	50	58.3	117	70-134	
1,2-Dibromoethane (EDB)	ug/m3	78.1	89.8	115	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	76.2	125	70-132	
1,2-Dichloroethane	ug/m3	41.1	45.8	111	70-130	
1,2-Dichloropropane	ug/m3	47	51.3	109	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	57.5	115	70-132	
1,3-Butadiene	ug/m3	22.5	21.8	97	65-130	
1,3-Dichlorobenzene	ug/m3	61.1	77.8	127	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	80.6	132	70-134	CH
2-Butanone (MEK)	ug/m3	30	28.6	95	70-130	
2-Hexanone	ug/m3	41.6	47.2	113	70-135	
2-Propanol	ug/m3	125	117	93	68-130	
4-Ethyltoluene	ug/m3	50	60.3	121	70-138	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MIN MILT 6/11
Pace Project No.: 7093167

LABORATORY CONTROL SAMPLE: 3322710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	45.7	110	70-131	
Acetone	ug/m3	121	105	87	67-130	
Benzene	ug/m3	32.5	35.3	109	70-130	
Benzyl chloride	ug/m3	52.6	60.6	115	70-130	
Bromodichloromethane	ug/m3	68.1	77.0	113	70-130	
Bromoform	ug/m3	105	119	114	70-132	
Bromomethane	ug/m3	39.5	41.1	104	69-130	
Carbon disulfide	ug/m3	31.6	34.1	108	56-137	
Carbon tetrachloride	ug/m3	64	76.9	120	66-131	
Chlorobenzene	ug/m3	46.8	53.0	113	70-130	
Chloroethane	ug/m3	26.8	27.5	102	70-130	
Chloroform	ug/m3	49.6	54.6	110	70-130	
Chloromethane	ug/m3	21	19.9	95	66-130	
cis-1,2-Dichloroethene	ug/m3	40.3	45.0	112	70-130	
cis-1,3-Dichloropropene	ug/m3	46.1	52.8	115	70-133	
Cyclohexane	ug/m3	35	37.5	107	68-132	
Dibromochloromethane	ug/m3	86.6	102	118	70-130	
Dichlorodifluoromethane	ug/m3	50.3	59.2	118	70-130	
Dichlorotetrafluoroethane	ug/m3	71	70.8	100	70-130	
Ethanol	ug/m3	95.8	87.1	91	68-133	
Ethyl acetate	ug/m3	36.6	40.1	109	69-130	
Ethylbenzene	ug/m3	44.1	50.3	114	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	121	112	66-137	
m&p-Xylene	ug/m3	88.3	100	113	70-132	
Methyl-tert-butyl ether	ug/m3	36.6	40.7	111	70-130	
Methylene Chloride	ug/m3	177	187	106	65-130	
n-Heptane	ug/m3	41.7	42.4	102	65-130	
n-Hexane	ug/m3	35.8	36.9	103	66-130	
Naphthalene	ug/m3	53.3	53.8	101	56-130	
o-Xylene	ug/m3	44.1	49.1	111	70-130	
Propylene	ug/m3	17.5	19.8	113	67-130	
Styrene	ug/m3	43.3	53.5	124	69-136	
Tetrachloroethene	ug/m3	68.9	77.3	112	70-130	
Tetrahydrofuran	ug/m3	30	32.4	108	68-131	
Toluene	ug/m3	38.3	42.5	111	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	44.4	110	70-130	
trans-1,3-Dichloropropene	ug/m3	46.1	54.6	118	70-134	
Trichloroethene	ug/m3	54.6	61.1	112	70-130	
Trichlorofluoromethane	ug/m3	57.1	60.7	106	65-130	
Vinyl acetate	ug/m3	35.8	39.7	111	61-133	
Vinyl chloride	ug/m3	26	25.9	100	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MIN MILT 6/11
Pace Project No.: 7093167

SAMPLE DUPLICATE: 3323195

Parameter	Units	10478786001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.54	<1.9		
1,1,2,2-Tetrachloroethane	ug/m3	<0.51	<1.2		
1,1,2-Trichloroethane	ug/m3	<0.44	<0.97		
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.99	<2.7		
1,1-Dichloroethane	ug/m3	<0.39	<1.4		
1,1-Dichloroethene	ug/m3	<0.48	<1.4		
1,2,4-Trichlorobenzene	ug/m3	<6.5	<13.2		
1,2,4-Trimethylbenzene	ug/m3	<0.79	<1.7		
1,2-Dibromoethane (EDB)	ug/m3	<0.64	<1.4		
1,2-Dichlorobenzene	ug/m3	<0.87	<2.1		
1,2-Dichloroethane	ug/m3	<0.26	<0.72		
1,2-Dichloropropane	ug/m3	<0.40	<1.6		
1,3,5-Trimethylbenzene	ug/m3	<0.70	<1.7		
1,3-Butadiene	ug/m3	<0.22	<0.79		
1,3-Dichlorobenzene	ug/m3	<1.0	<2.1		
1,4-Dichlorobenzene	ug/m3	<1.8	<5.4		
2-Butanone (MEK)	ug/m3	5.7	5.8	3	
2-Hexanone	ug/m3	<1.3	<7.3		
2-Propanol	ug/m3	377	392	4	
4-Ethyltoluene	ug/m3	<1.0	<4.4		
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.91	<7.3		
Acetone	ug/m3	19.3	20.7	7	
Benzene	ug/m3	<0.27	<0.57		
Benzyl chloride	ug/m3	<2.1	<4.6		
Bromodichloromethane	ug/m3	<0.64	<2.4		
Bromoform	ug/m3	<2.5	<9.2		
Bromomethane	ug/m3	<0.40	<1.4		
Carbon disulfide	ug/m3	<0.38	<1.1		
Carbon tetrachloride	ug/m3	<0.75	<2.2		
Chlorobenzene	ug/m3	<0.48	<1.6		
Chloroethane	ug/m3	<0.46	<0.94		
Chloroform	ug/m3	<0.34	<0.87		
Chloromethane	ug/m3	0.98	1.1	8	
cis-1,2-Dichloroethene	ug/m3	<0.38	<1.4		
cis-1,3-Dichloropropene	ug/m3	<0.53	<1.6		
Cyclohexane	ug/m3	<0.62	<3.1		
Dibromochloromethane	ug/m3	<1.3	<3.0		
Dichlorodifluoromethane	ug/m3	2.1	2.0	3	
Dichlorotetrafluoroethane	ug/m3	<0.76	<2.5		
Ethanol	ug/m3	591	621	5	E
Ethyl acetate	ug/m3	<0.33	<1.3		
Ethylbenzene	ug/m3	<0.53	<1.5		
Hexachloro-1,3-butadiene	ug/m3	<3.4	<9.5		
m&p-Xylene	ug/m3	<1.2	<3.1		
Methyl-tert-butyl ether	ug/m3	<1.2	<6.4		
Methylene Chloride	ug/m3	3.4J	<15.4		
n-Heptane	ug/m3	<0.66	<1.5		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MIN MILT 6/11
Pace Project No.: 7093167

SAMPLE DUPLICATE: 3323195

Parameter	Units	10478786001 Result	Dup Result	RPD	Qualifiers
n-Hexane	ug/m3	0.65J	<1.3		
Naphthalene	ug/m3	<2.3	<4.7		
o-Xylene	ug/m3	<0.60	<1.5		
Propylene	ug/m3	<0.25	0.64		
Styrene	ug/m3	<0.60	<1.5		
Tetrachloroethene	ug/m3	<0.55	<1.2		
Tetrahydrofuran	ug/m3	<0.46	<1.0		
Toluene	ug/m3	0.74J	<1.3		
trans-1,2-Dichloroethene	ug/m3	<0.50	<1.4		
trans-1,3-Dichloropropene	ug/m3	<0.77	<1.6		
Trichloroethene	ug/m3	<0.45	<0.96		
Trichlorofluoromethane	ug/m3	1.1J	<2.0		
Vinyl acetate	ug/m3	<0.47	<1.3		
Vinyl chloride	ug/m3	<0.22	<0.46		

SAMPLE DUPLICATE: 3323196

Parameter	Units	10478786002 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.54	<1.9		
1,1,2,2-Tetrachloroethane	ug/m3	<0.51	<1.2		
1,1,2-Trichloroethane	ug/m3	<0.44	<0.97		
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.99	<2.7		
1,1-Dichloroethane	ug/m3	<0.39	<1.4		
1,1-Dichloroethene	ug/m3	<0.48	<1.4		
1,2,4-Trichlorobenzene	ug/m3	<6.5	<13.2		
1,2,4-Trimethylbenzene	ug/m3	<0.79	<1.7		
1,2-Dibromoethane (EDB)	ug/m3	<0.64	<1.4		
1,2-Dichlorobenzene	ug/m3	<0.87	<2.1		
1,2-Dichloroethane	ug/m3	<0.26	<0.72		
1,2-Dichloropropane	ug/m3	<0.40	<1.6		
1,3,5-Trimethylbenzene	ug/m3	<0.70	<1.7		
1,3-Butadiene	ug/m3	<0.22	<0.79		
1,3-Dichlorobenzene	ug/m3	<1.0	<2.1		
1,4-Dichlorobenzene	ug/m3	<1.8	<5.4		
2-Butanone (MEK)	ug/m3	5.6	5.5	1	
2-Hexanone	ug/m3	<1.3	<7.3		
2-Propanol	ug/m3	245	263	7	
4-Ethyltoluene	ug/m3	<1.0	<4.4		
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.91	<7.3		
Acetone	ug/m3	14.0	17.4	22	
Benzene	ug/m3	0.29J	<0.57		
Benzyl chloride	ug/m3	<2.1	<4.6		
Bromodichloromethane	ug/m3	<0.64	<2.4		
Bromoform	ug/m3	<2.5	<9.2		
Bromomethane	ug/m3	<0.40	<1.4		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MIN MILT 6/11
Pace Project No.: 7093167

SAMPLE DUPLICATE: 3323196

Parameter	Units	10478786002 Result	Dup Result	RPD	Qualifiers
Carbon disulfide	ug/m3	<0.38	<1.1		
Carbon tetrachloride	ug/m3	<0.75	<2.2		
Chlorobenzene	ug/m3	<0.48	<1.6		
Chloroethane	ug/m3	<0.46	<0.94		
Chloroform	ug/m3	<0.34	<0.87		
Chloromethane	ug/m3	1.2	1.3	11	
cis-1,2-Dichloroethene	ug/m3	<0.38	<1.4		
cis-1,3-Dichloropropene	ug/m3	<0.53	<1.6		
Cyclohexane	ug/m3	<0.62	<3.1		
Dibromochloromethane	ug/m3	<1.3	<3.0		
Dichlorodifluoromethane	ug/m3	2.2	2.1	4	
Dichlorotetrafluoroethane	ug/m3	<0.76	<2.5		
Ethanol	ug/m3	142	153	8	
Ethyl acetate	ug/m3	<0.33	<1.3		
Ethylbenzene	ug/m3	<0.53	<1.5		
Hexachloro-1,3-butadiene	ug/m3	<3.4	<9.5		
m&p-Xylene	ug/m3	<1.2	<3.1		
Methyl-tert-butyl ether	ug/m3	<1.2	<6.4		
Methylene Chloride	ug/m3	2.4J	<15.4		
n-Heptane	ug/m3	<0.66	<1.5		
n-Hexane	ug/m3	<0.54	<1.3		
Naphthalene	ug/m3	<2.3	<4.7		
o-Xylene	ug/m3	<0.60	<1.5		
Propylene	ug/m3	<0.25	<0.61		
Styrene	ug/m3	0.71J	<1.5		
Tetrachloroethene	ug/m3	<0.55	<1.2		
Tetrahydrofuran	ug/m3	<0.46	<1.0		
Toluene	ug/m3	0.89J	<1.3		
trans-1,2-Dichloroethene	ug/m3	<0.50	<1.4		
trans-1,3-Dichloropropene	ug/m3	<0.77	<1.6		
Trichloroethene	ug/m3	<0.45	<0.96		
Trichlorofluoromethane	ug/m3	3.8	4.0	5	
Vinyl acetate	ug/m3	<0.47	<1.3		
Vinyl chloride	ug/m3	<0.22	<0.46		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MIN MILT 6/11
Pace Project No.: 7093167

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN MILT 6/11
Pace Project No.: 7093167

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7093167001	**SVE-INF**	TO-15	614947		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO#: 7093167

39544

Page: 1 of 1

Section A Required Client Information:

Company: PW Grosser
Address: 630 Johnson Ave Bohemia, NY 11716
Email To: kcrosby@pwgrosser.com
Phone: 631-589-6353 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Kaitlyn Crosby
Copy To:
Purchase Order No.:
Project Name: MinMilt
Project Number: MIN1001

Section C Invoice Information:

Attention: Same as Client
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.: Betty Herison
Pace Profile #: 38150

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: _____

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level: II.___ III.___ IV.___ Other_____

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	SVE-INF	6LC		—	—	6-11-19	1230	—	—	3622	—					X					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	6-11-19	1245	[signature] PACE	6/11/19	1245

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
16.3	(Y)/N	(Y)/N	(Y)/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 06/11/19

ORIGINAL

Pace Analytical

Sample Condition Upon Receipt

WO#: 7093167
PM: EMH Due Date: 06/25/19
CLIENT: PWG

Client Name: PW Grosser Proje

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other Type of Ice: Wet Blue (None)

Thermometer Used: TH091 Correction Factor: +0.2 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 16.3 Cooler Temperature Corrected (°C): 16.3 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample) Date and Initials of person examining contents: 6/11/19 JP

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL (Air)				
All containers needing preservation have been checked	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☑N/A	Sample #
				Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

October 01, 2019

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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SAMPLE ANALYTE COUNT

Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70105038001	**SVE-INF**	TO-15	NCK	61	PASI-M

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

Sample: SVE-INF **Lab ID: 70105038001** Collected: 09/16/19 10:25 Received: 09/16/19 10:58 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM SCAN	Analytical Method: TO-15							
Acetone	**7.6**	ug/m3	3.2	1.34		09/24/19 22:23	67-64-1	
Benzene	**0.26**	ug/m3	0.044	1.34		09/24/19 22:23	71-43-2	
Benzyl chloride	**<3.5**	ug/m3	3.5	1.34		09/24/19 22:23	100-44-7	
Bromodichloromethane	**0.10**	ug/m3	0.091	1.34		09/24/19 22:23	75-27-4	
Bromoform	**<7.0**	ug/m3	7.0	1.34		09/24/19 22:23	75-25-2	
Bromomethane	**<1.1**	ug/m3	1.1	1.34		09/24/19 22:23	74-83-9	
1,3-Butadiene	**<0.030**	ug/m3	0.030	1.34		09/24/19 22:23	106-99-0	
2-Butanone (MEK)	**<4.0**	ug/m3	4.0	1.34		09/24/19 22:23	78-93-3	
Carbon disulfide	**<0.85**	ug/m3	0.85	1.34		09/24/19 22:23	75-15-0	
Carbon tetrachloride	**0.51**	ug/m3	0.086	1.34		09/24/19 22:23	56-23-5	
Chlorobenzene	**<1.3**	ug/m3	1.3	1.34		09/24/19 22:23	108-90-7	
Chloroethane	**<0.72**	ug/m3	0.72	1.34		09/24/19 22:23	75-00-3	
Chloroform	**<0.066**	ug/m3	0.066	1.34		09/24/19 22:23	67-66-3	
Chloromethane	**<0.56**	ug/m3	0.56	1.34		09/24/19 22:23	74-87-3	
Cyclohexane	**<2.3**	ug/m3	2.3	1.34		09/24/19 22:23	110-82-7	
Dibromochloromethane	**<5.8**	ug/m3	5.8	1.34		09/24/19 22:23	124-48-1	
1,2-Dibromoethane (EDB)	**<0.10**	ug/m3	0.10	1.34		09/24/19 22:23	106-93-4	
1,2-Dichlorobenzene	**<1.6**	ug/m3	1.6	1.34		09/24/19 22:23	95-50-1	
1,3-Dichlorobenzene	**<1.6**	ug/m3	1.6	1.34		09/24/19 22:23	541-73-1	
1,4-Dichlorobenzene	**<4.1**	ug/m3	4.1	1.34		09/24/19 22:23	106-46-7	
Dichlorodifluoromethane	**3.3**	ug/m3	1.4	1.34		09/24/19 22:23	75-71-8	
1,1-Dichloroethane	**20.5**	ug/m3	0.055	1.34		09/24/19 22:23	75-34-3	
1,2-Dichloroethane	**61.3**	ug/m3	0.055	1.34		09/24/19 22:23	107-06-2	
1,1-Dichloroethene	**0.79**	ug/m3	0.054	1.34		09/24/19 22:23	75-35-4	
cis-1,2-Dichloroethene	**270**	ug/m3	32.4	40.2		09/26/19 17:59	156-59-2	
trans-1,2-Dichloroethene	**3.8**	ug/m3	0.054	1.34		09/24/19 22:23	156-60-5	
1,2-Dichloropropane	**<0.063**	ug/m3	0.063	1.34		09/24/19 22:23	78-87-5	
cis-1,3-Dichloropropene	**<0.062**	ug/m3	0.062	1.34		09/24/19 22:23	10061-01-5	
trans-1,3-Dichloropropene	**<0.062**	ug/m3	0.062	1.34		09/24/19 22:23	10061-02-6	
Dichlorotetrafluoroethane	**<1.9**	ug/m3	1.9	1.34		09/24/19 22:23	76-14-2	
Ethanol	**<2.6**	ug/m3	2.6	1.34		09/24/19 22:23	64-17-5	
Ethyl acetate	**<0.98**	ug/m3	0.98	1.34		09/24/19 22:23	141-78-6	
Ethylbenzene	**<1.2**	ug/m3	1.2	1.34		09/24/19 22:23	100-41-4	
4-Ethyltoluene	**<3.4**	ug/m3	3.4	1.34		09/24/19 22:23	622-96-8	
n-Heptane	**<1.1**	ug/m3	1.1	1.34		09/24/19 22:23	142-82-5	
Hexachloro-1,3-butadiene	**<7.3**	ug/m3	7.3	1.34		09/24/19 22:23	87-68-3	
n-Hexane	**<0.96**	ug/m3	0.96	1.34		09/24/19 22:23	110-54-3	
2-Hexanone	**<5.6**	ug/m3	5.6	1.34		09/24/19 22:23	591-78-6	
Methylene Chloride	**<4.7**	ug/m3	4.7	1.34		09/24/19 22:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.6**	ug/m3	5.6	1.34		09/24/19 22:23	108-10-1	
Methyl-tert-butyl ether	**<4.9**	ug/m3	4.9	1.34		09/24/19 22:23	1634-04-4	
Naphthalene	**<3.6**	ug/m3	3.6	1.34		09/24/19 22:23	91-20-3	
2-Propanol	**<3.4**	ug/m3	3.4	1.34		09/24/19 22:23	67-63-0	
Propylene	**3.3**	ug/m3	0.47	1.34		09/24/19 22:23	115-07-1	
Styrene	**<1.2**	ug/m3	1.2	1.34		09/24/19 22:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.094**	ug/m3	0.094	1.34		09/24/19 22:23	79-34-5	
Tetrachloroethene	**1130**	ug/m3	27.7	40.2		09/26/19 17:59	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

Sample: SVE-INF **Lab ID: 70105038001** Collected: 09/16/19 10:25 Received: 09/16/19 10:58 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR SIM SCAN	Analytical Method: TO-15							
Tetrahydrofuran	**<0.80**	ug/m3	0.80	1.34		09/24/19 22:23	109-99-9	
Toluene	**<1.0**	ug/m3	1.0	1.34		09/24/19 22:23	108-88-3	
1,2,4-Trichlorobenzene	**<10.1**	ug/m3	10.1	1.34		09/24/19 22:23	120-82-1	
1,1,1-Trichloroethane	**<0.074**	ug/m3	0.074	1.34		09/24/19 22:23	71-55-6	
1,1,2-Trichloroethane	**<0.074**	ug/m3	0.074	1.34		09/24/19 22:23	79-00-5	
Trichloroethene	**140**	ug/m3	0.073	1.34		09/24/19 22:23	79-01-6	
Trichlorofluoromethane	**8.1**	ug/m3	1.5	1.34		09/24/19 22:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<2.1**	ug/m3	2.1	1.34		09/24/19 22:23	76-13-1	
1,2,4-Trimethylbenzene	**<1.3**	ug/m3	1.3	1.34		09/24/19 22:23	95-63-6	
1,3,5-Trimethylbenzene	**<1.3**	ug/m3	1.3	1.34		09/24/19 22:23	108-67-8	
Vinyl acetate	**<2.4**	ug/m3	2.4	1.34		09/24/19 22:23	108-05-4	
Vinyl chloride	**0.073**	ug/m3	0.035	1.34		09/24/19 22:23	75-01-4	
m&p-Xylene	**<2.4**	ug/m3	2.4	1.34		09/24/19 22:23	179601-23-1	
o-Xylene	**<1.2**	ug/m3	1.2	1.34		09/24/19 22:23	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

QC Batch: 634322
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR SIM SCAN
Associated Lab Samples: 70105038001

METHOD BLANK: 3419122
Matrix: Air
Associated Lab Samples: 70105038001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.056	0.056	09/24/19 18:30	
1,1,2,2-Tetrachloroethane	ug/m3	<0.070	0.070	09/24/19 18:30	
1,1,2-Trichloroethane	ug/m3	<0.056	0.056	09/24/19 18:30	
1,1,2-Trichlorotrifluoroethane	ug/m3	<1.6	1.6	09/24/19 18:30	
1,1-Dichloroethane	ug/m3	<0.041	0.041	09/24/19 18:30	
1,1-Dichloroethene	ug/m3	<0.040	0.040	09/24/19 18:30	
1,2,4-Trichlorobenzene	ug/m3	<7.5	7.5	09/24/19 18:30	
1,2,4-Trimethylbenzene	ug/m3	<1.0	1.0	09/24/19 18:30	
1,2-Dibromoethane (EDB)	ug/m3	<0.078	0.078	09/24/19 18:30	
1,2-Dichlorobenzene	ug/m3	<1.2	1.2	09/24/19 18:30	
1,2-Dichloroethane	ug/m3	<0.041	0.041	09/24/19 18:30	
1,2-Dichloropropane	ug/m3	<0.047	0.047	09/24/19 18:30	
1,3,5-Trimethylbenzene	ug/m3	<1.0	1.0	09/24/19 18:30	
1,3-Butadiene	ug/m3	<0.022	0.022	09/24/19 18:30	
1,3-Dichlorobenzene	ug/m3	<1.2	1.2	09/24/19 18:30	
1,4-Dichlorobenzene	ug/m3	<3.1	3.1	09/24/19 18:30	
2-Butanone (MEK)	ug/m3	<3.0	3.0	09/24/19 18:30	
2-Hexanone	ug/m3	<4.2	4.2	09/24/19 18:30	
2-Propanol	ug/m3	<2.5	2.5	09/24/19 18:30	
4-Ethyltoluene	ug/m3	<2.5	2.5	09/24/19 18:30	
4-Methyl-2-pentanone (MIBK)	ug/m3	<4.2	4.2	09/24/19 18:30	
Acetone	ug/m3	<2.4	2.4	09/24/19 18:30	
Benzene	ug/m3	<0.032	0.032	09/24/19 18:30	
Benzyl chloride	ug/m3	<2.6	2.6	09/24/19 18:30	
Bromodichloromethane	ug/m3	<0.068	0.068	09/24/19 18:30	
Bromoform	ug/m3	<5.2	5.2	09/24/19 18:30	
Bromomethane	ug/m3	<0.79	0.79	09/24/19 18:30	
Carbon disulfide	ug/m3	<0.63	0.63	09/24/19 18:30	
Carbon tetrachloride	ug/m3	<0.064	0.064	09/24/19 18:30	
Chlorobenzene	ug/m3	<0.94	0.94	09/24/19 18:30	
Chloroethane	ug/m3	<0.54	0.54	09/24/19 18:30	
Chloroform	ug/m3	<0.050	0.050	09/24/19 18:30	
Chloromethane	ug/m3	<0.42	0.42	09/24/19 18:30	
cis-1,2-Dichloroethene	ug/m3	<0.81	0.81	09/24/19 18:30	
cis-1,3-Dichloropropene	ug/m3	<0.046	0.046	09/24/19 18:30	
Cyclohexane	ug/m3	<1.8	1.8	09/24/19 18:30	
Dibromochloromethane	ug/m3	<4.3	4.3	09/24/19 18:30	
Dichlorodifluoromethane	ug/m3	<1.0	1.0	09/24/19 18:30	
Dichlorotetrafluoroethane	ug/m3	<1.4	1.4	09/24/19 18:30	
Ethanol	ug/m3	<1.9	1.9	09/24/19 18:30	
Ethyl acetate	ug/m3	<0.73	0.73	09/24/19 18:30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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QUALITY CONTROL DATA

Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

METHOD BLANK: 3419122 Matrix: Air
Associated Lab Samples: 70105038001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.88	0.88	09/24/19 18:30	
Hexachloro-1,3-butadiene	ug/m3	<5.4	5.4	09/24/19 18:30	
m&p-Xylene	ug/m3	<1.8	1.8	09/24/19 18:30	
Methyl-tert-butyl ether	ug/m3	<3.7	3.7	09/24/19 18:30	
Methylene Chloride	ug/m3	<3.5	3.5	09/24/19 18:30	
n-Heptane	ug/m3	<0.83	0.83	09/24/19 18:30	
n-Hexane	ug/m3	<0.72	0.72	09/24/19 18:30	
Naphthalene	ug/m3	<2.7	2.7	09/24/19 18:30	
o-Xylene	ug/m3	<0.88	0.88	09/24/19 18:30	
Propylene	ug/m3	<0.35	0.35	09/24/19 18:30	
Styrene	ug/m3	<0.87	0.87	09/24/19 18:30	
Tetrachloroethene	ug/m3	<0.69	0.69	09/24/19 18:30	
Tetrahydrofuran	ug/m3	<0.60	0.60	09/24/19 18:30	
Toluene	ug/m3	<0.77	0.77	09/24/19 18:30	
trans-1,2-Dichloroethene	ug/m3	<0.040	0.040	09/24/19 18:30	
trans-1,3-Dichloropropene	ug/m3	<0.046	0.046	09/24/19 18:30	
Trichloroethene	ug/m3	<0.055	0.055	09/24/19 18:30	
Trichlorofluoromethane	ug/m3	<1.1	1.1	09/24/19 18:30	
Vinyl acetate	ug/m3	<1.8	1.8	09/24/19 18:30	
Vinyl chloride	ug/m3	<0.026	0.026	09/24/19 18:30	

LABORATORY CONTROL SAMPLE: 3419123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.55	0.62	112	66-131	
1,1,2,2-Tetrachloroethane	ug/m3	0.7	0.77	110	54-141	
1,1,2-Trichloroethane	ug/m3	0.55	0.63	113	67-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	73.9	95	70-130	
1,1-Dichloroethane	ug/m3	0.41	0.45	110	70-130	
1,1-Dichloroethene	ug/m3	0.4	0.42	104	63-139	
1,2,4-Trichlorobenzene	ug/m3	75.4	72.0	95	56-130	
1,2,4-Trimethylbenzene	ug/m3	50	51.3	103	70-134	
1,2-Dibromoethane (EDB)	ug/m3	0.78	0.89	114	65-137	
1,2-Dichlorobenzene	ug/m3	61.1	65.9	108	70-132	
1,2-Dichloroethane	ug/m3	0.41	0.44	107	69-130	
1,2-Dichloropropane	ug/m3	0.47	0.48	102	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	50.6	101	70-132	
1,3-Butadiene	ug/m3	0.22	0.27	120	67-133	
1,3-Dichlorobenzene	ug/m3	61.1	66.0	108	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	66.6	109	70-134	
2-Butanone (MEK)	ug/m3	30	28.9	97	70-130	
2-Hexanone	ug/m3	41.6	44.7	107	70-135	
2-Propanol	ug/m3	125	120	96	68-130	
4-Ethyltoluene	ug/m3	50	52.3	105	70-138	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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QUALITY CONTROL DATA

Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

LABORATORY CONTROL SAMPLE: 3419123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	43.7	105	70-131	
Acetone	ug/m3	121	125	103	67-130	
Benzene	ug/m3	0.32	0.40	124	70-130	
Benzyl chloride	ug/m3	52.6	46.6	89	70-130	
Bromodichloromethane	ug/m3	0.68	0.71	104	70-130	
Bromoform	ug/m3	105	105	100	70-132	
Bromomethane	ug/m3	39.5	31.4	80	69-130	
Carbon disulfide	ug/m3	31.6	30.4	96	56-137	
Carbon tetrachloride	ug/m3	0.64	0.48	75	61-135	
Chlorobenzene	ug/m3	46.8	46.5	99	70-130	
Chloroethane	ug/m3	26.8	24.9	93	70-130	
Chloroform	ug/m3	0.5	0.53	107	70-130	
Chloromethane	ug/m3	21	19.6	94	66-130	
cis-1,2-Dichloroethene	ug/m3	0.4	<0.81	119	70-130	
cis-1,3-Dichloropropene	ug/m3	0.46	0.54	116	64-130	
Cyclohexane	ug/m3	35	34.7	99	68-132	
Dibromochloromethane	ug/m3	86.6	85.9	99	70-130	
Dichlorodifluoromethane	ug/m3	50.3	47.0	93	70-130	
Dichlorotetrafluoroethane	ug/m3	71	60.2	85	70-130	
Ethanol	ug/m3	95.8	81.2	85	68-133	
Ethyl acetate	ug/m3	36.6	34.4	94	69-130	
Ethylbenzene	ug/m3	44.1	45.7	104	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	104	96	66-137	
m&p-Xylene	ug/m3	88.3	91.8	104	70-132	
Methyl-tert-butyl ether	ug/m3	36.6	37.8	103	70-130	
Methylene Chloride	ug/m3	177	158	89	65-130	
n-Heptane	ug/m3	41.7	38.0	91	65-130	
n-Hexane	ug/m3	35.8	31.8	89	66-130	
Naphthalene	ug/m3	53.3	56.3	106	56-130	
o-Xylene	ug/m3	44.1	43.7	99	70-130	
Propylene	ug/m3	17.5	14.7	84	67-130	
Styrene	ug/m3	43.3	48.1	111	69-136	
Tetrachloroethene	ug/m3	0.69	0.83	121	70-132	
Tetrahydrofuran	ug/m3	30	29.2	97	68-131	
Toluene	ug/m3	38.3	37.7	99	70-130	
trans-1,2-Dichloroethene	ug/m3	0.4	0.44	109	62-149	
trans-1,3-Dichloropropene	ug/m3	0.46	0.55	120	70-130	
Trichloroethene	ug/m3	0.55	0.67	123	70-134	
Trichlorofluoromethane	ug/m3	57.1	55.6	97	65-130	
Vinyl acetate	ug/m3	35.8	32.3	90	61-133	SS
Vinyl chloride	ug/m3	0.26	0.30	117	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

SAMPLE DUPLICATE: 3419488

Parameter	Units	10492667001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.058	<0.089		
1,1,2,2-Tetrachloroethane	ug/m3	<0.090	<0.11		
1,1,2-Trichloroethane	ug/m3	<0.060	<0.089		
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.91	<2.5		
1,1-Dichloroethane	ug/m3	<0.039	<0.066		
1,1-Dichloroethene	ug/m3	<0.056	<0.065		
1,2,4-Trichlorobenzene	ug/m3	<6.0	<12.1		
1,2,4-Trimethylbenzene	ug/m3	5.4	5.3	1	
1,2-Dibromoethane (EDB)	ug/m3	<0.11	<0.13		
1,2-Dichlorobenzene	ug/m3	<0.80	<2.0		
1,2-Dichloroethane	ug/m3	0.093	0.090	4	
1,2-Dichloropropane	ug/m3	<0.047	<0.076		
1,3,5-Trimethylbenzene	ug/m3	1.9	1.8	8	
1,3-Butadiene	ug/m3	<0.034	<0.036		
1,3-Dichlorobenzene	ug/m3	<0.94	<2.0		
1,4-Dichlorobenzene	ug/m3	<1.6	<4.9		
2-Butanone (MEK)	ug/m3	90.8	82.5	10	
2-Hexanone	ug/m3	22.6	22.7	0	
2-Propanol	ug/m3	18.0	17.3	4	
4-Ethyltoluene	ug/m3	1.5J	<4.0		
4-Methyl-2-pentanone (MIBK)	ug/m3	4.9J	<6.7		
Acetone	ug/m3	2510	2640	5	E
Benzene	ug/m3	1.3	1.3	2	
Benzyl chloride	ug/m3	<1.9	<4.2		
Bromodichloromethane	ug/m3	<0.080	<0.11		
Bromoform	ug/m3	<2.3	<8.5		
Bromomethane	ug/m3	<0.37	<1.3		
Carbon disulfide	ug/m3	0.62J	<1.0		
Carbon tetrachloride	ug/m3	0.67	0.66	2	
Chlorobenzene	ug/m3	<0.44	<1.5		
Chloroethane	ug/m3	<0.42	<0.86		
Chloroform	ug/m3	0.15	0.15	3	
Chloromethane	ug/m3	1.8	1.9	3	
cis-1,2-Dichloroethene	ug/m3	<0.043	<1.3		
cis-1,3-Dichloropropene	ug/m3	<0.058	<0.074		
Cyclohexane	ug/m3	2.6J	<2.8		
Dibromochloromethane	ug/m3	<1.2	<7.0		
Dichlorodifluoromethane	ug/m3	2.5	2.4	3	
Dichlorotetrafluoroethane	ug/m3	<0.70	<2.3		
Ethanol	ug/m3	38.5	37.0	4	
Ethyl acetate	ug/m3	1.6	1.7	7	
Ethylbenzene	ug/m3	4.8	4.8	0	
Hexachloro-1,3-butadiene	ug/m3	<3.2	<8.7		
m&p-Xylene	ug/m3	24.2	23.7	2	
Methyl-tert-butyl ether	ug/m3	<1.1	<5.9		
Methylene Chloride	ug/m3	12.1	11.7	3	
n-Heptane	ug/m3	<0.61	<1.3		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

SAMPLE DUPLICATE: 3419488

Parameter	Units	10492667001 Result	Dup Result	RPD	Qualifiers
n-Hexane	ug/m3	<0.50	<1.2		
Naphthalene	ug/m3	<2.1	<4.3		
o-Xylene	ug/m3	12.4	12.4	0	
Propylene	ug/m3	23.7	24.0	1	
Styrene	ug/m3	0.78J	<1.4		
Tetrachloroethene	ug/m3	0.11J	<1.1		
Tetrahydrofuran	ug/m3	<0.42	<0.97		
Toluene	ug/m3	14.6	14.8	1	
trans-1,2-Dichloroethene	ug/m3	<0.060	<0.065		
trans-1,3-Dichloropropene	ug/m3	<0.066	<0.074		
Trichloroethene	ug/m3	<0.079	<0.088		
Trichlorofluoromethane	ug/m3	1.5J	<1.8		
Vinyl acetate	ug/m3	<0.43	<2.9		
Vinyl chloride	ug/m3	0.065	0.063	3	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMIL/AIR 9/16
Pace Project No.: 70105038

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70105038001	**SVE-INF**	TO-15	634322		

WO#:70105038

70105038

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

46633

Page: 1 of 1

Section A Required Client Information:

Company: PWGC
Address: 630 Johnson Ave Bohemia, NY 11716
Email To: Kcrosby@pwgrosser.com
Phone: 631-589-6353 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Kaitlyn Crosby
Copy To:
Purchase Order No.:
Project Name: MinMilt
Project Number: MIN1001

Section C Invoice Information:

Attention: Same as Client
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep. Betty Harrison
Pace Profile #: 39150

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other____

Location of Sampling by State _____

Reporting Units: ug/m³___ mg/m³___ PPBV___ PPMV___ Other___

Report Level II.___ III.___ IV.___ Other____

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE - END/GRAB DATE	COLLECTED: COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	SVE-INF	6LC	—	—	—	9-16-19	1025	—	—	3471	—					X					001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
PWGC	9-16-19	1057	Pace	9/16/19	10:58

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
5.1	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: _____ DATE Signed (MM / DD / YY): 09/16/19

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

PWGC
CLIENT DRIVEN SOLUTIONS

APPENDIX D

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

March 14, 2020

Kaitlyn Crosby
P.W. Grosser Engineer & Hydrogeologist
630 Johnson Ave.
Suite 7
Bohemia, NY 11716

RE: Project: MIN 1001 3/5
Pace Project No.: 70124128

Dear Kaitlyn Crosby:
Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Kaitlyn Crosby, P.W. Grosser Engineer & Hydrogeologist

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: MW-1 **Lab ID: 70124128001** Collected: 03/05/20 11:30 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 18:24	67-64-1	
Benzene	ND	ug/L	1.0	1		03/12/20 18:24	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 18:24	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 18:24	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 18:24	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 18:24	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 18:24	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 18:24	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 18:24	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:24	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 18:24	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 18:24	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 18:24	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:24	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:24	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 18:24	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 18:24	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 18:24	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 18:24	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 18:24	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 18:24	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 18:24	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 18:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 18:24	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 18:24	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:24	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/12/20 18:24	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 18:24	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:24	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:24	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 18:24	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 18:24	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 18:24	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	68-153	1		03/12/20 18:24	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		03/12/20 18:24	460-00-4	
Toluene-d8 (S)	99	%	69-124	1		03/12/20 18:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: MW-2 **Lab ID: 70124128002** Collected: 03/05/20 10:55 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 18:43	67-64-1	CH
Benzene	ND	ug/L	1.0	1		03/12/20 18:43	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 18:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 18:43	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 18:43	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 18:43	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 18:43	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 18:43	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 18:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 18:43	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 18:43	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 18:43	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:43	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:43	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 18:43	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 18:43	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 18:43	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 18:43	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 18:43	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 18:43	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 18:43	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 18:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 18:43	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 18:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:43	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/12/20 18:43	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 18:43	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:43	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 18:43	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 18:43	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 18:43	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 18:43	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		03/12/20 18:43	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		03/12/20 18:43	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		03/12/20 18:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: MW-3 **Lab ID: 70124128003** Collected: 03/05/20 10:25 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 19:03	67-64-1	CH
Benzene	ND	ug/L	1.0	1		03/12/20 19:03	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 19:03	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 19:03	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 19:03	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 19:03	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 19:03	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 19:03	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 19:03	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:03	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 19:03	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 19:03	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 19:03	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:03	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:03	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 19:03	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 19:03	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 19:03	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 19:03	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 19:03	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 19:03	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 19:03	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 19:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 19:03	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 19:03	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:03	79-34-5	
Tetrachloroethene	**2.8**	ug/L	1.0	1		03/12/20 19:03	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 19:03	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:03	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:03	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 19:03	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 19:03	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 19:03	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	68-153	1		03/12/20 19:03	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		03/12/20 19:03	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		03/12/20 19:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: MW-4 **Lab ID: 70124128004** Collected: 03/05/20 07:45 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 19:23	67-64-1	CH
Benzene	ND	ug/L	1.0	1		03/12/20 19:23	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 19:23	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 19:23	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 19:23	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 19:23	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 19:23	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 19:23	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 19:23	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:23	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 19:23	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 19:23	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 19:23	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:23	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:23	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 19:23	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 19:23	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 19:23	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 19:23	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 19:23	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 19:23	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 19:23	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 19:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 19:23	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 19:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:23	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/12/20 19:23	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 19:23	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:23	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:23	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 19:23	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 19:23	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 19:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	68-153	1		03/12/20 19:23	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		03/12/20 19:23	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		03/12/20 19:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: MW-5 **Lab ID: 70124128005** Collected: 03/05/20 11:10 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 19:43	67-64-1	
Benzene	ND	ug/L	1.0	1		03/12/20 19:43	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 19:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 19:43	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 19:43	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 19:43	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 19:43	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 19:43	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 19:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 19:43	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 19:43	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 19:43	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:43	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:43	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 19:43	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 19:43	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 19:43	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 19:43	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 19:43	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 19:43	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 19:43	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 19:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 19:43	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 19:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:43	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/12/20 19:43	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 19:43	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:43	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 19:43	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 19:43	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 19:43	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 19:43	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		03/12/20 19:43	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		03/12/20 19:43	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		03/12/20 19:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: MW-6 **Lab ID: 70124128006** Collected: 03/05/20 11:50 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 20:03	67-64-1	
Benzene	ND	ug/L	1.0	1		03/12/20 20:03	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 20:03	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 20:03	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 20:03	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 20:03	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 20:03	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 20:03	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 20:03	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:03	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 20:03	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 20:03	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 20:03	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:03	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:03	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 20:03	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 20:03	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 20:03	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 20:03	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 20:03	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 20:03	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 20:03	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 20:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 20:03	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 20:03	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:03	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/12/20 20:03	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 20:03	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:03	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:03	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 20:03	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 20:03	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 20:03	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		03/12/20 20:03	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		03/12/20 20:03	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		03/12/20 20:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: MW-7 **Lab ID: 70124128007** Collected: 03/05/20 08:45 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 20:23	67-64-1	
Benzene	ND	ug/L	1.0	1		03/12/20 20:23	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 20:23	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 20:23	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 20:23	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 20:23	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 20:23	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 20:23	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 20:23	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:23	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 20:23	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 20:23	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 20:23	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:23	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:23	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 20:23	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 20:23	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 20:23	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 20:23	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 20:23	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 20:23	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 20:23	591-78-6	
Methylene Chloride	**1.4**	ug/L	1.0	1		03/12/20 20:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 20:23	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 20:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:23	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/12/20 20:23	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 20:23	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:23	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:23	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 20:23	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 20:23	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 20:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		03/12/20 20:23	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		03/12/20 20:23	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		03/12/20 20:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: MW-8 **Lab ID: 70124128008** Collected: 03/05/20 08:30 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 20:43	67-64-1	CH
Benzene	ND	ug/L	1.0	1		03/12/20 20:43	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 20:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 20:43	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 20:43	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 20:43	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 20:43	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 20:43	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 20:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 20:43	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 20:43	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 20:43	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:43	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:43	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 20:43	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 20:43	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 20:43	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 20:43	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 20:43	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 20:43	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 20:43	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 20:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 20:43	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 20:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:43	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/12/20 20:43	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 20:43	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:43	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 20:43	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 20:43	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 20:43	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 20:43	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		03/12/20 20:43	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		03/12/20 20:43	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		03/12/20 20:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: MW-9 **Lab ID: 70124128009** Collected: 03/05/20 09:55 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 21:03	67-64-1	CH
Benzene	ND	ug/L	1.0	1		03/12/20 21:03	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 21:03	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 21:03	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 21:03	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 21:03	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 21:03	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 21:03	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 21:03	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:03	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 21:03	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 21:03	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 21:03	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:03	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:03	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 21:03	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 21:03	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 21:03	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 21:03	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 21:03	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 21:03	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 21:03	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 21:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 21:03	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 21:03	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:03	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/12/20 21:03	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 21:03	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:03	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:03	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 21:03	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 21:03	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 21:03	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	68-153	1		03/12/20 21:03	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		03/12/20 21:03	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		03/12/20 21:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: GW-1 **Lab ID: 70124128010** Collected: 03/05/20 14:45 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 21:23	67-64-1	
Benzene	ND	ug/L	1.0	1		03/12/20 21:23	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 21:23	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 21:23	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 21:23	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 21:23	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 21:23	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 21:23	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 21:23	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:23	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 21:23	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 21:23	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 21:23	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:23	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:23	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 21:23	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 21:23	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 21:23	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 21:23	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 21:23	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 21:23	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 21:23	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 21:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 21:23	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 21:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:23	79-34-5	
Tetrachloroethene	**1.7**	ug/L	1.0	1		03/12/20 21:23	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 21:23	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:23	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:23	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 21:23	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 21:23	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 21:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		03/12/20 21:23	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		03/12/20 21:23	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		03/12/20 21:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: GW-2 **Lab ID: 70124128011** Collected: 03/05/20 13:10 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 21:43	67-64-1	
Benzene	ND	ug/L	1.0	1		03/12/20 21:43	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 21:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 21:43	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 21:43	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 21:43	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 21:43	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 21:43	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 21:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 21:43	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 21:43	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 21:43	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:43	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:43	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 21:43	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 21:43	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 21:43	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 21:43	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 21:43	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 21:43	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 21:43	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 21:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 21:43	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 21:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:43	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/12/20 21:43	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 21:43	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:43	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 21:43	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 21:43	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 21:43	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 21:43	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	68-153	1		03/12/20 21:43	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		03/12/20 21:43	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		03/12/20 21:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: GW-3 **Lab ID: 70124128012** Collected: 03/05/20 12:45 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 22:03	67-64-1	
Benzene	ND	ug/L	1.0	1		03/12/20 22:03	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 22:03	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 22:03	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 22:03	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 22:03	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 22:03	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 22:03	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 22:03	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:03	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 22:03	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 22:03	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 22:03	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:03	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:03	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 22:03	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 22:03	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 22:03	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 22:03	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 22:03	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 22:03	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 22:03	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 22:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 22:03	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 22:03	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:03	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/12/20 22:03	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 22:03	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:03	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:03	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 22:03	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 22:03	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 22:03	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		03/12/20 22:03	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		03/12/20 22:03	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		03/12/20 22:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: SP-3 **Lab ID: 70124128013** Collected: 03/05/20 12:10 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 22:23	67-64-1	CH
Benzene	ND	ug/L	1.0	1		03/12/20 22:23	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 22:23	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 22:23	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 22:23	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 22:23	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 22:23	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 22:23	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 22:23	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:23	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 22:23	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 22:23	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 22:23	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:23	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:23	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 22:23	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 22:23	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 22:23	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 22:23	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 22:23	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 22:23	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 22:23	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 22:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 22:23	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 22:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:23	79-34-5	
Tetrachloroethene	**1.8**	ug/L	1.0	1		03/12/20 22:23	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 22:23	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:23	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:23	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 22:23	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 22:23	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 22:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	68-153	1		03/12/20 22:23	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		03/12/20 22:23	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		03/12/20 22:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: SP-4 **Lab ID: 70124128014** Collected: 03/05/20 12:25 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 22:43	67-64-1	CH
Benzene	ND	ug/L	1.0	1		03/12/20 22:43	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 22:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 22:43	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 22:43	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 22:43	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 22:43	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 22:43	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 22:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 22:43	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 22:43	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 22:43	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:43	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:43	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 22:43	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 22:43	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 22:43	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 22:43	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 22:43	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 22:43	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 22:43	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 22:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 22:43	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 22:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:43	79-34-5	
Tetrachloroethene	**1.4**	ug/L	1.0	1		03/12/20 22:43	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 22:43	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:43	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 22:43	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 22:43	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 22:43	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 22:43	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	68-153	1		03/12/20 22:43	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		03/12/20 22:43	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		03/12/20 22:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: SP-6 **Lab ID: 70124128015** Collected: 03/05/20 13:25 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 23:03	67-64-1	
Benzene	ND	ug/L	1.0	1		03/12/20 23:03	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 23:03	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 23:03	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 23:03	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 23:03	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 23:03	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 23:03	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 23:03	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:03	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 23:03	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 23:03	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 23:03	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:03	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:03	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 23:03	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 23:03	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 23:03	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 23:03	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 23:03	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 23:03	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 23:03	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 23:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 23:03	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 23:03	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:03	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/12/20 23:03	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 23:03	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:03	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:03	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 23:03	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 23:03	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 23:03	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		03/12/20 23:03	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-124	1		03/12/20 23:03	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		03/12/20 23:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: SCDHS **Lab ID: 70124128016** Collected: 03/05/20 13:50 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 23:23	67-64-1	
Benzene	ND	ug/L	1.0	1		03/12/20 23:23	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 23:23	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 23:23	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 23:23	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 23:23	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 23:23	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 23:23	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 23:23	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:23	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 23:23	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 23:23	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 23:23	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:23	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:23	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/12/20 23:23	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 23:23	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 23:23	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 23:23	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 23:23	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 23:23	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 23:23	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 23:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 23:23	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 23:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:23	79-34-5	
Tetrachloroethene	**2.9**	ug/L	1.0	1		03/12/20 23:23	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 23:23	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:23	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:23	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 23:23	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/12/20 23:23	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 23:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		03/12/20 23:23	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-124	1		03/12/20 23:23	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		03/12/20 23:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: ML-1A **Lab ID: 70124128017** Collected: 03/05/20 14:00 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/12/20 23:43	67-64-1	CH
Benzene	ND	ug/L	1.0	1		03/12/20 23:43	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/12/20 23:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/12/20 23:43	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/12/20 23:43	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/12/20 23:43	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/12/20 23:43	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/12/20 23:43	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/12/20 23:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/12/20 23:43	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/12/20 23:43	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/12/20 23:43	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:43	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:43	107-06-2	
1,2-Dichloroethene (Total)	**3.7**	ug/L	2.0	1		03/12/20 23:43	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/12/20 23:43	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/12/20 23:43	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 23:43	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/12/20 23:43	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/12/20 23:43	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/12/20 23:43	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/12/20 23:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/12/20 23:43	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/12/20 23:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:43	79-34-5	
Tetrachloroethene	**2.6**	ug/L	1.0	1		03/12/20 23:43	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/12/20 23:43	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:43	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/12/20 23:43	79-00-5	
Trichloroethene	**3.1**	ug/L	1.0	1		03/12/20 23:43	79-01-6	
Vinyl chloride	**39.4**	ug/L	1.0	1		03/12/20 23:43	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/12/20 23:43	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	68-153	1		03/12/20 23:43	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		03/12/20 23:43	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		03/12/20 23:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: ML-1B **Lab ID: 70124128018** Collected: 03/05/20 14:10 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/13/20 00:03	67-64-1	CH
Benzene	ND	ug/L	1.0	1		03/13/20 00:03	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/13/20 00:03	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/13/20 00:03	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/13/20 00:03	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/13/20 00:03	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/13/20 00:03	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/13/20 00:03	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/13/20 00:03	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:03	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/13/20 00:03	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/13/20 00:03	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/13/20 00:03	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:03	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:03	107-06-2	
1,2-Dichloroethene (Total)	**5.4**	ug/L	2.0	1		03/13/20 00:03	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/13/20 00:03	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/13/20 00:03	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/13/20 00:03	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/13/20 00:03	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/13/20 00:03	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/13/20 00:03	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/13/20 00:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/13/20 00:03	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/13/20 00:03	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:03	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/13/20 00:03	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/13/20 00:03	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:03	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:03	79-00-5	
Trichloroethene	**2.3**	ug/L	1.0	1		03/13/20 00:03	79-01-6	
Vinyl chloride	**7.4**	ug/L	1.0	1		03/13/20 00:03	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/13/20 00:03	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		03/13/20 00:03	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-124	1		03/13/20 00:03	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		03/13/20 00:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: MIN 1001 3/5
Pace Project No.: 70124128

Sample: ML-1C **Lab ID: 70124128019** Collected: 03/05/20 14:20 Received: 03/05/20 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Acetone	**<5.0**	ug/L	5.0	1		03/13/20 00:23	67-64-1	CH
Benzene	ND	ug/L	1.0	1		03/13/20 00:23	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/13/20 00:23	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/13/20 00:23	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/13/20 00:23	74-83-9	CL
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		03/13/20 00:23	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/13/20 00:23	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/13/20 00:23	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		03/13/20 00:23	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:23	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/13/20 00:23	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/13/20 00:23	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/13/20 00:23	124-48-1	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:23	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:23	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/L	2.0	1		03/13/20 00:23	540-59-0	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/13/20 00:23	75-35-4	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/13/20 00:23	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/13/20 00:23	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/13/20 00:23	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/13/20 00:23	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		03/13/20 00:23	591-78-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/13/20 00:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		03/13/20 00:23	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		03/13/20 00:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:23	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/13/20 00:23	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/13/20 00:23	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:23	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/13/20 00:23	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		03/13/20 00:23	79-01-6	
Vinyl chloride	**3.0**	ug/L	1.0	1		03/13/20 00:23	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		03/13/20 00:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	68-153	1		03/13/20 00:23	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		03/13/20 00:23	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		03/13/20 00:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MIN 1001 3/5
Pace Project No.: 70124128

QC Batch: 153267 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 70124128001, 70124128002, 70124128003, 70124128004, 70124128005, 70124128006, 70124128007, 70124128008, 70124128009, 70124128010, 70124128011, 70124128012, 70124128013, 70124128014, 70124128015, 70124128016, 70124128017, 70124128018, 70124128019

METHOD BLANK: 736960 Matrix: Water
Associated Lab Samples: 70124128001, 70124128002, 70124128003, 70124128004, 70124128005, 70124128006, 70124128007, 70124128008, 70124128009, 70124128010, 70124128011, 70124128012, 70124128013, 70124128014, 70124128015, 70124128016, 70124128017, 70124128018, 70124128019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	03/12/20 17:04	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	03/12/20 17:04	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	03/12/20 17:04	
1,1-Dichloroethane	ug/L	<1.0	1.0	03/12/20 17:04	
1,1-Dichloroethene	ug/L	<1.0	1.0	03/12/20 17:04	
1,2-Dichloroethane	ug/L	<1.0	1.0	03/12/20 17:04	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	03/12/20 17:04	
1,2-Dichloropropane	ug/L	<1.0	1.0	03/12/20 17:04	
2-Butanone (MEK)	ug/L	<5.0	5.0	03/12/20 17:04	
2-Hexanone	ug/L	<5.0	5.0	03/12/20 17:04	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	03/12/20 17:04	
Acetone	ug/L	<5.0	5.0	03/12/20 17:04	
Benzene	ug/L	ND	1.0	03/12/20 17:04	
Bromodichloromethane	ug/L	<1.0	1.0	03/12/20 17:04	
Bromoform	ug/L	<1.0	1.0	03/12/20 17:04	
Bromomethane	ug/L	<1.0	1.0	03/12/20 17:04	CL
Carbon disulfide	ug/L	<1.0	1.0	03/12/20 17:04	
Carbon tetrachloride	ug/L	<1.0	1.0	03/12/20 17:04	
Chlorobenzene	ug/L	<1.0	1.0	03/12/20 17:04	
Chloroethane	ug/L	<1.0	1.0	03/12/20 17:04	
Chloroform	ug/L	<1.0	1.0	03/12/20 17:04	
Chloromethane	ug/L	<1.0	1.0	03/12/20 17:04	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	03/12/20 17:04	
Dibromochloromethane	ug/L	<1.0	1.0	03/12/20 17:04	
Ethylbenzene	ug/L	<1.0	1.0	03/12/20 17:04	
Methylene Chloride	ug/L	<1.0	1.0	03/12/20 17:04	
Styrene	ug/L	<1.0	1.0	03/12/20 17:04	
Tetrachloroethene	ug/L	<1.0	1.0	03/12/20 17:04	
Toluene	ug/L	<1.0	1.0	03/12/20 17:04	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	03/12/20 17:04	
Trichloroethene	ug/L	<1.0	1.0	03/12/20 17:04	
Vinyl chloride	ug/L	<1.0	1.0	03/12/20 17:04	
Xylene (Total)	ug/L	<3.0	3.0	03/12/20 17:04	
1,2-Dichloroethane-d4 (S)	%	93	68-153	03/12/20 17:04	
4-Bromofluorobenzene (S)	%	99	79-124	03/12/20 17:04	
Toluene-d8 (S)	%	97	69-124	03/12/20 17:04	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MIN 1001 3/5
Pace Project No.: 70124128

LABORATORY CONTROL SAMPLE: 736961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.8	94	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	74-121	
1,1,2-Trichloroethane	ug/L	50	50.9	102	80-117	
1,1-Dichloroethane	ug/L	50	46.1	92	83-151	
1,1-Dichloroethene	ug/L	50	42.2	84	45-146	
1,2-Dichloroethane	ug/L	50	43.7	87	74-129	
1,2-Dichloroethene (Total)	ug/L	100	92.7	93	60-140	
1,2-Dichloropropane	ug/L	50	51.4	103	75-117	
2-Butanone (MEK)	ug/L	50	52.4	105	44-162	
2-Hexanone	ug/L	50	50.6	101	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.2	100	69-132	
Acetone	ug/L	50	59.8	120	23-188	CH
Benzene	ug/L	50	50.4	101	73-119	
Bromodichloromethane	ug/L	50	46.5	93	78-117	
Bromoform	ug/L	50	41.6	83	65-122	
Bromomethane	ug/L	50	32.5	65	52-147	CL
Carbon disulfide	ug/L	50	41.3	83	41-144	
Carbon tetrachloride	ug/L	50	45.4	91	59-120	
Chlorobenzene	ug/L	50	50.3	101	75-113	
Chloroethane	ug/L	50	43.4	87	49-151	
Chloroform	ug/L	50	46.0	92	72-122	
Chloromethane	ug/L	50	36.1	72	46-144	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	78-116	
Dibromochloromethane	ug/L	50	45.3	91	70-120	
Ethylbenzene	ug/L	50	50.4	101	70-113	
Methylene Chloride	ug/L	50	44.3	89	61-142	
Styrene	ug/L	50	51.8	104	72-118	
Tetrachloroethene	ug/L	50	49.7	99	60-128	
Toluene	ug/L	50	51.1	102	72-119	
trans-1,3-Dichloropropene	ug/L	50	47.7	95	79-116	
Trichloroethene	ug/L	50	49.8	100	69-117	
Vinyl chloride	ug/L	50	40.4	81	43-143	
Xylene (Total)	ug/L	150	156	104	71-109	
1,2-Dichloroethane-d4 (S)	%			89	68-153	
4-Bromofluorobenzene (S)	%			100	79-124	
Toluene-d8 (S)	%			97	69-124	

MATRIX SPIKE SAMPLE: 737635

Parameter	Units	70124128002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	46.8	94	65-118	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50.1	100	74-121	
1,1,2-Trichloroethane	ug/L	<1.0	50	52.8	106	80-117	
1,1-Dichloroethane	ug/L	<1.0	50	47.3	95	83-151	
1,1-Dichloroethene	ug/L	<1.0	50	46.1	92	45-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MIN 1001 3/5
Pace Project No.: 70124128

MATRIX SPIKE SAMPLE: 737635

Parameter	Units	70124128002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	45.7	91	74-129	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	94.8	95	60-140	
1,2-Dichloropropane	ug/L	<1.0	50	52.1	104	75-117	
2-Butanone (MEK)	ug/L	<5.0	50	43.6	87	44-162	
2-Hexanone	ug/L	<5.0	50	39.6	79	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	54.0	108	69-132	
Acetone	ug/L	<5.0	50	33.8	68	23-188	CH
Benzene	ug/L	ND	50	51.2	102	73-119	
Bromodichloromethane	ug/L	<1.0	50	47.4	95	78-117	
Bromoform	ug/L	<1.0	50	36.8	74	65-122	
Bromomethane	ug/L	<1.0	50	29.5	59	52-147	CL
Carbon disulfide	ug/L	<1.0	50	43.4	87	41-144	
Carbon tetrachloride	ug/L	<1.0	50	44.0	88	59-120	
Chlorobenzene	ug/L	<1.0	50	49.7	99	75-113	
Chloroethane	ug/L	<1.0	50	46.5	93	49-151	
Chloroform	ug/L	<1.0	50	47.5	95	72-122	
Chloromethane	ug/L	<1.0	50	38.3	77	46-144	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50.3	101	78-116	
Dibromochloromethane	ug/L	<1.0	50	42.6	85	70-120	
Ethylbenzene	ug/L	<1.0	50	48.8	98	70-113	
Methylene Chloride	ug/L	<1.0	50	48.3	97	61-142	
Styrene	ug/L	<1.0	50	50.3	101	72-118	
Tetrachloroethene	ug/L	<1.0	50	43.2	86	60-128	
Toluene	ug/L	<1.0	50	52.3	105	72-119	
trans-1,3-Dichloropropene	ug/L	<1.0	50	49.1	98	79-116	
Trichloroethene	ug/L	<1.0	50	50.0	100	69-117	
Vinyl chloride	ug/L	<1.0	50	43.1	86	43-143	
Xylene (Total)	ug/L	<3.0	150	151	101	71-109	
1,2-Dichloroethane-d4 (S)	%				93	68-153	
4-Bromofluorobenzene (S)	%				100	79-124	
Toluene-d8 (S)	%				91	69-124	

SAMPLE DUPLICATE: 737634

Parameter	Units	70124128001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Hexanone	ug/L	<5.0	<5.0		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: MIN 1001 3/5
Pace Project No.: 70124128

SAMPLE DUPLICATE: 737634

Parameter	Units	70124128001 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	ND	ND		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		CL
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	91	96		
4-Bromofluorobenzene (S)	%	99	97		
Toluene-d8 (S)	%	99	90		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: MIN 1001 3/5
Pace Project No.: 70124128

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN 1001 3/5
Pace Project No.: 70124128

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70124128001	**MW-1**	EPA 8260C/5030C	153267		
70124128002	**MW-2**	EPA 8260C/5030C	153267		
70124128003	**MW-3**	EPA 8260C/5030C	153267		
70124128004	**MW-4**	EPA 8260C/5030C	153267		
70124128005	**MW-5**	EPA 8260C/5030C	153267		
70124128006	**MW-6**	EPA 8260C/5030C	153267		
70124128007	**MW-7**	EPA 8260C/5030C	153267		
70124128008	**MW-8**	EPA 8260C/5030C	153267		
70124128009	**MW-9**	EPA 8260C/5030C	153267		
70124128010	**GW-1**	EPA 8260C/5030C	153267		
70124128011	**GW-2**	EPA 8260C/5030C	153267		
70124128012	**GW-3**	EPA 8260C/5030C	153267		
70124128013	**SP-3**	EPA 8260C/5030C	153267		
70124128014	**SP-4**	EPA 8260C/5030C	153267		
70124128015	**SP-6**	EPA 8260C/5030C	153267		
70124128016	**SCDHS**	EPA 8260C/5030C	153267		
70124128017	**ML-1A**	EPA 8260C/5030C	153267		
70124128018	**ML-1B**	EPA 8260C/5030C	153267		
70124128019	**ML-1C**	EPA 8260C/5030C	153267		

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

WO# : 70124128

70124128

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	P.W. Grosser Engineer & Hydrogeologist	Report To:	Kaitlyn Crosby	Attention:	Same as Client
Address:	630 Johnson Avenue	Copy To:		Company Name:	
	Bohemia, NY 11716			Address:	
Email:	kcrosby@pwgrosser.com	Purchase Order #:		Pace Quote:	
Phone:	(631) 589-6353 Fax	Project Name:	MIN1001	Pace Project Manager:	betty.harrison@pacelabs.com,
Requested Due Date:	Standard	Project #:		Pace Profile #:	5382 LINE 1

Regulatory Agency	
State / Location	NY

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 Full List	Residual Chlorine (Y/N)
1	MW-1	WT	G			3-5-20	1130		2				X						X	
2	MW-2						1055		1											
3	MW-3						1025													
4	MW-4						0745													
5	MW-5						1110													
6	MW-6						1150													
7	MW-7						0845													
8	MW-8						0830													
9	MW-9						0955													
10	GW-1						1445													
11	GW-2						1310													
12	GW-3						1245													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	PWGC	3-5-20	1515	Pace	3/5/20	15:15	3.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: [signature]

DATE Signed: 03/05/2020

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Docu

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

WO# : 70124128

PM: EMH **Due Date: 03/19/20**

CLIENT: PWG

Section A	Section B	Section C
Required Client Information:	**Required Project Information:**	**Invoice Information:**
Company: P.W. Grosser Engineer & Hydrogeologist	Report To: Kaitlyn Crosby	Attention: Same as Client
Address: 630 Johnson Avenue	Copy To:	Company Name:
Bohemia, NY 11716		Address
Email: kcrosby@pwgrosser.com	Purchase Order #:	Pace Quote:
Phone: (631) 589-6353 Fax	Project Name: MIN1001	Pace Project Manager: betty.harrison@pacelabs.com,
Requested Due Date: Standard	Project #:	Pace Profile #: 5382 LINE 1

Regulatory Agency
State / Location
NY

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): 8260 Full List	Residual Chlorine (Y/N)
1	SP-3	WT	G			3-5-20	1210		2				X						X	
2	SP-4						1225													
3	SP-6						1325													
4	SCDHS						1350													
5	ML-1A						1400													
6	ML-1B						1410													
7	ML-1C						1420													
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PWGC	3-5-20	1515	Pace LI	3/5/20	15:15	3.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kaitlyn Crosby

SIGNATURE of SAMPLER: DATE Signed: 03/05/20

Pace Analytical

Sample Condition Upon Receipt

WO#: 70124128

PM: EMH Due Date: 03/19/20

CLIENT: PWG

Client Name: PW Grosser

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 Correction Factor: +0.2

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 3.5 Cooler Temperature Corrected (°C): 3.7

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample) Date and Initials of person examining contents: 3/5/2020 P

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/Analysis Matrix SL (WT) OIL				
All containers needing preservation have been checked	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐ Yes	☐ No	☑ N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present:	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.