

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

## **JULY 2021 TO SEPTEMBER 2022 PERIODIC REVIEW REPORT**

**Submitted to:**



New York State Dept of Environmental Conservation  
Division of Environmental Remediation  
Remedial Bureau A  
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PWGC Project Number: MIN1001

**JANUARY 2023**



**PERIODIC REVIEW REPORT  
SITE NO. 1-52-147**

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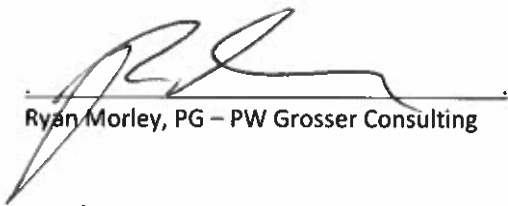


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**CERTIFICATION**

*I certify that all 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, Ryan Morley, PG, of PW Grosser Consulting, Inc., 630 Johnson Avenue, Suite 7, Bohemia, NY 11716, am certifying as Owner's Designated Site Representative and I have been authorized and designated by all Site owners to sign this certification for the Site."*



Ryan Morley, PG – PW Grosser Consulting

March 20, 2023

## 1.0 INTRODUCTION

This *Periodic Review Report* (PRR) has been prepared by P.W. Grosser Consulting Inc. (PWGC) on behalf of Minmilt Realty Corporation in accordance with the February 2022 Site Management Plan (SMP). Prior to the implementation of the February 2022 SMP, the site was governed, and PRRs were prepared under, an Operation, Maintenance, and Monitoring Plan (OM&M Plan) which was prepared by PWGC and approved by the New York State Department of Environmental Conservation (NYSDEC) in January 2005. The overall objective of this report is to document routine operation and maintenance activities, system monitoring, and remedial activities from July 1, 2021, to September 30, 2022, in accordance with the February 2022 SMP and to certify that the controls in place are operating as designed. 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 and monitor the effectiveness and progress of site remediation.

This PRR documents system operation, maintenance, remediation, and sampling activities performed at the site from July 1, 2021, to September 30, 2022, which included ongoing monitoring of the bioremediation program instituted in October 2020, which involved the temporary deactivation of the groundwater extraction and treatment (GWE&T) system to avoid extracting the applied bioremediation products that were injected into the subsurface. As per the February 2022 SMP, the content of the quarterly data submissions and routine sampling for this period included monthly sampling of the combined influent water and effluent water of the GWE&T system, as well as quarterly sampling of the influent water for the two individual recovery wells for the upper glacial and magothy aquifers. With the exception of two-to-four-hour activation periods each month to facilitate sample collection, the system remained off until July 26, 2022, when it was reactivated on a full-time basis after it was determined that the bioremediation program had fulfilled its effectiveness. The reason for keeping the system off during that period was to avoid removing the applied bioremediation chemicals from the targeted area of elevated PCE impact within the subsurface as the recovery wells are located immediately downgradient of the injection zones. To monitor that PCE impacts had not migrated off site while the system was inactive, samples were collected from downgradient monitoring wells on a monthly basis following the application of the bioremediation program in October 2020 until July 2022.

Influent air samples from the Soil Vapor Extraction (SVE) system have been collected semi-annually including December 2021 and June 2022. Groundwater 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 most recent site-wide groundwater sampling event was performed on September 20, 2022.

## 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 with paved driveways and parking lots located on the southern, western, and eastern sections of the site. Refer to **Figure 1 – Site Location Map**.

The Site is currently 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, who remains the building’s occupant.

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 Laketian Inc. as a distribution center of wholesale household goods.

The section of East Farmingdale that the Site is located is predominantly industrial and 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 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 pump and treat remedial 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.

A subsurface investigation performed in May 2020 which included three soil borings to a depth ranging from 170 to 180 feet below grade delineated the vertical extent of PCE contamination on the eastern side of the property in the soil which was determined to be source contributing to the ongoing PCE impact being observed in the recovery wells. The "hot spot" of PCE impact was identified to be located 80 to 95 feet below grade adjacent to the drywell which had historically been impacted. A boring performed approximately 80 feet down gradient of this 'hot spot' also identified two intervals of impact, albeit at lesser concentrations than the 'hot spot', at 80 to 95 feet below grade and 115 to 135 feet below grade. The findings of this investigation were documented in the July 2020 Soil Investigation of Historical Source Area Report which was provided to NYSDEC. Based on the findings of this investigation, a Bioremediation Program Work Plan was prepared and submitted to NYSDEC in August 2020 to outline the scope of work associated with the in situ chemical



injections documented in this report. The Bioremediation Program Work Plan was approved by NYSDEC in September 2020.

In October 2020, the bioremediation program was implemented at the Site. The objective of the activities performed was to apply bioremediation chemicals within the defined “hot spot” of PCE contamination located on the eastern side of the site, as well as in the less impacted “down-gradient barrier zone.” The chemicals applied to the “hot spot” were used for the goal of enhancing biodegradation of PCE compounds entrained in the subsurface and to reduce contamination to the extent that the remediation systems operating at the site are no longer warranted. The chemicals applied to the “down-gradient barrier zone” were used with the goal of forming a secondary zone of bioremediation activity to limit the capacity for PCE to migrate off site and to address the less severe PCE impact documented at this location. Due to the likelihood that the applied chemicals would be greatly affected by artificially enhanced groundwater velocities and potentially removed from the targeted treatment zones through the nearby recovery wells, the treatment system largely remained off from implementation of the bioremediation program until July 2022. This was to allow the applied chemicals to have sufficient time in the targeted areas to react and allow the “downgradient barrier zone” to remain in place to mitigate against impact from migrating off site during this time. The activities performed as part of the bioremediation program are detailed in the January 2021 Bioremediation Program Report which was submitted to NYSDEC. The GWE&T system was reactivated on July 26, 2022. .

Additionally, a SMP was developed by PWGC in February 2022 and approved by NYSDEC in March 2022 which currently governs the site. The SMP replaced the previously existing OM&M plan in which PRRs were previously reported under.

## 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 under the SMP during the period documented by this PRR consisted of the following activities (Please note that additional sampling measures performed as part of the bioremediation program and not included in the scope of the SMP are included):

Monitoring Program	Frequency
Collect synoptic groundwater measurements from groundwater monitoring wells	Quarterly
Collect combined influent and effluent samples from the GWE&T system	Monthly
Maintenance/corrective actions	As needed
Collect influent samples from both individual extraction wells associated with the GWE&T system.	Quarterly (Performed monthly following the application of injections from October 2020 - July 2022)
Collect influent samples from the SVE system	Semi-Annual (twice per year)
Collect groundwater samples from active monitoring wells, the SCDHS monitoring well, and the Multi-Level Well	Every 5 <sup>th</sup> Quarter (MW-8 and MW-9 were sampled monthly following the bioremediation program from October 2020 – July 2022)

As approved by the NYSDEC in January 2019 and incorporated into the February 2022 SMP, quarterly reports documenting OM&M implementation were eliminated; only analytical results pertaining to the GWE&T system were submitted to the NYSDEC under a cover letter each quarter of the period documented by this PRR. Instead, applicable OM&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 4<sup>th</sup> Quarter of 2019 and incorporated into the February 2022 SMP, 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 semi-annual.

A site-wide inspection was performed on September 20, 2022, by Kaitlyn Crosby, a representative of PWGC. The engineering controls (ECs) currently identified at the site include a GWE&T system and an SVE system.

The groundwater GWE&T 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 September 16, and December 20, 2021; and March 21, June 9, and September 20, 2022. As previously noted in Section 2.0, the frequency of groundwater level gauging was reduced from monthly to quarterly during the 4<sup>th</sup> Quarter of 2019.

##### **3.1.1 Groundwater Level Gauging Procedure and Results**

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 viscosity of the liquid within the well. 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. Groundwater elevations were observed to range from 56.62 feet in groundwater monitoring well SP-6 (September 20, 2022) to 61.02 feet in groundwater monitoring well MW-6 (September 16, 2021). Refer to **Table 1 – July 2021 – September 2022 Groundwater Elevation Results**.

Data retrieved on September 20, 2022, was 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, as it was observed to be during this reporting period and is consistent with recorded groundwater flow direction throughout this project.

#### **3.2 GWE&T SYSTEM SAMPLING**

GWE&T system combined influent and effluent samples were collected on July 29, August 17, September 16, October 25, November 22, and December 20, 2021; on January 18, February 17, March 21, April 25, May 17, June 9, July 29, August 22, and September 20, 2021.

Influent samples from the Magothy Aquifer (MA) extraction well and Upper Glacial Aquifer (UGA) extraction well were collected on July 29, August 17, September 16, October 25, November 22, and December 20, 2021; on January 18, February 17, March 21, April 25, May 17, June 9, July 29, and August 22, 2022.

##### **3.2.1 Remedial System Sampling Procedure**

As noted in Section 1.2 to prevent the bioremediation chemicals being removed by the system's recovery wells, the GWE&T system was largely inactive between October 7, 2020 and July 26, 2022. While the system was inactive, prior to sample collection the GWE&T system was turned on for a period of two to four hours and 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 treatment system after all samples are collected. During the period of time that the system was inactive, the GWE&T

system was turned off after sample collection was completed. Following the full time reactivation of the system on July 26, 2022. The system remained on before and after sample collection. Samples were 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 GWE&T System Analytical Results

Influent and effluent system samples were collected and analyzed for VOCs, total organic carbon (TOC), pH, and total iron. VOC 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 and TOC was analyzed to as a method for gauging the influence of the applied chemicals, as suggested by Regenesis, while the system was inactive (October 2020 – July 2022). Analytical results were reported to the NYSDEC on a quarterly basis for this reporting period with results-only deliverables. Analytical data reports are included in **Appendix B**.

Analytical results for the GWE&T 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 groundwater remedial system influent and effluent sampling are presented in **Table 2**. Combined system influent TVOC concentrations ranged from 3,997 µg/L in April 2022 to 1,572 µg/L in September 2022. A spike in TVOC concentrations was observed following the institution of the bioremediation program which included the increased concentrations of PCE breakdown compounds (aka: daughter compounds), namely trichloroethylene (TCE) and cis-1,2-dichloroethene (DCE). The increase in PCE breakdown compounds indicates that the applied chemicals effectively impacted the targeted areas and triggered a degradation process. The application of the bioremediation program was documented in the January 2021 Bioremediation Program Completion Report prepared by PWGC.

Combined system effluent results yielded exceedances above the NYSDEC effluent standards for PCE and DCE during the time after the implementation of the bioremediation program (November 2020 to July 2022) when the treatment system was only turned on for two to four hours per month for sampling purposes. PCE exceedances during this deactivation period ranged from 38 µg/L in August 2021 to 10 µg/L in July 2022 and DCE exceedances ranged from 25.4 µg/L in October 2021 to 12.1 µg/L in July 2022. However, analytical results for samples collected in August 2022 and September 2022 following the fulltime reactivation of the system did not yield exceedances of chlorinated solvents. Based on PWGC's assessments of the results and the system, it is believed that the GWE&T system is designed to be most effective after the interior packing within the air stepper tower becomes fully saturated, which occurs after two to four days following start up. The exceedances observed during the period of deactivation appeared to be a result of this dynamic while the system was only activated for short two-to-four-hour periods each month.

Influent concentrations of PCE and TVOCs have been generally trending downward since the GWE&T system was activated in 1997 as 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 in the late 1990s. Following a spike in TVOC concentrations which was observed after the implementation of the bioremediation program, TVOC concentrations generally plateaued in between 3,000 µg/L and 4,000 µg/L from July 2021 and August 2022. However, during this time a significant increase in PCE daughter compounds cis-1,2-DCE and TCE was observed indicating that the applied bioremediation chemicals had been effective at creating an anerobic environment within the targeted areas that resulted in the degradation of PCE. Prior to the institution of the bioremediation program, PCE accounted for approximately 99% of the TVOC concentrations in influent samples. In June 2022, approximately twenty months after the institution of the bioremediation program, the PCE share of the TVOC concentration had been reduced to 19.9% and cis-1,2-DCE accounted for 70.6% of the TVOC concentration. A summary of monthly influent sample results and the individual compound's percentage of the TVOC concentration is included as **Appendix C**.

Following the reactivation of the GWE&T system, TVOC concentrations have decreased to 1,572 µg/L in September 2022 and the percentage of PCE in the TVOC concentrations have increased to 58.5%. The influent results following the activation of the GWE&T are potentially indicative of a disruption of the anaerobic environment created by the bioremediation program which was observed to be effective in degrading PCE. There is the possibility that oxygenated groundwater from outside of the areas targeted during the bioremediation program is being drawn into these areas via the active recovery wells which is creating an aerobic environment that is not conducive for the degradation of PCE. PWGC is further evaluating the dynamic between the GWE&T system and its possible role in creating an aerobic environment that hinders the degradation of PCE compounds. If it is determined that an alternative remedial approach would be effective, then NYSDEC will be notified prior to the enactment of such events in accordance with the SMP.

Mass removal calculations were used to determine the mass of PCE and TVOCs removed by the groundwater remediation system, which are summarized on **Table 3**. The mass removal calculations are based upon analytical data obtained from July 2021 through September 2022. Approximately 39,591 pounds of PCE has been removed by the groundwater remedial system since it began operation, and approximately 1,005 pounds of PCE was removed during this reporting period. Approximately 43,878 pounds of TVOCs has been removed by the groundwater remedial system since it began operation, and approximately 2,636 pounds of TVOCs was removed during this reporting period. The mass removal totals this reporting period are lower than recent reporting periods due to the system's inactivity following the institution of the bioremediation program in October 2020 and do not account for the amount of PCE that was broken down during the bioremediation program.

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 when the system is activated.

A graph reflecting the mass removal rate for PCE (in pounds per day) is included as **Graph 3 – Tetrachloroethylene Removal Rates January 2008 through June 2021 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 targeting the underlying groundwater contamination.

The influent flow rate ranged from 115 gallons per minute (gpm) to 72 gpm. A steady decline in the flow rate was first noted between July 2022 (112 gpm) and September 2022 (72 gpm). As noted in Section 1.2, the groundwater remedial system had been inactive between October 2020 and July 2022. This decreased flow rate appeared to be associated with ironing fouling due to natural groundwater conditions, which has historically been observed in these recovery wells. In September 2022, there was a noted decrease in the system's flow rate. As discussed in previous sections, the system was turned back on full time on July 26, 2022. Although this event had occurred after the reporting period documented in this PRR, the two recovery wells were cleaned by a professional well and pump maintenance team on October 31, 2022. Following this event, flow rates rebounded to approximately 115 GPM, which is within the targeted range for flow rates. In the past, this maintenance resulted in a noted increase in flow rates after cleaning, and the cleaning of the wells is typically included in the routine maintenance schedule for the GWE&T system. PWGC continues to monitor the flow and as further discussed in Section 4.0.

### 3.3 SVE SYSTEM SAMPLING

A sample from the SVE system was collected on December 23, 2021, and June 21, 2022.

#### 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.

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

#### 3.3.2 SVE Analytical Results

SVE system samples were collected and analyzed for TVOCs. 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 generally been operating on a pulse pump schedule (two weeks on, two weeks off) since September 26, 2016.

Analytical results for TVOCs are reported as 2,877  $\mu\text{g}/\text{m}^3$  in December 2021 and 2,432  $\mu\text{g}/\text{m}^3$  in June 2022, as summarized on **Table 5**.

Mass removal calculations were used to determine the mass of TVOCs, including PCE, removed by the SVE system, as summarized on **Table 6**. The mass removal calculations are based on analytical data collected during this reporting period. Approximately 4.34 pounds of TVOCs has been removed by the SVE system during this reporting period. Approximately 5,368 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 0.0026 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 September 20, 2022, for this reporting period. With the exception of MW-7 and 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 wells MW-7 and SP-5 was not sampled because they were inaccessible. The sampling was performed in accordance with the procedures outlined in the SMP. In addition to the groundwater sampling performed as part of the SMP, samples were collected monthly until the reactivation of the GWE&T system from the two monitoring wells, MW-8 and MW-9, located directly down gradient and screened at deeper intervals to monitor that impacted groundwater was not migrating off site during the GWE&T system's deactivation period.

#### **3.4.1 Groundwater Monitoring Well Procedure**

Groundwater samples were collected from each monitoring well (with the exception of MW-7 and SP-5) at the Site. Samples were collected using a submersible pump fitted with dedicated polyethylene tubing. Samples were collected using the low flow sampling method. Wells were 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 were collected. Groundwater samples collected from groundwater monitoring wells were analyzed by Pace Analytical for VOCs by EPA Method 8260.

#### **3.4.2 Groundwater Monitoring Well Analytical Results**

The compounds quantified from the September 20, 2022, groundwater sampling for each well are presented in **Table 7 – June 23, 2021 Groundwater Sampling Results**, **Table 8 – Monitoring Well History PCE Concentrations**, **Table 9 - Multi-**

**Level Well Historical Sampling Results, and Table 10 – Groundwater Well Sample Results Summary for MW-8 and MW-9.** Analytical results are included in **Appendix E**.

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, as summarized on **Table 7 and 10**. Based upon these results, PWGC concludes that the contamination source area is defined properly within the eastern portion of the site and that the application of bioremediation chemicals contained the chlorinated solvent impact to this area. Prior to and following the application of the bioremediation chemicals, the groundwater treatment system had effectively mitigated impact from migrating off site.

Historic PCE concentrations are summarized 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**, Interval A had an exceedance of TCE (8.3 µg/L) and Interval B had exceedances of TCE (14.5 µg/L) and DCE (126 µg/L) above their respective guidance values of 5 µg/L. These results are within range of what has been observed historically at these locations.

## **4.0 REMEDIAL SYSTEM MAINTENANCE, REPAIRS, AND UPGRADES**

As previously discussed in Section 3.2.1, the recovery wells for the GWE&T system were affected by iron fouling during this reporting period as decreased flow rates were observed in August and September 2022. Historically, iron fouling has caused clogging in the pumps and well screens that causes the decreased flow rate. Although performed after the conclusion of the reporting period documented in this PRR, the two recovery wells and their pumps were cleaned by a professional well servicing team on October 31, 2022. Following the well cleaning, flow rates rebounded to an acceptable range. Iron fouling has been an ongoing issue for the two recovery wells since their installation and is a result of natural groundwater conditions. The recovery wells are generally cleaned once every eighteen months to avoid significant fouling and performance issues.

The GWE&T system is designed to be capable of treating influent water impacted with approximately 20,000 ppb of PCE, as well as PCE breakdown compounds, to meet effluent standards. As previously discussed in Section 3.2.1, exceedances



of PCE and cis 1,2-DCE above NYSDEC effluent limitations were observed in GWE&T system effluent samples during the time period when the system was largely inactive. Following the system's fulltime reactivation, effluent sample results meet NYSDEC effluent standards, and it was determined that the air stripper component of the GWE&T system required multiple days of activity to become fully saturated and most effective. The GWE&T system is currently functioning as designed.

## **5.0 CONCLUSIONS AND RECOMMENDATIONS**

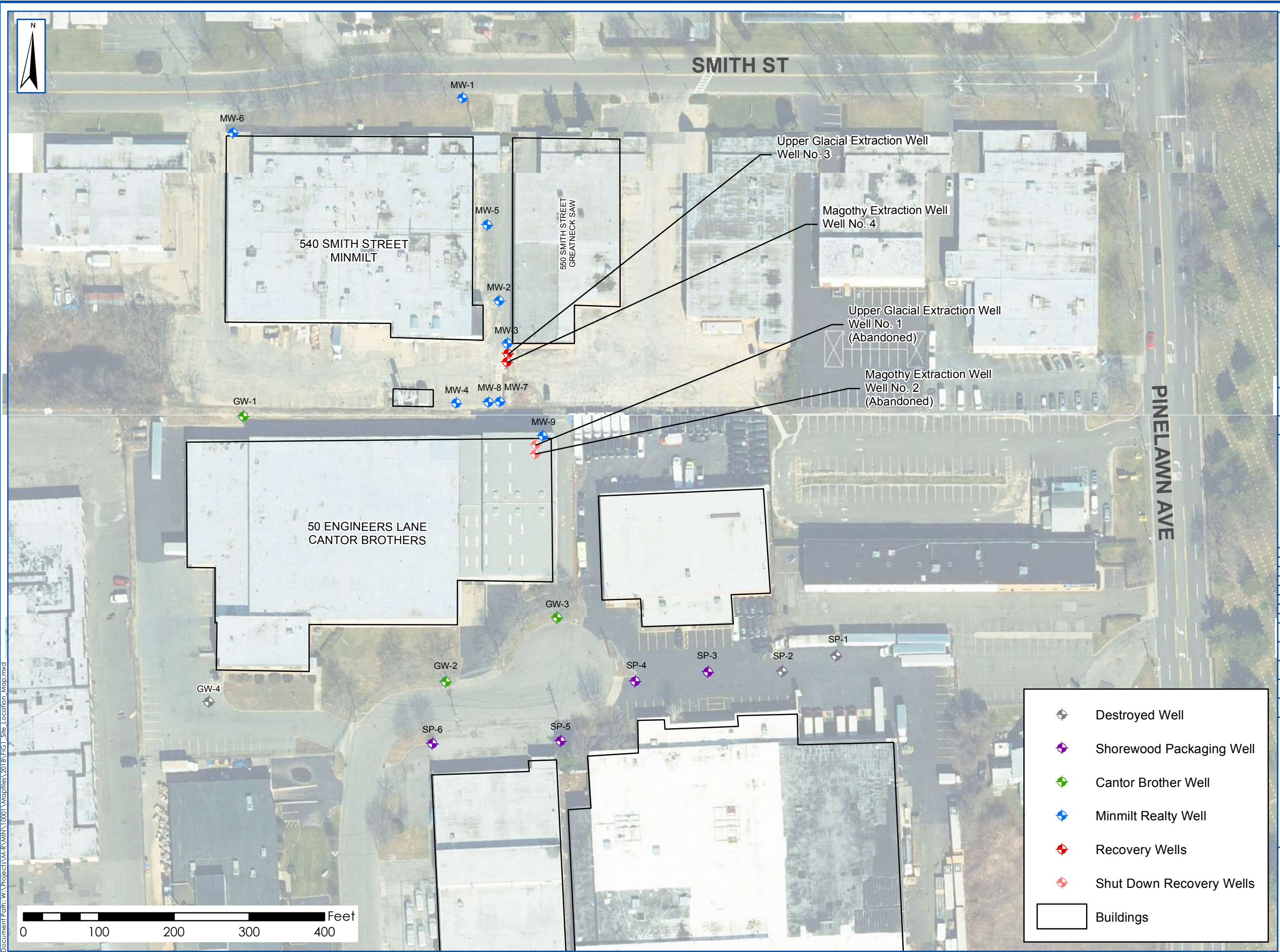
Groundwater monitoring data indicates that the groundwater extraction wells servicing the GWE&T system are located directly within the contaminant source area and the source of contamination was being effectively contained and removed by the system prior to, and after, the institution of the bioremediation program. During the institution of the bioremediation program, chlorinated solvent impact had continued to be contained to the site as impact has not appeared in monitoring wells located directly downgradient of the recovery wells.

The bioremediation program was effective at creating an anerobic environment in the source area and enhancing the degradation of PCE as a significant increase in PCE daughter compounds such as TCE and cis 1,2-DCE were observed in influent samples following its institution. In July 2022 the GWE&T system was reactivated on a full time basis. Following reactivation, TVOC concentrations decreased in August 2022 and again in September 2022; however, as discussed in section 3.2.2 of this PRR, the percentage of PCE compared to its daughter compounds increased. The increase in the percentage of PCE in influent samples when compared to its daughter compounds may indicate that the anaerobic environment created by the bioremediation program has been disrupted by the activation of the GWE&T system which is thwarting further degradation of PCE by creating an aerobic environment within source area. PWGC may evaluate alternative remedial approaches if they are believed to be instrumental in targeting PCE within the source area. Currently, influent results for TVOCs remain at concentrations greater than the GWE&T deactivation criteria outlined in the SMP and the GWE&T system remains active.

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 pulsed operation schedule and increased influent concentrations associated with the effects of the bioremediation program. PWGC recommends continuation of the biannual sampling schedule in accordance with the SMP.

The site-wide inspection and ongoing OM&M documented in this PRR show that the ongoing remedial activities included in the SMP continue to be effective in protecting public health and the environment.

# FIGURES



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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:	2/12/2019	Drawn by:	PH
Scale:	AS SHOWN	Approved by:	RB

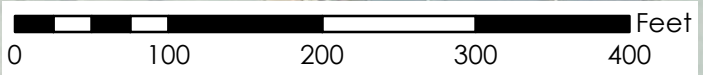
### SITE LOCATION MAP

540 SMITH ST  
EAST FARMINGDALE, NY

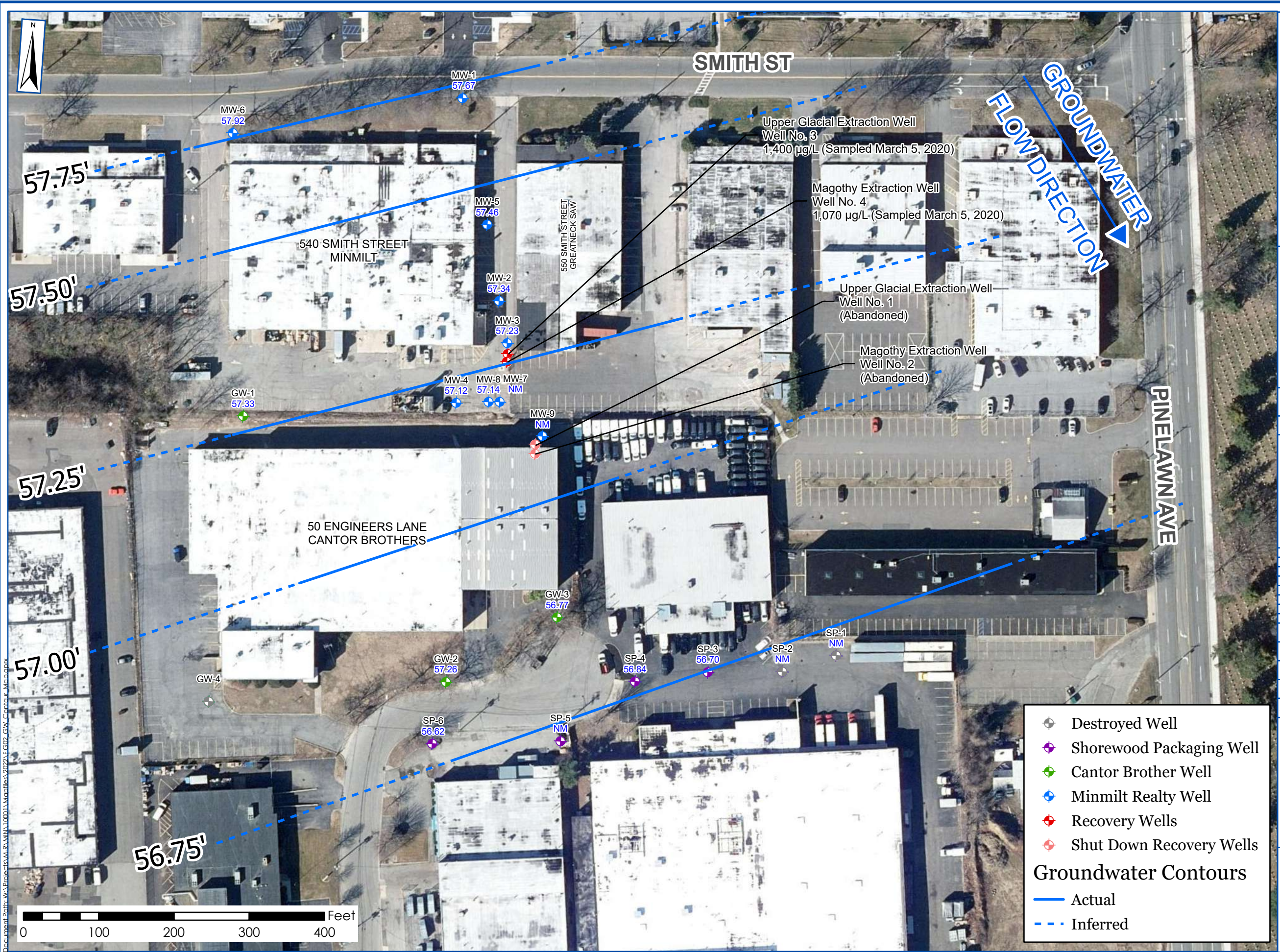
FIGURE NO:  
1

SHEET:

- Destroyed Well
- Shorewood Packaging Well
- Cantor Brother Well
- Minmilt Realty Well
- Recovery Wells
- Shut Down Recovery Wells
- Buildings



Document Path: W:\Projects\W-R\MIN1000\Mapfiles\2018\FIG1\_Site\_Location\_Map.mxd



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2019 PERIODIC REVIEW REPORT  
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 FARMINGDALE, NY 11735


REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	MIN1001	Designed by:	KC
Date:	11/15/2022	Drawn by:	FT
Scale:	AS SHOWN	Approved by:	RM

- ⊕ Destroyed Well
  - ◆ Shorewood Packaging Well
  - ◆ Cantor Brother Well
  - ◆ Minmilt Realty Well
  - ◆ Recovery Wells
  - ◆ Shut Down Recovery Wells
- Groundwater Contours**
- Actual
  - - - Inferred

**GROUNDWATER CONTOUR MAP**  
 540 SMITH ST  
 EAST FARMINGDALE, NY

FIGURE NO: 2  
 SHEET:

Document Path: \\va-projects\m\p\MIN1001\Mapfiles\2022\FIG02\_GW\_Contour\_Map.aprx

# TABLES

**TABLE 1**  
**July 2021 - September 2022**  
**Groundwater Elevation Results**

SOURCE	CASING ELEVATION	3rd Quarter 2021		4th Quarter 2021		1st Quarter 2022		2nd Quarter 2022		3rd Quarter 2022	
		September 16, 2021		December 20, 2021		March 21, 2022		June 9, 2022		September 20, 2022	
		DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE
MW-1	99.22	38.25	60.97	39.29	59.93	39.34	59.88	38.95	60.27	41.55	57.67
MW-2	98.80	38.16	60.64	39.20	59.60	39.27	59.53	38.87	59.93	41.46	57.34
MW-3	98.08	37.59	60.49	38.62	59.46	38.71	59.37	38.31	59.77	40.85	57.23
MW-4	97.44	38.09	59.35	38.16	59.28	38.07	59.37	37.68	59.76	40.32	57.12
MW-5	99.12	38.37	60.75	39.42	59.70	39.48	59.64	39.08	60.04	41.66	57.46
MW-6	99.28	38.26	61.02	39.31	59.97	39.36	59.92	38.96	60.32	41.52	57.76
MW-7	98.09	37.62	60.47	38.97	59.12	38.75	59.34	38.33	59.76	---	---
MW-8	97.87	37.45	60.42	38.49	59.38	38.56	59.31	38.10	59.77	40.73	57.14
MW-9	95.93	38.18	57.75	36.65	59.28	37.02	58.91	36.88	59.05	---	---
SP-3	96.30	36.27	60.03	37.23	59.07	37.30	59.00	36.24	60.06	39.60	56.70
SP-4	97.71	37.82	59.89	38.83	58.88	38.81	58.90	38.36	59.35	40.87	56.84
SP-5	96.72	---	---	---	---	---	---	---	---	---	---
SP-6	99.68	39.76	59.92	40.77	58.91	40.82	58.86	40.39	59.29	43.06	56.62
GW-1	99.70	39.15	60.55	40.17	59.53	40.22	59.48	40.01	59.69	42.37	57.33
GW-2	100.30	40.28	60.02	41.28	59.02	41.33	58.97	40.92	59.38	43.01	57.29
GW-3	100.55	40.48	60.07	41.51	59.04	41.56	58.99	41.12	59.43	43.78	56.77
SCDHS	NS	34.76	---	35.69	---	35.69	---	35.36	---	38.42	---
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 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





**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)
10/23/2019	37	137	1,370	37.85	1,382	38.19
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
2/13/2020	15	132	1,210	13.06	1,221	13.18
3/17/2020	33	130	1,170	27.36	1,177	27.52
4/27/2020	41	130	1,180	34.28	1,191	34.60
5/27/2020	30	128	1,240	25.96	1,257	26.31
6/22/2020	26	126	1,460	26.07	1,476	26.36
7/20/2020	28	128	1,690	33.02	1,708	33.37
8/17/2020	28	121	1,350	24.93	1,366	25.23
9/14/2020	28	116	1,300	23.02	1,316	23.30
10/7/2020	23	112	1,500	21.06	1,518	21.32
11/12/2020	36	121	1,850	43.93	1,959	46.52
12/14/2020	32	119	1,370	28.44	1,962	40.73
1/14/2021	31	108	1,240	22.63	2,018	36.83
3/2/2021	47	109	1,360	37.98	2,265	63.25
4/20/2021	49	108	1,320	38.08	2,917	84.15
6/23/2021	64	108	1,730	65.18	3,587	135.15
7/29/2021	100	109	1,370	81.40	3,058	181.69
8/17/2021	19	109	1,660	18.74	3,381	38.17
9/16/2021	30	112	1,450	26.56	3,413	62.51
10/25/2021	39	114	1,100	26.66	3,012	73.00
11/22/2021	28	115	1,110	19.48	2,906	51.01
12/20/2021	28	114	1,410	24.53	3,027	52.67
1/18/2022	29	114	1,030	18.56	3,064	55.22
2/17/2022	30	114	978	18.23	3,200	59.66
3/21/2022	32	114	1,010	20.08	3,457	68.74
4/25/2022	35	112	1,010	21.58	3,997	85.41
5/17/2022	22	114	596	8.15	3,566	48.75
6/9/2022	23	114	768	10.98	3,850	55.02
7/29/2022	50	112	1,070	32.66	3,124	95.37
8/22/2022	24	109	1,020	14.54	2,204	31.43
9/20/2022	29	72	919	10.46	1,572	17.89
<b>Total (kg)</b>				<b>18,414.15</b>		<b>19,902.74</b>
<b>Total (lb)</b>				<b>40,596.25</b>		<b>43,878.04</b>

**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	Upper Glacial	81	80	4300	173.08	4480	178.63
5/26/2000	Magothy	97	50	6500	165.23	6720	171.71
5/26/2000	Upper Glacial	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	63.29	2144	64.70
11/6/2007	Upper Glacial	90	95	2100	146.81	2117	147.34
2/6/2008	Magothy	92	53	2000	54.49	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	66.88
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
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

**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)
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	63.17	2944	64.06
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	7.51	1328	7.63
2/15/2013	Upper Glacial	51	34	3400	34.50	3423	34.76
2/15/2013	Magothy #4	51	60	1900	39.20	1916	39.49
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	87.45	8844	133.66
8/12/2015	Upper Glacial #3	16	75	8800	42.84	8844	57.85
8/12/2015	Magothy #4	107	46	1700	22.94	1719	23.19
12/30/2015	Upper Glacial	140	102	8100	657.75	8177	662.46
12/30/2015	Magothy #4	140	47	1900	64.56	1900	64.90
2/25/2016	Upper Glacial	57	88	3100	153.12	3100	154.17
2/25/2016	Magothy #4	57	49	3100	38.06	1313	24.46
5/16/2016	Upper Glacial	81	92	2800	119.83	2800	119.83
5/16/2016	Magothy #4	81	50	900	44.15	900	24.43
8/17/2016	Upper Glacial	93	82	2800	116.39	2800	116.39
8/17/2016	Magothy #4	93	46	1200	24.49	1213	24.64
11/22/2016	Upper Glacial	97	65	2150	85.06	2150	85.06
11/22/2016	Magothy #4	97	39	1140	24.13	1140	24.26
2/16/2017	Upper Glacial	86	72	2700	81.85	2700	81.85
2/16/2017	Magothy #4	86	38	1410	22.71	1410	22.71
5/19/2017	Upper Glacial	92	74	1130	71.07	1130	71.07
5/19/2017	Magothy #4	92	41	2520	40.40	2555	40.76
8/21/2017	Upper Glacial	94	68	2410	61.67	2410	61.67
8/21/2017	Magothy #4	94	41	1220	39.29	1220	39.65
11/17/2017	Upper Glacial	88	94	2640	98.97	2640	113.85
11/17/2017	Magothy #4	88	36	1330	22.02	1338	22.09
2/13/2018	Upper Glacial	88	92	1750	96.87	1777	97.46
2/13/2018	Magothy #4	88	37	960	20.32	966	20.45
5/17/2018	Upper Glacial	93	99	2030	94.85	2056	96.18
5/17/2018	Magothy #4	93	39	1090	20.27	1090	20.32
8/14/2018	Upper Glacial	89	96	872	67.58	894	68.70
8/14/2018	Magothy #4	89	38	1120	20.37	1127	20.44
11/19/2018	Upper Glacial	97	102	1190	55.60	1217	56.93
11/19/2018	Magothy #4	97	39	704	18.81	710	18.94
2/13/2019	Upper Glacial	86	75	1990	55.90	2012	56.76
2/13/2019	Magothy #4	86	24	1136	10.35	1136	10.38
8/19/2019	Upper Glacial	187	81	1600	148.21	1625	150.15
8/19/2019	Magothy #4	187	10	950	10.63	950	10.63
11/21/2019	Upper Glacial	94	72	1880	64.19	1899	65.00
11/21/2019	Magothy #4	94	74	1200	40.76	1200	40.76
3/17/2020	Upper Glacial	117	70	1400	73.22	1421	74.11
3/17/2020	Magothy #4	117	76	1070	55.01	1074	55.11
5/27/2020	Upper Glacial	71	60	1720	36.23	1756	36.89
5/27/2020	Magothy #4	71	74	843	27.39	848	27.52

**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)
8/17/2020	Upper Glacial	82	55	1870	44.13	1903	44.98
8/17/2020	Magothy #4	82	75	1100	32.57	1105	32.74
10/7/2020	Upper Glacial	51	45	1890	23.52	1922	23.93
10/7/2020	Magothy #4	51	71	1060	21.32	1060	21.37
11/12/2020	Upper Glacial	36	50	1750	17.86	1923	18.86
11/12/2020	Magothy #4	36	72	1300	16.67	1335	16.92
12/14/2020	Upper Glacial	32	50	1880	16.44	2729	20.29
12/14/2020	Magothy #4	32	72	901	12.31	1276	16.40
1/14/2021	Upper Glacial	31	46	1900	14.73	3017	22.33
1/14/2021	Magothy #4	31	63	808	9.94	1318	13.81
3/2/2021	Upper Glacial	47	50	1880	24.15	3334	40.68
3/2/2021	Magothy #4	47	61	1470	19.77	1942	25.47
4/20/2021	Upper Glacial	49	48	1500	20.83	3760	45.48
4/20/2021	Magothy #4	49	62	780	17.22	1851	31.41
7/29/2021	Upper Glacial	100	49	1340	41.27	3912	96.77
7/29/2021	Magothy #4	100	64	1370	46.57	2408	75.88
8/17/2021	Upper Glacial	19	51	1430	8.74	4120	20.81
8/17/2021	Magothy #4	19	61	1730	8.31	2690	14.34
9/16/2021	Upper Glacial	30	54	1430	14.70	4437	36.86
9/16/2021	Magothy #4	30	66	1060	10.08	2058	24.10
10/25/2021	Upper Glacial	39	51	1130	16.43	4037	43.09
10/25/2021	Magothy #4	39	65	1520	16.08	2479	33.76
11/22/2021	Upper Glacial	28	52	1100	11.90	4040	31.56
11/22/2021	Magothy #4	28	65	2330	15.57	3302	28.32
12/20/2021	Upper Glacial	28	51	1010	11.33	3860	30.25
12/20/2021	Magothy #4	28	64	1480	11.17	2364	23.31
1/18/2022	Upper Glacial	29	52	1040	12.08	4274	33.64
1/18/2022	Magothy #4	29	64	1730	12.84	2794	26.31
2/17/2022	Upper Glacial	30	52	689	10.92	4210	35.42
2/17/2022	Magothy #4	30	65	1080	13.55	2240	26.20
3/21/2022	Upper Glacial	32	51	763	10.07	4455	39.55
3/21/2022	Magothy #4	32	67	910	9.88	2124	24.44
4/25/2022	Upper Glacial	35	54	503	9.49	5244	47.81
4/25/2022	Magothy #4	35	65	1200	15.94	2812	32.81
5/17/2022	Upper Glacial	22	53	501	6.14	5296	29.67
5/17/2022	Magothy #4	22	66	716	9.68	2118	21.45
6/9/2022	Upper Glacial	23	54	514	6.58	5599	32.02
6/9/2022	Magothy #4	23	64	951	8.07	2414	19.17
7/29/2022	Upper Glacial	50	51	1320	17.03	5633	68.85
7/29/2022	Magothy #4	50	65	1090	23.12	1530	38.30
8/22/2022	Upper Glacial	24	40	938	5.33	3426	19.98
8/22/2022	Magothy #4	24	64	1420	15.70	1619	16.15
<b>Total (kg)</b>					<b>16159.05</b>		<b>16743.25</b>
<b>Total (lb)</b>					<b>35549.91</b>		<b>36835.15</b>





**TABLE 7**  
**September 20, 2022 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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	5
1,1-Dichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	5
Chloroform	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	NS	<1.0	<1.0	5
1,1,1-Trichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	5
Trichloroethylene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	5
Tetrachloroethene	µg/L	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	5
Benzene	µg/L	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	NS	<0.7	<0.7	0.4
1,2-Dichloroethene (total)	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS	<2.0	<2.0	5
Ethylbenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	5
Toluene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	5
Xylene (total)	µg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NS	<3.0	<3.0	5
<b>TVOC's</b>	µg/L	ND	ND	2.0	ND	ND	1.4	NS	ND	ND	

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	<1.0	<1.0	NS	<1.0	<1.0	<1.0	<1.0	<1.0	5
1,1-Dichloroethane	µg/L	<1.0	<1.0	NS	<1.0	<1.0	<1.0	<1.0	<1.0	5
Chloroform	µg/L	<1.0	<1.0	NS	<1.0	<1.0	<1.0	<1.0	<1.0	5
1,1,1-Trichloroethane	µg/L	<1.0	<1.0	NS	<1.0	<1.0	<1.0	<1.0	<1.0	5
Trichloroethylene	µg/L	<1.0	<1.0	NS	<1.0	<1.0	<1.0	<1.0	<1.0	5
Tetrachloroethene	µg/L	1.5	2.2	NS	<1.0	1.4	<1.0	<1.0	1.0	5
Benzene	µg/L	<0.7	<0.7	NS	<0.7	<0.7	<0.7	<0.7	<0.7	0.4
1,2-Dichloroethene (total)	µg/L	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0	5
Ethylbenzene	µg/L	<1.0	<1.0	NS	<1.0	<1.0	<1.0	<1.0	<1.0	5
Toluene	µg/L	<1.0	<1.0	NS	<1.0	<1.0	<1.0	<1.0	<1.0	5
Xylene (total)	µg/L	<3.0	<3.0	NS	<3.0	<3.0	<3.0	<3.0	<3.0	5
<b>TVOC's</b>	µg/L	1.5	2.2	NS	ND	1.4	ND	ND	1.0	

**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
11/12/20	NS	NS	NS	NS	NS	NS	NS	ND	2.5	NS
12/14/20	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS
01/14/21	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS
02/17/21	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS
03/23/21	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS
04/20/21	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS
06/23/21	NS	1.6	2	ND	ND	ND	1.4	ND	1.4	ND

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
06/23/21	ND	ND	ND	1.3	1.2	NS	ND
09/20/22	1.4	ND	ND	1.5	2.2	NS	ND

**Notes:**

NS = Not Sampled  
ND = Not Detected

\* Monitoring 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.

\* Monitoring 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.

\* Monitoring 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 10**  
**Groundwater Well Sample Results Summary for MW-8 and MW-9**  
**September 2021 to July 2022**

Parameters	Units	September 2021		October 2021		November 2021		December 2021		January 2022		NYSDEC G.W. Standards
		MW-8	MW-9	MW-8	MW-9	MW-8	MW-9	MW-8	MW-9	MW-8	MW-9	
TOC	mg/L	7.10	5.2	9.80	4.7	11.8	4.5	6.10	3.5	1.30	1.8	NS
1,1-Dichloroethene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
1,1-Dichloroethane	µg/L	<1.0	<1.0	<1.0	<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	5
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	5
Trichloroethylene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
Tetrachloroethene	µg/L	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
Benzene	µg/L	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	0.4
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	5
Ethylbenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
Vinyl Chloride	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2
Toluene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
Xylene (total)	µg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5
TVOC's	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Parameters	Units	February 2022		March 2022		April 2022		May 2022		June 2022		July 2022		NYSDEC G.W. Standards
		MW-8	MW-9	MW-8	MW-9	MW-8	MW-9	MW-8	MW-9	MW-8	MW-9	MW-8	MW-9	
TOC	mg/L	1.70	3.1	<1.0	3.9	4.80	1.3	5.00	<1.0	3.20	2.8	2.90	3.3	NS
1,1-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	5
1,1-Dichloroethane	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	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	5
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	5
Trichloroethylene	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	5
Tetrachloroethene	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	5
Benzene	µg/L	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	0.4
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	5
Ethylbenzene	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	5
Vinyl Chloride	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	2
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	5
Xylene (total)	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	5
TVOC's	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

NC - Not Collected

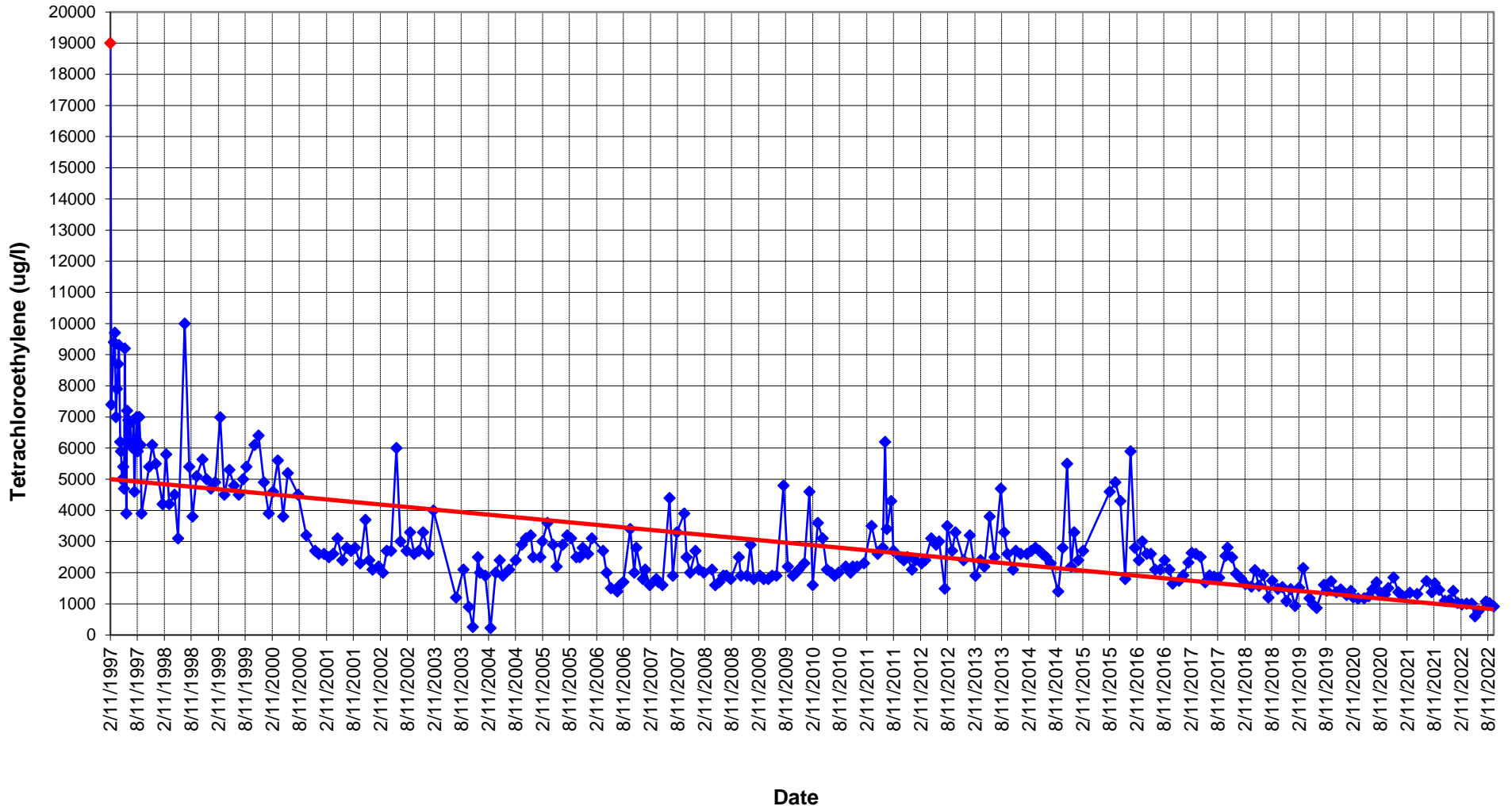
NS - No Standard

ND - Not Detected

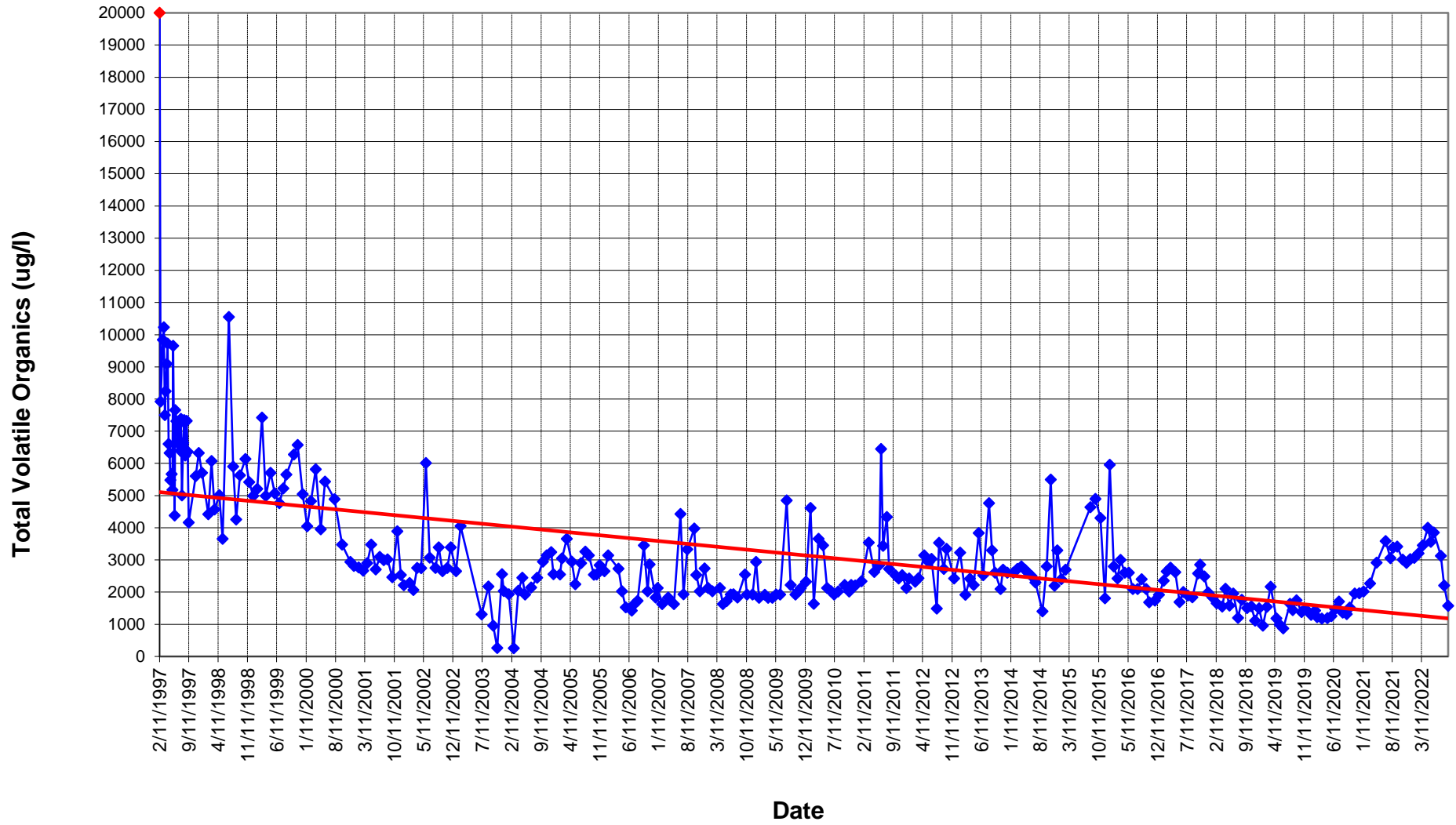
Highlighted text denotes exceedance of NYSDEC Groundwater Standards

# GRAPHS

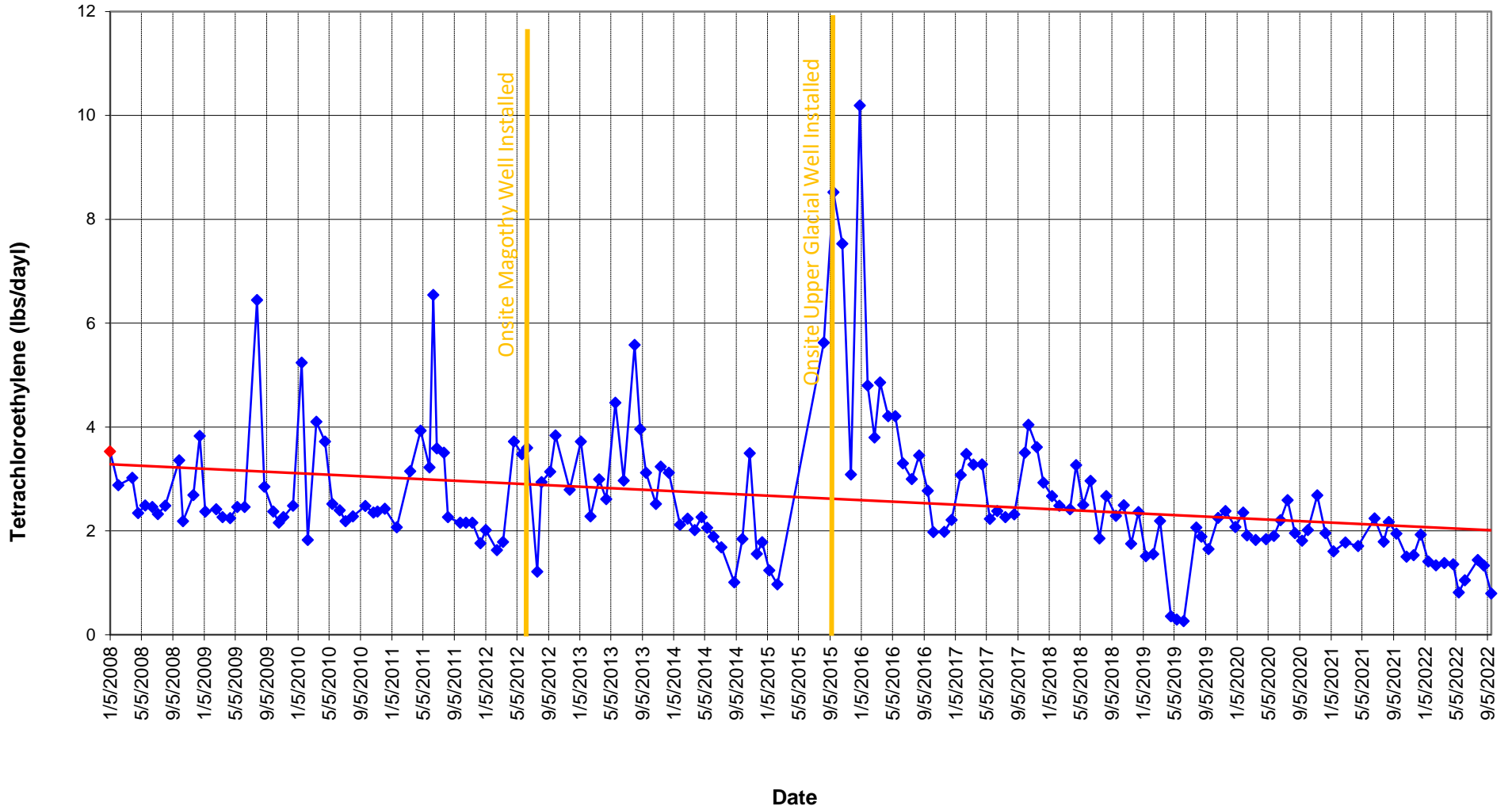
Graph 1  
Tetrachloroethylene Concentrations  
Combined RW System Influent



**Graph 2**  
**Total Volatile Organic Concentrations**  
**Combined RW System Influent**



**Graph 3**  
**Tetrachloroethylene Removal Rates**  
**January 2008 through September 2022**  
**Combined GW System Influent**





# APPENDIX A

**Annual Inspection Checklist**

MINMILT REALTY SITE  
540 SMITH STREET  
FARMINGDALE, NEW YORK

Date: 09/20/2022

---

Inspector (name/organization): Kaitlyn Crosby / 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

---

Kaitlyn Crosby



09/20/2022

Name

Signature

Date

# APPENDIX B

August 13, 2021

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

RE: Project: MIN1001/MINMILT 7/29  
Pace Project No.: 70182233

Dear Kaitlyn Crosby:

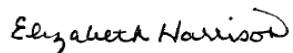
Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

Sample: <b>SYS-EFF</b>	Lab ID: <b>70182233001</b>	Collected: 07/29/21 10:15	Received: 07/29/21 10:44	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>5220</b>	ug/L	100	1	08/10/21 08:45	08/12/21 16:28	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/30/21 12:58	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/30/21 12:58	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/30/21 12:58	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/30/21 12:58	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/30/21 12:58	75-35-4	v3
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/30/21 12:58	107-06-2	
1,2-Dichloroethene (Total)	<b>20.9</b>	ug/L	2.0	1		07/30/21 12:58	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/30/21 12:58	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		07/30/21 12:58	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		07/30/21 12:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		07/30/21 12:58	108-10-1	
Acetone	<5.0	ug/L	5.0	1		07/30/21 12:58	67-64-1	IH
Benzene	<0.70	ug/L	0.70	1		07/30/21 12:58	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		07/30/21 12:58	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		07/30/21 12:58	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		07/30/21 12:58	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		07/30/21 12:58	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/30/21 12:58	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		07/30/21 12:58	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		07/30/21 12:58	75-00-3	v3
Chloroform	<1.0	ug/L	1.0	1		07/30/21 12:58	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		07/30/21 12:58	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		07/30/21 12:58	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		07/30/21 12:58	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		07/30/21 12:58	75-09-2	
Styrene	<1.0	ug/L	1.0	1		07/30/21 12:58	100-42-5	
Tetrachloroethene	<b>30.4</b>	ug/L	1.0	1		07/30/21 12:58	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		07/30/21 12:58	108-88-3	
Trichloroethene	<b>1.3</b>	ug/L	1.0	1		07/30/21 12:58	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		07/30/21 12:58	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		07/30/21 12:58	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/30/21 12:58	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/30/21 12:58	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	121	%	70-123	1		07/30/21 12:58	17060-07-0	v1
4-Bromofluorobenzene (S)	97	%	66-119	1		07/30/21 12:58	460-00-4	
Toluene-d8 (S)	105	%	82-121	1		07/30/21 12:58	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.1</b>	Std. Units	0.10	1		07/30/21 17:12		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

<b>Sample: SYS-EFF</b>		<b>Lab ID: 70182233001</b>		Collected: 07/29/21 10:15	Received: 07/29/21 10:44	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>13.0</b>	deg C	0.10	1		07/30/21 17:12		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.1</b>	mg/L	1.0	1		08/10/21 17:17	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

Sample: <b>SYS-INF</b>	Lab ID: <b>70182233002</b>	Collected: 07/29/21 10:20	Received: 07/29/21 10:44	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>15200</b>	ug/L	100	1	08/10/21 08:45	08/12/21 16:31	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/30/21 13:18	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/30/21 13:18	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/30/21 13:18	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/30/21 13:18	75-34-3	
1,1-Dichloroethene	<b>1.9</b>	ug/L	1.0	1		07/30/21 13:18	75-35-4	v3
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/30/21 13:18	107-06-2	
1,2-Dichloroethene (Total)	<b>1400</b>	ug/L	50.0	25		07/30/21 13:44	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/30/21 13:18	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		07/30/21 13:18	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		07/30/21 13:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		07/30/21 13:18	108-10-1	
Acetone	<5.0	ug/L	5.0	1		07/30/21 13:18	67-64-1	
Benzene	<0.70	ug/L	0.70	1		07/30/21 13:18	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		07/30/21 13:18	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		07/30/21 13:18	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		07/30/21 13:18	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		07/30/21 13:18	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/30/21 13:18	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		07/30/21 13:18	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		07/30/21 13:18	75-00-3	v3
Chloroform	<1.0	ug/L	1.0	1		07/30/21 13:18	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		07/30/21 13:18	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		07/30/21 13:18	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		07/30/21 13:18	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		07/30/21 13:18	75-09-2	
Styrene	<1.0	ug/L	1.0	1		07/30/21 13:18	100-42-5	
Tetrachloroethene	<b>1370</b>	ug/L	25.0	25		07/30/21 13:44	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		07/30/21 13:18	108-88-3	
Trichloroethene	<b>286</b>	ug/L	25.0	25		07/30/21 13:44	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		07/30/21 13:18	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		07/30/21 13:18	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/30/21 13:18	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/30/21 13:18	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	118	%	70-123	1		07/30/21 13:18	17060-07-0	v1
4-Bromofluorobenzene (S)	98	%	66-119	1		07/30/21 13:18	460-00-4	
Toluene-d8 (S)	112	%	82-121	1		07/30/21 13:18	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>5.7</b>	Std. Units	0.10	1		07/30/21 17:14		H3,H6, N3

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

<b>Sample: SYS-INF</b>		<b>Lab ID: 70182233002</b>		Collected: 07/29/21 10:20	Received: 07/29/21 10:44	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>12.8</b>	deg C	0.10	1		07/30/21 17:14		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.0</b>	mg/L	1.0	1		08/11/21 11:26	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

Sample: MAG	Lab ID: 70182233003	Collected: 07/29/21 10:25	Received: 07/29/21 10:44	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	6400	ug/L	100	1	08/10/21 08:45	08/12/21 16:33	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/30/21 14:04	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/30/21 14:04	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/30/21 14:04	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/30/21 14:04	75-34-3	
1,1-Dichloroethene	1.3	ug/L	1.0	1		07/30/21 14:04	75-35-4	v3
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/30/21 14:04	107-06-2	
1,2-Dichloroethene (Total)	894	ug/L	50.0	25		07/30/21 14:36	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/30/21 14:04	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		07/30/21 14:04	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		07/30/21 14:04	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		07/30/21 14:04	108-10-1	
Acetone	<5.0	ug/L	5.0	1		07/30/21 14:04	67-64-1	
Benzene	<0.70	ug/L	0.70	1		07/30/21 14:04	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		07/30/21 14:04	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		07/30/21 14:04	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		07/30/21 14:04	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		07/30/21 14:04	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/30/21 14:04	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		07/30/21 14:04	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		07/30/21 14:04	75-00-3	v3
Chloroform	<1.0	ug/L	1.0	1		07/30/21 14:04	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		07/30/21 14:04	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		07/30/21 14:04	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		07/30/21 14:04	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		07/30/21 14:04	75-09-2	
Styrene	<1.0	ug/L	1.0	1		07/30/21 14:04	100-42-5	
Tetrachloroethene	1370	ug/L	25.0	25		07/30/21 14:36	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		07/30/21 14:04	108-88-3	
Trichloroethene	143	ug/L	1.0	1		07/30/21 14:04	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		07/30/21 14:04	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		07/30/21 14:04	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/30/21 14:04	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/30/21 14:04	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	122	%	70-123	1		07/30/21 14:04	17060-07-0	v1
4-Bromofluorobenzene (S)	91	%	66-119	1		07/30/21 14:04	460-00-4	
Toluene-d8 (S)	97	%	82-121	1		07/30/21 14:04	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	5.6	Std. Units	0.10	1		07/30/21 17:16		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

<b>Sample: MAG</b>		<b>Lab ID: 70182233003</b>		Collected: 07/29/21 10:25	Received: 07/29/21 10:44	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>12.9</b>	deg C	0.10	1		07/30/21 17:16		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>1.2</b>	mg/L	1.0	1		08/11/21 11:40	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

Sample: UG	Lab ID: 70182233004	Collected: 07/29/21 10:30	Received: 07/29/21 10:44	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	22900	ug/L	100	1	08/10/21 08:45	08/12/21 16:40	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/30/21 14:56	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/30/21 14:56	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/30/21 14:56	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/30/21 14:56	75-34-3	
1,1-Dichloroethene	2.8	ug/L	1.0	1		07/30/21 14:56	75-35-4	v3
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/30/21 14:56	107-06-2	
1,2-Dichloroethene (Total)	2070	ug/L	50.0	25		07/30/21 15:24	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/30/21 14:56	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		07/30/21 14:56	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		07/30/21 14:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		07/30/21 14:56	108-10-1	
Acetone	<5.0	ug/L	5.0	1		07/30/21 14:56	67-64-1	
Benzene	<0.70	ug/L	0.70	1		07/30/21 14:56	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		07/30/21 14:56	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		07/30/21 14:56	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		07/30/21 14:56	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		07/30/21 14:56	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/30/21 14:56	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		07/30/21 14:56	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		07/30/21 14:56	75-00-3	v3
Chloroform	<1.0	ug/L	1.0	1		07/30/21 14:56	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		07/30/21 14:56	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		07/30/21 14:56	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		07/30/21 14:56	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		07/30/21 14:56	75-09-2	
Styrene	<1.0	ug/L	1.0	1		07/30/21 14:56	100-42-5	
Tetrachloroethene	1340	ug/L	25.0	25		07/30/21 15:24	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		07/30/21 14:56	108-88-3	
Trichloroethene	498	ug/L	25.0	25		07/30/21 15:24	79-01-6	
Vinyl chloride	1.1	ug/L	1.0	1		07/30/21 14:56	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		07/30/21 14:56	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/30/21 14:56	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/30/21 14:56	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	119	%	70-123	1		07/30/21 14:56	17060-07-0	v1
4-Bromofluorobenzene (S)	85	%	66-119	1		07/30/21 14:56	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		07/30/21 14:56	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	5.6	Std. Units	0.10	1		07/30/21 17:18		H1,H6, N3

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

<b>Sample: UG</b>		<b>Lab ID: 70182233004</b>		Collected: 07/29/21 10:30	Received: 07/29/21 10:44	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>13.3</b>	deg C	0.10	1		07/30/21 17:18		H1,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>7.7</b>	mg/L	1.0	1		08/11/21 11:55	7440-44-0	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 7/29  
Pace Project No.: 70182233

QC Batch: 221159 Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70182233001, 70182233002, 70182233003, 70182233004

METHOD BLANK: 1115041 Matrix: Water  
Associated Lab Samples: 70182233001, 70182233002, 70182233003, 70182233004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	08/11/21 13:22	

LABORATORY CONTROL SAMPLE: 1115042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	11400	91	85-115	

MATRIX SPIKE SAMPLE: 1115044

Parameter	Units	70182072001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1540	5000	6520	100	70-130	

MATRIX SPIKE SAMPLE: 1115046

Parameter	Units	70182141002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2620	5000	8170	111	70-130	

SAMPLE DUPLICATE: 1115043

Parameter	Units	70182072001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1540	1650	7	

SAMPLE DUPLICATE: 1115045

Parameter	Units	70182141002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	2620	2650	1	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

QC Batch:	219878	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70182233001, 70182233002, 70182233003, 70182233004

METHOD BLANK: 1108538 Matrix: Water  
Associated Lab Samples: 70182233001, 70182233002, 70182233003, 70182233004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	07/30/21 11:20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	07/30/21 11:20	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	07/30/21 11:20	
1,1-Dichloroethane	ug/L	<1.0	1.0	07/30/21 11:20	
1,1-Dichloroethene	ug/L	<1.0	1.0	07/30/21 11:20	v3
1,2-Dichloroethane	ug/L	<1.0	1.0	07/30/21 11:20	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	07/30/21 11:20	
1,2-Dichloropropane	ug/L	<1.0	1.0	07/30/21 11:20	
2-Butanone (MEK)	ug/L	<5.0	5.0	07/30/21 11:20	
2-Hexanone	ug/L	<5.0	5.0	07/30/21 11:20	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	07/30/21 11:20	
Acetone	ug/L	<5.0	5.0	07/30/21 11:20	
Benzene	ug/L	<0.70	0.70	07/30/21 11:20	
Bromodichloromethane	ug/L	<1.0	1.0	07/30/21 11:20	
Bromoform	ug/L	<1.0	1.0	07/30/21 11:20	
Bromomethane	ug/L	<1.0	1.0	07/30/21 11:20	
Carbon disulfide	ug/L	<1.0	1.0	07/30/21 11:20	
Carbon tetrachloride	ug/L	<1.0	1.0	07/30/21 11:20	
Chlorobenzene	ug/L	<1.0	1.0	07/30/21 11:20	
Chloroethane	ug/L	<1.0	1.0	07/30/21 11:20	v3
Chloroform	ug/L	<1.0	1.0	07/30/21 11:20	
Chloromethane	ug/L	<1.0	1.0	07/30/21 11:20	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	07/30/21 11:20	
Dibromochloromethane	ug/L	<1.0	1.0	07/30/21 11:20	
Ethylbenzene	ug/L	<1.0	1.0	07/30/21 11:20	
Methylene Chloride	ug/L	<1.0	1.0	07/30/21 11:20	
Styrene	ug/L	<1.0	1.0	07/30/21 11:20	
Tetrachloroethene	ug/L	<1.0	1.0	07/30/21 11:20	v3
Toluene	ug/L	<1.0	1.0	07/30/21 11:20	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	07/30/21 11:20	
Trichloroethene	ug/L	<1.0	1.0	07/30/21 11:20	
Vinyl chloride	ug/L	<1.0	1.0	07/30/21 11:20	
Xylene (Total)	ug/L	<3.0	3.0	07/30/21 11:20	
1,2-Dichloroethane-d4 (S)	%	120	70-123	07/30/21 11:20	v1
4-Bromofluorobenzene (S)	%	93	66-119	07/30/21 11:20	
Toluene-d8 (S)	%	95	82-121	07/30/21 11:20	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

LABORATORY CONTROL SAMPLE: 1108539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.5	95	62-121	
1,1,2,2-Tetrachloroethane	ug/L	50	50.4	101	75-122	
1,1,2-Trichloroethane	ug/L	50	49.1	98	80-122	
1,1-Dichloroethane	ug/L	50	52.3	105	68-127	
1,1-Dichloroethene	ug/L	50	39.3	79	65-123	v3
1,2-Dichloroethane	ug/L	50	57.3	115	73-128	
1,2-Dichloroethene (Total)	ug/L	100	95.3	95	72-124	
1,2-Dichloropropane	ug/L	50	51.3	103	79-117	
2-Butanone (MEK)	ug/L	50	46.3	93	28-169	
2-Hexanone	ug/L	50	43.3	87	59-138	
4-Methyl-2-pentanone (MIBK)	ug/L	50	51.6	103	70-129	
Acetone	ug/L	50	38.6	77	10-225	IH
Benzene	ug/L	50	48.1	96	73-121	
Bromodichloromethane	ug/L	50	51.5	103	74-127	
Bromoform	ug/L	50	41.1	82	55-128	
Bromomethane	ug/L	50	40.7	81	12-176	
Carbon disulfide	ug/L	50	43.6	87	57-129	
Carbon tetrachloride	ug/L	50	46.1	92	64-122	
Chlorobenzene	ug/L	50	43.0	86	76-117	
Chloroethane	ug/L	50	38.1	76	60-129	v3
Chloroform	ug/L	50	52.5	105	74-129	
Chloromethane	ug/L	50	40.3	81	43-126	
cis-1,3-Dichloropropene	ug/L	50	52.9	106	65-134	
Dibromochloromethane	ug/L	50	45.0	90	71-130	
Ethylbenzene	ug/L	50	43.3	87	70-120	
Methylene Chloride	ug/L	50	48.2	96	69-126	
Styrene	ug/L	50	41.6	83	80-121	
Tetrachloroethene	ug/L	50	37.8	76	65-120	v3
Toluene	ug/L	50	47.7	95	77-120	
trans-1,3-Dichloropropene	ug/L	50	53.1	106	54-139	
Trichloroethene	ug/L	50	46.3	93	73-116	
Vinyl chloride	ug/L	50	43.1	86	50-130	
Xylene (Total)	ug/L	150	129	86	73-120	
1,2-Dichloroethane-d4 (S)	%			121	70-123	v1
4-Bromofluorobenzene (S)	%			90	66-119	
Toluene-d8 (S)	%			99	82-121	

MATRIX SPIKE SAMPLE: 1108927

Parameter	Units	70182233001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	53.5	107	60-127	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	58.6	117	74-118	
1,1,2-Trichloroethane	ug/L	<1.0	50	54.3	109	80-120	
1,1-Dichloroethane	ug/L	<1.0	50	58.4	117	69-131	
1,1-Dichloroethene	ug/L	<1.0	50	41.3	83	70-129	v3

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

MATRIX SPIKE SAMPLE: 1108927

Parameter	Units	70182233001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	63.5	127	70-129	
1,2-Dichloroethene (Total)	ug/L	20.9	100	128	107	67-132	
1,2-Dichloropropane	ug/L	<1.0	50	55.8	112	77-118	
2-Butanone (MEK)	ug/L	<5.0	50	51.4	99	15-159	
2-Hexanone	ug/L	<5.0	50	47.7	95	60-127	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	56.7	113	66-129	
Acetone	ug/L	<5.0	50	39.6	79	10-189	IH
Benzene	ug/L	<0.70	50	53.1	106	74-126	
Bromodichloromethane	ug/L	<1.0	50	55.2	110	71-125	
Bromoform	ug/L	<1.0	50	44.8	90	40-128	
Bromomethane	ug/L	<1.0	50	29.9	60	10-179	
Carbon disulfide	ug/L	<1.0	50	40.3	81	60-131	
Carbon tetrachloride	ug/L	<1.0	50	53.3	107	64-125	
Chlorobenzene	ug/L	<1.0	50	48.3	97	72-121	
Chloroethane	ug/L	<1.0	50	38.1	76	54-137	v3
Chloroform	ug/L	<1.0	50	57.9	116	73-128	
Chloromethane	ug/L	<1.0	50	30.4	61	45-123	
cis-1,3-Dichloropropene	ug/L	<1.0	50	57.2	114	57-130	
Dibromochloromethane	ug/L	<1.0	50	48.1	96	59-132	
Ethylbenzene	ug/L	<1.0	50	49.7	99	67-126	
Methylene Chloride	ug/L	<1.0	50	51.4	103	65-129	
Styrene	ug/L	<1.0	50	49.8	100	74-121	
Tetrachloroethene	ug/L	30.4	50	77.7	95	59-131	v3
Toluene	ug/L	<1.0	50	53.2	106	76-124	
trans-1,3-Dichloropropene	ug/L	<1.0	50	56.4	113	42-140	
Trichloroethene	ug/L	1.3	50	53.4	104	78-119	
Vinyl chloride	ug/L	<1.0	50	35.2	70	45-141	
Xylene (Total)	ug/L	<3.0	150	148	99	69-125	
1,2-Dichloroethane-d4 (S)	%				122	70-123	v1
4-Bromofluorobenzene (S)	%				91	66-119	
Toluene-d8 (S)	%				99	82-121	

SAMPLE DUPLICATE: 1108928

Parameter	Units	70182233001 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		v3
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	20.9	22.1	5	
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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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

SAMPLE DUPLICATE: 1108928

Parameter	Units	70182233001 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	<0.70	<0.70		
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		v3
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	30.4	29.0	5	v3
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	1.3	1.4	12	
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	121	123		v1
4-Bromofluorobenzene (S)	%	97	97		
Toluene-d8 (S)	%	105	97		

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

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QC Batch:	219919	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70182233001, 70182233002, 70182233003, 70182233004

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SAMPLE DUPLICATE: 1108751

Parameter	Units	70182232001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.5	6.5		0 H3,H6,N3
Temperature, Water (C)	deg C	16.3	16.3		0 H3,H6

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 7/29  
Pace Project No.: 70182233

QC Batch: 221174      Analysis Method: SM22 5310B  
QC Batch Method: SM22 5310B      Analysis Description: 5310B TOC  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70182233001, 70182233002, 70182233003, 70182233004

METHOD BLANK: 1115083      Matrix: Water  
Associated Lab Samples: 70182233001, 70182233002, 70182233003, 70182233004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	08/10/21 14:01	

LABORATORY CONTROL SAMPLE: 1115084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.1	101	85-115	

MATRIX SPIKE SAMPLE: 1115086

Parameter	Units	70182616002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L		4.7	10	15.1	104	75-125

SAMPLE DUPLICATE: 1115085

Parameter	Units	70182616001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	2.1	2.1	1	

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## QUALIFIERS

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

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### 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

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.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN1001/MINMILT 7/29

Pace Project No.: 70182233

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70182233001	SYS-EFF	EPA 200.7	221159	EPA 200.7	221296
70182233002	SYS-INF	EPA 200.7	221159	EPA 200.7	221296
70182233003	MAG	EPA 200.7	221159	EPA 200.7	221296
70182233004	UG	EPA 200.7	221159	EPA 200.7	221296
70182233001	SYS-EFF	EPA 8260C/5030C	219878		
70182233002	SYS-INF	EPA 8260C/5030C	219878		
70182233003	MAG	EPA 8260C/5030C	219878		
70182233004	UG	EPA 8260C/5030C	219878		
70182233001	SYS-EFF	SM22 4500-H+B	219919		
70182233002	SYS-INF	SM22 4500-H+B	219919		
70182233003	MAG	SM22 4500-H+B	219919		
70182233004	UG	SM22 4500-H+B	219919		
70182233001	SYS-EFF	SM22 5310B	221174		
70182233002	SYS-INF	SM22 5310B	221174		
70182233003	MAG	SM22 5310B	221174		
70182233004	UG	SM22 5310B	221174		

### REPORT OF LABORATORY ANALYSIS

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WO#: 70182233



**CHAIN-OF-CUSTODY Analytical Request Document**  
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: PWGC  
 Address: 630 Johnson Ave, Bohemia, NY  
 Report To: Kaitlyn Crosby  
 Copy To: Kaitlyn Crosby

Billing information:  
 Email To: Krosby@pugrasseri.com  
 Site Collection Info/Address: 540 Smith Street

Customer Project Name/Number: M101001/MinMil1  
 Phone: 631-589-6353  
 Email: Krosby@pugrasseri.com  
 State: NY / County/City: Farmingdale / JPT | JMT | JCT | DRET  
 Site/Facility ID #: [ ] Yes [ ] No  
 Compliance Monitoring?  
 DW PWS ID #: [ ] Yes [ ] No  
 DW Location Code: [ ] Yes [ ] No  
 Immediately Packed on Ice: [ ] Yes [ ] No  
 Field Filtered (if applicable): [ ] Yes [ ] No  
 Analysis: [ ] Yes [ ] No  
 Turnaround Date Required: Standard

\* 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)		Res CI	# of Cms	Container Type: Plastic (P) or Glass (G)
			Date	Time			
SYS-EFF	GW	Grab	7-29-21	10:15	B	P/G	X VOC
SYS-INF				10:20			X Iron
MAG				10:25			X PH
UG				10:30			X TOC

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: Wet  
 Packing Material Used: BB  
 Radchem sample(s) screened (<500 cpm): Y N NA  
 Received by/Company: (Signature) [Signature] 7-29-21 10:41  
 Received by/Company: (Signature) [Signature] 7-29-21 10:41  
 Received by/Company: (Signature) [Signature]

Pace Workorder Number or  
 LAB USE ONLY  
 Object Manager: EMP  
 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	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
Custody Signatures Present	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
Collector Signature Present	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
Bottles Intact	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
Correct Bottles	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
Sufficient Volume	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
Samples Received on Ice	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
VOA - Headspace Acceptable	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
USDA Regulated Soils	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
Samples in Holding Time	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
Residual Chlorine Present	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
Cl Strips:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
Sample pH Acceptable	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
pH Strips: H1005486	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N NA
Sulfide Present	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N NA
Lead Acetate Strips:	
LAB USE ONLY:	
Lab Sample # / Comments:	

LAB Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: 1101  
 Cooler 1 Temp Upon Receipt: 5.0C  
 Cooler 1 Therm Corr. Factor: 0C  
 Cooler 1 Corrected Temp: 5.0C  
 Comments:  
 Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): YES / NO  
 Pages: 1 of 1

September 16, 2021

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

RE: Project: MIN1001/MINMILT 8/17  
Pace Project No.: 70184308

Dear Kaitlyn Crosby:

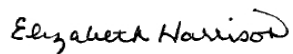
Enclosed are the analytical results for sample(s) received by the laboratory on August 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace Analytical Services - Greensburg

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

Sincerely,



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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

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### **Pace Analytical Services Pennsylvania**

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70184308001	SYS-EFF	EPA 200.7	HMH	1	PACE-MV
		EPA 8260C/5030C	KGG	36	PACE-MV
		SM22 4500-H+B	JWT	2	PACE-MV
		SM 5310C-2011	SAC	1	PASI-PA
70184308002	SYS-INF	EPA 200.7	HMH	1	PACE-MV
		EPA 8260C/5030C	KGG	36	PACE-MV
		SM22 4500-H+B	JWT	2	PACE-MV
		SM 5310C-2011	SAC	1	PASI-PA
70184308003	UG	EPA 200.7	HMH	1	PACE-MV
		EPA 8260C/5030C	KGG	36	PACE-MV
		SM22 4500-H+B	JWT	2	PACE-MV
		SM 5310C-2011	SAC	1	PASI-PA
70184308004	MAG	EPA 200.7	HMH	1	PACE-MV
		EPA 8260C/5030C	KGG	36	PACE-MV
		SM22 4500-H+B	JWT	2	PACE-MV
		SM 5310C-2011	SAC	1	PASI-PA

PACE-MV = Pace Analytical Services - Melville

PASI-PA = Pace Analytical Services - Greensburg

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

Sample: SYS-EFF	Lab ID: 70184308001	Collected: 08/17/21 10:15	Received: 08/17/21 10:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	4570	ug/L	100	1	08/26/21 15:00	08/27/21 10:42	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/23/21 18:22	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/23/21 18:22	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/23/21 18:22	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/23/21 18:22	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		08/23/21 18:22	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/23/21 18:22	107-06-2	
1,2-Dichloroethene (Total)	18.3	ug/L	2.0	1		08/23/21 18:22	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/23/21 18:22	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		08/23/21 18:22	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		08/23/21 18:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		08/23/21 18:22	108-10-1	
Acetone	<5.0	ug/L	5.0	1		08/23/21 18:22	67-64-1	
Benzene	<0.70	ug/L	0.70	1		08/23/21 18:22	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		08/23/21 18:22	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		08/23/21 18:22	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		08/23/21 18:22	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		08/23/21 18:22	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/23/21 18:22	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		08/23/21 18:22	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		08/23/21 18:22	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		08/23/21 18:22	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		08/23/21 18:22	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		08/23/21 18:22	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		08/23/21 18:22	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		08/23/21 18:22	75-09-2	
Styrene	<1.0	ug/L	1.0	1		08/23/21 18:22	100-42-5	
Tetrachloroethene	38.0	ug/L	1.0	1		08/23/21 18:22	127-18-4	
Toluene	<1.0	ug/L	1.0	1		08/23/21 18:22	108-88-3	
Trichloroethene	1.1	ug/L	1.0	1		08/23/21 18:22	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		08/23/21 18:22	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		08/23/21 18:22	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/23/21 18:22	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/23/21 18:22	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	115	%	70-123	1		08/23/21 18:22	17060-07-0	
4-Bromofluorobenzene (S)	98	%	66-119	1		08/23/21 18:22	460-00-4	
Toluene-d8 (S)	99	%	82-121	1		08/23/21 18:22	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	6.2	Std. Units	0.10	1		08/18/21 11:47		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

<b>Sample: SYS-EFF</b>		<b>Lab ID: 70184308001</b>		Collected: 08/17/21 10:15	Received: 08/17/21 10:54	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>13.2</b>	deg C	0.10	1		08/18/21 11:47		D6,H3, H6
<b>5310C TOC</b>		Analytical Method: SM 5310C-2011 Pace Analytical Services - Greensburg						
Total Organic Carbon	<b>4.3</b>	mg/L	1.0	1		09/15/21 21:28	7440-44-0	H1

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

Sample: <b>SYS-INF</b>	Lab ID: <b>70184308002</b>	Collected: 08/17/21 10:20	Received: 08/17/21 10:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>12600</b>	ug/L	100	1	08/26/21 15:00	08/27/21 10:54	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/23/21 19:18	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/23/21 19:18	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/23/21 19:18	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/23/21 19:18	75-34-3	
1,1-Dichloroethene	<b>2.2</b>	ug/L	1.0	1		08/23/21 19:18	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/23/21 19:18	107-06-2	
1,2-Dichloroethene (Total)	<b>1440</b>	ug/L	40.0	20		08/23/21 21:11	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/23/21 19:18	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		08/23/21 19:18	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		08/23/21 19:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		08/23/21 19:18	108-10-1	
Acetone	<5.0	ug/L	5.0	1		08/23/21 19:18	67-64-1	
Benzene	<0.70	ug/L	0.70	1		08/23/21 19:18	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		08/23/21 19:18	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		08/23/21 19:18	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		08/23/21 19:18	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		08/23/21 19:18	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/23/21 19:18	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		08/23/21 19:18	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		08/23/21 19:18	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		08/23/21 19:18	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		08/23/21 19:18	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		08/23/21 19:18	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		08/23/21 19:18	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		08/23/21 19:18	75-09-2	
Styrene	<1.0	ug/L	1.0	1		08/23/21 19:18	100-42-5	
Tetrachloroethene	<b>1660</b>	ug/L	20.0	20		08/23/21 21:11	127-18-4	
Toluene	<1.0	ug/L	1.0	1		08/23/21 19:18	108-88-3	
Trichloroethene	<b>279</b>	ug/L	20.0	20		08/23/21 21:11	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		08/23/21 19:18	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		08/23/21 19:18	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/23/21 19:18	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/23/21 19:18	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	116	%	70-123	1		08/23/21 19:18	17060-07-0	
4-Bromofluorobenzene (S)	94	%	66-119	1		08/23/21 19:18	460-00-4	
Toluene-d8 (S)	95	%	82-121	1		08/23/21 19:18	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>5.7</b>	Std. Units	0.10	1		08/18/21 11:47		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

<b>Sample: SYS-INF</b>		<b>Lab ID: 70184308002</b>		Collected: 08/17/21 10:20	Received: 08/17/21 10:54	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>13.5</b>	deg C	0.10	1		08/18/21 11:47		H3,H6
<b>5310C TOC</b>		Analytical Method: SM 5310C-2011 Pace Analytical Services - Greensburg						
Total Organic Carbon	<b>5.3</b>	mg/L	5.0	5		09/15/21 21:44	7440-44-0	D3,H1

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

Sample: UG	Lab ID: 70184308003	Collected: 08/17/21 10:30	Received: 08/17/21 10:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	22200	ug/L	100	1	08/26/21 15:00	08/27/21 11:14	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/23/21 18:41	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/23/21 18:41	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/23/21 18:41	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/23/21 18:41	75-34-3	
1,1-Dichloroethene	3.2	ug/L	1.0	1		08/23/21 18:41	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/23/21 18:41	107-06-2	
1,2-Dichloroethene (Total)	2210	ug/L	40.0	20		08/23/21 21:29	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/23/21 18:41	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		08/23/21 18:41	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		08/23/21 18:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		08/23/21 18:41	108-10-1	
Acetone	<5.0	ug/L	5.0	1		08/23/21 18:41	67-64-1	
Benzene	<0.70	ug/L	0.70	1		08/23/21 18:41	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		08/23/21 18:41	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		08/23/21 18:41	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		08/23/21 18:41	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		08/23/21 18:41	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/23/21 18:41	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		08/23/21 18:41	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		08/23/21 18:41	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		08/23/21 18:41	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		08/23/21 18:41	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		08/23/21 18:41	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		08/23/21 18:41	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		08/23/21 18:41	75-09-2	
Styrene	<1.0	ug/L	1.0	1		08/23/21 18:41	100-42-5	
Tetrachloroethene	1430	ug/L	20.0	20		08/23/21 21:29	127-18-4	
Toluene	<1.0	ug/L	1.0	1		08/23/21 18:41	108-88-3	
Trichloroethene	475	ug/L	20.0	20		08/23/21 21:29	79-01-6	
Vinyl chloride	1.7	ug/L	1.0	1		08/23/21 18:41	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		08/23/21 18:41	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/23/21 18:41	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/23/21 18:41	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	117	%	70-123	1		08/23/21 18:41	17060-07-0	
4-Bromofluorobenzene (S)	96	%	66-119	1		08/23/21 18:41	460-00-4	
Toluene-d8 (S)	96	%	82-121	1		08/23/21 18:41	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	5.6	Std. Units	0.10	1		08/18/21 11:48		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

<b>Sample: UG</b>		<b>Lab ID: 70184308003</b>		Collected: 08/17/21 10:30	Received: 08/17/21 10:54	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>14.9</b>	deg C	0.10	1		08/18/21 11:48		H3,H6
<b>5310C TOC</b>		Analytical Method: SM 5310C-2011 Pace Analytical Services - Greensburg						
Total Organic Carbon	<b>9.0</b>	mg/L	5.0	5		09/15/21 22:00	7440-44-0	D3,H1

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

Sample: <b>MAG</b>		Lab ID: <b>70184308004</b>	Collected: 08/17/21 10:25	Received: 08/17/21 10:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>5750</b>	ug/L	100	1	08/26/21 15:00	08/27/21 11:16	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/23/21 19:00	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/23/21 19:00	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/23/21 19:00	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/23/21 19:00	75-34-3	
1,1-Dichloroethene	<b>1.3</b>	ug/L	1.0	1		08/23/21 19:00	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/23/21 19:00	107-06-2	
1,2-Dichloroethene (Total)	<b>840</b>	ug/L	40.0	20		08/24/21 13:36	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/23/21 19:00	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		08/23/21 19:00	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		08/23/21 19:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		08/23/21 19:00	108-10-1	
Acetone	<5.0	ug/L	5.0	1		08/23/21 19:00	67-64-1	
Benzene	<0.70	ug/L	0.70	1		08/23/21 19:00	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		08/23/21 19:00	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		08/23/21 19:00	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		08/23/21 19:00	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		08/23/21 19:00	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/23/21 19:00	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		08/23/21 19:00	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		08/23/21 19:00	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		08/23/21 19:00	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		08/23/21 19:00	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		08/23/21 19:00	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		08/23/21 19:00	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		08/23/21 19:00	75-09-2	
Styrene	<1.0	ug/L	1.0	1		08/23/21 19:00	100-42-5	
Tetrachloroethene	<b>1730</b>	ug/L	20.0	20		08/24/21 13:36	127-18-4	
Toluene	<1.0	ug/L	1.0	1		08/23/21 19:00	108-88-3	
Trichloroethene	<b>119</b>	ug/L	1.0	1		08/23/21 19:00	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		08/23/21 19:00	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		08/23/21 19:00	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/23/21 19:00	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/23/21 19:00	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	117	%	70-123	1		08/23/21 19:00	17060-07-0	
4-Bromofluorobenzene (S)	97	%	66-119	1		08/23/21 19:00	460-00-4	
Toluene-d8 (S)	97	%	82-121	1		08/23/21 19:00	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>5.7</b>	Std. Units	0.10	1		08/18/21 11:48		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

<b>Sample: MAG</b>		<b>Lab ID: 70184308004</b>		Collected: 08/17/21 10:25	Received: 08/17/21 10:54	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>14.2</b>	deg C	0.10	1		08/18/21 11:48		H3,H6
<b>5310C TOC</b>		Analytical Method: SM 5310C-2011 Pace Analytical Services - Greensburg						
Total Organic Carbon	<b>&lt;5.0</b>	mg/L	5.0	5		09/15/21 22:17	7440-44-0	D3,H1

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

QC Batch: 223357	Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7	Analysis Description: 200.7 Metals, Total
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70184308001, 70184308002, 70184308003, 70184308004

METHOD BLANK: 1125889 Matrix: Water  
Associated Lab Samples: 70184308001, 70184308002, 70184308003, 70184308004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	08/27/21 10:38	

LABORATORY CONTROL SAMPLE: 1125890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12300	99	85-115	

MATRIX SPIKE SAMPLE: 1125892

Parameter	Units	70184308001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	4570	12500	16700	97	70-130	

MATRIX SPIKE SAMPLE: 1125894

Parameter	Units	70184308002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12600	12500	25500	103	70-130	

SAMPLE DUPLICATE: 1125891

Parameter	Units	70184308001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	4570	4620	1	

SAMPLE DUPLICATE: 1125893

Parameter	Units	70184308002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	12600	13000	3	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

QC Batch:	222953	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70184308001, 70184308002, 70184308003, 70184308004

METHOD BLANK: 1124153 Matrix: Water

Associated Lab Samples: 70184308001, 70184308002, 70184308003, 70184308004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	08/23/21 13:41	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	08/23/21 13:41	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	08/23/21 13:41	IC
1,1-Dichloroethane	ug/L	<1.0	1.0	08/23/21 13:41	
1,1-Dichloroethene	ug/L	<1.0	1.0	08/23/21 13:41	
1,2-Dichloroethane	ug/L	<1.0	1.0	08/23/21 13:41	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	08/23/21 13:41	
1,2-Dichloropropane	ug/L	<1.0	1.0	08/23/21 13:41	
2-Butanone (MEK)	ug/L	<5.0	5.0	08/23/21 13:41	
2-Hexanone	ug/L	<5.0	5.0	08/23/21 13:41	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	08/23/21 13:41	
Acetone	ug/L	<5.0	5.0	08/23/21 13:41	
Benzene	ug/L	<0.70	0.70	08/23/21 13:41	
Bromodichloromethane	ug/L	<1.0	1.0	08/23/21 13:41	
Bromoform	ug/L	<1.0	1.0	08/23/21 13:41	
Bromomethane	ug/L	<1.0	1.0	08/23/21 13:41	
Carbon disulfide	ug/L	<1.0	1.0	08/23/21 13:41	
Carbon tetrachloride	ug/L	<1.0	1.0	08/23/21 13:41	
Chlorobenzene	ug/L	<1.0	1.0	08/23/21 13:41	
Chloroethane	ug/L	<1.0	1.0	08/23/21 13:41	
Chloroform	ug/L	<1.0	1.0	08/23/21 13:41	
Chloromethane	ug/L	<1.0	1.0	08/23/21 13:41	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	08/23/21 13:41	
Dibromochloromethane	ug/L	<1.0	1.0	08/23/21 13:41	
Ethylbenzene	ug/L	<1.0	1.0	08/23/21 13:41	
Methylene Chloride	ug/L	<1.0	1.0	08/23/21 13:41	
Styrene	ug/L	<1.0	1.0	08/23/21 13:41	
Tetrachloroethene	ug/L	<1.0	1.0	08/23/21 13:41	
Toluene	ug/L	<1.0	1.0	08/23/21 13:41	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	08/23/21 13:41	
Trichloroethene	ug/L	<1.0	1.0	08/23/21 13:41	
Vinyl chloride	ug/L	<1.0	1.0	08/23/21 13:41	
Xylene (Total)	ug/L	<3.0	3.0	08/23/21 13:41	
1,2-Dichloroethane-d4 (S)	%	110	70-123	08/23/21 13:41	
4-Bromofluorobenzene (S)	%	98	66-119	08/23/21 13:41	
Toluene-d8 (S)	%	98	82-121	08/23/21 13:41	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

LABORATORY CONTROL SAMPLE: 1124154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.7	89	62-121	
1,1,2,2-Tetrachloroethane	ug/L	50	49.0	98	75-122	
1,1,2-Trichloroethane	ug/L	50	53.8	108	80-122	IC
1,1-Dichloroethane	ug/L	50	48.1	96	68-127	
1,1-Dichloroethene	ug/L	50	45.9	92	65-123	
1,2-Dichloroethane	ug/L	50	54.0	108	73-128	
1,2-Dichloroethene (Total)	ug/L	100	91.6	92	72-124	
1,2-Dichloropropane	ug/L	50	51.8	104	79-117	
2-Butanone (MEK)	ug/L	50	46.1	92	28-169	
2-Hexanone	ug/L	50	50.8	102	59-138	v1
4-Methyl-2-pentanone (MIBK)	ug/L	50	56.8	114	70-129	
Acetone	ug/L	50	39.3	79	10-225	IH,v1
Benzene	ug/L	50	49.0	98	73-121	
Bromodichloromethane	ug/L	50	51.1	102	74-127	
Bromoform	ug/L	50	49.0	98	55-128	
Bromomethane	ug/L	50	36.8	74	12-176	
Carbon disulfide	ug/L	50	43.8	88	57-129	
Carbon tetrachloride	ug/L	50	46.4	93	64-122	
Chlorobenzene	ug/L	50	47.8	96	76-117	
Chloroethane	ug/L	50	42.5	85	60-129	
Chloroform	ug/L	50	48.2	96	74-129	
Chloromethane	ug/L	50	33.3	67	43-126	
cis-1,3-Dichloropropene	ug/L	50	54.6	109	65-134	
Dibromochloromethane	ug/L	50	47.1	94	71-130	
Ethylbenzene	ug/L	50	49.0	98	70-120	
Methylene Chloride	ug/L	50	46.3	93	69-126	
Styrene	ug/L	50	51.0	102	80-121	
Tetrachloroethene	ug/L	50	44.7	89	65-120	
Toluene	ug/L	50	50.0	100	77-120	
trans-1,3-Dichloropropene	ug/L	50	55.8	112	54-139	
Trichloroethene	ug/L	50	46.9	94	73-116	
Vinyl chloride	ug/L	50	38.0	76	50-130	
Xylene (Total)	ug/L	150	153	102	73-120	
1,2-Dichloroethane-d4 (S)	%			109	70-123	
4-Bromofluorobenzene (S)	%			105	66-119	
Toluene-d8 (S)	%			98	82-121	

MATRIX SPIKE SAMPLE: 1124510

Parameter	Units	70184308001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	45.4	91	60-127	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	46.2	92	74-118	
1,1,2-Trichloroethane	ug/L	<1.0	50	48.5	97	80-120	IC
1,1-Dichloroethane	ug/L	<1.0	50	48.6	97	69-131	
1,1-Dichloroethene	ug/L	<1.0	50	46.9	94	70-129	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

MATRIX SPIKE SAMPLE: 1124510

Parameter	Units	70184308001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	52.4	105	70-129	
1,2-Dichloroethene (Total)	ug/L	18.3	100	108	90	67-132	
1,2-Dichloropropane	ug/L	<1.0	50	48.9	98	77-118	
2-Butanone (MEK)	ug/L	<5.0	50	43.5	87	15-159	
2-Hexanone	ug/L	<5.0	50	49.4	99	60-127	v1
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	54.1	108	66-129	
Acetone	ug/L	<5.0	50	38.5	77	10-189	IH,v1
Benzene	ug/L	<0.70	50	48.4	97	74-126	
Bromodichloromethane	ug/L	<1.0	50	47.7	95	71-125	
Bromoform	ug/L	<1.0	50	43.8	88	40-128	
Bromomethane	ug/L	<1.0	50	37.9	76	10-179	
Carbon disulfide	ug/L	<1.0	50	44.8	90	60-131	
Carbon tetrachloride	ug/L	<1.0	50	47.2	94	64-125	
Chlorobenzene	ug/L	<1.0	50	45.4	91	72-121	
Chloroethane	ug/L	<1.0	50	44.2	88	54-137	
Chloroform	ug/L	<1.0	50	47.5	95	73-128	
Chloromethane	ug/L	<1.0	50	35.9	72	45-123	
cis-1,3-Dichloropropene	ug/L	<1.0	50	49.8	100	57-130	
Dibromochloromethane	ug/L	<1.0	50	44.3	89	59-132	
Ethylbenzene	ug/L	<1.0	50	47.1	94	67-126	
Methylene Chloride	ug/L	<1.0	50	45.5	91	65-129	
Styrene	ug/L	<1.0	50	48.5	97	74-121	
Tetrachloroethene	ug/L	38.0	50	81.2	86	59-131	
Toluene	ug/L	<1.0	50	48.9	98	76-124	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50.7	101	42-140	
Trichloroethene	ug/L	1.1	50	47.4	93	78-119	
Vinyl chloride	ug/L	<1.0	50	40.0	80	45-141	
Xylene (Total)	ug/L	<3.0	150	148	99	69-125	
1,2-Dichloroethane-d4 (S)	%				111	70-123	
4-Bromofluorobenzene (S)	%				102	66-119	
Toluene-d8 (S)	%				99	82-121	

SAMPLE DUPLICATE: 1124511

Parameter	Units	70183511024 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		IC
1,1-Dichloroethane	ug/L	1.6	1.6	1	
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	4.3	4.2	4	
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

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

SAMPLE DUPLICATE: 1124511

Parameter	Units	70183511024 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	<0.70		
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	1.8	1.5	13	
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	2.0	1.7	12	
Vinyl chloride	ug/L	1.4	1.5	1	
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	112	114		
4-Bromofluorobenzene (S)	%	97	98		
Toluene-d8 (S)	%	101	100		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

QC Batch:	222325	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70184308001, 70184308002, 70184308003, 70184308004

SAMPLE DUPLICATE: 1121099

Parameter	Units	70184308001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.2	6.2		0 H3,H6,N3
Temperature, Water (C)	deg C	13.2	15.1		13 D6,H3,H6

SAMPLE DUPLICATE: 1121104

Parameter	Units	70184308002 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	5.7	5.7		1 H3,H6,N3
Temperature, Water (C)	deg C	13.5	13.9		3 H3,H6

SAMPLE DUPLICATE: 1121105

Parameter	Units	70184308004 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	5.7	5.7		1 H3,H6,N3
Temperature, Water (C)	deg C	14.2	14.8		4 H3,H6

SAMPLE DUPLICATE: 1121106

Parameter	Units	70184308003 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	5.6	5.7		1 H3,H6,N3
Temperature, Water (C)	deg C	14.9	15.4		3 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.

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

QC Batch: 464217	Analysis Method: SM 5310C-2011
QC Batch Method: SM 5310C-2011	Analysis Description: 5310C Total Organic Carbon
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 70184308001, 70184308002, 70184308003, 70184308004

METHOD BLANK: 2241223 Matrix: Water  
Associated Lab Samples: 70184308001, 70184308002, 70184308003, 70184308004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	09/15/21 15:23	

LABORATORY CONTROL SAMPLE: 2241224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	85-115	

MATRIX SPIKE SAMPLE: 2241225

Parameter	Units	30438410001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	4.4	10	14.1	97	85-115	

SAMPLE DUPLICATE: 2241233

Parameter	Units	30438410002 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	4.4	4.4	1	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MIN1001/MINMILT 8/17

Pace Project No.: 70184308

---

### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN1001/MINMILT 8/17  
Pace Project No.: 70184308

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70184308001	SYS-EFF	EPA 200.7	223357	EPA 200.7	223529
70184308002	SYS-INF	EPA 200.7	223357	EPA 200.7	223529
70184308003	UG	EPA 200.7	223357	EPA 200.7	223529
70184308004	MAG	EPA 200.7	223357	EPA 200.7	223529
70184308001	SYS-EFF	EPA 8260C/5030C	222953		
70184308002	SYS-INF	EPA 8260C/5030C	222953		
70184308003	UG	EPA 8260C/5030C	222953		
70184308004	MAG	EPA 8260C/5030C	222953		
70184308001	SYS-EFF	SM22 4500-H+B	222325		
70184308002	SYS-INF	SM22 4500-H+B	222325		
70184308003	UG	SM22 4500-H+B	222325		
70184308004	MAG	SM22 4500-H+B	222325		
70184308001	SYS-EFF	SM 5310C-2011	464217		
70184308002	SYS-INF	SM 5310C-2011	464217		
70184308003	UG	SM 5310C-2011	464217		
70184308004	MAG	SM 5310C-2011	464217		

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY Analytical Request Document**  
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pac-standard-terms.pdf>  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**Company:** PW Grosser Consulting  
**Address:** 630 Johnson Ave, Bohemia, NY 11716  
**Report To:** Kaitlyn Crosby  
**Copy To:**  
**Customer Project Name/Number:** MIN1001/MinMilt  
**Phone:** 655-595-6539  
**Email:** krosby@pwgrosser.com  
**Collected By (print):** Kaitlyn Crosby  
**Collected By (signature):** *Kaitlyn Crosby*  
**Sample Disposal:**  
 (X) Dispose as appropriate  
 ( ) Return  
 ( ) Archive  
 ( ) Hold

**LAB USE ONLY**  
**WO#:** 70184308  
**Barcode:** 70184308  
**Manager:** EMH  
**Lab Profile/Line:**  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact Y  NA  
 Custody Signatures Present Y  NA  
 Collector Signatures Present Y  NA  
 Bottles Intact Y  NA  
 Correct Bottles Y  NA  
 Sufficient Volume Y  NA  
 Samples Received on Ice Y  NA  
 VOA - Headspace Acceptable Y  NA  
 USDA Regulated Soils Y  NA  
 Samples in Holding Time Y  NA  
 Residual Chlorine Present Y  NA  
 Cl Strips: Y  NA  
 Sample pH Acceptable Y  NA  
 pH Strips: 11.55908 Y  NA  
 Sulfide Present Y  NA  
 Lead Acetate Strips: Y  NA  
 LAB USE ONLY:  
 Lab Sample # / Comments:

**Billing Information:**  
 Same as Client  
**Email To:** krosby@pwgrosser.com  
**Site Collection info/Address:** 540 Smith Street Farmingdale, NY  
**State:** NY / **County/City:** Farmingdale  
**Time Zone Collected:** [ ] PT [ ] MT [ ] CT [ X ] ET  
**Compliance Monitoring?**  
 Yes [ ] No  
**DW PWS ID #:**  
**DW Location Code:**  
**Immediately Packed on Ice:**  
 Yes [ ] No  
**Field Filtered (if applicable):**  
 Yes [ ] No  
**Analysis:**

**Analyses**  
 \*\* 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  
 Lab Profile/Line:  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact Y  NA  
 Custody Signatures Present Y  NA  
 Collector Signatures Present Y  NA  
 Bottles Intact Y  NA  
 Correct Bottles Y  NA  
 Sufficient Volume Y  NA  
 Samples Received on Ice Y  NA  
 VOA - Headspace Acceptable Y  NA  
 USDA Regulated Soils Y  NA  
 Samples in Holding Time Y  NA  
 Residual Chlorine Present Y  NA  
 Cl Strips: Y  NA  
 Sample pH Acceptable Y  NA  
 pH Strips: 11.55908 Y  NA  
 Sulfide Present Y  NA  
 Lead Acetate Strips: Y  NA  
 LAB USE ONLY:  
 Lab Sample # / Comments:

\* 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)		Composite End Date	Time	Res CI	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time					
SYS-EFF	GW	6	8-17-21	1015	8-17-21	1015	6	P/G	
SYS-EMF	↓	↓	↓	↓	↓	1020	↓	↓	
UG	↓	↓	↓	↓	↓	1030	↓	↓	
MAG	↓	↓	↓	↓	↓	1025	↓	↓	

**Customer Remarks / Special Conditions / Possible Hazards:**  
 Type of Ice Used: Wet Bibs Dry None  
 Packing Material Used: bubble wrap  
 Radchem sample(s) screened (<500 cpm): Y N NA  
 Received by/Company: (Signature) *[Signature]*  
 Received by/Company: (Signature) *[Signature]*  
 Received by/Company: (Signature) *[Signature]*

**Customer Remarks / Special Conditions / Possible Hazards:**  
 Type of Ice Used: Wet Bibs Dry None  
 Packing Material Used: bubble wrap  
 Radchem sample(s) screened (<500 cpm): Y N NA  
 Received by/Company: (Signature) *[Signature]*  
 Received by/Company: (Signature) *[Signature]*  
 Received by/Company: (Signature) *[Signature]*

**Customer Remarks / Special Conditions / Possible Hazards:**  
 Type of Ice Used: Wet Bibs Dry None  
 Packing Material Used: bubble wrap  
 Radchem sample(s) screened (<500 cpm): Y N NA  
 Received by/Company: (Signature) *[Signature]*  
 Received by/Company: (Signature) *[Signature]*  
 Received by/Company: (Signature) *[Signature]*

Relinquished by/Company: (Signature)	Date/Time	Relinquished by/Company: (Signature)	Date/Time	Relinquished by/Company: (Signature)	Date/Time
<i>[Signature]</i>	8-17-21 1059	<i>[Signature]</i>	8-17-21 1059	<i>[Signature]</i>	8-17-21 1059
<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	

**LAB Sample Temperature Info:**  
 Temp Blank Received: Y N NA  
 Therm ID#: 1101  
 Cooler 1 Temp Upon Receipt: 5.0  
 Cooler 1 Therm Corr. Factor: 0  
 Cooler 1 Corrected Temp: 5.0  
 Comments:

**Short Holds Present (<72 hours):** Y N N/A  
 Lab Tracking #: 1101  
 Samples received via:  
 FEDEX UPS Client Courier Pace Courier  
 Date/Time: 8/17/21 10:59  
 Date/Time:  
 Date/Time:  
 Date/Time:

**MTJL LAB USE ONLY**  
 Table #:  
 Acctnum:  
 Template:  
 Preloghi:  
 PM:  
 PB:

**Trip Blank Received:** Y N NA  
 HCL MeOH TSP Other

**Non Conformance(s):** YES / NO  
 Page: 1 of 1

September 29, 2021

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

RE: Project: MIN1001 / MINMILT - 9/16  
Pace Project No.: 70187825

Dear Kaitlyn Crosby:

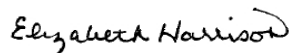
Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

Sample: <b>SYS-EFF</b>	Lab ID: <b>70187825001</b>	Collected: 09/16/21 14:00	Received: 09/16/21 14:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>4980</b>	ug/L	100	1	09/27/21 09:56	09/29/21 15:12	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/23/21 17:18	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/23/21 17:18	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/23/21 17:18	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/23/21 17:18	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/23/21 17:18	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/23/21 17:18	107-06-2	
1,2-Dichloroethene (Total)	<b>23.9</b>	ug/L	2.0	1		09/23/21 17:18	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/23/21 17:18	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/23/21 17:18	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		09/23/21 17:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/23/21 17:18	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/23/21 17:18	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/23/21 17:18	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/23/21 17:18	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/23/21 17:18	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/23/21 17:18	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		09/23/21 17:18	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/23/21 17:18	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/23/21 17:18	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/23/21 17:18	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/23/21 17:18	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/23/21 17:18	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/23/21 17:18	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/23/21 17:18	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/23/21 17:18	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/23/21 17:18	100-42-5	
Tetrachloroethene	<b>36.4</b>	ug/L	1.0	1		09/23/21 17:18	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/23/21 17:18	108-88-3	
Trichloroethene	<b>1.1</b>	ug/L	1.0	1		09/23/21 17:18	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/23/21 17:18	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/23/21 17:18	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/23/21 17:18	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/23/21 17:18	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	88	%	70-123	1		09/23/21 17:18	17060-07-0	
4-Bromofluorobenzene (S)	104	%	66-119	1		09/23/21 17:18	460-00-4	
Toluene-d8 (S)	100	%	82-121	1		09/23/21 17:18	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.3</b>	Std. Units	0.10	1		09/17/21 14:46		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

<b>Sample: SYS-EFF</b>		<b>Lab ID: 70187825001</b>		Collected: 09/16/21 14:00	Received: 09/16/21 14:32	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>19.1</b>	deg C	0.10	1		09/17/21 14:46		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>3.5</b>	mg/L	1.0	1		09/23/21 13:35	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

Sample: <b>SYS-INF</b>	Lab ID: <b>70187825002</b>	Collected: 09/16/21 14:05	Received: 09/16/21 14:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>13200</b>	ug/L	100	1	09/27/21 09:56	09/29/21 15:21	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/23/21 16:32	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/23/21 16:32	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/23/21 16:32	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/23/21 16:32	75-34-3	
1,1-Dichloroethene	<b>2.5</b>	ug/L	1.0	1		09/23/21 16:32	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/23/21 16:32	107-06-2	
1,2-Dichloroethene (Total)	<b>1690</b>	ug/L	40.0	20		09/23/21 16:59	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/23/21 16:32	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/23/21 16:32	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		09/23/21 16:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/23/21 16:32	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/23/21 16:32	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/23/21 16:32	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/23/21 16:32	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/23/21 16:32	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/23/21 16:32	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		09/23/21 16:32	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/23/21 16:32	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/23/21 16:32	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/23/21 16:32	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/23/21 16:32	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/23/21 16:32	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/23/21 16:32	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/23/21 16:32	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/23/21 16:32	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/23/21 16:32	100-42-5	
Tetrachloroethene	<b>1450</b>	ug/L	20.0	20		09/23/21 16:59	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/23/21 16:32	108-88-3	
Trichloroethene	<b>269</b>	ug/L	20.0	20		09/23/21 16:59	79-01-6	
Vinyl chloride	<b>1.6</b>	ug/L	1.0	1		09/23/21 16:32	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/23/21 16:32	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/23/21 16:32	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/23/21 16:32	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	87	%	70-123	1		09/23/21 16:32	17060-07-0	
4-Bromofluorobenzene (S)	105	%	66-119	1		09/23/21 16:32	460-00-4	
Toluene-d8 (S)	101	%	82-121	1		09/23/21 16:32	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>5.9</b>	Std. Units	0.10	1		09/17/21 14:47		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

<b>Sample: SYS-INF</b>		<b>Lab ID: 70187825002</b>		Collected: 09/16/21 14:05	Received: 09/16/21 14:32	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>19.5</b>	deg C	0.10	1		09/17/21 14:47		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>3.7</b>	mg/L	1.0	1		09/23/21 14:12	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

Sample: UG	Lab ID: 70187825003	Collected: 09/16/21 14:10	Received: 09/16/21 14:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	22000	ug/L	100	1	09/27/21 09:56	09/29/21 15:23	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/23/21 15:42	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/23/21 15:42	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/23/21 15:42	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/23/21 15:42	75-34-3	
1,1-Dichloroethene	3.5	ug/L	1.0	1		09/23/21 15:42	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/23/21 15:42	107-06-2	
1,2-Dichloroethene (Total)	2540	ug/L	40.0	20		09/23/21 16:13	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/23/21 15:42	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/23/21 15:42	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		09/23/21 15:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/23/21 15:42	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/23/21 15:42	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/23/21 15:42	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/23/21 15:42	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/23/21 15:42	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/23/21 15:42	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		09/23/21 15:42	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/23/21 15:42	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/23/21 15:42	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/23/21 15:42	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/23/21 15:42	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/23/21 15:42	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/23/21 15:42	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/23/21 15:42	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/23/21 15:42	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/23/21 15:42	100-42-5	
Tetrachloroethene	1430	ug/L	20.0	20		09/23/21 16:13	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/23/21 15:42	108-88-3	
Trichloroethene	460	ug/L	20.0	20		09/23/21 16:13	79-01-6	
Vinyl chloride	3.2	ug/L	1.0	1		09/23/21 15:42	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/23/21 15:42	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/23/21 15:42	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/23/21 15:42	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	90	%	70-123	1		09/23/21 15:42	17060-07-0	
4-Bromofluorobenzene (S)	106	%	66-119	1		09/23/21 15:42	460-00-4	
Toluene-d8 (S)	100	%	82-121	1		09/23/21 15:42	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	5.7	Std. Units	0.10	1		09/17/21 14:47		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

<b>Sample: UG</b>		<b>Lab ID: 70187825003</b>		Collected: 09/16/21 14:10	Received: 09/16/21 14:32	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>20.4</b>	deg C	0.10	1		09/17/21 14:47		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>6.6</b>	mg/L	1.0	1		09/23/21 14:24	7440-44-0	

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**ANALYTICAL RESULTS**

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

Sample: <b>MAG</b>		Lab ID: <b>70187825004</b>	Collected: 09/16/21 14:15	Received: 09/16/21 14:32	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>5770</b>	ug/L	100	1	09/27/21 09:56	09/29/21 15:26	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/23/21 14:56	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/23/21 14:56	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/23/21 14:56	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/23/21 14:56	75-34-3	
1,1-Dichloroethene	<b>1.5</b>	ug/L	1.0	1		09/23/21 14:56	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/23/21 14:56	107-06-2	
1,2-Dichloroethene (Total)	<b>887</b>	ug/L	40.0	20		09/23/21 15:23	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/23/21 14:56	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/23/21 14:56	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		09/23/21 14:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/23/21 14:56	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/23/21 14:56	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/23/21 14:56	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/23/21 14:56	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/23/21 14:56	75-25-2	
Bromomethane	<b>1.0</b>	ug/L	1.0	1		09/23/21 14:56	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		09/23/21 14:56	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/23/21 14:56	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/23/21 14:56	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/23/21 14:56	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/23/21 14:56	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/23/21 14:56	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/23/21 14:56	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/23/21 14:56	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/23/21 14:56	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/23/21 14:56	100-42-5	
Tetrachloroethene	<b>1060</b>	ug/L	20.0	20		09/23/21 15:23	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/23/21 14:56	108-88-3	
Trichloroethene	<b>110</b>	ug/L	1.0	1		09/23/21 14:56	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/23/21 14:56	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/23/21 14:56	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/23/21 14:56	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/23/21 14:56	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	88	%	70-123	1		09/23/21 14:56	17060-07-0	
4-Bromofluorobenzene (S)	108	%	66-119	1		09/23/21 14:56	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		09/23/21 14:56	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>5.8</b>	Std. Units	0.10	1		09/17/21 14:47		H3,H6, N3

**REPORT OF LABORATORY ANALYSIS**

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## ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

<b>Sample: MAG</b>		<b>Lab ID: 70187825004</b>		Collected: 09/16/21 14:15	Received: 09/16/21 14:32	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>20.6</b>	deg C	0.10	1		09/17/21 14:47		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>2.9</b>	mg/L	1.0	1		09/23/21 14:40	7440-44-0	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 9/16  
Pace Project No.: 70187825

QC Batch: 227093      Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7      Analysis Description: 200.7 Metals, Total  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70187825001, 70187825002, 70187825003, 70187825004

METHOD BLANK: 1145316      Matrix: Water  
Associated Lab Samples: 70187825001, 70187825002, 70187825003, 70187825004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	09/29/21 14:38	

LABORATORY CONTROL SAMPLE: 1145317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12300	98	85-115	

MATRIX SPIKE SAMPLE: 1145319

Parameter	Units	70187484002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	12500	12200	98	70-130	

MATRIX SPIKE SAMPLE: 1145321

Parameter	Units	70187836002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	12500	12100	97	70-130	

SAMPLE DUPLICATE: 1145318

Parameter	Units	70187484002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 1145320

Parameter	Units	70187836002 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

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 9/16  
Pace Project No.: 70187825

QC Batch: 226753 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70187825001, 70187825002, 70187825003, 70187825004

METHOD BLANK: 1143360 Matrix: Water  
Associated Lab Samples: 70187825001, 70187825002, 70187825003, 70187825004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/23/21 13:51	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	09/23/21 13:51	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	09/23/21 13:51	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/23/21 13:51	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/23/21 13:51	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/23/21 13:51	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	09/23/21 13:51	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/23/21 13:51	
2-Butanone (MEK)	ug/L	<5.0	5.0	09/23/21 13:51	
2-Hexanone	ug/L	<5.0	5.0	09/23/21 13:51	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	09/23/21 13:51	
Acetone	ug/L	<5.0	5.0	09/23/21 13:51	
Benzene	ug/L	<0.70	0.70	09/23/21 13:51	
Bromodichloromethane	ug/L	<1.0	1.0	09/23/21 13:51	
Bromoform	ug/L	<1.0	1.0	09/23/21 13:51	
Bromomethane	ug/L	<1.0	1.0	09/23/21 13:51	v3
Carbon disulfide	ug/L	<1.0	1.0	09/23/21 13:51	
Carbon tetrachloride	ug/L	<1.0	1.0	09/23/21 13:51	
Chlorobenzene	ug/L	<1.0	1.0	09/23/21 13:51	
Chloroethane	ug/L	<1.0	1.0	09/23/21 13:51	
Chloroform	ug/L	<1.0	1.0	09/23/21 13:51	
Chloromethane	ug/L	<1.0	1.0	09/23/21 13:51	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	09/23/21 13:51	
Dibromochloromethane	ug/L	<1.0	1.0	09/23/21 13:51	
Ethylbenzene	ug/L	<1.0	1.0	09/23/21 13:51	
Methylene Chloride	ug/L	<1.0	1.0	09/23/21 13:51	
Styrene	ug/L	<1.0	1.0	09/23/21 13:51	
Tetrachloroethene	ug/L	<1.0	1.0	09/23/21 13:51	
Toluene	ug/L	<1.0	1.0	09/23/21 13:51	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	09/23/21 13:51	
Trichloroethene	ug/L	<1.0	1.0	09/23/21 13:51	
Vinyl chloride	ug/L	<1.0	1.0	09/23/21 13:51	
Xylene (Total)	ug/L	<3.0	3.0	09/23/21 13:51	
1,2-Dichloroethane-d4 (S)	%	89	70-123	09/23/21 13:51	
4-Bromofluorobenzene (S)	%	107	66-119	09/23/21 13:51	
Toluene-d8 (S)	%	102	82-121	09/23/21 13:51	

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

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

LABORATORY CONTROL SAMPLE: 1143361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.5	95	62-121	
1,1,2,2-Tetrachloroethane	ug/L	50	50.2	100	75-122	
1,1,2-Trichloroethane	ug/L	50	52.0	104	80-122	
1,1-Dichloroethane	ug/L	50	48.9	98	68-127	
1,1-Dichloroethene	ug/L	50	52.7	105	65-123	
1,2-Dichloroethane	ug/L	50	47.9	96	73-128	
1,2-Dichloroethene (Total)	ug/L	100	109	109	72-124	
1,2-Dichloropropane	ug/L	50	50.4	101	79-117	
2-Butanone (MEK)	ug/L	50	45.1	90	28-169	
2-Hexanone	ug/L	50	40.8	82	59-138	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.3	95	70-129	
Acetone	ug/L	50	33.9	68	10-225 IH,v1	
Benzene	ug/L	50	53.2	106	73-121	
Bromodichloromethane	ug/L	50	50.4	101	74-127	
Bromoform	ug/L	50	54.3	109	55-128	
Bromomethane	ug/L	50	33.5	67	12-176 v3	
Carbon disulfide	ug/L	50	50.8	102	57-129	
Carbon tetrachloride	ug/L	50	54.2	108	64-122	
Chlorobenzene	ug/L	50	52.9	106	76-117	
Chloroethane	ug/L	50	40.9	82	60-129	
Chloroform	ug/L	50	51.0	102	74-129	
Chloromethane	ug/L	50	34.2	68	43-126 v3	
cis-1,3-Dichloropropene	ug/L	50	53.1	106	65-134	
Dibromochloromethane	ug/L	50	50.4	101	71-130	
Ethylbenzene	ug/L	50	50.6	101	70-120	
Methylene Chloride	ug/L	50	51.3	103	69-126	
Styrene	ug/L	50	54.6	109	80-121	
Tetrachloroethene	ug/L	50	50.9	102	65-120	
Toluene	ug/L	50	51.4	103	77-120	
trans-1,3-Dichloropropene	ug/L	50	50.6	101	54-139	
Trichloroethene	ug/L	50	49.5	99	73-116	
Vinyl chloride	ug/L	50	41.1	82	50-130	
Xylene (Total)	ug/L	150	156	104	73-120	
1,2-Dichloroethane-d4 (S)	%			90	70-123	
4-Bromofluorobenzene (S)	%			108	66-119	
Toluene-d8 (S)	%			102	82-121	

MATRIX SPIKE SAMPLE: 1144046

Parameter	Units	30442019001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	53.4	107	60-127	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	56.3	113	74-118	
1,1,2-Trichloroethane	ug/L	ND	50	58.9	118	80-120	
1,1-Dichloroethane	ug/L	ND	50	53.9	108	69-131	
1,1-Dichloroethene	ug/L	ND	50	62.6	125	70-129	

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

MATRIX SPIKE SAMPLE: 1144046

Parameter	Units	30442019001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	50	51.9	104	70-129	
1,2-Dichloroethene (Total)	ug/L	ND	100	122	122	67-132	
1,2-Dichloropropane	ug/L	ND	50	55.0	110	77-118	
2-Butanone (MEK)	ug/L	ND	50	49.1	98	15-159	
2-Hexanone	ug/L	ND	50	46.1	92	60-127	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	53.6	107	66-129	
Acetone	ug/L	ND	50	37.0	74	10-189	IH,v1
Benzene	ug/L	ND	50	59.9	120	74-126	
Bromodichloromethane	ug/L	ND	50	55.3	111	71-125	
Bromoform	ug/L	ND	50	62.8	126	40-128	
Bromomethane	ug/L	ND	50	26.7	53	10-179	v3
Carbon disulfide	ug/L	ND	50	58.0	116	60-131	
Carbon tetrachloride	ug/L	ND	50	61.5	123	64-125	
Chlorobenzene	ug/L	ND	50	58.8	118	72-121	
Chloroethane	ug/L	ND	50	46.9	94	54-137	
Chloroform	ug/L	ND	50	56.3	113	73-128	
Chloromethane	ug/L	ND	50	38.7	77	45-123	v3
cis-1,3-Dichloropropene	ug/L	ND	50	57.4	115	57-130	
Dibromochloromethane	ug/L	ND	50	55.8	112	59-132	
Ethylbenzene	ug/L	ND	50	57.3	115	67-126	
Methylene Chloride	ug/L	ND	50	55.4	111	65-129	
Styrene	ug/L	ND	50	59.0	118	74-121	
Tetrachloroethene	ug/L	ND	50	58.3	117	59-131	
Toluene	ug/L	ND	50	57.3	115	76-124	
trans-1,3-Dichloropropene	ug/L	ND	50	55.4	111	42-140	
Trichloroethene	ug/L	ND	50	57.1	114	78-119	
Vinyl chloride	ug/L	ND	50	46.7	93	45-141	
Xylene (Total)	ug/L	ND	150	175	116	69-125	
1,2-Dichloroethane-d4 (S)	%					87	70-123
4-Bromofluorobenzene (S)	%					107	66-119
Toluene-d8 (S)	%					102	82-121

SAMPLE DUPLICATE: 1144045

Parameter	Units	70187825001 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	23.9	23.2	3	
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

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

SAMPLE DUPLICATE: 1144045

Parameter	Units	70187825001 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	<0.70	<0.70		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		v3
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		v3
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	36.4	35.4	3	
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	1.1	1.2	1	
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	88	89		
4-Bromofluorobenzene (S)	%	104	109		
Toluene-d8 (S)	%	100	102		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

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QC Batch:	225911	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70187825001, 70187825002, 70187825003, 70187825004

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SAMPLE DUPLICATE: 1139207

Parameter	Units	70187286001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	4.7	4.7		0 H3,H6,N3
Temperature, Water (C)	deg C	14.5	14.7		1 H3,H6

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 9/16  
Pace Project No.: 70187825

QC Batch: 226634 Analysis Method: SM22 5310B  
QC Batch Method: SM22 5310B Analysis Description: 5310B TOC  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70187825001, 70187825002, 70187825003, 70187825004

METHOD BLANK: 1143078 Matrix: Water  
Associated Lab Samples: 70187825001, 70187825002, 70187825003, 70187825004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	09/23/21 11:23	

LABORATORY CONTROL SAMPLE: 1143079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	85-115	

MATRIX SPIKE SAMPLE: 1143081

Parameter	Units	70187413002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<1.0	10	10	97	75-125	

SAMPLE DUPLICATE: 1143080

Parameter	Units	70187413001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	<1.0	<1.0		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN1001 / MINMILT - 9/16

Pace Project No.: 70187825

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70187825001	SYS-EFF	EPA 200.7	227093	EPA 200.7	227212
70187825002	SYS-INF	EPA 200.7	227093	EPA 200.7	227212
70187825003	UG	EPA 200.7	227093	EPA 200.7	227212
70187825004	MAG	EPA 200.7	227093	EPA 200.7	227212
70187825001	SYS-EFF	EPA 8260C/5030C	226753		
70187825002	SYS-INF	EPA 8260C/5030C	226753		
70187825003	UG	EPA 8260C/5030C	226753		
70187825004	MAG	EPA 8260C/5030C	226753		
70187825001	SYS-EFF	SM22 4500-H+B	225911		
70187825002	SYS-INF	SM22 4500-H+B	225911		
70187825003	UG	SM22 4500-H+B	225911		
70187825004	MAG	SM22 4500-H+B	225911		
70187825001	SYS-EFF	SM22 5310B	226634		
70187825002	SYS-INF	SM22 5310B	226634		
70187825003	UG	SM22 5310B	226634		
70187825004	MAG	SM22 5310B	226634		

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# CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

# WO#: 70187825



70187825

Pace Workorder Number or

LAB USE ONLY

Lab Manager: **EMH**

Billing Information:

Company: **PWGC**

Address: **630 Johnson Ave, Bannockburn, IL 60015**

Report To: **Kaitlyn Crosby**

Copy To: \_\_\_\_\_

Email To: **Krosby@pwgrasser.com**

Site Collection Info/Address: **540 Smith Street**

State: **NY** County/City: **Farmingdale**

Time Zone Collected: **JST**

Compliance Monitoring?  Yes  No

DW PWS ID #: \_\_\_\_\_

DW Location Code: \_\_\_\_\_

Immediately Packed on Ice:  Yes  No

Field Filtered (if applicable):  Yes  No

Analysis: \_\_\_\_\_

Container Type: Plastic (P) or Glass (G)

Customer Project Name/Number: **MIN 1001 / Min Milk**

Phone: **631-584-6355**

Email: **Krosby@pwgrasser.com**

Collected By (print): **Kaitlyn Crosby**

Turnaround Date Required: **Standard**

Rush: (Expedite Charges Apply)  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day

Sample Disposal:  Dispose as appropriate  Return  Archive

\* 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	Time	Composite End Date	Time	Res Cl	# of Ctns
<b>SYS-EFF</b>	<b>GW</b>	<b>G</b>	<b>9-16-21</b>	<b>1400</b>				<b>6</b>
<b>SYS-INF</b>	<b>UG</b>	<b>↓</b>	<b>1405</b>					<b>↓</b>
<b>MAG</b>	<b>↓</b>	<b>↓</b>	<b>1410</b>					<b>↓</b>
			<b>1415</b>					<b>↓</b>

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: **Y N NA**

Sample pH Acceptable: **Y N NA**

pH Strips: **HC55768**

Sulfide Present: **Y N NA**

Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY:

Lab Sample # / Comments: \_\_\_\_\_

LAB Sample Temperature Info:

Temp Blank Received: **Y N NA**

Therm ID#: \_\_\_\_\_

Cooler 1 Temp Upon Receipt: **4.9°C**

Cooler 1 Therm Cert. Factor: **0.0°C**

Cooler 1 Corrected Temp: **4.9°C**

Comments: \_\_\_\_\_

SHORT HOLDS PRESENT (<72 hours): **Y N NA**

Lab Tracking #: \_\_\_\_\_

Samples received via: **UPS** Client: **Pace Courier**

FEDEX: \_\_\_\_\_

Date/Time: **9-16-21 14:30**

Table #: \_\_\_\_\_

Type of Ice Used: **Wet** Blue Dry None

Packing Material Used: \_\_\_\_\_

Radchem sample(s) screened (<500 cpm): **Y N NA**

Received by/Company: (Signature) \_\_\_\_\_

Relinquished by/Company: (Signature) \_\_\_\_\_

Date/Time: **9-16-21 14:32**

Received by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Trip Blank Received: **Y N NA**

HCL MeOH TSP Other: \_\_\_\_\_

Non Conformance(s): **YES / NO**

Page: **1** of: **1**

Received by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_



November 05, 2021

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

RE: Project: MIN1001 MINMILT 10/25  
Pace Project No.: 70192244

Dear Kaitlyn Crosby:

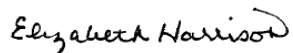
Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

Sample: <b>SYS-EFF</b>	Lab ID: <b>70192244001</b>	Collected: 10/25/21 10:30	Received: 10/25/21 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>5980</b>	ug/L	100	1	11/01/21 12:25	11/02/21 20:21	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/03/21 11:13	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/03/21 11:13	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/03/21 11:13	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/03/21 11:13	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/03/21 11:13	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/03/21 11:13	107-06-2	
1,2-Dichloroethene (Total)	<b>25.4</b>	ug/L	2.0	1		11/03/21 11:13	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/03/21 11:13	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/03/21 11:13	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		11/03/21 11:13	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/03/21 11:13	108-10-1	
Acetone	<5.0	ug/L	5.0	1		11/03/21 11:13	67-64-1	
Benzene	<0.70	ug/L	0.70	1		11/03/21 11:13	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/03/21 11:13	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/03/21 11:13	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		11/03/21 11:13	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		11/03/21 11:13	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/03/21 11:13	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/03/21 11:13	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/03/21 11:13	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/03/21 11:13	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		11/03/21 11:13	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		11/03/21 11:13	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		11/03/21 11:13	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		11/03/21 11:13	75-09-2	
Styrene	<1.0	ug/L	1.0	1		11/03/21 11:13	100-42-5	
Tetrachloroethene	<b>28.0</b>	ug/L	1.0	1		11/03/21 11:13	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/03/21 11:13	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		11/03/21 11:13	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/03/21 11:13	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		11/03/21 11:13	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/03/21 11:13	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/03/21 11:13	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		11/03/21 11:13	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		11/03/21 11:13	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		11/03/21 11:13	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.7</b>	Std. Units	0.10	1		10/28/21 18:05		H3,H6, N3

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## ANALYTICAL RESULTS

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

<b>Sample: SYS-EFF</b>		<b>Lab ID: 70192244001</b>		Collected: 10/25/21 10:30	Received: 10/25/21 11:26	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>19.1</b>	deg C	0.10	1		10/28/21 18:05		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.2</b>	mg/L	1.0	1		10/27/21 13:18	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

Sample: <b>SYS-INF</b>	Lab ID: <b>70192244002</b>	Collected: 10/25/21 10:35	Received: 10/25/21 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>15400</b>	ug/L	100	1	11/01/21 12:25	11/02/21 20:24	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/03/21 11:36	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/03/21 11:36	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/03/21 11:36	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/03/21 11:36	75-34-3	
1,1-Dichloroethene	<b>3.0</b>	ug/L	1.0	1		11/03/21 11:36	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/03/21 11:36	107-06-2	
1,2-Dichloroethene (Total)	<b>1690</b>	ug/L	40.0	20		11/03/21 12:03	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/03/21 11:36	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/03/21 11:36	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		11/03/21 11:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/03/21 11:36	108-10-1	
Acetone	<5.0	ug/L	5.0	1		11/03/21 11:36	67-64-1	
Benzene	<0.70	ug/L	0.70	1		11/03/21 11:36	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/03/21 11:36	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/03/21 11:36	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		11/03/21 11:36	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		11/03/21 11:36	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/03/21 11:36	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/03/21 11:36	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/03/21 11:36	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/03/21 11:36	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		11/03/21 11:36	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		11/03/21 11:36	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		11/03/21 11:36	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		11/03/21 11:36	75-09-2	
Styrene	<1.0	ug/L	1.0	1		11/03/21 11:36	100-42-5	
Tetrachloroethene	<b>1100</b>	ug/L	20.0	20		11/03/21 12:03	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/03/21 11:36	108-88-3	
Trichloroethene	<b>214</b>	ug/L	20.0	20		11/03/21 12:03	79-01-6	
Vinyl chloride	<b>4.9</b>	ug/L	1.0	1		11/03/21 11:36	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		11/03/21 11:36	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/03/21 11:36	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/03/21 11:36	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		11/03/21 11:36	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		11/03/21 11:36	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		11/03/21 11:36	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.3</b>	Std. Units	0.10	1		10/28/21 18:05		H3,H6, N3

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## ANALYTICAL RESULTS

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: SYS-INF      Lab ID: 70192244002      Collected: 10/25/21 10:35      Received: 10/25/21 11:26      Matrix: Water</b>								
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville								
Temperature, Water (C)	<b>19.3</b>	deg C	0.10	1		10/28/21 18:05		H3,H6
<b>5310B TOC as NPOC</b>								
Analytical Method: SM22 5310B Pace Analytical Services - Melville								
Total Organic Carbon	<b>4.4</b>	mg/L	1.0	1		10/27/21 13:30	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

Sample: <b>MAG</b>		Lab ID: <b>70192244003</b>	Collected: 10/25/21 10:40	Received: 10/25/21 11:26	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>6280</b>	ug/L	100	1	11/01/21 12:25	11/02/21 20:26	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/03/21 14:18	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/03/21 14:18	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/03/21 14:18	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/03/21 14:18	75-34-3	
1,1-Dichloroethene	<b>1.7</b>	ug/L	1.0	1		11/03/21 14:18	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/03/21 14:18	107-06-2	
1,2-Dichloroethene (Total)	<b>869</b>	ug/L	40.0	20		11/03/21 14:45	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/03/21 14:18	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/03/21 14:18	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		11/03/21 14:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/03/21 14:18	108-10-1	
Acetone	<5.0	ug/L	5.0	1		11/03/21 14:18	67-64-1	
Benzene	<0.70	ug/L	0.70	1		11/03/21 14:18	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/03/21 14:18	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/03/21 14:18	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		11/03/21 14:18	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		11/03/21 14:18	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/03/21 14:18	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/03/21 14:18	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/03/21 14:18	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/03/21 14:18	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		11/03/21 14:18	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		11/03/21 14:18	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		11/03/21 14:18	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		11/03/21 14:18	75-09-2	
Styrene	<1.0	ug/L	1.0	1		11/03/21 14:18	100-42-5	
Tetrachloroethene	<b>1520</b>	ug/L	20.0	20		11/03/21 14:45	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/03/21 14:18	108-88-3	
Trichloroethene	<b>87.8</b>	ug/L	1.0	1		11/03/21 14:18	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/03/21 14:18	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		11/03/21 14:18	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/03/21 14:18	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/03/21 14:18	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		11/03/21 14:18	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		11/03/21 14:18	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		11/03/21 14:18	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>6.2</b>	Std. Units	0.10	1		10/28/21 18:05		H3,H6, N3

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## ANALYTICAL RESULTS

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

<b>Sample: MAG</b>		<b>Lab ID: 70192244003</b>		Collected: 10/25/21 10:40	Received: 10/25/21 11:26	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>19.4</b>	deg C	0.10	1		10/28/21 18:05		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>1.2</b>	mg/L	1.0	1		10/27/21 13:41	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

Sample: UG	Lab ID: 70192244004	Collected: 10/25/21 10:45	Received: 10/25/21 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>26400</b>	ug/L	100	1	11/02/21 14:00	11/04/21 11:32	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/03/21 15:04	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/03/21 15:04	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/03/21 15:04	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/03/21 15:04	75-34-3	
1,1-Dichloroethene	<b>4.4</b>	ug/L	1.0	1		11/03/21 15:04	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/03/21 15:04	107-06-2	
1,2-Dichloroethene (Total)	<b>2520</b>	ug/L	50.0	25		11/03/21 15:31	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/03/21 15:04	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/03/21 15:04	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		11/03/21 15:04	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/03/21 15:04	108-10-1	
Acetone	<5.0	ug/L	5.0	1		11/03/21 15:04	67-64-1	
Benzene	<0.70	ug/L	0.70	1		11/03/21 15:04	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/03/21 15:04	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/03/21 15:04	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		11/03/21 15:04	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		11/03/21 15:04	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/03/21 15:04	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/03/21 15:04	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/03/21 15:04	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/03/21 15:04	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		11/03/21 15:04	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		11/03/21 15:04	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		11/03/21 15:04	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		11/03/21 15:04	75-09-2	
Styrene	<1.0	ug/L	1.0	1		11/03/21 15:04	100-42-5	
Tetrachloroethene	<b>1130</b>	ug/L	25.0	25		11/03/21 15:31	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/03/21 15:04	108-88-3	
Trichloroethene	<b>374</b>	ug/L	25.0	25		11/03/21 15:31	79-01-6	
Vinyl chloride	<b>8.8</b>	ug/L	1.0	1		11/03/21 15:04	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		11/03/21 15:04	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/03/21 15:04	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/03/21 15:04	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		11/03/21 15:04	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		11/03/21 15:04	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		11/03/21 15:04	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>6.1</b>	Std. Units	0.10	1		10/28/21 18:05		H3,H6, N3

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### ANALYTICAL RESULTS

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

<b>Sample: UG</b>		<b>Lab ID: 70192244004</b>		Collected: 10/25/21 10:45	Received: 10/25/21 11:26	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>19.1</b>	deg C	0.10	1		10/28/21 18:05		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>7.9</b>	mg/L	1.0	1		10/27/21 13:54	7440-44-0	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001 MINMILT 10/25  
Pace Project No.: 70192244

QC Batch: 231458      Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7      Analysis Description: 200.7 Metals, Total  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70192244001, 70192244002, 70192244003

METHOD BLANK: 1167520      Matrix: Water  
Associated Lab Samples: 70192244001, 70192244002, 70192244003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	11/02/21 19:03	

LABORATORY CONTROL SAMPLE: 1167521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12400	99	85-115	

MATRIX SPIKE SAMPLE: 1167523

Parameter	Units	70192029002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	12500	13000	103	70-130	

MATRIX SPIKE SAMPLE: 1167525

Parameter	Units	70192084001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	615	12500	13800	105	70-130	

SAMPLE DUPLICATE: 1167522

Parameter	Units	70192029002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 1167524

Parameter	Units	70192084001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	615	627	2	

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### QUALITY CONTROL DATA

Project: MIN1001 MINMILT 10/25  
Pace Project No.: 70192244

QC Batch: 231495	Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7	Analysis Description: 200.7 Metals, Total
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70192244004

METHOD BLANK: 1167612 Matrix: Water  
Associated Lab Samples: 70192244004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	11/04/21 11:28	

LABORATORY CONTROL SAMPLE: 1167613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	14100	113	85-115	

MATRIX SPIKE SAMPLE: 1167615

Parameter	Units	70192244004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	26400	12500	37800	91	70-130	

MATRIX SPIKE SAMPLE: 1167617

Parameter	Units	70192375002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	12500	13500	108	70-130	

SAMPLE DUPLICATE: 1167614

Parameter	Units	70192244004 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	26400	26400	0	

SAMPLE DUPLICATE: 1167616

Parameter	Units	70192375002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

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### QUALITY CONTROL DATA

Project: MIN1001 MINMILT 10/25  
Pace Project No.: 70192244

QC Batch: 231775 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70192244001, 70192244002, 70192244003, 70192244004

METHOD BLANK: 1169233 Matrix: Water  
Associated Lab Samples: 70192244001, 70192244002, 70192244003, 70192244004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/03/21 09:12	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	11/03/21 09:12	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	11/03/21 09:12	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/03/21 09:12	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/03/21 09:12	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/03/21 09:12	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	11/03/21 09:12	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/03/21 09:12	
2-Butanone (MEK)	ug/L	<5.0	5.0	11/03/21 09:12	
2-Hexanone	ug/L	<5.0	5.0	11/03/21 09:12	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	11/03/21 09:12	
Acetone	ug/L	<5.0	5.0	11/03/21 09:12	
Benzene	ug/L	<0.70	0.70	11/03/21 09:12	
Bromodichloromethane	ug/L	<1.0	1.0	11/03/21 09:12	
Bromoform	ug/L	<1.0	1.0	11/03/21 09:12	
Bromomethane	ug/L	<1.0	1.0	11/03/21 09:12	v3
Carbon disulfide	ug/L	<1.0	1.0	11/03/21 09:12	
Carbon tetrachloride	ug/L	<1.0	1.0	11/03/21 09:12	
Chlorobenzene	ug/L	<1.0	1.0	11/03/21 09:12	
Chloroethane	ug/L	<1.0	1.0	11/03/21 09:12	
Chloroform	ug/L	<1.0	1.0	11/03/21 09:12	
Chloromethane	ug/L	<1.0	1.0	11/03/21 09:12	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	11/03/21 09:12	
Dibromochloromethane	ug/L	<1.0	1.0	11/03/21 09:12	
Ethylbenzene	ug/L	<1.0	1.0	11/03/21 09:12	
Methylene Chloride	ug/L	<1.0	1.0	11/03/21 09:12	
Styrene	ug/L	<1.0	1.0	11/03/21 09:12	
Tetrachloroethene	ug/L	<1.0	1.0	11/03/21 09:12	
Toluene	ug/L	<1.0	1.0	11/03/21 09:12	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	11/03/21 09:12	
Trichloroethene	ug/L	<1.0	1.0	11/03/21 09:12	
Vinyl chloride	ug/L	<1.0	1.0	11/03/21 09:12	
Xylene (Total)	ug/L	<3.0	3.0	11/03/21 09:12	
1,2-Dichloroethane-d4 (S)	%	99	81-122	11/03/21 09:12	
4-Bromofluorobenzene (S)	%	100	79-118	11/03/21 09:12	
Toluene-d8 (S)	%	90	82-122	11/03/21 09:12	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

LABORATORY CONTROL SAMPLE: 1169234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.5	95	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	70-127	
1,1,2-Trichloroethane	ug/L	50	51.9	104	81-119	
1,1-Dichloroethane	ug/L	50	51.5	103	72-126	
1,1-Dichloroethene	ug/L	50	55.6	111	66-133	
1,2-Dichloroethane	ug/L	50	52.0	104	69-134	
1,2-Dichloroethene (Total)	ug/L	100	105	105	69-123	
1,2-Dichloropropane	ug/L	50	50.8	102	75-125	
2-Butanone (MEK)	ug/L	50	43.9	88	33-165	
2-Hexanone	ug/L	50	36.1	72	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	46.0	92	62-131	
Acetone	ug/L	50	39.8	80	14-156 IH,v1	
Benzene	ug/L	50	53.2	106	78-117	
Bromodichloromethane	ug/L	50	52.2	104	80-123	
Bromoform	ug/L	50	45.2	90	49-138	
Bromomethane	ug/L	50	27.3	55	10-143 v3	
Carbon disulfide	ug/L	50	48.0	96	66-133	
Carbon tetrachloride	ug/L	50	52.9	106	64-135	
Chlorobenzene	ug/L	50	45.5	91	79-117	
Chloroethane	ug/L	50	44.9	90	31-156	
Chloroform	ug/L	50	52.9	106	79-123	
Chloromethane	ug/L	50	27.0	54	39-116 v3	
cis-1,3-Dichloropropene	ug/L	50	54.4	109	78-131	
Dibromochloromethane	ug/L	50	41.0	82	65-123	
Ethylbenzene	ug/L	50	43.3	87	79-115	
Methylene Chloride	ug/L	50	49.9	100	67-123	
Styrene	ug/L	50	46.5	93	82-121	
Tetrachloroethene	ug/L	50	39.8	80	65-120	
Toluene	ug/L	50	49.7	99	80-114	
trans-1,3-Dichloropropene	ug/L	50	52.8	106	73-135	
Trichloroethene	ug/L	50	48.2	96	79-115	
Vinyl chloride	ug/L	50	37.2	74	49-118	
Xylene (Total)	ug/L	150	135	90	80-118	
1,2-Dichloroethane-d4 (S)	%			97	81-122	
4-Bromofluorobenzene (S)	%			101	79-118	
Toluene-d8 (S)	%			90	82-122	

SAMPLE DUPLICATE: 1169628

Parameter	Units	70192244001 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		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

SAMPLE DUPLICATE: 1169628

Parameter	Units	70192244001 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	25.4	22.3	13	
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		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	<0.70	<0.70		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		v3
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		v3
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	28.0	30.9	10	
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)	%	100	101		
4-Bromofluorobenzene (S)	%	101	103		
Toluene-d8 (S)	%	97	102		

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### QUALITY CONTROL DATA

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

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QC Batch:	231091	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70192244001, 70192244002, 70192244003, 70192244004

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SAMPLE DUPLICATE: 1165525

Parameter	Units	70191969001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.0	7.0		0 H3,H6,N3
Temperature, Water (C)	deg C	14.3	14.3		0 H3,H6

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

QC Batch:	230795	Analysis Method:	SM22 5310B
QC Batch Method:	SM22 5310B	Analysis Description:	5310B TOC
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70192244001, 70192244002, 70192244003, 70192244004

METHOD BLANK: 1164097 Matrix: Water  
Associated Lab Samples: 70192244001, 70192244002, 70192244003, 70192244004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	10/26/21 23:22	

LABORATORY CONTROL SAMPLE: 1164098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.4	94	85-115	

MATRIX SPIKE SAMPLE: 1164100

Parameter	Units	70192245001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L		9.8	10	19.6	99	75-125

SAMPLE DUPLICATE: 1164099

Parameter	Units	70192142002 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	55.7	55.2	1	

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## QUALIFIERS

Project: MIN1001 MINMILT 10/25

Pace Project No.: 70192244

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN1001 MINMILT 10/25  
Pace Project No.: 70192244

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70192244001	SYS-EFF	EPA 200.7	231458	EPA 200.7	231541
70192244002	SYS-INF	EPA 200.7	231458	EPA 200.7	231541
70192244003	MAG	EPA 200.7	231458	EPA 200.7	231541
70192244004	UG	EPA 200.7	231495	EPA 200.7	231778
70192244001	SYS-EFF	EPA 8260C/5030C	231775		
70192244002	SYS-INF	EPA 8260C/5030C	231775		
70192244003	MAG	EPA 8260C/5030C	231775		
70192244004	UG	EPA 8260C/5030C	231775		
70192244001	SYS-EFF	SM22 4500-H+B	231091		
70192244002	SYS-INF	SM22 4500-H+B	231091		
70192244003	MAG	SM22 4500-H+B	231091		
70192244004	UG	SM22 4500-H+B	231091		
70192244001	SYS-EFF	SM22 5310B	230795		
70192244002	SYS-INF	SM22 5310B	230795		
70192244003	MAG	SM22 5310B	230795		
70192244004	UG	SM22 5310B	230795		

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CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: PWGC
Address: 630 Johnson Ave, Bohemia, NY
Report To: Kaitlyn Crosby
Copy To: Kaitlyn Crosby

WO#: 70192244
Barcode: 70192244
Project Manager: EMH

Customer Project Name/Number: MEN1001 Minifit
Site/Facility ID #:
Purchase Order #:
Quote #:
Turnaround Date Required: Standard
Rush: (Expedite Charges Apply)
Sample Disposal: Dispose as appropriate

Time Zone Collected:
Compliance Monitoring:
DW PWS ID #:
DW Location Code:
Immediately Packed on Ice:
Field Filtered (if applicable):
Analysis:

Table with columns: Customer Sample ID, Matrix, Comp/Grab, Collected (or Composite Start) Date, Composite End Date, Res Cl, # of Ctns. Includes handwritten entries for SYS-EFF, SYS-INF, MAG, UG.

Table with columns: Lab Profile/Line, Lab Sample Receipt Checklist items (Custody Seals Present, Collector Signatures Present, etc.), Y/N/NA status.

Customer Remarks / Special Conditions / Possible Hazards:
Type of Ice Used: Wet Blue Dry None
Packing Material Used: Bubble bags

LAB Sample Temperature Info:
Therm ID#: TH176
Cooler 1 Temp Upon Receipt: 25.0C
Cooler 1 Therm Corr. Factor: 0.10C
Cooler 1 Corrected Temp: 24.90C

Relinquished by/Company: (Signature) PWGC
Date/Time: 10-25-21 12:26
Received by/Company: (Signature) PACE LI

LAB USE ONLY:
Lab Sample #:
Comments:
Trip Blank Received: Y N NA
HCL MeOH TSP Other

December 08, 2021

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

RE: Project: MIN1001 / MINMILT - 11/22  
Pace Project No.: 70195562

Dear Kaitlyn Crosby:

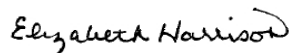
Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

Sample: <b>SYS-EFF</b>	Lab ID: <b>70195562001</b>	Collected: 11/22/21 10:30	Received: 11/22/21 11:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>5980</b>	ug/L	100	1	12/01/21 15:38	12/02/21 19:18	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/03/21 17:24	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/03/21 17:24	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/03/21 17:24	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/03/21 17:24	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/03/21 17:24	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/03/21 17:24	107-06-2	
1,2-Dichloroethene (Total)	<b>22.8</b>	ug/L	2.0	1		12/03/21 17:24	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/03/21 17:24	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/03/21 17:24	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		12/03/21 17:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/03/21 17:24	108-10-1	
Acetone	<5.0	ug/L	5.0	1		12/03/21 17:24	67-64-1	
Benzene	<0.70	ug/L	0.70	1		12/03/21 17:24	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		12/03/21 17:24	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		12/03/21 17:24	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		12/03/21 17:24	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		12/03/21 17:24	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/03/21 17:24	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		12/03/21 17:24	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		12/03/21 17:24	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		12/03/21 17:24	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		12/03/21 17:24	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		12/03/21 17:24	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		12/03/21 17:24	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		12/03/21 17:24	75-09-2	
Styrene	<1.0	ug/L	1.0	1		12/03/21 17:24	100-42-5	
Tetrachloroethene	<b>37.0</b>	ug/L	1.0	1		12/03/21 17:24	127-18-4	
Toluene	<1.0	ug/L	1.0	1		12/03/21 17:24	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		12/03/21 17:24	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		12/03/21 17:24	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		12/03/21 17:24	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/03/21 17:24	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/03/21 17:24	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	91	%	81-122	1		12/03/21 17:24	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-118	1		12/03/21 17:24	460-00-4	
Toluene-d8 (S)	94	%	82-122	1		12/03/21 17:24	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.3</b>	Std. Units	0.10	1		11/25/21 00:13		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

<b>Sample: SYS-EFF</b>		<b>Lab ID: 70195562001</b>		Collected: 11/22/21 10:30	Received: 11/22/21 11:32	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>15.4</b>	deg C	0.10	1		11/25/21 00:13		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>5.0</b>	mg/L	1.0	1		11/25/21 17:51	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

Sample: <b>SYS-INF</b>	Lab ID: <b>70195562002</b>	Collected: 11/22/21 10:35	Received: 11/22/21 11:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>13800</b>	ug/L	100	1	12/01/21 15:38	12/02/21 19:31	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/03/21 14:05	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/03/21 14:05	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/03/21 14:05	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/03/21 14:05	75-34-3	
1,1-Dichloroethene	<b>3.2</b>	ug/L	1.0	1		12/03/21 14:05	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/03/21 14:05	107-06-2	
1,2-Dichloroethene (Total)	<b>1590</b>	ug/L	40.0	20		12/03/21 14:32	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/03/21 14:05	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/03/21 14:05	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		12/03/21 14:05	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/03/21 14:05	108-10-1	
Acetone	<5.0	ug/L	5.0	1		12/03/21 14:05	67-64-1	
Benzene	<0.70	ug/L	0.70	1		12/03/21 14:05	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		12/03/21 14:05	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		12/03/21 14:05	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		12/03/21 14:05	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		12/03/21 14:05	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/03/21 14:05	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		12/03/21 14:05	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		12/03/21 14:05	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		12/03/21 14:05	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		12/03/21 14:05	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		12/03/21 14:05	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		12/03/21 14:05	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		12/03/21 14:05	75-09-2	
Styrene	<1.0	ug/L	1.0	1		12/03/21 14:05	100-42-5	
Tetrachloroethene	<b>1110</b>	ug/L	20.0	20		12/03/21 14:32	127-18-4	
Toluene	<1.0	ug/L	1.0	1		12/03/21 14:05	108-88-3	
Trichloroethene	<b>190</b>	ug/L	20.0	20		12/03/21 14:32	79-01-6	
Vinyl chloride	<b>12.4</b>	ug/L	1.0	1		12/03/21 14:05	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		12/03/21 14:05	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/03/21 14:05	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/03/21 14:05	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	92	%	81-122	1		12/03/21 14:05	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		12/03/21 14:05	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		12/03/21 14:05	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.2</b>	Std. Units	0.10	1		11/25/21 00:13		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

<b>Sample: SYS-INF</b>		<b>Lab ID: 70195562002</b>		Collected: 11/22/21 10:35	Received: 11/22/21 11:32	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>15.5</b>	deg C	0.10	1		11/25/21 00:13		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.5</b>	mg/L	1.0	1		11/25/21 18:03	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

Sample: MAG	Lab ID: 70195562003	Collected: 11/22/21 10:40	Received: 11/22/21 11:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	5890	ug/L	100	1	12/01/21 15:38	12/02/21 19:34	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/03/21 15:40	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/03/21 15:40	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/03/21 15:40	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/03/21 15:40	75-34-3	
1,1-Dichloroethene	1.6	ug/L	1.0	1		12/03/21 15:40	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/03/21 15:40	107-06-2	
1,2-Dichloroethene (Total)	890	ug/L	40.0	20		12/03/21 16:05	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/03/21 15:40	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/03/21 15:40	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		12/03/21 15:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/03/21 15:40	108-10-1	
Acetone	<5.0	ug/L	5.0	1		12/03/21 15:40	67-64-1	
Benzene	<0.70	ug/L	0.70	1		12/03/21 15:40	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		12/03/21 15:40	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		12/03/21 15:40	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		12/03/21 15:40	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		12/03/21 15:40	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/03/21 15:40	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		12/03/21 15:40	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		12/03/21 15:40	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		12/03/21 15:40	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		12/03/21 15:40	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		12/03/21 15:40	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		12/03/21 15:40	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		12/03/21 15:40	75-09-2	
Styrene	<1.0	ug/L	1.0	1		12/03/21 15:40	100-42-5	
Tetrachloroethene	2330	ug/L	20.0	20		12/03/21 16:05	127-18-4	
Toluene	<1.0	ug/L	1.0	1		12/03/21 15:40	108-88-3	
Trichloroethene	78.8	ug/L	1.0	1		12/03/21 15:40	79-01-6	
Vinyl chloride	2.0	ug/L	1.0	1		12/03/21 15:40	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		12/03/21 15:40	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/03/21 15:40	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/03/21 15:40	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	90	%	81-122	1		12/03/21 15:40	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-118	1		12/03/21 15:40	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		12/03/21 15:40	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	6.1	Std. Units	0.10	1		11/25/21 00:13		H3,H6, N3

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## ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

<b>Sample: MAG</b>		<b>Lab ID: 70195562003</b>		Collected: 11/22/21 10:40	Received: 11/22/21 11:32	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>15.2</b>	deg C	0.10	1		11/25/21 00:13		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>1.3</b>	mg/L	1.0	1		11/25/21 18:14	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

Sample: UG	Lab ID: 70195562004	Collected: 11/22/21 10:45	Received: 11/22/21 11:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	23300	ug/L	100	1	12/01/21 15:38	12/02/21 19:37	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/03/21 14:51	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/03/21 14:51	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/03/21 14:51	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/03/21 14:51	75-34-3	
1,1-Dichloroethene	5.0	ug/L	1.0	1		12/03/21 14:51	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/03/21 14:51	107-06-2	
1,2-Dichloroethene (Total)	2550	ug/L	50.0	25		12/03/21 15:20	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/03/21 14:51	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/03/21 14:51	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		12/03/21 14:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/03/21 14:51	108-10-1	
Acetone	<5.0	ug/L	5.0	1		12/03/21 14:51	67-64-1	
Benzene	<0.70	ug/L	0.70	1		12/03/21 14:51	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		12/03/21 14:51	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		12/03/21 14:51	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		12/03/21 14:51	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		12/03/21 14:51	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/03/21 14:51	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		12/03/21 14:51	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		12/03/21 14:51	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		12/03/21 14:51	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		12/03/21 14:51	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		12/03/21 14:51	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		12/03/21 14:51	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		12/03/21 14:51	75-09-2	
Styrene	<1.0	ug/L	1.0	1		12/03/21 14:51	100-42-5	
Tetrachloroethene	1100	ug/L	25.0	25		12/03/21 15:20	127-18-4	
Toluene	<1.0	ug/L	1.0	1		12/03/21 14:51	108-88-3	
Trichloroethene	354	ug/L	25.0	25		12/03/21 15:20	79-01-6	
Vinyl chloride	30.8	ug/L	1.0	1		12/03/21 14:51	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		12/03/21 14:51	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/03/21 14:51	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/03/21 14:51	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	91	%	81-122	1		12/03/21 14:51	17060-07-0	
4-Bromofluorobenzene (S)	91	%	79-118	1		12/03/21 14:51	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		12/03/21 14:51	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	6.1	Std. Units	0.10	1		11/25/21 00:13		H3,H6, N3

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### ANALYTICAL RESULTS

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

<b>Sample: UG</b>		<b>Lab ID: 70195562004</b>		Collected: 11/22/21 10:45	Received: 11/22/21 11:32	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>17.4</b>	deg C	0.10	1		11/25/21 00:13		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>8.6</b>	mg/L	1.0	1		11/25/21 18:26	7440-44-0	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 11/22  
Pace Project No.: 70195562

QC Batch: 235274 Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70195562001, 70195562002, 70195562003, 70195562004

METHOD BLANK: 1186638 Matrix: Water  
Associated Lab Samples: 70195562001, 70195562002, 70195562003, 70195562004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	12/02/21 19:12	

LABORATORY CONTROL SAMPLE: 1186639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	13100	105	85-115	

MATRIX SPIKE SAMPLE: 1186641

Parameter	Units	70195562001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	5980	12500	17000	88	70-130	

MATRIX SPIKE SAMPLE: 1186643

Parameter	Units	70195711001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1130	12500	12100	88	70-130	

SAMPLE DUPLICATE: 1186640

Parameter	Units	70195562001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	5980	6090	2	

SAMPLE DUPLICATE: 1186642

Parameter	Units	70195711001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1130	1140	0	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

QC Batch: 235597

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70195562001, 70195562002, 70195562003, 70195562004

METHOD BLANK: 1188510

Matrix: Water

Associated Lab Samples: 70195562001, 70195562002, 70195562003, 70195562004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/03/21 12:48	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	12/03/21 12:48	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	12/03/21 12:48	
1,1-Dichloroethane	ug/L	<1.0	1.0	12/03/21 12:48	
1,1-Dichloroethene	ug/L	<1.0	1.0	12/03/21 12:48	
1,2-Dichloroethane	ug/L	<1.0	1.0	12/03/21 12:48	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	12/03/21 12:48	
1,2-Dichloropropane	ug/L	<1.0	1.0	12/03/21 12:48	
2-Butanone (MEK)	ug/L	<5.0	5.0	12/03/21 12:48	
2-Hexanone	ug/L	<5.0	5.0	12/03/21 12:48	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	12/03/21 12:48	
Acetone	ug/L	<5.0	5.0	12/03/21 12:48	
Benzene	ug/L	<0.70	0.70	12/03/21 12:48	
Bromodichloromethane	ug/L	<1.0	1.0	12/03/21 12:48	
Bromoform	ug/L	<1.0	1.0	12/03/21 12:48	
Bromomethane	ug/L	<1.0	1.0	12/03/21 12:48	v3
Carbon disulfide	ug/L	<1.0	1.0	12/03/21 12:48	
Carbon tetrachloride	ug/L	<1.0	1.0	12/03/21 12:48	
Chlorobenzene	ug/L	<1.0	1.0	12/03/21 12:48	
Chloroethane	ug/L	<1.0	1.0	12/03/21 12:48	
Chloroform	ug/L	<1.0	1.0	12/03/21 12:48	
Chloromethane	ug/L	<1.0	1.0	12/03/21 12:48	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	12/03/21 12:48	
Dibromochloromethane	ug/L	<1.0	1.0	12/03/21 12:48	
Ethylbenzene	ug/L	<1.0	1.0	12/03/21 12:48	
Methylene Chloride	ug/L	<1.0	1.0	12/03/21 12:48	
Styrene	ug/L	<1.0	1.0	12/03/21 12:48	
Tetrachloroethene	ug/L	<1.0	1.0	12/03/21 12:48	
Toluene	ug/L	<1.0	1.0	12/03/21 12:48	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	12/03/21 12:48	
Trichloroethene	ug/L	<1.0	1.0	12/03/21 12:48	
Vinyl chloride	ug/L	<1.0	1.0	12/03/21 12:48	v3
Xylene (Total)	ug/L	<3.0	3.0	12/03/21 12:48	
1,2-Dichloroethane-d4 (S)	%	90	81-122	12/03/21 12:48	
4-Bromofluorobenzene (S)	%	92	79-118	12/03/21 12:48	
Toluene-d8 (S)	%	95	82-122	12/03/21 12:48	

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

LABORATORY CONTROL SAMPLE: 1188511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.6	89	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	54.3	109	70-127	
1,1,2-Trichloroethane	ug/L	50	49.8	100	81-119	
1,1-Dichloroethane	ug/L	50	47.6	95	72-126	
1,1-Dichloroethene	ug/L	50	48.8	98	66-133	
1,2-Dichloroethane	ug/L	50	48.8	98	69-134	
1,2-Dichloroethene (Total)	ug/L	100	98.0	98	69-123	
1,2-Dichloropropane	ug/L	50	51.0	102	75-125	
2-Butanone (MEK)	ug/L	50	40.5	81	33-165	
2-Hexanone	ug/L	50	38.8	78	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	42.8	86	62-131	
Acetone	ug/L	50	40.7	81	14-156 IH,v1	
Benzene	ug/L	50	53.8	108	78-117	
Bromodichloromethane	ug/L	50	50.7	101	80-123	
Bromoform	ug/L	50	50.4	101	49-138	
Bromomethane	ug/L	50	35.0	70	10-143 v3	
Carbon disulfide	ug/L	50	43.2	86	66-133	
Carbon tetrachloride	ug/L	50	50.9	102	64-135	
Chlorobenzene	ug/L	50	51.1	102	79-117	
Chloroethane	ug/L	50	43.0	86	31-156	
Chloroform	ug/L	50	51.3	103	79-123	
Chloromethane	ug/L	50	24.5	49	39-116 v3	
cis-1,3-Dichloropropene	ug/L	50	53.1	106	78-131	
Dibromochloromethane	ug/L	50	50.3	101	65-123	
Ethylbenzene	ug/L	50	48.7	97	79-115	
Methylene Chloride	ug/L	50	47.9	96	67-123	
Styrene	ug/L	50	52.4	105	82-121	
Tetrachloroethene	ug/L	50	45.9	92	65-120	
Toluene	ug/L	50	49.5	99	80-114	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	73-135	
Trichloroethene	ug/L	50	47.7	95	79-115	
Vinyl chloride	ug/L	50	33.0	66	49-118 v3	
Xylene (Total)	ug/L	150	151	101	80-118	
1,2-Dichloroethane-d4 (S)	%			92	81-122	
4-Bromofluorobenzene (S)	%			93	79-118	
Toluene-d8 (S)	%			96	82-122	

MATRIX SPIKE SAMPLE: 1188856

Parameter	Units	70195752002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	40.5	81	72-123	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	48.7	97	64-133	
1,1,2-Trichloroethane	ug/L	<1.0	50	45.5	91	78-120	
1,1-Dichloroethane	ug/L	<1.0	50	40.8	82	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	43.2	86	61-139	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

MATRIX SPIKE SAMPLE: 1188856

Parameter	Units	70195752002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	42.1	84	58-138	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	82.9	83	59-133	
1,2-Dichloropropane	ug/L	<1.0	50	44.1	88	74-122	
2-Butanone (MEK)	ug/L	<5.0	50	33.2	66	33-148	
2-Hexanone	ug/L	<5.0	50	37.3	75	49-124	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	41.3	83	60-136	
Acetone	ug/L	<5.0	50	37.7	75	35-112	IH,v1
Benzene	ug/L	<1.0	50	44.4	89	70-130	
Bromodichloromethane	ug/L	<1.0	50	44.4	89	74-122	
Bromoform	ug/L	<1.0	50	46.5	93	39-139	
Bromomethane	ug/L	<1.0	50	12.9	26	10-130	v3
Carbon disulfide	ug/L	<1.0	50	21.5	43	60-129	M1
Carbon tetrachloride	ug/L	<1.0	50	42.4	85	56-143	
Chlorobenzene	ug/L	<1.0	50	47.0	94	74-122	
Chloroethane	ug/L	<1.0	50	24.2	48	35-146	
Chloroform	ug/L	<1.0	50	44.1	88	71-129	
Chloromethane	ug/L	<1.0	50	4.0	8	29-112	M1,v3
cis-1,3-Dichloropropene	ug/L	<1.0	50	45.4	91	67-130	
Dibromochloromethane	ug/L	<1.0	50	43.0	86	55-126	
Ethylbenzene	ug/L	<1.0	50	46.3	93	70-126	
Methylene Chloride	ug/L	<1.0	50	38.2	76	69-117	
Styrene	ug/L	<1.0	50	47.5	95	79-123	
Tetrachloroethene	ug/L	<1.0	50	45.0	90	64-124	
Toluene	ug/L	<1.0	50	44.0	88	76-123	
trans-1,3-Dichloropropene	ug/L	<1.0	50	42.8	86	61-130	
Trichloroethene	ug/L	<1.0	50	43.4	87	73-125	
Vinyl chloride	ug/L	<1.0	50	10.9	22	33-127	M1,v3
Xylene (Total)	ug/L	<3.0	150	140	94	78-123	
1,2-Dichloroethane-d4 (S)	%				91	81-122	
4-Bromofluorobenzene (S)	%				93	79-118	
Toluene-d8 (S)	%				97	82-122	

SAMPLE DUPLICATE: 1188855

Parameter	Units	70195752001 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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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

SAMPLE DUPLICATE: 1188855

Parameter	Units	70195752001 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	5.1		IH,v1
Benzene	ug/L	<1.0	<0.70		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	90.3	118	27	D6
Bromomethane	ug/L	<1.0	<1.0		v3
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		v3
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	1.8	2.2	23	D6
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		v3
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	91	91		
4-Bromofluorobenzene (S)	%	93	92		
Toluene-d8 (S)	%	96	94		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

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QC Batch:	234696	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70195562001, 70195562002, 70195562003, 70195562004

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SAMPLE DUPLICATE: 1183828

Parameter	Units	70195502001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.0	6.1		1 H3,H6,N3
Temperature, Water (C)	deg C	16.2	16.1		1 H3,H6

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### QUALITY CONTROL DATA

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

QC Batch:	234684	Analysis Method:	SM22 5310B
QC Batch Method:	SM22 5310B	Analysis Description:	5310B TOC
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70195562001, 70195562002, 70195562003, 70195562004

METHOD BLANK: 1183737 Matrix: Water  
Associated Lab Samples: 70195562001, 70195562002, 70195562003, 70195562004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	11/25/21 14:53	

LABORATORY CONTROL SAMPLE: 1183738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.3	93	85-115	

MATRIX SPIKE SAMPLE: 1183740

Parameter	Units	70195562004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L		8.6	10	19.1	105	75-125

SAMPLE DUPLICATE: 1183739

Parameter	Units	70195561001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	11.8	12.0	2	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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.

IH This analyte exceeded secondary source verification criteria high 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.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN1001 / MINMILT - 11/22

Pace Project No.: 70195562

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70195562001	SYS-EFF	EPA 200.7	235274	EPA 200.7	235366
70195562002	SYS-INF	EPA 200.7	235274	EPA 200.7	235366
70195562003	MAG	EPA 200.7	235274	EPA 200.7	235366
70195562004	UG	EPA 200.7	235274	EPA 200.7	235366
70195562001	SYS-EFF	EPA 8260C/5030C	235597		
70195562002	SYS-INF	EPA 8260C/5030C	235597		
70195562003	MAG	EPA 8260C/5030C	235597		
70195562004	UG	EPA 8260C/5030C	235597		
70195562001	SYS-EFF	SM22 4500-H+B	234696		
70195562002	SYS-INF	SM22 4500-H+B	234696		
70195562003	MAG	SM22 4500-H+B	234696		
70195562004	UG	SM22 4500-H+B	234696		
70195562001	SYS-EFF	SM22 5310B	234684		
70195562002	SYS-INF	SM22 5310B	234684		
70195562003	MAG	SM22 5310B	234684		
70195562004	UG	SM22 5310B	234684		

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WO#: 70195562



70195562

**CHAIN-OF-CUSTODY Analytical Request Document**

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/publib/pacs-standard-terms.pdf>  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**Billing Information:**

Company: PWGC  
 Address: 630 Johnson Ave, Bohemia, NY  
 Report To: Kaitlyn Crosby  
 Email To: Krosby@pwgrosser.com  
 Site Collection Info/Address: 540 Smith Street

Customer Project Name/Number: MFN1001 / Min.Milit  
 State: NY / Farmingdale [ ] JT [ ] JCT [ ] MET

Time Zone Collected: [ ] Yes [ ] No

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: \_\_\_\_\_

DW Location Code: \_\_\_\_\_

Immediately Packed on Ice: [ ] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: \_\_\_\_\_

Turnaround Date Required: Standard

Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: \_\_\_\_\_ [ ] Hold: \_\_\_\_\_

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)

Container Type: Plastic (P) or Glass (G)

Customer Sample ID

Matrix \*

Comp / Grab

Collected (or Composite Start) Date

Composite End Date

Time

Res Cl

# of Ctns

Analysis

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signatures 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: Y N NA

Sample pH Acceptable Y N NA

pH Strips: HC 100347 Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments:

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt:

Cooler 1 Therm Corr. Factor:

Cooler 1 Corrected Temp:

Comments:

LAB USE ONLY: Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: of:

Project Manager: EMH  
 Container Preservative type: 3 1 U 2  
 \*\* 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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Composite End Date	Time	Res Cl	# of Ctns	Analysis
SYS-EFF	GW	Grab	11-22-21	1030			6	VOC, PH, TOC
SYS-INF				1035				
MAG				1040				
UG				1045				

LAB Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: 70176  
 Cooler 1 Temp Upon Receipt: 6.5  
 Cooler 1 Therm Corr. Factor: 0.0  
 Cooler 1 Corrected Temp: 6.5  
 Comments:

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: Bubble Pack  
 Radchem sample(s) screened (<500 cpm): Y N NA  
 Received by/Company: (Signature)  
 Received by/Company: (Signature)  
 Received by/Company: (Signature)



Page 20 of 20



January 07, 2022

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

RE: Project: MIN1001/MINMILT 12/20  
Pace Project No.: 70198605

Dear Kaitlyn Crosby:

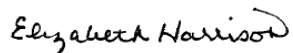
Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

Sample: <b>SYS-EFF</b>		Lab ID: <b>70198605001</b>	Collected: 12/20/21 11:30	Received: 12/20/21 13:49	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>36000</b>	ug/L	100	1	01/05/22 10:30	01/06/22 18:11	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/29/21 12:11	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/29/21 12:11	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/29/21 12:11	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/29/21 12:11	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/29/21 12:11	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/29/21 12:11	107-06-2	
1,2-Dichloroethene (Total)	<b>16.5</b>	ug/L	2.0	1		12/29/21 12:11	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/29/21 12:11	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/29/21 12:11	78-93-3	v3
2-Hexanone	<5.0	ug/L	5.0	1		12/29/21 12:11	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/29/21 12:11	108-10-1	
Acetone	<5.0	ug/L	5.0	1		12/29/21 12:11	67-64-1	v3
Benzene	<0.70	ug/L	0.70	1		12/29/21 12:11	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		12/29/21 12:11	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		12/29/21 12:11	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		12/29/21 12:11	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		12/29/21 12:11	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/29/21 12:11	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		12/29/21 12:11	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		12/29/21 12:11	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		12/29/21 12:11	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		12/29/21 12:11	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		12/29/21 12:11	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		12/29/21 12:11	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		12/29/21 12:11	75-09-2	
Styrene	<1.0	ug/L	1.0	1		12/29/21 12:11	100-42-5	
Tetrachloroethene	<b>34.6</b>	ug/L	1.0	1		12/29/21 12:11	127-18-4	
Toluene	<1.0	ug/L	1.0	1		12/29/21 12:11	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		12/29/21 12:11	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		12/29/21 12:11	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		12/29/21 12:11	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/29/21 12:11	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/29/21 12:11	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	92	%	81-122	1		12/29/21 12:11	17060-07-0	
4-Bromofluorobenzene (S)	85	%	79-118	1		12/29/21 12:11	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		12/29/21 12:11	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>6.6</b>	Std. Units	0.10	1		12/22/21 13:46		H3,H6, N3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

<b>Sample: SYS-EFF</b>		<b>Lab ID: 70198605001</b>		Collected: 12/20/21 11:30	Received: 12/20/21 13:49	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>16.1</b>	deg C	0.10	1		12/22/21 13:46		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.0</b>	mg/L	1.0	1		12/30/21 21:05	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

Sample: <b>SYS-INF</b>	Lab ID: <b>70198605002</b>	Collected: 12/20/21 11:35	Received: 12/20/21 13:49	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>14300</b>	ug/L	100	1	01/05/22 10:30	01/06/22 18:14	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/29/21 10:04	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/29/21 10:04	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/29/21 10:04	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/29/21 10:04	75-34-3	
1,1-Dichloroethene	<b>2.4</b>	ug/L	1.0	1		12/29/21 10:04	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/29/21 10:04	107-06-2	
1,2-Dichloroethene (Total)	<b>1410</b>	ug/L	40.0	20		12/29/21 10:27	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/29/21 10:04	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/29/21 10:04	78-93-3	v3
2-Hexanone	<5.0	ug/L	5.0	1		12/29/21 10:04	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/29/21 10:04	108-10-1	
Acetone	<5.0	ug/L	5.0	1		12/29/21 10:04	67-64-1	v3
Benzene	<0.70	ug/L	0.70	1		12/29/21 10:04	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		12/29/21 10:04	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		12/29/21 10:04	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		12/29/21 10:04	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		12/29/21 10:04	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/29/21 10:04	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		12/29/21 10:04	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		12/29/21 10:04	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		12/29/21 10:04	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		12/29/21 10:04	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		12/29/21 10:04	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		12/29/21 10:04	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		12/29/21 10:04	75-09-2	
Styrene	<1.0	ug/L	1.0	1		12/29/21 10:04	100-42-5	
Tetrachloroethene	<b>1410</b>	ug/L	20.0	20		12/29/21 10:27	127-18-4	
Toluene	<1.0	ug/L	1.0	1		12/29/21 10:04	108-88-3	
Trichloroethene	<b>179</b>	ug/L	1.0	1		12/29/21 10:04	79-01-6	
Vinyl chloride	<b>25.8</b>	ug/L	1.0	1		12/29/21 10:04	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		12/29/21 10:04	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/29/21 10:04	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/29/21 10:04	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	92	%	81-122	1		12/29/21 10:04	17060-07-0	
4-Bromofluorobenzene (S)	86	%	79-118	1		12/29/21 10:04	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		12/29/21 10:04	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.3</b>	Std. Units	0.10	1		12/22/21 13:47		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

<b>Sample: SYS-INF</b>		<b>Lab ID: 70198605002</b>		Collected: 12/20/21 11:35	Received: 12/20/21 13:49	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>15.3</b>	deg C	0.10	1		12/22/21 13:47		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.2</b>	mg/L	1.0	1		12/30/21 21:40	7440-44-0	

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

Sample: <b>MAG</b>		Lab ID: <b>70198605003</b>	Collected: 12/20/21 11:40	Received: 12/20/21 13:49	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>6020</b>	ug/L	100	1	01/05/22 10:30	01/06/22 18:16	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/29/21 11:23	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/29/21 11:23	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/29/21 11:23	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/29/21 11:23	75-34-3	
1,1-Dichloroethene	<b>1.4</b>	ug/L	1.0	1		12/29/21 11:23	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/29/21 11:23	107-06-2	
1,2-Dichloroethene (Total)	<b>805</b>	ug/L	40.0	20		12/29/21 11:52	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/29/21 11:23	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/29/21 11:23	78-93-3	v3
2-Hexanone	<5.0	ug/L	5.0	1		12/29/21 11:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/29/21 11:23	108-10-1	
Acetone	<5.0	ug/L	5.0	1		12/29/21 11:23	67-64-1	v3
Benzene	<0.70	ug/L	0.70	1		12/29/21 11:23	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		12/29/21 11:23	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		12/29/21 11:23	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		12/29/21 11:23	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		12/29/21 11:23	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/29/21 11:23	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		12/29/21 11:23	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		12/29/21 11:23	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		12/29/21 11:23	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		12/29/21 11:23	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		12/29/21 11:23	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		12/29/21 11:23	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		12/29/21 11:23	75-09-2	
Styrene	<1.0	ug/L	1.0	1		12/29/21 11:23	100-42-5	
Tetrachloroethene	<b>1480</b>	ug/L	20.0	20		12/29/21 11:52	127-18-4	
Toluene	<1.0	ug/L	1.0	1		12/29/21 11:23	108-88-3	
Trichloroethene	<b>74.9</b>	ug/L	1.0	1		12/29/21 11:23	79-01-6	
Vinyl chloride	<b>2.6</b>	ug/L	1.0	1		12/29/21 11:23	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		12/29/21 11:23	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/29/21 11:23	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/29/21 11:23	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		12/29/21 11:23	17060-07-0	
4-Bromofluorobenzene (S)	87	%	79-118	1		12/29/21 11:23	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		12/29/21 11:23	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>6.2</b>	Std. Units	0.10	1		12/22/21 13:47		H3,H6, N3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

<b>Sample: MAG</b>		<b>Lab ID: 70198605003</b>		Collected: 12/20/21 11:40	Received: 12/20/21 13:49	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>16.7</b>	deg C	0.10	1		12/22/21 13:47		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>1.2</b>	mg/L	1.0	1		12/30/21 21:51	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

Sample: UG	Lab ID: 70198605004	Collected: 12/20/21 11:45	Received: 12/20/21 13:49	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	25100	ug/L	100	1	01/05/22 10:30	01/06/22 18:19	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/29/21 10:46	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/29/21 10:46	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/29/21 10:46	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/29/21 10:46	75-34-3	
1,1-Dichloroethene	4.1	ug/L	1.0	1		12/29/21 10:46	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/29/21 10:46	107-06-2	
1,2-Dichloroethene (Total)	2460	ug/L	40.0	20		12/29/21 11:05	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/29/21 10:46	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/29/21 10:46	78-93-3	v3
2-Hexanone	<5.0	ug/L	5.0	1		12/29/21 10:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/29/21 10:46	108-10-1	
Acetone	<5.0	ug/L	5.0	1		12/29/21 10:46	67-64-1	v3
Benzene	<0.70	ug/L	0.70	1		12/29/21 10:46	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		12/29/21 10:46	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		12/29/21 10:46	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		12/29/21 10:46	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		12/29/21 10:46	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/29/21 10:46	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		12/29/21 10:46	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		12/29/21 10:46	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		12/29/21 10:46	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		12/29/21 10:46	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		12/29/21 10:46	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		12/29/21 10:46	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		12/29/21 10:46	75-09-2	
Styrene	<1.0	ug/L	1.0	1		12/29/21 10:46	100-42-5	
Tetrachloroethene	1010	ug/L	20.0	20		12/29/21 11:05	127-18-4	
Toluene	<1.0	ug/L	1.0	1		12/29/21 10:46	108-88-3	
Trichloroethene	331	ug/L	20.0	20		12/29/21 11:05	79-01-6	
Vinyl chloride	55.2	ug/L	1.0	1		12/29/21 10:46	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		12/29/21 10:46	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/29/21 10:46	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/29/21 10:46	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		12/29/21 10:46	17060-07-0	
4-Bromofluorobenzene (S)	88	%	79-118	1		12/29/21 10:46	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		12/29/21 10:46	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	6.2	Std. Units	0.10	1		12/23/21 15:51		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

<b>Sample: UG</b>		<b>Lab ID: 70198605004</b>		Collected: 12/20/21 11:45	Received: 12/20/21 13:49	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>17.1</b>	deg C	0.10	1		12/23/21 15:51		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>8.3</b>	mg/L	1.0	1		12/30/21 22:04	7440-44-0	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 12/20  
Pace Project No.: 70198605

QC Batch: 239452 Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70198605001, 70198605002, 70198605003, 70198605004

METHOD BLANK: 1209967 Matrix: Water  
Associated Lab Samples: 70198605001, 70198605002, 70198605003, 70198605004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	01/06/22 17:33	

LABORATORY CONTROL SAMPLE: 1209968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12200	97	85-115	

MATRIX SPIKE SAMPLE: 1209970

Parameter	Units	70198464001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	12500	12900	104	70-130	

MATRIX SPIKE SAMPLE: 1209972

Parameter	Units	70198628001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1070	12500	14100	105	70-130	

SAMPLE DUPLICATE: 1209969

Parameter	Units	70198464001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 1209971

Parameter	Units	70198628001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1070	1070	0	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 12/20  
Pace Project No.: 70198605

QC Batch: 238776 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70198605001, 70198605002, 70198605003, 70198605004

METHOD BLANK: 1206810 Matrix: Water  
Associated Lab Samples: 70198605001, 70198605002, 70198605003, 70198605004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/29/21 08:42	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	12/29/21 08:42	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	12/29/21 08:42	IC
1,1-Dichloroethane	ug/L	<1.0	1.0	12/29/21 08:42	
1,1-Dichloroethene	ug/L	<1.0	1.0	12/29/21 08:42	
1,2-Dichloroethane	ug/L	<1.0	1.0	12/29/21 08:42	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	12/29/21 08:42	
1,2-Dichloropropane	ug/L	<1.0	1.0	12/29/21 08:42	
2-Butanone (MEK)	ug/L	<5.0	5.0	12/29/21 08:42	v3
2-Hexanone	ug/L	<5.0	5.0	12/29/21 08:42	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	12/29/21 08:42	
Acetone	ug/L	<5.0	5.0	12/29/21 08:42	v3
Benzene	ug/L	<0.70	0.70	12/29/21 08:42	
Bromodichloromethane	ug/L	<1.0	1.0	12/29/21 08:42	
Bromoform	ug/L	<1.0	1.0	12/29/21 08:42	
Bromomethane	ug/L	<1.0	1.0	12/29/21 08:42	v3
Carbon disulfide	ug/L	<1.0	1.0	12/29/21 08:42	
Carbon tetrachloride	ug/L	<1.0	1.0	12/29/21 08:42	
Chlorobenzene	ug/L	<1.0	1.0	12/29/21 08:42	
Chloroethane	ug/L	<1.0	1.0	12/29/21 08:42	
Chloroform	ug/L	<1.0	1.0	12/29/21 08:42	
Chloromethane	ug/L	<1.0	1.0	12/29/21 08:42	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	12/29/21 08:42	
Dibromochloromethane	ug/L	<1.0	1.0	12/29/21 08:42	
Ethylbenzene	ug/L	<1.0	1.0	12/29/21 08:42	
Methylene Chloride	ug/L	<1.0	1.0	12/29/21 08:42	
Styrene	ug/L	<1.0	1.0	12/29/21 08:42	
Tetrachloroethene	ug/L	<1.0	1.0	12/29/21 08:42	
Toluene	ug/L	<1.0	1.0	12/29/21 08:42	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	12/29/21 08:42	
Trichloroethene	ug/L	<1.0	1.0	12/29/21 08:42	
Vinyl chloride	ug/L	<1.0	1.0	12/29/21 08:42	
Xylene (Total)	ug/L	<3.0	3.0	12/29/21 08:42	
1,2-Dichloroethane-d4 (S)	%	93	81-122	12/29/21 08:42	
4-Bromofluorobenzene (S)	%	90	79-118	12/29/21 08:42	
Toluene-d8 (S)	%	104	82-122	12/29/21 08:42	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

LABORATORY CONTROL SAMPLE: 1206811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	40.8	82	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	44.3	89	70-127	
1,1,2-Trichloroethane	ug/L	50	46.3	93	81-119	IC
1,1-Dichloroethane	ug/L	50	42.4	85	72-126	
1,1-Dichloroethene	ug/L	50	43.7	87	66-133	
1,2-Dichloroethane	ug/L	50	44.4	89	69-134	
1,2-Dichloroethene (Total)	ug/L	100	92.9	93	69-123	
1,2-Dichloropropane	ug/L	50	46.5	93	75-125	
2-Butanone (MEK)	ug/L	50	29.8	60	33-165	
2-Hexanone	ug/L	50	44.4	89	50-128	v3
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.7	95	62-131	
Acetone	ug/L	50	26.1	52	14-156	IH,v3
Benzene	ug/L	50	47.5	95	78-117	
Bromodichloromethane	ug/L	50	45.0	90	80-123	
Bromoform	ug/L	50	43.3	87	49-138	
Bromomethane	ug/L	50	37.6	75	10-143	v3
Carbon disulfide	ug/L	50	41.8	84	66-133	
Carbon tetrachloride	ug/L	50	40.8	82	64-135	
Chlorobenzene	ug/L	50	50.8	102	79-117	
Chloroethane	ug/L	50	40.4	81	31-156	
Chloroform	ug/L	50	43.3	87	79-123	
Chloromethane	ug/L	50	35.5	71	39-116	v3
cis-1,3-Dichloropropene	ug/L	50	50.3	101	78-131	
Dibromochloromethane	ug/L	50	49.5	99	65-123	
Ethylbenzene	ug/L	50	54.2	108	79-115	
Methylene Chloride	ug/L	50	45.3	91	67-123	
Styrene	ug/L	50	53.2	106	82-121	
Tetrachloroethene	ug/L	50	50.5	101	65-120	
Toluene	ug/L	50	50.2	100	80-114	
trans-1,3-Dichloropropene	ug/L	50	49.3	99	73-135	
Trichloroethene	ug/L	50	44.5	89	79-115	
Vinyl chloride	ug/L	50	38.4	77	49-118	
Xylene (Total)	ug/L	150	166	111	80-118	
1,2-Dichloroethane-d4 (S)	%			91	81-122	
4-Bromofluorobenzene (S)	%			91	79-118	
Toluene-d8 (S)	%			104	82-122	

MATRIX SPIKE SAMPLE: 1209204

Parameter	Units	70198757002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	48.3	97	72-123	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	48.2	96	64-133	
1,1,2-Trichloroethane	ug/L	<1.0	50	52.1	104	78-120	IC
1,1-Dichloroethane	ug/L	<1.0	50	47.6	95	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	51.6	103	61-139	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

MATRIX SPIKE SAMPLE: 1209204

Parameter	Units	70198757002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	48.5	97	58-138	
1,2-Dichloroethene (Total)	ug/L			101			
1,2-Dichloropropane	ug/L	<1.0	50	51.8	104	74-122	
2-Butanone (MEK)	ug/L	<5.0	50	30.7	61	33-148	v3
2-Hexanone	ug/L	<5.0	50	46.4	93	49-124	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	47.1	94	60-136	
Acetone	ug/L	<5.0	50	27.8	56	35-112	IH,v3
Benzene	ug/L	<1.0	50	54.1	108	70-130	
Bromodichloromethane	ug/L	<1.0	50	49.5	99	74-122	
Bromoform	ug/L	<1.0	50	45.9	92	39-139	
Bromomethane	ug/L	<1.0	50	38.9	78	10-130	v3
Carbon disulfide	ug/L	<1.0	50	45.7	91	60-129	
Carbon tetrachloride	ug/L	<1.0	50	47.7	95	56-143	
Chlorobenzene	ug/L	<1.0	50	55.2	110	74-122	
Chloroethane	ug/L	<1.0	50	43.3	87	35-146	
Chloroform	ug/L	<1.0	50	49.0	98	71-129	
Chloromethane	ug/L	<1.0	50	33.1	66	29-112	v3
cis-1,3-Dichloropropene	ug/L	<1.0	50	55.3	111	67-130	
Dibromochloromethane	ug/L	<1.0	50	52.6	105	55-126	
Ethylbenzene	ug/L	<1.0	50	60.5	121	70-126	
Methylene Chloride	ug/L	<1.0	50	47.3	95	69-117	
Styrene	ug/L	<1.0	50	60.2	120	79-123	
Tetrachloroethene	ug/L	<1.0	50	58.0	116	64-124	
Toluene	ug/L	<1.0	50	56.2	112	76-123	
trans-1,3-Dichloropropene	ug/L	<1.0	50	53.5	107	61-130	
Trichloroethene	ug/L	<1.0	50	51.3	103	73-125	
Vinyl chloride	ug/L	<1.0	50	39.1	78	33-127	
Xylene (Total)	ug/L	<3.0	150	186	124	78-123	MS
1,2-Dichloroethane-d4 (S)	%				91	81-122	
4-Bromofluorobenzene (S)	%				95	79-118	
Toluene-d8 (S)	%				103	82-122	

SAMPLE DUPLICATE: 1207109

Parameter	Units	70198605001 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		IC
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	16.5	17.1	4	
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		v3
2-Hexanone	ug/L	<5.0	<5.0		

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

SAMPLE DUPLICATE: 1207109

Parameter	Units	70198605001 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		IH,v3
Benzene	ug/L	<0.70	<0.70		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		v3
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		v3
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	34.6	30.0	14	
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)	%	92	95		
4-Bromofluorobenzene (S)	%	85	90		
Toluene-d8 (S)	%	103	101		

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**QUALITY CONTROL DATA**

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

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QC Batch:	238117	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70198605001, 70198605002, 70198605003

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SAMPLE DUPLICATE: 1202666

Parameter	Units	70198355001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.6	7.6		0 H3,H6,N3
Temperature, Water (C)	deg C	16.2	16.1		1 H3,H6

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

QC Batch: 238328	Analysis Method: SM22 4500-H+B
QC Batch Method: SM22 4500-H+B	Analysis Description: 4500H+B pH
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70198605004

SAMPLE DUPLICATE: 1203742

Parameter	Units	70198605004 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.2	6.2		0 H3,H6,N3
Temperature, Water (C)	deg C	17.1	17.1		0 H3,H6

SAMPLE DUPLICATE: 1203743

Parameter	Units	70198605004 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.2	6.2		0 H3,H6,N3
Temperature, Water (C)	deg C	17.1	17.3		1 H3,H6

SAMPLE DUPLICATE: 1203744

Parameter	Units	70198605004 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.2	6.2		0 H3,H6,N3
Temperature, Water (C)	deg C	17.1	17.2		1 H3,H6

SAMPLE DUPLICATE: 1203745

Parameter	Units	70198605004 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.2	6.2		0 H3,H6,N3
Temperature, Water (C)	deg C	17.1	17.2		1 H3,H6

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 12/20  
Pace Project No.: 70198605

QC Batch: 238974 Analysis Method: SM22 5310B  
QC Batch Method: SM22 5310B Analysis Description: 5310B TOC  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70198605001, 70198605002, 70198605003, 70198605004

METHOD BLANK: 1207581 Matrix: Water  
Associated Lab Samples: 70198605001, 70198605002, 70198605003, 70198605004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	12/30/21 19:13	

LABORATORY CONTROL SAMPLE: 1207582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.0	90	85-115	

MATRIX SPIKE SAMPLE: 1207584

Parameter	Units	70198458001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.4	10	11.0	96	75-125	

SAMPLE DUPLICATE: 1207583

Parameter	Units	70198458001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	1.4	1.3	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

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## QUALIFIERS

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN1001/MINMILT 12/20

Pace Project No.: 70198605

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70198605001	SYS-EFF	EPA 200.7	239452	EPA 200.7	239570
70198605002	SYS-INF	EPA 200.7	239452	EPA 200.7	239570
70198605003	MAG	EPA 200.7	239452	EPA 200.7	239570
70198605004	UG	EPA 200.7	239452	EPA 200.7	239570
70198605001	SYS-EFF	EPA 8260C/5030C	238776		
70198605002	SYS-INF	EPA 8260C/5030C	238776		
70198605003	MAG	EPA 8260C/5030C	238776		
70198605004	UG	EPA 8260C/5030C	238776		
70198605001	SYS-EFF	SM22 4500-H+B	238117		
70198605002	SYS-INF	SM22 4500-H+B	238117		
70198605003	MAG	SM22 4500-H+B	238117		
70198605004	UG	SM22 4500-H+B	238328		
70198605001	SYS-EFF	SM22 5310B	238974		
70198605002	SYS-INF	SM22 5310B	238974		
70198605003	MAG	SM22 5310B	238974		
70198605004	UG	SM22 5310B	238974		

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### CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hibak/pas-standard-terms.pdf>  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

#### Billing Information:

Company: PWGC  
Address: 630 Johnson Ave, Bohemia, NY  
Report To: Kaitlyn Crosby  
Copy To: Kaitlyn Crosby

Email To: Kerosby@pwwasser.com  
Site Collection Info/Address: 540 Smith Street

State: County/City: Time Zone Collected:  
NY / Farmingdale [ ] PT [ ] MT [ ] CT [ ] ET  
Compliance Monitoring?  
[ ] Yes [ ] No

DW PWS ID #: DW Location Code:  
Immediately Packed on Ice:  
[ ] Yes [ ] No

Field Filtered (if applicable):  
[ ] Yes [ ] No

Analysis:

Collected (or Composite Start) Date Time

Composite End Date Time

Res CI

# of Ctns

Container Type: Plastic (P) or Glass (G)

Customer Sample ID

Matrix \*

Comp / Grab

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<5000 ppm): Y N (NA)

Relinquished by/Company: (Signature) Date/Time: 12-20-21 1347

Relinquished by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time: 12/20/21 1:49

Received by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

MTJ LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Date/Time:

Date/Time:

Date/Time:

courier Pace Courier

Short Holds Present (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt:

Cooler 1 Therm Corr. Factor:

Cooler 1 Corrected Temp:

Comments:

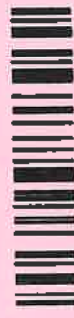
Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: of:

WO#: 70198605



70198605

Container Preservative Type: 3 1 V Z

Lab Project Manager: EMA

\*\* 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	<input type="checkbox"/> NA
Custody Signatures Present	<input type="checkbox"/> NA
Collector Signatures Present	<input type="checkbox"/> NA
Bottles Intact	<input type="checkbox"/> NA
Correct Bottles	<input type="checkbox"/> NA
Sufficient Volume	<input type="checkbox"/> NA
Samples Received on Ice	<input type="checkbox"/> NA
VOA - Headspace Acceptable	<input type="checkbox"/> NA
USDA Regulated Soils	<input type="checkbox"/> NA
Samples in Holding Time	<input type="checkbox"/> NA
Residual Chlorine Present	<input type="checkbox"/> NA
Cl Strips:	<input type="checkbox"/> NA
Sample pH Acceptable	<input type="checkbox"/> NA
pH Strips:	<input type="checkbox"/> NA
Sulfide Present	<input type="checkbox"/> NA
Lead Acetate Strips:	<input type="checkbox"/> NA
LAB USE ONLY:	
Lab Sample # / Comments:	

Analyses	Result
VOC	X
Iron	X
pH	X
TOC	X

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used:	Wet	Blue	Dry	None
		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Relinquished by/Company: (Signature) Date/Time: 12-20-21 1347

Relinquished by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time: 12/20/21 1:49

Received by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

courier Pace Courier

Short Holds Present (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt:

Cooler 1 Therm Corr. Factor:

Cooler 1 Corrected Temp:

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: of:

February 01, 2022

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

RE: Project: MIN1001/MINMILT 1/18  
Pace Project No.: 70201117

Dear Kaitlyn Crosby:

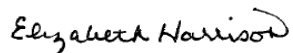
Enclosed are the analytical results for sample(s) received by the laboratory on January 18, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

Sample: SYS - EFF	Lab ID: 70201117001	Collected: 01/18/22 11:30	Received: 01/18/22 13:16	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	10600	ug/L	100	1	01/25/22 10:58	01/26/22 13:08	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/20/22 21:05	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/20/22 21:05	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/20/22 21:05	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/20/22 21:05	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/20/22 21:05	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/20/22 21:05	107-06-2	
1,2-Dichloroethene (Total)	22.3	ug/L	2.0	1		01/20/22 21:05	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/20/22 21:05	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/20/22 21:05	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/20/22 21:05	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/20/22 21:05	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/20/22 21:05	67-64-1	
Benzene	<0.70	ug/L	0.70	1		01/20/22 21:05	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/20/22 21:05	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		01/20/22 21:05	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/20/22 21:05	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/20/22 21:05	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/20/22 21:05	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/20/22 21:05	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/20/22 21:05	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/20/22 21:05	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		01/20/22 21:05	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/20/22 21:05	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		01/20/22 21:05	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		01/20/22 21:05	75-09-2	
Styrene	<1.0	ug/L	1.0	1		01/20/22 21:05	100-42-5	
Tetrachloroethene	24.7	ug/L	1.0	1		01/20/22 21:05	127-18-4	
Toluene	<1.0	ug/L	1.0	1		01/20/22 21:05	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		01/20/22 21:05	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		01/20/22 21:05	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/20/22 21:05	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/20/22 21:05	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/20/22 21:05	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		01/20/22 21:05	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		01/20/22 21:05	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		01/20/22 21:05	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	6.3	Std. Units	0.10	1		01/21/22 17:37		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

Sample: <b>SYS - EFF</b>		Lab ID: <b>70201117001</b>		Collected: 01/18/22 11:30	Received: 01/18/22 13:16	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>14.0</b>	deg C	0.10	1		01/21/22 17:37		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.2</b>	mg/L	1.0	1		01/19/22 18:35	7440-44-0	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

Sample: <b>SYS - INF</b>	Lab ID: <b>70201117002</b>	Collected: 01/18/22 11:40	Received: 01/18/22 13:16	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>13800</b>	ug/L	100	1	01/25/22 10:58	01/26/22 13:10	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/20/22 20:28	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/20/22 20:28	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/20/22 20:28	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/20/22 20:28	75-34-3	
1,1-Dichloroethene	<b>3.0</b>	ug/L	1.0	1		01/20/22 20:28	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/20/22 20:28	107-06-2	
1,2-Dichloroethene (Total)	<b>1800</b>	ug/L	40.0	20		01/20/22 20:47	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/20/22 20:28	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/20/22 20:28	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/20/22 20:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/20/22 20:28	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/20/22 20:28	67-64-1	
Benzene	<0.70	ug/L	0.70	1		01/20/22 20:28	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/20/22 20:28	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		01/20/22 20:28	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/20/22 20:28	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/20/22 20:28	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/20/22 20:28	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/20/22 20:28	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/20/22 20:28	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/20/22 20:28	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		01/20/22 20:28	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/20/22 20:28	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		01/20/22 20:28	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		01/20/22 20:28	75-09-2	
Styrene	<1.0	ug/L	1.0	1		01/20/22 20:28	100-42-5	
Tetrachloroethene	<b>1030</b>	ug/L	20.0	20		01/20/22 20:47	127-18-4	
Toluene	<1.0	ug/L	1.0	1		01/20/22 20:28	108-88-3	
Trichloroethene	<b>183</b>	ug/L	20.0	20		01/20/22 20:47	79-01-6	
Vinyl chloride	<b>51.2</b>	ug/L	1.0	1		01/20/22 20:28	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/20/22 20:28	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/20/22 20:28	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/20/22 20:28	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		01/20/22 20:28	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		01/20/22 20:28	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		01/20/22 20:28	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>5.9</b>	Std. Units	0.10	1		01/21/22 17:37		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

<b>Sample: SYS - INF</b>		<b>Lab ID: 70201117002</b>		Collected: 01/18/22 11:40	Received: 01/18/22 13:16	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>13.1</b>	deg C	0.10	1		01/21/22 17:37		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.4</b>	mg/L	1.0	1		01/19/22 18:58	7440-44-0	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 1/18  
Pace Project No.: 70201117

Sample: <b>MAG</b>		Lab ID: <b>70201117003</b>	Collected: 01/18/22 11:50	Received: 01/18/22 13:16	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>5710</b>	ug/L	100	1	01/25/22 10:58	01/26/22 13:18	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/21/22 01:46	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/21/22 01:46	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/21/22 01:46	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/21/22 01:46	75-34-3	
1,1-Dichloroethene	<b>1.7</b>	ug/L	1.0	1		01/21/22 01:46	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/21/22 01:46	107-06-2	
1,2-Dichloroethene (Total)	<b>987</b>	ug/L	40.0	20		01/25/22 20:41	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/21/22 01:46	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/21/22 01:46	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/21/22 01:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/21/22 01:46	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/21/22 01:46	67-64-1	
Benzene	<0.70	ug/L	0.70	1		01/21/22 01:46	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/21/22 01:46	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		01/21/22 01:46	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/21/22 01:46	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/21/22 01:46	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/21/22 01:46	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/21/22 01:46	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/21/22 01:46	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/21/22 01:46	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		01/21/22 01:46	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/21/22 01:46	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		01/21/22 01:46	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		01/21/22 01:46	75-09-2	
Styrene	<1.0	ug/L	1.0	1		01/21/22 01:46	100-42-5	
Tetrachloroethene	<b>1730</b>	ug/L	20.0	20		01/25/22 20:41	127-18-4	
Toluene	<1.0	ug/L	1.0	1		01/21/22 01:46	108-88-3	
Trichloroethene	<b>72.3</b>	ug/L	1.0	1		01/21/22 01:46	79-01-6	
Vinyl chloride	<b>4.8</b>	ug/L	1.0	1		01/21/22 01:46	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/21/22 01:46	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/21/22 01:46	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/21/22 01:46	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		01/21/22 01:46	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		01/21/22 01:46	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		01/21/22 01:46	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>5.8</b>	Std. Units	0.10	1		01/21/22 17:38		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

<b>Sample: MAG</b>		<b>Lab ID: 70201117003</b>		Collected: 01/18/22 11:50	Received: 01/18/22 13:16	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>14.4</b>	deg C	0.10	1		01/21/22 17:38		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>1.3</b>	mg/L	1.0	1		01/20/22 19:20	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

Sample: UG	Lab ID: 70201117004	Collected: 01/18/22 12:00	Received: 01/18/22 13:16	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	24000	ug/L	100	1	01/25/22 10:58	01/26/22 13:21	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/21/22 02:05	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/21/22 02:05	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/21/22 02:05	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/21/22 02:05	75-34-3	
1,1-Dichloroethene	4.5	ug/L	1.0	1		01/21/22 02:05	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/21/22 02:05	107-06-2	
1,2-Dichloroethene (Total)	2780	ug/L	40.0	20		01/25/22 21:00	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/21/22 02:05	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/21/22 02:05	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/21/22 02:05	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/21/22 02:05	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/21/22 02:05	67-64-1	
Benzene	<0.70	ug/L	0.70	1		01/21/22 02:05	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/21/22 02:05	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		01/21/22 02:05	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/21/22 02:05	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/21/22 02:05	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/21/22 02:05	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/21/22 02:05	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/21/22 02:05	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/21/22 02:05	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		01/21/22 02:05	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/21/22 02:05	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		01/21/22 02:05	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		01/21/22 02:05	75-09-2	
Styrene	<1.0	ug/L	1.0	1		01/21/22 02:05	100-42-5	
Tetrachloroethene	1040	ug/L	20.0	20		01/25/22 21:00	127-18-4	
Toluene	<1.0	ug/L	1.0	1		01/21/22 02:05	108-88-3	
Trichloroethene	354	ug/L	20.0	20		01/25/22 21:00	79-01-6	
Vinyl chloride	100	ug/L	1.0	1		01/21/22 02:05	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/21/22 02:05	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/21/22 02:05	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/21/22 02:05	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		01/21/22 02:05	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-118	1		01/21/22 02:05	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		01/21/22 02:05	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	5.8	Std. Units	0.10	1		01/21/22 17:38		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

<b>Sample: UG</b>		<b>Lab ID: 70201117004</b>		Collected: 01/18/22 12:00	Received: 01/18/22 13:16	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>14.4</b>	deg C	0.10	1		01/21/22 17:38		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>8.2</b>	mg/L	1.0	1		01/20/22 19:33	7440-44-0	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

QC Batch: 241833

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70201117001, 70201117002, 70201117003, 70201117004

METHOD BLANK: 1222122

Matrix: Water

Associated Lab Samples: 70201117001, 70201117002, 70201117003, 70201117004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	01/26/22 12:30	

LABORATORY CONTROL SAMPLE: 1222123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12600	101	85-115	

MATRIX SPIKE SAMPLE: 1222125

Parameter	Units	70200869001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	12500	11700	93	70-130	

MATRIX SPIKE SAMPLE: 1222128

Parameter	Units	30459116001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	70.9J	12500	12200	97	70-130	

SAMPLE DUPLICATE: 1222124

Parameter	Units	70200869001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 1222127

Parameter	Units	30459116001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	70.9J	<100		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 1/18  
Pace Project No.: 70201117

QC Batch: 241454      Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C      Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70201117001, 70201117002, 70201117003, 70201117004

METHOD BLANK: 1220111      Matrix: Water  
Associated Lab Samples: 70201117001, 70201117002, 70201117003, 70201117004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	01/20/22 19:21	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	01/20/22 19:21	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	01/20/22 19:21	IC
1,1-Dichloroethane	ug/L	<1.0	1.0	01/20/22 19:21	
1,1-Dichloroethene	ug/L	<1.0	1.0	01/20/22 19:21	
1,2-Dichloroethane	ug/L	<1.0	1.0	01/20/22 19:21	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	01/20/22 19:21	
1,2-Dichloropropane	ug/L	<1.0	1.0	01/20/22 19:21	
2-Butanone (MEK)	ug/L	<5.0	5.0	01/20/22 19:21	
2-Hexanone	ug/L	<5.0	5.0	01/20/22 19:21	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	01/20/22 19:21	
Acetone	ug/L	<5.0	5.0	01/20/22 19:21	
Benzene	ug/L	<0.70	0.70	01/20/22 19:21	
Bromodichloromethane	ug/L	<1.0	1.0	01/20/22 19:21	
Bromoform	ug/L	<1.0	1.0	01/20/22 19:21	
Bromomethane	ug/L	<1.0	1.0	01/20/22 19:21	
Carbon disulfide	ug/L	<1.0	1.0	01/20/22 19:21	
Carbon tetrachloride	ug/L	<1.0	1.0	01/20/22 19:21	
Chlorobenzene	ug/L	<1.0	1.0	01/20/22 19:21	
Chloroethane	ug/L	<1.0	1.0	01/20/22 19:21	
Chloroform	ug/L	<1.0	1.0	01/20/22 19:21	
Chloromethane	ug/L	<1.0	1.0	01/20/22 19:21	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	01/20/22 19:21	
Dibromochloromethane	ug/L	<1.0	1.0	01/20/22 19:21	
Ethylbenzene	ug/L	<1.0	1.0	01/20/22 19:21	
Methylene Chloride	ug/L	<1.0	1.0	01/20/22 19:21	
Styrene	ug/L	<1.0	1.0	01/20/22 19:21	
Tetrachloroethene	ug/L	<1.0	1.0	01/20/22 19:21	
Toluene	ug/L	<1.0	1.0	01/20/22 19:21	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	01/20/22 19:21	
Trichloroethene	ug/L	<1.0	1.0	01/20/22 19:21	
Vinyl chloride	ug/L	<1.0	1.0	01/20/22 19:21	
Xylene (Total)	ug/L	<3.0	3.0	01/20/22 19:21	
1,2-Dichloroethane-d4 (S)	%	103	81-122	01/20/22 19:21	
4-Bromofluorobenzene (S)	%	96	79-118	01/20/22 19:21	
Toluene-d8 (S)	%	101	82-122	01/20/22 19:21	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

LABORATORY CONTROL SAMPLE: 1220112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	39.5	79	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	48.2	96	70-127	
1,1,2-Trichloroethane	ug/L	50	45.6	91	81-119	IC
1,1-Dichloroethane	ug/L	50	46.3	93	72-126	
1,1-Dichloroethene	ug/L	50	47.2	94	66-133	
1,2-Dichloroethane	ug/L	50	50.7	101	69-134	
1,2-Dichloroethene (Total)	ug/L	100	93.6	94	69-123	
1,2-Dichloropropane	ug/L	50	44.5	89	75-125	
2-Butanone (MEK)	ug/L	50	38.3	77	33-165	
2-Hexanone	ug/L	50	52.4	105	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.0	100	62-131	
Acetone	ug/L	50	45.3	91	14-156	IH
Benzene	ug/L	50	45.1	90	78-117	
Bromodichloromethane	ug/L	50	45.6	91	80-123	
Bromoform	ug/L	50	43.3	87	49-138	
Bromomethane	ug/L	50	44.9	90	10-143	
Carbon disulfide	ug/L	50	43.9	88	66-133	
Carbon tetrachloride	ug/L	50	39.4	79	64-135	
Chlorobenzene	ug/L	50	44.8	90	79-117	
Chloroethane	ug/L	50	43.3	87	31-156	
Chloroform	ug/L	50	47.6	95	79-123	
Chloromethane	ug/L	50	47.4	95	39-116	
cis-1,3-Dichloropropene	ug/L	50	47.6	95	78-131	
Dibromochloromethane	ug/L	50	47.7	95	65-123	
Ethylbenzene	ug/L	50	47.7	95	79-115	
Methylene Chloride	ug/L	50	46.0	92	67-123	
Styrene	ug/L	50	50.7	101	82-121	
Tetrachloroethene	ug/L	50	56.8	114	65-120	
Toluene	ug/L	50	46.5	93	80-114	
trans-1,3-Dichloropropene	ug/L	50	48.4	97	73-135	
Trichloroethene	ug/L	50	42.8	86	79-115	
Vinyl chloride	ug/L	50	45.8	92	49-118	
Xylene (Total)	ug/L	150	150	100	80-118	
1,2-Dichloroethane-d4 (S)	%			99	81-122	
4-Bromofluorobenzene (S)	%			100	79-118	
Toluene-d8 (S)	%			102	82-122	

MATRIX SPIKE SAMPLE: 1224793

Parameter	Units	70201058002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	45.9	92	72-123	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	45.7	91	64-133	
1,1,2-Trichloroethane	ug/L	<1.0	50	46.8	94	78-120	IC
1,1-Dichloroethane	ug/L	<1.0	50	50.1	100	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	55.3	111	61-139	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

MATRIX SPIKE SAMPLE: 1224793

Parameter	Units	70201058002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	51.7	103	58-138	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	104	104	59-133	
1,2-Dichloropropane	ug/L	<1.0	50	48.2	96	74-122	
2-Butanone (MEK)	ug/L	<5.0	50	31.1	62	33-148	
2-Hexanone	ug/L	<5.0	50	44.0	88	49-124	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	47.9	96	60-136	
Acetone	ug/L	<5.0	50	31.8	64	35-112	IH
Benzene	ug/L	<0.70	50	49.3	99	70-130	
Bromodichloromethane	ug/L	<1.0	50	47.3	95	74-122	
Bromoform	ug/L	<1.0	50	41.3	83	39-139	
Bromomethane	ug/L	<1.0	50	50.3	101	10-130	
Carbon disulfide	ug/L	<1.0	50	50.9	102	60-129	
Carbon tetrachloride	ug/L	<1.0	50	45.4	91	56-143	
Chlorobenzene	ug/L	<1.0	50	48.1	96	74-122	
Chloroethane	ug/L	<1.0	50	50.5	101	35-146	
Chloroform	ug/L	<1.0	50	51.1	102	71-129	
Chloromethane	ug/L	<1.0	50	52.0	104	29-112	
cis-1,3-Dichloropropene	ug/L	<1.0	50	48.8	98	67-130	
Dibromochloromethane	ug/L	<1.0	50	49.2	98	55-126	
Ethylbenzene	ug/L	<1.0	50	53.2	106	70-126	
Methylene Chloride	ug/L	<1.0	50	48.6	97	69-117	
Styrene	ug/L	<1.0	50	50.4	101	79-123	
Tetrachloroethene	ug/L	<1.0	50	47.8	96	64-124	
Toluene	ug/L	<1.0	50	50.3	101	76-123	
trans-1,3-Dichloropropene	ug/L	<1.0	50	48.6	97	61-130	
Trichloroethene	ug/L	<1.0	50	47.7	95	73-125	
Vinyl chloride	ug/L	<1.0	50	54.8	110	33-127	
Xylene (Total)	ug/L	<3.0	150	157	104	78-123	
1,2-Dichloroethane-d4 (S)	%				102	81-122	
4-Bromofluorobenzene (S)	%				95	79-118	
Toluene-d8 (S)	%				102	82-122	

SAMPLE DUPLICATE: 1224792

Parameter	Units	70201058001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		IC
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

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

SAMPLE DUPLICATE: 1224792

Parameter	Units	70201058001 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	<0.70	<0.70		
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	<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)	%	106	99		
4-Bromofluorobenzene (S)	%	96	90		
Toluene-d8 (S)	%	101	102		

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

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

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QC Batch:	241555	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70201117001, 70201117002, 70201117003, 70201117004

---

SAMPLE DUPLICATE: 1220453

Parameter	Units	70200920001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.1	6.2		0 H3,H6,N3
Temperature, Water (C)	deg C	14.1	14.2		1 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

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

QC Batch: 241100

Analysis Method: SM22 5310B

QC Batch Method: SM22 5310B

Analysis Description: 5310B TOC

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70201117001, 70201117002

METHOD BLANK: 1218513

Matrix: Water

Associated Lab Samples: 70201117001, 70201117002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	01/19/22 14:09	

LABORATORY CONTROL SAMPLE: 1218514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.4	94	85-115	

MATRIX SPIKE SAMPLE: 1218567

Parameter	Units	70201058001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.3	10	11.1	98	75-125	

SAMPLE DUPLICATE: 1218566

Parameter	Units	70201058001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	1.3	1.4	5	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

QC Batch: 241324

Analysis Method: SM22 5310B

QC Batch Method: SM22 5310B

Analysis Description: 5310B TOC

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70201117003, 70201117004

METHOD BLANK: 1219488

Matrix: Water

Associated Lab Samples: 70201117003, 70201117004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	01/20/22 16:44	

LABORATORY CONTROL SAMPLE: 1219489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.4	94	85-115	

MATRIX SPIKE SAMPLE: 1219491

Parameter	Units	70201120009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<340 ppb	10	9.4	93	75-125	

SAMPLE DUPLICATE: 1219490

Parameter	Units	70201120009 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	<340 ppb	<1.0		

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## QUALIFIERS

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN1001/MINMILT 1/18

Pace Project No.: 70201117

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70201117001	SYS - EFF	EPA 200.7	241833	EPA 200.7	241899
70201117002	SYS - INF	EPA 200.7	241833	EPA 200.7	241899
70201117003	MAG	EPA 200.7	241833	EPA 200.7	241899
70201117004	UG	EPA 200.7	241833	EPA 200.7	241899
70201117001	SYS - EFF	EPA 8260C/5030C	241454		
70201117002	SYS - INF	EPA 8260C/5030C	241454		
70201117003	MAG	EPA 8260C/5030C	241454		
70201117004	UG	EPA 8260C/5030C	241454		
70201117001	SYS - EFF	SM22 4500-H+B	241555		
70201117002	SYS - INF	SM22 4500-H+B	241555		
70201117003	MAG	SM22 4500-H+B	241555		
70201117004	UG	SM22 4500-H+B	241555		
70201117001	SYS - EFF	SM22 5310B	241100		
70201117002	SYS - INF	SM22 5310B	241100		
70201117003	MAG	SM22 5310B	241324		
70201117004	UG	SM22 5310B	241324		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: PWGC  
 Address: 630 Johnson Ave, Bohemia, NY  
 Report To: Kaitlyn Crosby  
 Copy To: Kaitlyn Crosby

Billing Information:  
 Email To: Kerosby @ pygrosser.com  
 Site Collection Info/Address:  
540 Smith Street  
 State: NY, County/City: Farmingdale Time Zone Collected: ET

Customer Project Name/Number: MTN100 / Min Mill  
 Phone: 631-589-6353  
 Email: Kerosby @ pygrosser.com  
 Collected By (print): Kaitlyn Crosby  
 Collected By (signature): [Signature]  
 Sample Disposal:  
 Dispose as appropriate  
 Return  
 Archive: \_\_\_\_\_  
 Hold: \_\_\_\_\_

Site/Facility ID #: \_\_\_\_\_  
 Purchase Order #: \_\_\_\_\_  
 Quote #: \_\_\_\_\_  
 Turnaround Date Required: Standard  
 Rush: (Expedite Charges Apply)  
 Same Day ( ) Next Day  
 1-2 Day ( ) 3 Day  
 1-4 Day ( ) 5 Day  
 Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected for		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Composite Start Date	Time			
<u>SYS-EFF</u>	<u>G-W</u>	<u>Grab</u>	<u>1-18-22</u>	<u>1130</u>	<u>6</u>	<u>9/6</u>	<u>VOC</u>
<u>SYS-INE</u>	<u>↓</u>	<u>↓</u>	<u>1140</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>PH</u>
<u>MAG</u>	<u>↓</u>	<u>↓</u>	<u>1150</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TC</u>
<u>UG</u>	<u>↓</u>	<u>↓</u>	<u>1200</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TC</u>

LAB USE OF	LAB USE ONLY: LAB Sample # / Comments:
<u>3</u>	<u>AC559108</u>
<u>1</u>	
<u>0</u>	

Lab Profile/Line:  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact: Y / NA  
 Custody Signatures Present: Y / NA  
 Collector Signature Present: Y / NA  
 Bottles Intact: Y / NA  
 Correct Bottles: Y / NA  
 Sufficient Volume: Y / NA  
 Samples Received on Ice: Y / NA  
 VOA - Headspace Acceptable: Y / NA  
 USDA Regulated Soils: Y / NA  
 Samples in Holding Time: Y / NA  
 Residual Chlorine Present: Y / NA  
 Cl Strips: \_\_\_\_\_  
 Sample pH Acceptable: Y / NA  
 pH Strips: AC559108  
 Sulfide Present: \_\_\_\_\_  
 Lead Acetate Strips: \_\_\_\_\_

Analyses:  
 \*\* 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

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: Bubble  
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A  
 Lab Tracking #: \_\_\_\_\_  
 Samples received via:  
 FEDEX UPS Client Courier Pace Courier  
 MTJ/LAB USE ONLY

LAB Sample Temperature Info:  
 Temp Blank Received: Y / NA  
 Therm ID#: 114041  
 Cooler 1 Temp Upon Receipt: 0.4 °C  
 Cooler 1 Therm Corr. Factor: \_\_\_\_\_  
 Cooler 1 Corrected Temp: 0.4 °C  
 Comments:

Relinquished by/Company: (Signature) [Signature] PWGC  
 Date/Time: 1-18-22 1316  
 Received by/Company: (Signature) [Signature]  
 Date/Time: 1-18-22 1316

Table #: \_\_\_\_\_  
 Acctnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PB: \_\_\_\_\_

Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): \_\_\_\_\_  
 YES / NO Page: 1 of: 1

LAB USE OF: **WO# : 70201117**  
 Barcode:   
 70201117

Content: 3  
1  
0  
 Email: EM

March 03, 2022

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

RE: Project: MIN1001/MINMILT 2/17  
Pace Project No.: 70204626

Dear Kaitlyn Crosby:

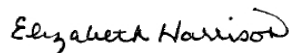
Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

Sample: <b>SYS-EFF</b>		Lab ID: <b>70204626001</b>	Collected: 02/17/22 11:45	Received: 02/17/22 12:47	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>21000</b>	ug/L	100	1	02/24/22 08:55	03/03/22 13:49	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/23/22 16:00	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/23/22 16:00	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/23/22 16:00	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		02/23/22 16:00	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		02/23/22 16:00	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/23/22 16:00	107-06-2	
1,2-Dichloroethene (Total)	<b>26.2</b>	ug/L	2.0	1		02/23/22 16:00	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/23/22 16:00	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/23/22 16:00	78-93-3	v3
2-Hexanone	<5.0	ug/L	5.0	1		02/23/22 16:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/23/22 16:00	108-10-1	
Acetone	<5.0	ug/L	5.0	1		02/23/22 16:00	67-64-1	
Benzene	<0.70	ug/L	0.70	1		02/23/22 16:00	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		02/23/22 16:00	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		02/23/22 16:00	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		02/23/22 16:00	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		02/23/22 16:00	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/23/22 16:00	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		02/23/22 16:00	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		02/23/22 16:00	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		02/23/22 16:00	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		02/23/22 16:00	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		02/23/22 16:00	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		02/23/22 16:00	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		02/23/22 16:00	75-09-2	
Styrene	<1.0	ug/L	1.0	1		02/23/22 16:00	100-42-5	
Tetrachloroethene	<b>23.3</b>	ug/L	1.0	1		02/23/22 16:00	127-18-4	
Toluene	<1.0	ug/L	1.0	1		02/23/22 16:00	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		02/23/22 16:00	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		02/23/22 16:00	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		02/23/22 16:00	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/23/22 16:00	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/23/22 16:00	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	91	%	81-122	1		02/23/22 16:00	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		02/23/22 16:00	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		02/23/22 16:00	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>6.7</b>	Std. Units	0.10	1		02/18/22 15:56		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

<b>Sample: SYS-EFF</b>		<b>Lab ID: 70204626001</b>		Collected: 02/17/22 11:45	Received: 02/17/22 12:47	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>11.1</b>	deg C	0.10	1		02/18/22 15:56		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.9</b>	mg/L	1.0	1		02/21/22 19:04	7440-44-0	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

Sample: <b>SYS-INF</b>	Lab ID: <b>70204626002</b>	Collected: 02/17/22 11:50	Received: 02/17/22 12:47	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>16300</b>	ug/L	100	1	02/24/22 08:55	03/03/22 13:51	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/23/22 13:30	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/23/22 13:30	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/23/22 13:30	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		02/23/22 13:30	75-34-3	
1,1-Dichloroethene	<b>2.7</b>	ug/L	1.0	1		02/23/22 13:30	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/23/22 13:30	107-06-2	
1,2-Dichloroethene (Total)	<b>1960</b>	ug/L	50.0	25		02/23/22 13:56	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/23/22 13:30	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/23/22 13:30	78-93-3	v3
2-Hexanone	<5.0	ug/L	5.0	1		02/23/22 13:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/23/22 13:30	108-10-1	
Acetone	<5.0	ug/L	5.0	1		02/23/22 13:30	67-64-1	
Benzene	<0.70	ug/L	0.70	1		02/23/22 13:30	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		02/23/22 13:30	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		02/23/22 13:30	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		02/23/22 13:30	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		02/23/22 13:30	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/23/22 13:30	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		02/23/22 13:30	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		02/23/22 13:30	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		02/23/22 13:30	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		02/23/22 13:30	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		02/23/22 13:30	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		02/23/22 13:30	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		02/23/22 13:30	75-09-2	
Styrene	<1.0	ug/L	1.0	1		02/23/22 13:30	100-42-5	
Tetrachloroethene	<b>978</b>	ug/L	25.0	25		02/23/22 13:56	127-18-4	
Toluene	<1.0	ug/L	1.0	1		02/23/22 13:30	108-88-3	
Trichloroethene	<b>200</b>	ug/L	1.0	1		02/23/22 13:30	79-01-6	
Vinyl chloride	<b>59.4</b>	ug/L	1.0	1		02/23/22 13:30	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		02/23/22 13:30	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/23/22 13:30	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/23/22 13:30	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	90	%	81-122	1		02/23/22 13:30	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		02/23/22 13:30	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		02/23/22 13:30	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.4</b>	Std. Units	0.10	1		02/18/22 15:58		H3,H6, N3

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

<b>Sample: SYS-INF</b>		<b>Lab ID: 70204626002</b>		Collected: 02/17/22 11:50	Received: 02/17/22 12:47	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>10.7</b>	deg C	0.10	1		02/18/22 15:58		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>5.0</b>	mg/L	1.0	1		02/21/22 19:16	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

Sample: <b>MAG</b>	Lab ID: <b>70204626003</b>	Collected: 02/17/22 11:55	Received: 02/17/22 12:47	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>6620</b>	ug/L	100	1	02/24/22 08:55	03/03/22 13:54	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/23/22 14:15	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/23/22 14:15	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/23/22 14:15	79-00-5	IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		02/23/22 14:15	75-34-3	
1,1-Dichloroethene	<b>1.8</b>	ug/L	1.0	1		02/23/22 14:15	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/23/22 14:15	107-06-2	
1,2-Dichloroethene (Total)	<b>1080</b>	ug/L	40.0	20		02/23/22 14:55	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/23/22 14:15	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/23/22 14:15	78-93-3	v3
2-Hexanone	<5.0	ug/L	5.0	1		02/23/22 14:15	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/23/22 14:15	108-10-1	
Acetone	<5.0	ug/L	5.0	1		02/23/22 14:15	67-64-1	
Benzene	<0.70	ug/L	0.70	1		02/23/22 14:15	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		02/23/22 14:15	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		02/23/22 14:15	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		02/23/22 14:15	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		02/23/22 14:15	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/23/22 14:15	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		02/23/22 14:15	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		02/23/22 14:15	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		02/23/22 14:15	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		02/23/22 14:15	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		02/23/22 14:15	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		02/23/22 14:15	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		02/23/22 14:15	75-09-2	
Styrene	<1.0	ug/L	1.0	1		02/23/22 14:15	100-42-5	
Tetrachloroethene	<b>1080</b>	ug/L	20.0	20		02/23/22 14:55	127-18-4	
Toluene	<1.0	ug/L	1.0	1		02/23/22 14:15	108-88-3	
Trichloroethene	<b>69.6</b>	ug/L	1.0	1		02/23/22 14:15	79-01-6	
Vinyl chloride	<b>8.2</b>	ug/L	1.0	1		02/23/22 14:15	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		02/23/22 14:15	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/23/22 14:15	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/23/22 14:15	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	90	%	81-122	1		02/23/22 14:15	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		02/23/22 14:15	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		02/23/22 14:15	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.1</b>	Std. Units	0.10	1		02/18/22 15:59		H3,H6, N3

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

<b>Sample: MAG</b>		<b>Lab ID: 70204626003</b>		Collected: 02/17/22 11:55	Received: 02/17/22 12:47	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>11.7</b>	deg C	0.10	1		02/18/22 15:59		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>1.4</b>	mg/L	1.0	1		02/21/22 19:28	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

Sample: UG		Lab ID: 70204626004		Collected: 02/17/22 12:00		Received: 02/17/22 12:47		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	27100	ug/L	100	1	02/24/22 08:55	03/03/22 13:56	7439-89-6		
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/23/22 15:14	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/23/22 15:14	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/23/22 15:14	79-00-5	IC	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		02/23/22 15:14	75-34-3		
1,1-Dichloroethene	4.3	ug/L	1.0	1		02/23/22 15:14	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/23/22 15:14	107-06-2		
1,2-Dichloroethene (Total)	3080	ug/L	80.0	40		02/23/22 15:41	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/23/22 15:14	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/23/22 15:14	78-93-3	v3	
2-Hexanone	<5.0	ug/L	5.0	1		02/23/22 15:14	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/23/22 15:14	108-10-1		
Acetone	<5.0	ug/L	5.0	1		02/23/22 15:14	67-64-1		
Benzene	<0.70	ug/L	0.70	1		02/23/22 15:14	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		02/23/22 15:14	75-27-4	IC	
Bromoform	<1.0	ug/L	1.0	1		02/23/22 15:14	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		02/23/22 15:14	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		02/23/22 15:14	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/23/22 15:14	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		02/23/22 15:14	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		02/23/22 15:14	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		02/23/22 15:14	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		02/23/22 15:14	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		02/23/22 15:14	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		02/23/22 15:14	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		02/23/22 15:14	75-09-2		
Styrene	<1.0	ug/L	1.0	1		02/23/22 15:14	100-42-5		
Tetrachloroethene	689	ug/L	40.0	40		02/23/22 15:41	127-18-4		
Toluene	<1.0	ug/L	1.0	1		02/23/22 15:14	108-88-3		
Trichloroethene	319	ug/L	40.0	40		02/23/22 15:41	79-01-6		
Vinyl chloride	122	ug/L	1.0	1		02/23/22 15:14	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		02/23/22 15:14	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/23/22 15:14	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/23/22 15:14	10061-02-6		
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	91	%	81-122	1		02/23/22 15:14	17060-07-0		
4-Bromofluorobenzene (S)	98	%	79-118	1		02/23/22 15:14	460-00-4		
Toluene-d8 (S)	100	%	82-122	1		02/23/22 15:14	2037-26-5		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.2	Std. Units	0.10	1		02/18/22 16:01		H3,H6, N3	

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

<b>Sample: UG</b>		<b>Lab ID: 70204626004</b>		Collected: 02/17/22 12:00	Received: 02/17/22 12:47	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>7.5</b>	deg C	0.10	1		02/18/22 16:01		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>9.4</b>	mg/L	1.0	1		02/21/22 19:41	7440-44-0	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 2/17  
Pace Project No.: 70204626

QC Batch: 245733 Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70204626001, 70204626002, 70204626003, 70204626004

METHOD BLANK: 1241708 Matrix: Water  
Associated Lab Samples: 70204626001, 70204626002, 70204626003, 70204626004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	03/03/22 13:25	

LABORATORY CONTROL SAMPLE: 1241709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12500	100	85-115	

MATRIX SPIKE SAMPLE: 1241711

Parameter	Units	70204532001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	5000	5550	111	70-130	

MATRIX SPIKE SAMPLE: 1241713

Parameter	Units	70205006006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	220	5000	5710	110	70-130	

SAMPLE DUPLICATE: 1241710

Parameter	Units	70204532001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 1241712

Parameter	Units	70205006006 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	220	214	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.

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 2/17  
Pace Project No.: 70204626

QC Batch: 245612      Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C      Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70204626001, 70204626002, 70204626003, 70204626004

METHOD BLANK: 1240629      Matrix: Water  
Associated Lab Samples: 70204626001, 70204626002, 70204626003, 70204626004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	02/23/22 10:02	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	02/23/22 10:02	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	02/23/22 10:02	IC
1,1-Dichloroethane	ug/L	<1.0	1.0	02/23/22 10:02	
1,1-Dichloroethene	ug/L	<1.0	1.0	02/23/22 10:02	
1,2-Dichloroethane	ug/L	<1.0	1.0	02/23/22 10:02	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	02/23/22 10:02	
1,2-Dichloropropane	ug/L	<1.0	1.0	02/23/22 10:02	
2-Butanone (MEK)	ug/L	<5.0	5.0	02/23/22 10:02	v3
2-Hexanone	ug/L	<5.0	5.0	02/23/22 10:02	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	02/23/22 10:02	
Acetone	ug/L	<5.0	5.0	02/23/22 10:02	
Benzene	ug/L	<0.70	0.70	02/23/22 10:02	
Bromodichloromethane	ug/L	<1.0	1.0	02/23/22 10:02	IC
Bromoform	ug/L	<1.0	1.0	02/23/22 10:02	
Bromomethane	ug/L	<1.0	1.0	02/23/22 10:02	
Carbon disulfide	ug/L	<1.0	1.0	02/23/22 10:02	
Carbon tetrachloride	ug/L	<1.0	1.0	02/23/22 10:02	
Chlorobenzene	ug/L	<1.0	1.0	02/23/22 10:02	
Chloroethane	ug/L	<1.0	1.0	02/23/22 10:02	
Chloroform	ug/L	<1.0	1.0	02/23/22 10:02	
Chloromethane	ug/L	<1.0	1.0	02/23/22 10:02	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	02/23/22 10:02	
Dibromochloromethane	ug/L	<1.0	1.0	02/23/22 10:02	
Ethylbenzene	ug/L	<1.0	1.0	02/23/22 10:02	
Methylene Chloride	ug/L	<1.0	1.0	02/23/22 10:02	
Styrene	ug/L	<1.0	1.0	02/23/22 10:02	
Tetrachloroethene	ug/L	<1.0	1.0	02/23/22 10:02	
Toluene	ug/L	<1.0	1.0	02/23/22 10:02	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	02/23/22 10:02	
Trichloroethene	ug/L	<1.0	1.0	02/23/22 10:02	
Vinyl chloride	ug/L	<1.0	1.0	02/23/22 10:02	
Xylene (Total)	ug/L	<3.0	3.0	02/23/22 10:02	
1,2-Dichloroethane-d4 (S)	%	90	81-122	02/23/22 10:02	
4-Bromofluorobenzene (S)	%	98	79-118	02/23/22 10:02	
Toluene-d8 (S)	%	99	82-122	02/23/22 10:02	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 2/17  
Pace Project No.: 70204626

LABORATORY CONTROL SAMPLE: 1240630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	40.5	81	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	45.2	90	70-127	
1,1,2-Trichloroethane	ug/L	50	45.7	91	81-119	IC
1,1-Dichloroethane	ug/L	50	45.0	90	72-126	
1,1-Dichloroethene	ug/L	50	46.1	92	66-133	
1,2-Dichloroethane	ug/L	50	45.3	91	69-134	
1,2-Dichloroethene (Total)	ug/L	100	98.0	98	69-123	
1,2-Dichloropropane	ug/L	50	42.9	86	75-125	
2-Butanone (MEK)	ug/L	50	38.1	76	33-165	v3
2-Hexanone	ug/L	50	42.6	85	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	38.2	76	62-131	
Acetone	ug/L	50	65.9	132	14-156	v1
Benzene	ug/L	50	44.2	88	78-117	
Bromodichloromethane	ug/L	50	43.0	86	80-123	IC
Bromoform	ug/L	50	37.9	76	49-138	
Bromomethane	ug/L	50	38.0	76	10-143	
Carbon disulfide	ug/L	50	41.0	82	66-133	
Carbon tetrachloride	ug/L	50	39.1	78	64-135	
Chlorobenzene	ug/L	50	44.1	88	79-117	
Chloroethane	ug/L	50	41.8	84	31-156	
Chloroform	ug/L	50	46.1	92	79-123	
Chloromethane	ug/L	50	32.7	65	39-116	
cis-1,3-Dichloropropene	ug/L	50	41.0	82	78-131	
Dibromochloromethane	ug/L	50	38.0	76	65-123	
Ethylbenzene	ug/L	50	43.4	87	79-115	
Methylene Chloride	ug/L	50	47.3	95	67-123	
Styrene	ug/L	50	41.8	84	82-121	
Tetrachloroethene	ug/L	50	41.2	82	65-120	
Toluene	ug/L	50	45.8	92	80-114	
trans-1,3-Dichloropropene	ug/L	50	38.2	76	73-135	
Trichloroethene	ug/L	50	45.1	90	79-115	
Vinyl chloride	ug/L	50	36.8	74	49-118	
Xylene (Total)	ug/L	150	133	89	80-118	
1,2-Dichloroethane-d4 (S)	%			90	81-122	
4-Bromofluorobenzene (S)	%			100	79-118	
Toluene-d8 (S)	%			100	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1240631 1240632

Parameter	Units	70204616001		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
1,1,1-Trichloroethane	ug/L	<1.0	50	50	57.3	58.4	115	117	72-123	2		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	60.7	60.7	121	121	64-133	0		
1,1,2-Trichloroethane	ug/L	<1.0	50	50	61.9	62.2	124	124	78-120	1	IC,M1	
1,1-Dichloroethane	ug/L	<1.0	50	50	63.7	63.7	127	127	70-124	0	M1	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

Parameter	70204616001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1-Dichloroethene	ug/L	<1.0	50	50	64.8	63.0	130	126	61-139	3				
1,2-Dichloroethane	ug/L	<1.0	50	50	63.6	62.3	127	125	58-138	2				
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	137	135	137	135	59-133	1				
1,2-Dichloropropane	ug/L	<1.0	50	50	59.1	60.1	118	120	74-122	2				
2-Butanone (MEK)	ug/L	<5.0	50	50	56.9	56.1	114	112	33-148	1 v3				
2-Hexanone	ug/L	<5.0	50	50	50.8	51.7	102	103	49-124	2				
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	56.1	55.6	112	111	60-136	1				
Acetone	ug/L	<5.0	50	50	52.1	48.9	104	98	35-112	6 v1				
Benzene	ug/L	<1.0	50	50	63.9	64.4	128	129	70-130	1				
Bromodichloromethane	ug/L	<1.0	50	50	57.6	58.4	115	117	74-122	2 IC				
Bromoform	ug/L	<1.0	50	50	51.0	53.0	102	106	39-139	4				
Bromomethane	ug/L	<1.0	50	50	41.8	50.1	84	100	10-130	18				
Carbon disulfide	ug/L	<1.0	50	50	59.2	56.9	118	114	60-129	4				
Carbon tetrachloride	ug/L	<1.0	50	50	55.7	56.9	111	114	56-143	2				
Chlorobenzene	ug/L	<1.0	50	50	61.9	62.5	124	125	74-122	1 M1				
Chloroethane	ug/L	<1.0	50	50	56.8	54.1	114	108	35-146	5				
Chloroform	ug/L	<1.0	50	50	66.0	65.2	132	130	71-129	1 M1				
Chloromethane	ug/L	<1.0	50	50	38.2	40.8	76	82	29-112	6				
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	53.9	54.9	108	110	67-130	2				
Dibromochloromethane	ug/L	<1.0	50	50	54.5	55.7	109	111	55-126	2				
Ethylbenzene	ug/L	<1.0	50	50	64.7	65.5	129	131	70-126	1 M1				
Methylene Chloride	ug/L	<1.0	50	50	66.1	64.1	132	128	69-117	3 M1				
Styrene	ug/L	<1.0	50	50	62.9	62.9	126	126	79-123	0 M1				
Tetrachloroethene	ug/L	<1.0	50	50	62.1	63.0	124	126	64-124	1 M1				
Toluene	ug/L	<1.0	50	50	65.1	66.1	130	132	76-123	2 M1				
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	50.4	51.4	101	103	61-130	2				
Trichloroethene	ug/L	<1.0	50	50	64.6	64.4	129	129	73-125	0 M1				
Vinyl chloride	ug/L	<1.0	50	50	49.8	48.4	100	97	33-127	3				
Xylene (Total)	ug/L	<3.0	150	150	193	194	129	129	78-123	0 MS				
1,2-Dichloroethane-d4 (S)	%						90	90	81-122					
4-Bromofluorobenzene (S)	%						104	103	79-118					
Toluene-d8 (S)	%						99	99	82-122					

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**QUALITY CONTROL DATA**

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

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QC Batch:	245180	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70204626001, 70204626002, 70204626003, 70204626004

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SAMPLE DUPLICATE: 1238545

Parameter	Units	70204460002 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	8.5	8.4		0 H3,H6,N3
Temperature, Water (C)	deg C	9.2	9.3		1 H3,H6

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

QC Batch:	245260	Analysis Method:	SM22 5310B
QC Batch Method:	SM22 5310B	Analysis Description:	5310B TOC
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70204626001, 70204626002, 70204626003, 70204626004

METHOD BLANK: 1238929 Matrix: Water  
Associated Lab Samples: 70204626001, 70204626002, 70204626003, 70204626004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	02/21/22 16:16	

LABORATORY CONTROL SAMPLE: 1238930

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	8.8	88	85-115	

MATRIX SPIKE SAMPLE: 1238932

Parameter	Units	70203568011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	0.40J	10	10.5	101	75-125	

SAMPLE DUPLICATE: 1238931

Parameter	Units	70203568011 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	0.40J	<1.0		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN1001/MINMILT 2/17

Pace Project No.: 70204626

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70204626001	SYS-EFF	EPA 200.7	245733	EPA 200.7	245848
70204626002	SYS-INF	EPA 200.7	245733	EPA 200.7	245848
70204626003	MAG	EPA 200.7	245733	EPA 200.7	245848
70204626004	UG	EPA 200.7	245733	EPA 200.7	245848
70204626001	SYS-EFF	EPA 8260C/5030C	245612		
70204626002	SYS-INF	EPA 8260C/5030C	245612		
70204626003	MAG	EPA 8260C/5030C	245612		
70204626004	UG	EPA 8260C/5030C	245612		
70204626001	SYS-EFF	SM22 4500-H+B	245180		
70204626002	SYS-INF	SM22 4500-H+B	245180		
70204626003	MAG	SM22 4500-H+B	245180		
70204626004	UG	SM22 4500-H+B	245180		
70204626001	SYS-EFF	SM22 5310B	245260		
70204626002	SYS-INF	SM22 5310B	245260		
70204626003	MAG	SM22 5310B	245260		
70204626004	UG	SM22 5310B	245260		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.paceabs.com/hubfs/pas-standard-terms.pdf>

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: PWCrosser Consulting

Address: 630 Johnson Ave Bohna, NY

Report To: Kaithyn Crosby

Copy To: Kaithyn Crosby

Billing Information: Same as client

Email To: KCrosby@pwcrosser.com

Site Collection Info/Address: 540 Smith St, Farmingdale, NY

Customer Project Name/Number: MI N1001 / minM:HT

Phone: 631-589-6355

Email: KCrosby@pwcrosser.com

Collected By (print): Kaithyn Crosby

Collected By (signature): [Signature]

Sample Disposal: [ ] Dispose as appropriate

[ ] Return

[ ] Archive:

[ ] Hold:

\* 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), Blossay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End Date	Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time					
<u>SYS-EFF</u>	<u>GW</u>	<u>Grab</u>	<u>2-17-22</u>	<u>1145</u>	<u>1150</u>	<u>1155</u>	<u>6</u>	<u>P/G</u>	
<u>SYS-INF</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>MAG</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>UG</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	

# WO#: 70204626



70204626

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: Y N NA
- Sample pH Acceptable Y N NA
- pH Strips: Y N NA
- Sulfide Present Y N NA
- Lead Acetate Strips: Y N NA

Lab Profile/Line:

LAB USE ONLY: Lab Sample # / Comments:

LAB Sample Temperature Info: Temp Blank Received: Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Type of Ice Used: Wet Dry None

Customer Remarks / Special Conditions / Possible Hazards:

April 01, 2022

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

RE: Project: MINMILT/MIN1001 - 3/21  
Pace Project No.: 70208119

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

Sample: <b>SYS-EFF</b>	Lab ID: <b>70208119001</b>	Collected: 03/21/22 11:00	Received: 03/21/22 15:07	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>11300</b>	ug/L	100	1	03/23/22 10:35	03/24/22 21:57	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		03/29/22 22:50	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		03/29/22 22:50	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		03/29/22 22:50	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		03/29/22 22:50	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		03/29/22 22:50	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		03/29/22 22:50	107-06-2	
1,2-Dichloroethene (Total)	<b>20.8</b>	ug/L	2.0	1		03/29/22 22:50	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		03/29/22 22:50	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		03/29/22 22:50	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		03/29/22 22:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		03/29/22 22:50	108-10-1	
Acetone	<5.0	ug/L	5.0	1		03/29/22 22:50	67-64-1	
Benzene	<0.70	ug/L	0.70	1		03/29/22 22:50	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		03/29/22 22:50	75-27-4	L2
Bromoform	<1.0	ug/L	1.0	1		03/29/22 22:50	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		03/29/22 22:50	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		03/29/22 22:50	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		03/29/22 22:50	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		03/29/22 22:50	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		03/29/22 22:50	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		03/29/22 22:50	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		03/29/22 22:50	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		03/29/22 22:50	124-48-1	L2
Ethylbenzene	<1.0	ug/L	1.0	1		03/29/22 22:50	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		03/29/22 22:50	75-09-2	IC
Styrene	<1.0	ug/L	1.0	1		03/29/22 22:50	100-42-5	
Tetrachloroethene	<b>21.7</b>	ug/L	1.0	1		03/29/22 22:50	127-18-4	
Toluene	<1.0	ug/L	1.0	1		03/29/22 22:50	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		03/29/22 22:50	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		03/29/22 22:50	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		03/29/22 22:50	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/29/22 22:50	10061-01-5	L2
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/29/22 22:50	10061-02-6	L2
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		03/29/22 22:50	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		03/29/22 22:50	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		03/29/22 22:50	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.7</b>	Std. Units	0.10	1		03/22/22 17:38		H3,H6, N3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

<b>Sample: SYS-EFF</b>		<b>Lab ID: 70208119001</b>		Collected: 03/21/22 11:00	Received: 03/21/22 15:07	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>12.8</b>	deg C	0.10	1		03/22/22 17:38		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.4</b>	mg/L	1.0	1		03/23/22 20:33	7440-44-0	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

Sample: <b>SYS-INF</b>	Lab ID: <b>70208119002</b>	Collected: 03/21/22 11:05	Received: 03/21/22 15:07	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>17400</b>	ug/L	100	1	03/23/22 10:35	03/24/22 22:00	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:10	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		03/29/22 23:10	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:10	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:10	75-34-3	
1,1-Dichloroethene	<b>3.0</b>	ug/L	1.0	1		03/29/22 23:10	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:10	107-06-2	
1,2-Dichloroethene (Total)	<b>2140</b>	ug/L	40.0	20		03/30/22 23:15	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		03/29/22 23:10	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		03/29/22 23:10	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		03/29/22 23:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		03/29/22 23:10	108-10-1	
Acetone	<5.0	ug/L	5.0	1		03/29/22 23:10	67-64-1	
Benzene	<0.70	ug/L	0.70	1		03/29/22 23:10	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		03/29/22 23:10	75-27-4	L2
Bromoform	<1.0	ug/L	1.0	1		03/29/22 23:10	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		03/29/22 23:10	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		03/29/22 23:10	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		03/29/22 23:10	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		03/29/22 23:10	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		03/29/22 23:10	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		03/29/22 23:10	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		03/29/22 23:10	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		03/29/22 23:10	124-48-1	L2
Ethylbenzene	<1.0	ug/L	1.0	1		03/29/22 23:10	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		03/29/22 23:10	75-09-2	IC
Styrene	<1.0	ug/L	1.0	1		03/29/22 23:10	100-42-5	
Tetrachloroethene	<b>1010</b>	ug/L	20.0	20		03/30/22 23:15	127-18-4	
Toluene	<1.0	ug/L	1.0	1		03/29/22 23:10	108-88-3	
Trichloroethene	<b>213</b>	ug/L	20.0	20		03/30/22 23:15	79-01-6	
Vinyl chloride	<b>90.9</b>	ug/L	1.0	1		03/29/22 23:10	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		03/29/22 23:10	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/29/22 23:10	10061-01-5	L2
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/29/22 23:10	10061-02-6	L2
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		03/29/22 23:10	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		03/29/22 23:10	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		03/29/22 23:10	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.4</b>	Std. Units	0.10	1		03/22/22 17:39		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

<b>Sample: SYS-INF</b>		<b>Lab ID: 70208119002</b>		Collected: 03/21/22 11:05	Received: 03/21/22 15:07	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>12.4</b>	deg C	0.10	1		03/22/22 17:39		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.9</b>	mg/L	1.0	1		03/23/22 20:45	7440-44-0	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

Sample: <b>MAG</b>		Lab ID: <b>70208119003</b>	Collected: 03/21/22 11:15	Received: 03/21/22 15:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>7090</b>	ug/L	100	1	03/23/22 10:35	03/24/22 22:03	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:29	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		03/29/22 23:29	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:29	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:29	75-34-3	
1,1-Dichloroethene	<b>1.8</b>	ug/L	1.0	1		03/29/22 23:29	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:29	107-06-2	
1,2-Dichloroethene (Total)	<b>1120</b>	ug/L	20.0	10		03/30/22 23:35	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		03/29/22 23:29	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		03/29/22 23:29	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		03/29/22 23:29	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		03/29/22 23:29	108-10-1	
Acetone	<5.0	ug/L	5.0	1		03/29/22 23:29	67-64-1	
Benzene	<0.70	ug/L	0.70	1		03/29/22 23:29	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		03/29/22 23:29	75-27-4	L2
Bromoform	<1.0	ug/L	1.0	1		03/29/22 23:29	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		03/29/22 23:29	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		03/29/22 23:29	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		03/29/22 23:29	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		03/29/22 23:29	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		03/29/22 23:29	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		03/29/22 23:29	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		03/29/22 23:29	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		03/29/22 23:29	124-48-1	L2
Ethylbenzene	<1.0	ug/L	1.0	1		03/29/22 23:29	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		03/29/22 23:29	75-09-2	IC
Styrene	<1.0	ug/L	1.0	1		03/29/22 23:29	100-42-5	
Tetrachloroethene	<b>910</b>	ug/L	10.0	10		03/30/22 23:35	127-18-4	
Toluene	<1.0	ug/L	1.0	1		03/29/22 23:29	108-88-3	
Trichloroethene	<b>79.0</b>	ug/L	1.0	1		03/29/22 23:29	79-01-6	
Vinyl chloride	<b>13.4</b>	ug/L	1.0	1		03/29/22 23:29	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		03/29/22 23:29	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/29/22 23:29	10061-01-5	L2
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/29/22 23:29	10061-02-6	L2
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		03/29/22 23:29	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		03/29/22 23:29	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		03/29/22 23:29	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>6.2</b>	Std. Units	0.10	1		03/22/22 17:41		H3,H6, N3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

<b>Sample: MAG</b>		<b>Lab ID: 70208119003</b>		Collected: 03/21/22 11:15	Received: 03/21/22 15:07	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>13.4</b>	deg C	0.10	1		03/22/22 17:41		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>1.4</b>	mg/L	1.0	1		03/23/22 20:57	7440-44-0	

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

Sample: UG	Lab ID: 70208119004	Collected: 03/21/22 11:10	Received: 03/21/22 15:07	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	29600	ug/L	100	1	03/23/22 10:35	03/24/22 22:10	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:48	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		03/29/22 23:48	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:48	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:48	75-34-3	
1,1-Dichloroethene	4.6	ug/L	1.0	1		03/29/22 23:48	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		03/29/22 23:48	107-06-2	
1,2-Dichloroethene (Total)	3120	ug/L	50.0	25		03/30/22 23:54	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		03/29/22 23:48	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		03/29/22 23:48	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		03/29/22 23:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		03/29/22 23:48	108-10-1	
Acetone	<5.0	ug/L	5.0	1		03/29/22 23:48	67-64-1	
Benzene	<0.70	ug/L	0.70	1		03/29/22 23:48	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		03/29/22 23:48	75-27-4	L2
Bromoform	<1.0	ug/L	1.0	1		03/29/22 23:48	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		03/29/22 23:48	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		03/29/22 23:48	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		03/29/22 23:48	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		03/29/22 23:48	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		03/29/22 23:48	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		03/29/22 23:48	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		03/29/22 23:48	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		03/29/22 23:48	124-48-1	L2
Ethylbenzene	<1.0	ug/L	1.0	1		03/29/22 23:48	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		03/29/22 23:48	75-09-2	IC
Styrene	<1.0	ug/L	1.0	1		03/29/22 23:48	100-42-5	
Tetrachloroethene	763	ug/L	25.0	25		03/30/22 23:54	127-18-4	
Toluene	<1.0	ug/L	1.0	1		03/29/22 23:48	108-88-3	
Trichloroethene	380	ug/L	25.0	25		03/30/22 23:54	79-01-6	
Vinyl chloride	187	ug/L	1.0	1		03/29/22 23:48	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		03/29/22 23:48	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/29/22 23:48	10061-01-5	L2
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/29/22 23:48	10061-02-6	L2
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		03/29/22 23:48	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		03/29/22 23:48	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		03/29/22 23:48	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	6.2	Std. Units	0.10	1		03/22/22 17:40		H3,H6, N3

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

<b>Sample: UG</b>		<b>Lab ID: 70208119004</b>		Collected: 03/21/22 11:10	Received: 03/21/22 15:07	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>13.4</b>	deg C	0.10	1		03/22/22 17:40		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>9.1</b>	mg/L	1.0	1		03/23/22 21:09	7440-44-0	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

QC Batch: 249212      Analysis Method: EPA 200.7  
 QC Batch Method: EPA 200.7      Analysis Description: 200.7 Metals, Total  
                                          Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70208119001, 70208119002, 70208119003, 70208119004

METHOD BLANK: 1259396      Matrix: Water  
 Associated Lab Samples: 70208119001, 70208119002, 70208119003, 70208119004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	03/24/22 13:59	

LABORATORY CONTROL SAMPLE: 1259397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12000	96	85-115	

MATRIX SPIKE SAMPLE: 1259399

Parameter	Units	70208261001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	759	5000	6130	107	70-130	

MATRIX SPIKE SAMPLE: 1259401

Parameter	Units	70208014008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	184	5000	5420	105	70-130	

SAMPLE DUPLICATE: 1259398

Parameter	Units	70208261001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	759	749	1	

SAMPLE DUPLICATE: 1259400

Parameter	Units	70208014008 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	184	143	25 D6	

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.

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

QC Batch: 250056

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70208119001, 70208119002, 70208119003, 70208119004

METHOD BLANK: 1263546

Matrix: Water

Associated Lab Samples: 70208119001, 70208119002, 70208119003, 70208119004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	03/29/22 20:09	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	03/29/22 20:09	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	03/29/22 20:09	
1,1-Dichloroethane	ug/L	<1.0	1.0	03/29/22 20:09	
1,1-Dichloroethene	ug/L	<1.0	1.0	03/29/22 20:09	
1,2-Dichloroethane	ug/L	<1.0	1.0	03/29/22 20:09	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	03/29/22 20:09	
1,2-Dichloropropane	ug/L	<1.0	1.0	03/29/22 20:09	
2-Butanone (MEK)	ug/L	<5.0	5.0	03/29/22 20:09	
2-Hexanone	ug/L	<5.0	5.0	03/29/22 20:09	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	03/29/22 20:09	
Acetone	ug/L	<5.0	5.0	03/29/22 20:09	
Benzene	ug/L	<0.70	0.70	03/29/22 20:09	
Bromodichloromethane	ug/L	<1.0	1.0	03/29/22 20:09	
Bromoform	ug/L	<1.0	1.0	03/29/22 20:09	v3
Bromomethane	ug/L	<1.0	1.0	03/29/22 20:09	
Carbon disulfide	ug/L	<1.0	1.0	03/29/22 20:09	
Carbon tetrachloride	ug/L	<1.0	1.0	03/29/22 20:09	
Chlorobenzene	ug/L	<1.0	1.0	03/29/22 20:09	
Chloroethane	ug/L	<1.0	1.0	03/29/22 20:09	
Chloroform	ug/L	<1.0	1.0	03/29/22 20:09	
Chloromethane	ug/L	<1.0	1.0	03/29/22 20:09	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	03/29/22 20:09	
Dibromochloromethane	ug/L	<1.0	1.0	03/29/22 20:09	
Ethylbenzene	ug/L	<1.0	1.0	03/29/22 20:09	
Methylene Chloride	ug/L	<1.0	1.0	03/29/22 20:09	IC
Styrene	ug/L	<1.0	1.0	03/29/22 20:09	
Tetrachloroethene	ug/L	<1.0	1.0	03/29/22 20:09	
Toluene	ug/L	<1.0	1.0	03/29/22 20:09	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	03/29/22 20:09	
Trichloroethene	ug/L	<1.0	1.0	03/29/22 20:09	
Vinyl chloride	ug/L	<1.0	1.0	03/29/22 20:09	
Xylene (Total)	ug/L	<3.0	3.0	03/29/22 20:09	
1,2-Dichloroethane-d4 (S)	%	100	81-122	03/29/22 20:09	
4-Bromofluorobenzene (S)	%	99	79-118	03/29/22 20:09	
Toluene-d8 (S)	%	100	82-122	03/29/22 20:09	

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

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

LABORATORY CONTROL SAMPLE: 1263547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	40.6	81	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	40.6	81	70-127	
1,1,2-Trichloroethane	ug/L	50	47.7	95	81-119	
1,1-Dichloroethane	ug/L	50	47.8	96	72-126	
1,1-Dichloroethene	ug/L	50	43.5	87	66-133	
1,2-Dichloroethane	ug/L	50	45.8	92	69-134	
1,2-Dichloroethene (Total)	ug/L	100	93.8	94	69-123	
1,2-Dichloropropane	ug/L	50	45.5	91	75-125	
2-Butanone (MEK)	ug/L	50	49.4	99	33-165	
2-Hexanone	ug/L	50	48.6	97	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	41.2	82	62-131	
Acetone	ug/L	50	72.9	146	14-156	IH
Benzene	ug/L	50	47.9	96	78-117	
Bromodichloromethane	ug/L	50	37.0	74	80-123	L2
Bromoform	ug/L	50	25.2	50	49-138	v3
Bromomethane	ug/L	50	55.0	110	10-143	v1
Carbon disulfide	ug/L	50	38.2	76	66-133	
Carbon tetrachloride	ug/L	50	35.7	71	64-135	
Chlorobenzene	ug/L	50	47.9	96	79-117	
Chloroethane	ug/L	50	48.8	98	31-156	
Chloroform	ug/L	50	47.5	95	79-123	
Chloromethane	ug/L	50	40.6	81	39-116	
cis-1,3-Dichloropropene	ug/L	50	38.1	76	78-131	L2
Dibromochloromethane	ug/L	50	32.0	64	65-123	L2
Ethylbenzene	ug/L	50	48.3	97	79-115	
Methylene Chloride	ug/L	50	46.1	92	67-123	IC
Styrene	ug/L	50	48.2	96	82-121	
Tetrachloroethene	ug/L	50	47.7	95	65-120	
Toluene	ug/L	50	47.7	95	80-114	
trans-1,3-Dichloropropene	ug/L	50	35.7	71	73-135	L2
Trichloroethene	ug/L	50	48.2	96	79-115	
Vinyl chloride	ug/L	50	46.1	92	49-118	
Xylene (Total)	ug/L	150	142	95	80-118	
1,2-Dichloroethane-d4 (S)	%			100	81-122	
4-Bromofluorobenzene (S)	%			102	79-118	
Toluene-d8 (S)	%			102	82-122	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

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QC Batch:	249151	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70208119001, 70208119002, 70208119003, 70208119004

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SAMPLE DUPLICATE: 1259114

Parameter	Units	70208204001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	8.1	8.1	0	H3,H6,N3
Temperature, Water (C)	deg C	14.9	14.9	0	H3,H6

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

QC Batch:	249231	Analysis Method:	SM22 5310B
QC Batch Method:	SM22 5310B	Analysis Description:	5310B TOC
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70208119001, 70208119002, 70208119003, 70208119004

METHOD BLANK: 1259450 Matrix: Water  
Associated Lab Samples: 70208119001, 70208119002, 70208119003, 70208119004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	03/23/22 17:53	

LABORATORY CONTROL SAMPLE: 1259451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.4	94	85-115	

MATRIX SPIKE SAMPLE: 1259455

Parameter	Units	70208196001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<1.0	10	9.9	94	75-125	

SAMPLE DUPLICATE: 1259454

Parameter	Units	70208196001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	<1.0	<1.0		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT/MIN1001 - 3/21

Pace Project No.: 70208119

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70208119001	SYS-EFF	EPA 200.7	249212	EPA 200.7	249332
70208119002	SYS-INF	EPA 200.7	249212	EPA 200.7	249332
70208119003	MAG	EPA 200.7	249212	EPA 200.7	249332
70208119004	UG	EPA 200.7	249212	EPA 200.7	249332
70208119001	SYS-EFF	EPA 8260C/5030C	250056		
70208119002	SYS-INF	EPA 8260C/5030C	250056		
70208119003	MAG	EPA 8260C/5030C	250056		
70208119004	UG	EPA 8260C/5030C	250056		
70208119001	SYS-EFF	SM22 4500-H+B	249151		
70208119002	SYS-INF	SM22 4500-H+B	249151		
70208119003	MAG	SM22 4500-H+B	249151		
70208119004	UG	SM22 4500-H+B	249151		
70208119001	SYS-EFF	SM22 5310B	249231		
70208119002	SYS-INF	SM22 5310B	249231		
70208119003	MAG	SM22 5310B	249231		
70208119004	UG	SM22 5310B	249231		

### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pes-standard-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: PWGC

Address: 630 Johnson Ave, Bohemia, NY

Report To: Kaitlyn Crosby

Copy To:

Billing Information:

Same as Client

Email To: Kerosby@pwgasser.com

Site Collection Info/Address: 540 Smith Street

State: NY, County/City: Farmingdale

Time Zone Collected: JPT [ ] MT [ ] CT [X] ET

Customer Project Name/Number: MIN1001

Phone: 631-589-6353

Email: Krosby@pwgasser.com

Collected By (print): Kaitlyn Crosby

Collected By (signature): [Signature]

Turnaround Date Required: Standard

Rush: (Expedite Charges Apply)

[ ] Same Day [ ] Next Day

[ ] 12 Day [ ] 3 Day

[ ] 4 Day [ ] 5 Day

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)

Table with columns: Customer Sample ID, Matrix, Comp/Grab, Collected (or Composite Start) Date, Composite End Date, Time, Res CI, # of Ctns

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: Bubble Bags

Radchem sample(s) screened (<500 cpm): Y N (NA)

Date/Time: 3-21-22 1305 Received by/Company: (Signature) SWAROVINS

WO#: 70208119



70208119

Order Number or SE ONLY

Lab Project Manager: GFD

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

Lab Profile/Line: Lab Sample Receipt Checklist: Custody Seals Present/Intact, Custody Signatures Present, Collector Signatures Present, Bottles Intact, Correct Bottles, Sufficient Volume, Samples Received on Ice, VOA - Headspace Acceptable, USDA Regulated Soils, Samples in Holding Time, Residual Chlorine Present, Cl Strips, Sample pH Acceptable, pH Strips, Sulfide Present, Lead Acetate Strips

LAB USE ONLY: Lab Sample # / Comments:

LAB Sample Temperature Info: Temp Blank Received: Y N, Therm ID#: TH09, Cooler 1 Temp Upon Receipt: 17.0C, Cooler 1 Therm Corr. Factor: 0.10C, Cooler 1 Corrected Temp: 17.10C

Short Holds Present (<72 hours): Y N N/A

Lab Tracking #: Lab Tracking #, Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: 3/21/22, Date/Time: 3/21/22, Date/Time: 3/21/22

May 03, 2022

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

RE: Project: MINMILT/MIN1001 4/25  
Pace Project No.: 70212299

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

Sample: <b>SYS - EFF</b>		Lab ID: <b>70212299001</b>	Collected: 04/25/22 13:00	Received: 04/25/22 13:56	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>7970</b>	ug/L	100	1	04/29/22 10:31	04/29/22 21:13	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/01/22 17:25	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		05/01/22 17:25	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		05/01/22 17:25	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/01/22 17:25	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/01/22 17:25	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/01/22 17:25	107-06-2	
1,2-Dichloroethene (Total)	<b>27.3</b>	ug/L	2.0	1		05/01/22 17:25	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/01/22 17:25	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		05/01/22 17:25	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		05/01/22 17:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		05/01/22 17:25	108-10-1	
Acetone	<5.0	ug/L	5.0	1		05/01/22 17:25	67-64-1	
Benzene	<0.70	ug/L	0.70	1		05/01/22 17:25	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/01/22 17:25	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/01/22 17:25	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		05/01/22 17:25	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		05/01/22 17:25	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/01/22 17:25	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/01/22 17:25	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/01/22 17:25	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/01/22 17:25	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		05/01/22 17:25	74-87-3	L1
Dibromochloromethane	<1.0	ug/L	1.0	1		05/01/22 17:25	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		05/01/22 17:25	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		05/01/22 17:25	75-09-2	
Styrene	<1.0	ug/L	1.0	1		05/01/22 17:25	100-42-5	
Tetrachloroethene	<b>19.6</b>	ug/L	1.0	1		05/01/22 17:25	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		05/01/22 17:25	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		05/01/22 17:25	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/01/22 17:25	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		05/01/22 17:25	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/01/22 17:25	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/01/22 17:25	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		05/01/22 17:25	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		05/01/22 17:25	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		05/01/22 17:25	2037-26-5	

**4500H+ pH, Electrometric**

Analytical Method: SM22 4500-H+B  
Pace Analytical Services - Melville

pH	<b>6.6</b>	Std. Units	0.10	1		04/28/22 19:05		H3,H6, N3
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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

<b>Sample: SYS - EFF</b>		<b>Lab ID: 70212299001</b>		Collected: 04/25/22 13:00	Received: 04/25/22 13:56	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>19.6</b>	deg C	0.10	1		04/28/22 19:05		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.3</b>	mg/L	1.0	1		04/28/22 15:18	7440-44-0	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

Sample: SYS - INF	Lab ID: 70212299002	Collected: 04/25/22 13:05	Received: 04/25/22 13:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	15300	ug/L	100	1	04/29/22 10:31	04/29/22 21:15	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/01/22 18:20	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		05/01/22 18:20	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		05/01/22 18:20	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/01/22 18:20	75-34-3	
1,1-Dichloroethene	3.4	ug/L	1.0	1		05/01/22 18:20	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/01/22 18:20	107-06-2	
1,2-Dichloroethene (Total)	2620	ug/L	40.0	20		05/02/22 12:51	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/01/22 18:20	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		05/01/22 18:20	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		05/01/22 18:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		05/01/22 18:20	108-10-1	
Acetone	<5.0	ug/L	5.0	1		05/01/22 18:20	67-64-1	
Benzene	<0.70	ug/L	0.70	1		05/01/22 18:20	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/01/22 18:20	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/01/22 18:20	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		05/01/22 18:20	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		05/01/22 18:20	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/01/22 18:20	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/01/22 18:20	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/01/22 18:20	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/01/22 18:20	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		05/01/22 18:20	74-87-3	L1
Dibromochloromethane	<1.0	ug/L	1.0	1		05/01/22 18:20	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		05/01/22 18:20	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		05/01/22 18:20	75-09-2	
Styrene	<1.0	ug/L	1.0	1		05/01/22 18:20	100-42-5	
Tetrachloroethene	1010	ug/L	20.0	20		05/02/22 12:51	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		05/01/22 18:20	108-88-3	
Trichloroethene	234	ug/L	20.0	20		05/02/22 12:51	79-01-6	
Vinyl chloride	130	ug/L	1.0	1		05/01/22 18:20	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		05/01/22 18:20	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/01/22 18:20	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/01/22 18:20	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		05/01/22 18:20	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		05/01/22 18:20	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		05/01/22 18:20	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	6.3	Std. Units	0.10	1		04/28/22 19:07		H3,H6, N3

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

Sample: <b>SYS - INF</b>		Lab ID: <b>70212299002</b>		Collected: 04/25/22 13:05	Received: 04/25/22 13:56	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>19.9</b>	deg C	0.10	1		04/28/22 19:07		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>5.1</b>	mg/L	1.0	1		04/28/22 15:55	7440-44-0	

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

Sample: MAG	Lab ID: 70212299003	Collected: 04/25/22 13:10	Received: 04/25/22 13:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	6030	ug/L	100	1	04/29/22 10:31	04/29/22 21:18	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/01/22 18:02	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		05/01/22 18:02	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		05/01/22 18:02	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/01/22 18:02	75-34-3	
1,1-Dichloroethene	2.3	ug/L	1.0	1		05/01/22 18:02	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/01/22 18:02	107-06-2	
1,2-Dichloroethene (Total)	1510	ug/L	20.0	10		05/02/22 11:01	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/01/22 18:02	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		05/01/22 18:02	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		05/01/22 18:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		05/01/22 18:02	108-10-1	
Acetone	<5.0	ug/L	5.0	1		05/01/22 18:02	67-64-1	
Benzene	<0.70	ug/L	0.70	1		05/01/22 18:02	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/01/22 18:02	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/01/22 18:02	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		05/01/22 18:02	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		05/01/22 18:02	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/01/22 18:02	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/01/22 18:02	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/01/22 18:02	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/01/22 18:02	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		05/01/22 18:02	74-87-3	L1
Dibromochloromethane	<1.0	ug/L	1.0	1		05/01/22 18:02	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		05/01/22 18:02	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		05/01/22 18:02	75-09-2	
Styrene	<1.0	ug/L	1.0	1		05/01/22 18:02	100-42-5	
Tetrachloroethene	1200	ug/L	10.0	10		05/02/22 11:01	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		05/01/22 18:02	108-88-3	
Trichloroethene	76.1	ug/L	1.0	1		05/01/22 18:02	79-01-6	
Vinyl chloride	23.6	ug/L	1.0	1		05/01/22 18:02	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		05/01/22 18:02	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/01/22 18:02	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/01/22 18:02	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		05/01/22 18:02	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		05/01/22 18:02	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		05/01/22 18:02	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	6.2	Std. Units	0.10	1		04/28/22 19:08		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

<b>Sample: MAG</b>		<b>Lab ID: 70212299003</b>		Collected: 04/25/22 13:10	Received: 04/25/22 13:56	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>20.6</b>	deg C	0.10	1		04/28/22 19:08		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>1.3</b>	mg/L	1.0	1		04/28/22 16:06	7440-44-0	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

Sample: UG	Lab ID: 70212299004	Collected: 04/25/22 13:15	Received: 04/25/22 13:56	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	25600	ug/L	100	1	04/29/22 10:31	04/29/22 21:20	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/01/22 17:43	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		05/01/22 17:43	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		05/01/22 17:43	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/01/22 17:43	75-34-3	
1,1-Dichloroethene	5.2	ug/L	1.0	1		05/01/22 17:43	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/01/22 17:43	107-06-2	
1,2-Dichloroethene (Total)	4040	ug/L	100	50		05/02/22 12:33	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/01/22 17:43	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		05/01/22 17:43	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		05/01/22 17:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		05/01/22 17:43	108-10-1	
Acetone	<5.0	ug/L	5.0	1		05/01/22 17:43	67-64-1	
Benzene	<0.70	ug/L	0.70	1		05/01/22 17:43	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/01/22 17:43	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/01/22 17:43	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		05/01/22 17:43	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		05/01/22 17:43	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/01/22 17:43	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		05/01/22 17:43	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/01/22 17:43	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/01/22 17:43	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		05/01/22 17:43	74-87-3	L1
Dibromochloromethane	<1.0	ug/L	1.0	1		05/01/22 17:43	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		05/01/22 17:43	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		05/01/22 17:43	75-09-2	
Styrene	<1.0	ug/L	1.0	1		05/01/22 17:43	100-42-5	
Tetrachloroethene	503	ug/L	50.0	50		05/02/22 12:33	127-18-4	
Toluene	<1.0	ug/L	1.0	1		05/01/22 17:43	108-88-3	
Trichloroethene	411	ug/L	50.0	50		05/02/22 12:33	79-01-6	
Vinyl chloride	285	ug/L	50.0	50		05/02/22 12:33	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		05/01/22 17:43	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/01/22 17:43	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/01/22 17:43	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		05/01/22 17:43	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/01/22 17:43	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		05/01/22 17:43	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	6.1	Std. Units	0.10	1		04/28/22 19:09		H3,H6, N3

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

<b>Sample: UG</b>		<b>Lab ID: 70212299004</b>		Collected: 04/25/22 13:15	Received: 04/25/22 13:56	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>19.2</b>	deg C	0.10	1		04/28/22 19:09		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>9.6</b>	mg/L	1.0	1		04/28/22 16:19	7440-44-0	

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**QUALITY CONTROL DATA**

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

QC Batch:	254398	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70212299001, 70212299002, 70212299003, 70212299004

METHOD BLANK: 1285402 Matrix: Water  
Associated Lab Samples: 70212299001, 70212299002, 70212299003, 70212299004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	04/29/22 20:21	

LABORATORY CONTROL SAMPLE: 1285403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12400	100	85-115	

MATRIX SPIKE SAMPLE: 1285719

Parameter	Units	70212665007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L		275	5000	4940	93	70-130

MATRIX SPIKE SAMPLE: 1285721

Parameter	Units	70212508001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L		<100	5000	4950	99	70-130

SAMPLE DUPLICATE: 1285718

Parameter	Units	70212665007 Result	Dup Result	RPD	Qualifiers
Iron	ug/L		275	282	2

SAMPLE DUPLICATE: 1285720

Parameter	Units	70212508001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L		<100	<100	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 4/25  
Pace Project No.: 70212299

QC Batch: 254631 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70212299001, 70212299002, 70212299003, 70212299004

METHOD BLANK: 1286695 Matrix: Water  
Associated Lab Samples: 70212299001, 70212299002, 70212299003, 70212299004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/01/22 10:32	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/01/22 10:32	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/01/22 10:32	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/01/22 10:32	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/01/22 10:32	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/01/22 10:32	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	05/01/22 10:32	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/01/22 10:32	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/01/22 10:32	
2-Hexanone	ug/L	<5.0	5.0	05/01/22 10:32	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/01/22 10:32	
Acetone	ug/L	<5.0	5.0	05/01/22 10:32	
Benzene	ug/L	<0.70	0.70	05/01/22 10:32	
Bromodichloromethane	ug/L	<1.0	1.0	05/01/22 10:32	
Bromoform	ug/L	<1.0	1.0	05/01/22 10:32	
Bromomethane	ug/L	<1.0	1.0	05/01/22 10:32	
Carbon disulfide	ug/L	<1.0	1.0	05/01/22 10:32	
Carbon tetrachloride	ug/L	<1.0	1.0	05/01/22 10:32	
Chlorobenzene	ug/L	<1.0	1.0	05/01/22 10:32	
Chloroethane	ug/L	<1.0	1.0	05/01/22 10:32	
Chloroform	ug/L	<1.0	1.0	05/01/22 10:32	
Chloromethane	ug/L	<1.0	1.0	05/01/22 10:32	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/01/22 10:32	
Dibromochloromethane	ug/L	<1.0	1.0	05/01/22 10:32	
Ethylbenzene	ug/L	<1.0	1.0	05/01/22 10:32	
Methylene Chloride	ug/L	<1.0	1.0	05/01/22 10:32	
Styrene	ug/L	<1.0	1.0	05/01/22 10:32	
Tetrachloroethene	ug/L	<1.0	1.0	05/01/22 10:32	v3
Toluene	ug/L	<1.0	1.0	05/01/22 10:32	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/01/22 10:32	
Trichloroethene	ug/L	<1.0	1.0	05/01/22 10:32	
Vinyl chloride	ug/L	<1.0	1.0	05/01/22 10:32	
Xylene (Total)	ug/L	<3.0	3.0	05/01/22 10:32	
1,2-Dichloroethane-d4 (S)	%	96	81-122	05/01/22 10:32	
4-Bromofluorobenzene (S)	%	103	79-118	05/01/22 10:32	
Toluene-d8 (S)	%	97	82-122	05/01/22 10:32	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

LABORATORY CONTROL SAMPLE: 1286696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	42.9	86	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	70-127	
1,1,2-Trichloroethane	ug/L	50	47.3	95	81-119	
1,1-Dichloroethane	ug/L	50	56.5	113	72-126	
1,1-Dichloroethene	ug/L	50	48.8	98	66-133	
1,2-Dichloroethane	ug/L	50	51.1	102	69-134	
1,2-Dichloroethene (Total)	ug/L	100	102	102	69-123	
1,2-Dichloropropane	ug/L	50	53.5	107	75-125	
2-Butanone (MEK)	ug/L	50	56.2	112	33-165 v1	
2-Hexanone	ug/L	50	51.6	103	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	56.7	113	62-131	
Acetone	ug/L	50	40.1	80	14-156 v1	
Benzene	ug/L	50	49.1	98	78-117	
Bromodichloromethane	ug/L	50	48.6	97	80-123	
Bromoform	ug/L	50	44.6	89	49-138	
Bromomethane	ug/L	50	50.9	102	10-143	
Carbon disulfide	ug/L	50	51.6	103	66-133	
Carbon tetrachloride	ug/L	50	44.4	89	64-135	
Chlorobenzene	ug/L	50	45.5	91	79-117	
Chloroethane	ug/L	50	54.8	110	31-156	
Chloroform	ug/L	50	50.2	100	79-123	
Chloromethane	ug/L	50	62.1	124	39-116 L1,v1	
cis-1,3-Dichloropropene	ug/L	50	52.0	104	78-131	
Dibromochloromethane	ug/L	50	46.0	92	65-123	
Ethylbenzene	ug/L	50	43.1	86	79-115	
Methylene Chloride	ug/L	50	47.0	94	67-123	
Styrene	ug/L	50	46.1	92	82-121	
Tetrachloroethene	ug/L	50	36.4	73	65-120 v3	
Toluene	ug/L	50	47.5	95	80-114	
trans-1,3-Dichloropropene	ug/L	50	51.3	103	73-135	
Trichloroethene	ug/L	50	47.7	95	79-115	
Vinyl chloride	ug/L	50	56.3	113	49-118	
Xylene (Total)	ug/L	150	132	88	80-118	
1,2-Dichloroethane-d4 (S)	%			94	81-122	
4-Bromofluorobenzene (S)	%			107	79-118	
Toluene-d8 (S)	%			98	82-122	

MATRIX SPIKE SAMPLE: 1286881

Parameter	Units	70212126001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	52.5	105	72-123	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	49.5	99	64-133	
1,1,2-Trichloroethane	ug/L	<1.0	50	50.4	101	78-120	
1,1-Dichloroethane	ug/L	<1.0	50	63.4	127	70-124 M1	
1,1-Dichloroethene	ug/L	<1.0	50	59.2	118	61-139	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

MATRIX SPIKE SAMPLE: 1286881

Parameter	Units	70212126001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	53.0	106	58-138	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	118	118	59-133	
1,2-Dichloropropane	ug/L	<1.0	50	59.5	119	74-122	
2-Butanone (MEK)	ug/L	<5.0	50	52.5	105	33-148 v1	
2-Hexanone	ug/L	<5.0	50	48.4	97	49-124	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	54.6	109	60-136	
Acetone	ug/L	<5.0	50	42.3	80	35-112 v1	
Benzene	ug/L	<1.0	50	56.9	114	70-130	
Bromodichloromethane	ug/L	<1.0	50	52.6	105	74-122	
Bromoform	ug/L	<1.0	50	47.3	95	39-139	
Bromomethane	ug/L	<1.0	50	49.4	99	10-130	
Carbon disulfide	ug/L	<1.0	50	63.1	126	60-129	
Carbon tetrachloride	ug/L	<1.0	50	56.8	114	56-143	
Chlorobenzene	ug/L	<1.0	50	50.2	100	74-122	
Chloroethane	ug/L	<1.0	50	65.7	131	35-146	
Chloroform	ug/L	<1.0	50	56.3	113	71-129	
Chloromethane	ug/L	<1.0	50	73.9	148	29-112 M0,v1	
cis-1,3-Dichloropropene	ug/L	<1.0	50	54.5	109	67-130	
Dibromochloromethane	ug/L	<1.0	50	49.1	98	55-126	
Ethylbenzene	ug/L	<1.0	50	50.0	100	70-126	
Methylene Chloride	ug/L	<1.0	50	50.6	101	69-117	
Styrene	ug/L	<1.0	50	51.2	102	79-123	
Tetrachloroethene	ug/L	<1.0	50	42.6	85	64-124 v3	
Toluene	ug/L	<1.0	50	54.9	110	76-123	
trans-1,3-Dichloropropene	ug/L	<1.0	50	54.3	109	61-130	
Trichloroethene	ug/L	<1.0	50	55.3	111	73-125	
Vinyl chloride	ug/L	<1.0	50	71.0	142	33-127 M1	
Xylene (Total)	ug/L	<3.0	150	152	102	78-123	
1,2-Dichloroethane-d4 (S)	%				98	81-122	
4-Bromofluorobenzene (S)	%				106	79-118	
Toluene-d8 (S)	%				97	82-122	

SAMPLE DUPLICATE: 1286880

Parameter	Units	70212915001 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	1.2	1.1	7	
1,1-Dichloroethene	ug/L	3.5	3.6	3	
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	61.8	61.5	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

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

SAMPLE DUPLICATE: 1286880

Parameter	Units	70212915001 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	<0.70		
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	741	534		32 D6,E,v3
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	112	112		0
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	98	97		
4-Bromofluorobenzene (S)	%	101	102		
Toluene-d8 (S)	%	94	96		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

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QC Batch:	254391	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70212299001, 70212299002, 70212299003, 70212299004

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SAMPLE DUPLICATE: 1285303

Parameter	Units	70212197001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.5	7.4		1 H3,H6,N3
Temperature, Water (C)	deg C	19.9	20.0		1 H3,H6

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

QC Batch: 254236

Analysis Method: SM22 5310B

QC Batch Method: SM22 5310B

Analysis Description: 5310B TOC

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70212299001

METHOD BLANK: 1284858

Matrix: Water

Associated Lab Samples: 70212299001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	04/28/22 11:32	

LABORATORY CONTROL SAMPLE: 1284859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.4	94	85-115	

MATRIX SPIKE SAMPLE: 1284861

Parameter	Units	70212388001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<1.0	10	9.5	95	75-125	

SAMPLE DUPLICATE: 1284860

Parameter	Units	70212388001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	<1.0	<1.0		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

QC Batch:	254237	Analysis Method:	SM22 5310B
QC Batch Method:	SM22 5310B	Analysis Description:	5310B TOC
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70212299002, 70212299003, 70212299004

METHOD BLANK: 1284862 Matrix: Water

Associated Lab Samples: 70212299002, 70212299003, 70212299004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	04/28/22 15:30	

LABORATORY CONTROL SAMPLE: 1284863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.4	94	85-115	

MATRIX SPIKE SAMPLE: 1284865

Parameter	Units	70212483001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	0.86J	10	10.3	94	75-125	

SAMPLE DUPLICATE: 1284864

Parameter	Units	70212483001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	0.86J	<1.0		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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.
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.
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.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT/MIN1001 4/25

Pace Project No.: 70212299

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70212299001	SYS - EFF	EPA 200.7	254398	EPA 200.7	254470
70212299002	SYS - INF	EPA 200.7	254398	EPA 200.7	254470
70212299003	MAG	EPA 200.7	254398	EPA 200.7	254470
70212299004	UG	EPA 200.7	254398	EPA 200.7	254470
70212299001	SYS - EFF	EPA 8260C/5030C	254631		
70212299002	SYS - INF	EPA 8260C/5030C	254631		
70212299003	MAG	EPA 8260C/5030C	254631		
70212299004	UG	EPA 8260C/5030C	254631		
70212299001	SYS - EFF	SM22 4500-H+B	254391		
70212299002	SYS - INF	SM22 4500-H+B	254391		
70212299003	MAG	SM22 4500-H+B	254391		
70212299004	UG	SM22 4500-H+B	254391		
70212299001	SYS - EFF	SM22 5310B	254236		
70212299002	SYS - INF	SM22 5310B	254237		
70212299003	MAG	SM22 5310B	254237		
70212299004	UG	SM22 5310B	254237		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.paceabs.com/hubfs/pas-standard-terms.pdf>

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: PWGC

Address: 630 Johnson Ave, Bohemia, NY

Report To: Kaitlyn Crosby

Copy To:

Customer Project Name/Number: MIN MIT / MIN 1001

Phone: 631-589-6353

Email: Krosby@pwngrasser.com

Collected By (print): Kaitlyn Crosby

Collected By (signature): *Kaitlyn Crosby*

Sample Disposal:  Dispose as appropriate

Return

Archive

Hold

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Sol/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: SYS-EFF, SYS-INF, MAG, UG

Matrix: GW

Comp / Grab: Grab

Collected (or Composite Start) Date: 4-25-22

Composite End Date: 1300

Date: 1305

Time: 1310

Time: 1315

Res C: 6

Res Ctns: 6

Res Ctns: 6

Res Ctns: 6

Res Ctns: 6

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Res Ctns: 6

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LAB USE WOF#: 70212299



70212299

Cont: A

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\*\* 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

Lab Profile/Line:

Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA, Custody Signatures Present Y N NA, Collector Signatures 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: Y N NA, Sample pH Acceptable Y N NA, pH Strips: HCl 7.3 4.2 Y N NA, Sulfide Present Y N NA, Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments:

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: N/A

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: 4/25 13:56

Date/Time: 4/25 13:56

Date/Time: 4/25 13:56

Date/Time: 4/25 13:56

Date/Time: 4/25 13:56

Date/Time: 4/25 13:56

Date/Time: 4/25 13:56

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Date/Time: 4/25 13:56

Date/Time: 4/25 13:56

Date/Time: 4/25 13:56

Date/Time: 4/25 13:56

Date/Time: 4/25 13:56

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

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Received by/Company: (Signature)

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Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Temp Blank Receipt: Y N NA

Therm ID#: H041

Cooler 1 Temp Upon Receipt: 16.0C

Cooler 1 Therm Corr. Factor: 0.10C

Cooler 1 Corrected Temp: 27.0C

Comments:

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

MTRIL LAB USE ONLY

Table #:

Acctnum:

Template:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1

of: 1

June 01, 2022

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

RE: Project: MIN1001/MINMILT 5/17  
Pace Project No.: 70215069

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

Sample: <b>SYS-EFF</b>	Lab ID: <b>70215069001</b>	Collected: 05/17/22 11:15	Received: 05/17/22 12:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>7850</b>	ug/L	100	1	05/19/22 09:15	05/23/22 21:46	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/24/22 12:52	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		05/24/22 12:52	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		05/24/22 12:52	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/24/22 12:52	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/24/22 12:52	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/24/22 12:52	107-06-2	
1,2-Dichloroethene (Total)	<b>24.7</b>	ug/L	2.0	1		05/24/22 12:52	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/24/22 12:52	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		05/24/22 12:52	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		05/24/22 12:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		05/24/22 12:52	108-10-1	
Acetone	<5.0	ug/L	5.0	1		05/24/22 12:52	67-64-1	IH
Benzene	<0.70	ug/L	0.70	1		05/24/22 12:52	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/24/22 12:52	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/24/22 12:52	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		05/24/22 12:52	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		05/24/22 12:52	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/24/22 12:52	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		05/24/22 12:52	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/24/22 12:52	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/24/22 12:52	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		05/24/22 12:52	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/24/22 12:52	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		05/24/22 12:52	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		05/24/22 12:52	75-09-2	
Styrene	<1.0	ug/L	1.0	1		05/24/22 12:52	100-42-5	
Tetrachloroethene	<b>12.5</b>	ug/L	1.0	1		05/24/22 12:52	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		05/24/22 12:52	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		05/24/22 12:52	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		05/24/22 12:52	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		05/24/22 12:52	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/24/22 12:52	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/24/22 12:52	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	86	%	81-122	1		05/24/22 12:52	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		05/24/22 12:52	460-00-4	
Toluene-d8 (S)	93	%	82-122	1		05/24/22 12:52	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.9</b>	Std. Units	0.10	1		05/19/22 13:48		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

<b>Sample: SYS-EFF</b>		<b>Lab ID: 70215069001</b>		Collected: 05/17/22 11:15	Received: 05/17/22 12:05	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>18.8</b>	deg C	0.10	1		05/19/22 13:48		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.0</b>	mg/L	1.0	1		05/31/22 17:23	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

Sample: <b>SYS-INF</b>	Lab ID: <b>70215069002</b>	Collected: 05/17/22 11:25	Received: 05/17/22 12:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>16300</b>	ug/L	100	1	05/19/22 09:15	05/23/22 21:48	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/24/22 13:11	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		05/24/22 13:11	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		05/24/22 13:11	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/24/22 13:11	75-34-3	
1,1-Dichloroethene	<b>3.0</b>	ug/L	1.0	1		05/24/22 13:11	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/24/22 13:11	107-06-2	
1,2-Dichloroethene (Total)	<b>2630</b>	ug/L	50.0	25		05/24/22 13:38	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/24/22 13:11	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		05/24/22 13:11	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		05/24/22 13:11	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		05/24/22 13:11	108-10-1	
Acetone	<5.0	ug/L	5.0	1		05/24/22 13:11	67-64-1	
Benzene	<0.70	ug/L	0.70	1		05/24/22 13:11	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/24/22 13:11	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/24/22 13:11	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		05/24/22 13:11	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		05/24/22 13:11	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/24/22 13:11	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		05/24/22 13:11	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/24/22 13:11	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/24/22 13:11	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		05/24/22 13:11	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/24/22 13:11	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		05/24/22 13:11	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		05/24/22 13:11	75-09-2	
Styrene	<1.0	ug/L	1.0	1		05/24/22 13:11	100-42-5	
Tetrachloroethene	<b>596</b>	ug/L	25.0	25		05/24/22 13:38	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		05/24/22 13:11	108-88-3	
Trichloroethene	<b>213</b>	ug/L	25.0	25		05/24/22 13:38	79-01-6	
Vinyl chloride	<b>124</b>	ug/L	1.0	1		05/24/22 13:11	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		05/24/22 13:11	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/24/22 13:11	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/24/22 13:11	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	86	%	81-122	1		05/24/22 13:11	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		05/24/22 13:11	460-00-4	
Toluene-d8 (S)	93	%	82-122	1		05/24/22 13:11	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>6.6</b>	Std. Units	0.10	1		05/19/22 13:50		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

<b>Sample: SYS-INF</b>		<b>Lab ID: 70215069002</b>		Collected: 05/17/22 11:25	Received: 05/17/22 12:05	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>19.0</b>	deg C	0.10	1		05/19/22 13:50		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.4</b>	mg/L	1.0	1		05/31/22 17:47	7440-44-0	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

Sample: <b>MAG</b>		Lab ID: <b>70215069003</b>	Collected: 05/17/22 11:35	Received: 05/17/22 12:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>6320</b>	ug/L	100	1	05/19/22 09:15	05/23/22 21:50	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/24/22 13:57	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		05/24/22 13:57	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		05/24/22 13:57	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/24/22 13:57	75-34-3	
1,1-Dichloroethene	<b>1.9</b>	ug/L	1.0	1		05/24/22 13:57	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/24/22 13:57	107-06-2	
1,2-Dichloroethene (Total)	<b>1290</b>	ug/L	20.0	10		05/24/22 14:42	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/24/22 13:57	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		05/24/22 13:57	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		05/24/22 13:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		05/24/22 13:57	108-10-1	
Acetone	<5.0	ug/L	5.0	1		05/24/22 13:57	67-64-1	
Benzene	<0.70	ug/L	0.70	1		05/24/22 13:57	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/24/22 13:57	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/24/22 13:57	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		05/24/22 13:57	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		05/24/22 13:57	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/24/22 13:57	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		05/24/22 13:57	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/24/22 13:57	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/24/22 13:57	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		05/24/22 13:57	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/24/22 13:57	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		05/24/22 13:57	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		05/24/22 13:57	75-09-2	
Styrene	<1.0	ug/L	1.0	1		05/24/22 13:57	100-42-5	
Tetrachloroethene	<b>716</b>	ug/L	10.0	10		05/24/22 14:42	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		05/24/22 13:57	108-88-3	
Trichloroethene	<b>87.8</b>	ug/L	1.0	1		05/24/22 13:57	79-01-6	
Vinyl chloride	<b>22.3</b>	ug/L	1.0	1		05/24/22 13:57	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		05/24/22 13:57	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/24/22 13:57	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/24/22 13:57	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	88	%	81-122	1		05/24/22 13:57	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		05/24/22 13:57	460-00-4	
Toluene-d8 (S)	93	%	82-122	1		05/24/22 13:57	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>6.5</b>	Std. Units	0.10	1		05/19/22 13:53		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

<b>Sample: MAG</b>		<b>Lab ID: 70215069003</b>		Collected: 05/17/22 11:35	Received: 05/17/22 12:05	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>18.5</b>	deg C	0.10	1		05/19/22 13:53		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>1.3</b>	mg/L	1.0	1		05/31/22 17:59	7440-44-0	

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

Sample: UG	Lab ID: 70215069004	Collected: 05/17/22 11:45	Received: 05/17/22 12:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	27300	ug/L	100	1	05/19/22 09:15	05/23/22 21:53	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/24/22 15:01	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		05/24/22 15:01	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		05/24/22 15:01	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/24/22 15:01	75-34-3	
1,1-Dichloroethene	4.8	ug/L	1.0	1		05/24/22 15:01	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/24/22 15:01	107-06-2	
1,2-Dichloroethene (Total)	4140	ug/L	80.0	40		05/24/22 15:28	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/24/22 15:01	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		05/24/22 15:01	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		05/24/22 15:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		05/24/22 15:01	108-10-1	
Acetone	<5.0	ug/L	5.0	1		05/24/22 15:01	67-64-1	IH
Benzene	<0.70	ug/L	0.70	1		05/24/22 15:01	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		05/24/22 15:01	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		05/24/22 15:01	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		05/24/22 15:01	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		05/24/22 15:01	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/24/22 15:01	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		05/24/22 15:01	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		05/24/22 15:01	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		05/24/22 15:01	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		05/24/22 15:01	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/24/22 15:01	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		05/24/22 15:01	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		05/24/22 15:01	75-09-2	
Styrene	<1.0	ug/L	1.0	1		05/24/22 15:01	100-42-5	
Tetrachloroethene	501	ug/L	40.0	40		05/24/22 15:28	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		05/24/22 15:01	108-88-3	
Trichloroethene	383	ug/L	40.0	40		05/24/22 15:28	79-01-6	
Vinyl chloride	267	ug/L	40.0	40		05/24/22 15:28	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		05/24/22 15:01	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/24/22 15:01	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/24/22 15:01	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	86	%	81-122	1		05/24/22 15:01	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		05/24/22 15:01	460-00-4	
Toluene-d8 (S)	92	%	82-122	1		05/24/22 15:01	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	6.4	Std. Units	0.10	1		05/19/22 13:58		H3,H6, N3

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

<b>Sample: UG</b>		<b>Lab ID: 70215069004</b>		Collected: 05/17/22 11:45	Received: 05/17/22 12:05	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>19.7</b>	deg C	0.10	1		05/19/22 13:58		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>8.1</b>	mg/L	1.0	1		05/31/22 18:11	7440-44-0	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

QC Batch: 257310

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70215069001, 70215069002, 70215069003, 70215069004

METHOD BLANK: 1299419

Matrix: Water

Associated Lab Samples: 70215069001, 70215069002, 70215069003, 70215069004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	05/23/22 20:32	

LABORATORY CONTROL SAMPLE: 1299420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	13100	105	85-115	

MATRIX SPIKE SAMPLE: 1299422

Parameter	Units	70213830029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	11300	5000	16200	99	70-130	

MATRIX SPIKE SAMPLE: 1299424

Parameter	Units	70215088025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	322	5000	5460	103	70-130	

SAMPLE DUPLICATE: 1299421

Parameter	Units	70213830029 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	11300	11100	2	

SAMPLE DUPLICATE: 1299423

Parameter	Units	70215088025 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	322	311	4	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 5/17  
Pace Project No.: 70215069

QC Batch: 257915 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70215069001, 70215069002, 70215069003, 70215069004

METHOD BLANK: 1302439 Matrix: Water  
Associated Lab Samples: 70215069001, 70215069002, 70215069003, 70215069004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/24/22 10:20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/24/22 10:20	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/24/22 10:20	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/24/22 10:20	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/24/22 10:20	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/24/22 10:20	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	05/24/22 10:20	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/24/22 10:20	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/24/22 10:20	
2-Hexanone	ug/L	<5.0	5.0	05/24/22 10:20	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/24/22 10:20	
Acetone	ug/L	<5.0	5.0	05/24/22 10:20	
Benzene	ug/L	<0.70	0.70	05/24/22 10:20	
Bromodichloromethane	ug/L	<1.0	1.0	05/24/22 10:20	
Bromoform	ug/L	<1.0	1.0	05/24/22 10:20	v3
Bromomethane	ug/L	<1.0	1.0	05/24/22 10:20	
Carbon disulfide	ug/L	<1.0	1.0	05/24/22 10:20	
Carbon tetrachloride	ug/L	<1.0	1.0	05/24/22 10:20	v3
Chlorobenzene	ug/L	<1.0	1.0	05/24/22 10:20	
Chloroethane	ug/L	<1.0	1.0	05/24/22 10:20	
Chloroform	ug/L	<1.0	1.0	05/24/22 10:20	
Chloromethane	ug/L	<1.0	1.0	05/24/22 10:20	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/24/22 10:20	
Dibromochloromethane	ug/L	<1.0	1.0	05/24/22 10:20	
Ethylbenzene	ug/L	<1.0	1.0	05/24/22 10:20	
Methylene Chloride	ug/L	<1.0	1.0	05/24/22 10:20	
Styrene	ug/L	<1.0	1.0	05/24/22 10:20	
Tetrachloroethene	ug/L	<1.0	1.0	05/24/22 10:20	v3
Toluene	ug/L	<1.0	1.0	05/24/22 10:20	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/24/22 10:20	
Trichloroethene	ug/L	<1.0	1.0	05/24/22 10:20	
Vinyl chloride	ug/L	<1.0	1.0	05/24/22 10:20	
Xylene (Total)	ug/L	<3.0	3.0	05/24/22 10:20	
1,2-Dichloroethane-d4 (S)	%	86	81-122	05/24/22 10:20	
4-Bromofluorobenzene (S)	%	101	79-118	05/24/22 10:20	
Toluene-d8 (S)	%	95	82-122	05/24/22 10:20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

LABORATORY CONTROL SAMPLE: 1302440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.1	90	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	70-127	
1,1,2-Trichloroethane	ug/L	50	53.0	106	81-119	
1,1-Dichloroethane	ug/L	50	55.9	112	72-126	
1,1-Dichloroethene	ug/L	50	44.0	88	66-133	
1,2-Dichloroethane	ug/L	50	54.9	110	69-134	
1,2-Dichloroethene (Total)	ug/L	100	119	119	69-123	
1,2-Dichloropropane	ug/L	50	52.8	106	75-125	
2-Butanone (MEK)	ug/L	50	51.9	104	33-165 IH	
2-Hexanone	ug/L	50	45.7	91	50-128 IH	
4-Methyl-2-pentanone (MIBK)	ug/L	50	49.1	98	62-131	
Acetone	ug/L	50	54.6	109	14-156 IH	
Benzene	ug/L	50	56.2	112	78-117	
Bromodichloromethane	ug/L	50	48.8	98	80-123	
Bromoform	ug/L	50	40.1	80	49-138 v3	
Bromomethane	ug/L	50	50.9	102	10-143	
Carbon disulfide	ug/L	50	43.0	86	66-133	
Carbon tetrachloride	ug/L	50	39.2	78	64-135 v3	
Chlorobenzene	ug/L	50	50.1	100	79-117	
Chloroethane	ug/L	50	41.2	82	31-156	
Chloroform	ug/L	50	57.9	116	79-123	
Chloromethane	ug/L	50	34.0	68	39-116	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	78-131	
Dibromochloromethane	ug/L	50	43.0	86	65-123	
Ethylbenzene	ug/L	50	47.1	94	79-115	
Methylene Chloride	ug/L	50	56.9	114	67-123	
Styrene	ug/L	50	49.7	99	82-121	
Tetrachloroethene	ug/L	50	33.2	66	65-120 v3	
Toluene	ug/L	50	55.6	111	80-114	
trans-1,3-Dichloropropene	ug/L	50	45.3	91	73-135	
Trichloroethene	ug/L	50	50.8	102	79-115	
Vinyl chloride	ug/L	50	42.1	84	49-118	
Xylene (Total)	ug/L	150	145	96	80-118	
1,2-Dichloroethane-d4 (S)	%			84	81-122	
4-Bromofluorobenzene (S)	%			101	79-118	
Toluene-d8 (S)	%			95	82-122	

SAMPLE DUPLICATE: 1302805

Parameter	Units	70215069001 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		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

SAMPLE DUPLICATE: 1302805

Parameter	Units	70215069001 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	24.7	24.1	3	
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		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		IH
Benzene	ug/L	<0.70	<0.70		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		v3
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		v3
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	12.5	12.1	3 v3	
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)	%	86	89		
4-Bromofluorobenzene (S)	%	100	101		
Toluene-d8 (S)	%	93	94		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

QC Batch: 257418

Analysis Method: SM22 4500-H+B

QC Batch Method: SM22 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70215069001, 70215069002, 70215069003, 70215069004

SAMPLE DUPLICATE: 1299754

Parameter	Units	70215138001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.8	7.8		0 H3,H6,N3
Temperature, Water (C)	deg C	11.7	11.7		0 H3,H6

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

QC Batch: 258731

Analysis Method: SM22 5310B

QC Batch Method: SM22 5310B

Analysis Description: 5310B TOC

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70215069001, 70215069002, 70215069003, 70215069004

METHOD BLANK: 1306038

Matrix: Water

Associated Lab Samples: 70215069001, 70215069002, 70215069003, 70215069004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	05/31/22 16:24	

LABORATORY CONTROL SAMPLE: 1306039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.5	95	85-115	

MATRIX SPIKE SAMPLE: 1306041

Parameter	Units	70215436001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	<1.0	10	10.0	98	75-125	

SAMPLE DUPLICATE: 1306040

Parameter	Units	70215436001 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	<1.0	<1.0		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN1001/MINMILT 5/17

Pace Project No.: 70215069

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70215069001	SYS-EFF	EPA 200.7	257310	EPA 200.7	257386
70215069002	SYS-INF	EPA 200.7	257310	EPA 200.7	257386
70215069003	MAG	EPA 200.7	257310	EPA 200.7	257386
70215069004	UG	EPA 200.7	257310	EPA 200.7	257386
70215069001	SYS-EFF	EPA 8260C/5030C	257915		
70215069002	SYS-INF	EPA 8260C/5030C	257915		
70215069003	MAG	EPA 8260C/5030C	257915		
70215069004	UG	EPA 8260C/5030C	257915		
70215069001	SYS-EFF	SM22 4500-H+B	257418		
70215069002	SYS-INF	SM22 4500-H+B	257418		
70215069003	MAG	SM22 4500-H+B	257418		
70215069004	UG	SM22 4500-H+B	257418		
70215069001	SYS-EFF	SM22 5310B	258731		
70215069002	SYS-INF	SM22 5310B	258731		
70215069003	MAG	SM22 5310B	258731		
70215069004	UG	SM22 5310B	258731		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pea-standard-terms.pdf>

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **PWGC**  
 Address: **630 Johnson Ave, Bohemia, NY**  
 Report To: **Kaitlyn Grosby**  
 Copy To: \_\_\_\_\_

Billing Information:  
 Same as Client  
 Email To: **Krasby@pwgrosser.com**  
 Site Collection Info/Address:  
**540 Smith Street**

Customer Project Name/Number: **MIN1001 / min.M.I.H**  
 Phone: **631-589-6353**  
 Email: **Krasby@pwgrosser.com**  
 Collected By (print): **Kaitlyn Grosby**  
 Collected By (signature): *[Signature]*  
 Turnaround Date Required: **Standard**  
 Rush: (Expedite Charges Apply)  
 Same Day  Next Day  
 2 Day  3 Day  
 4 Day  5 Day  
 Analysis: \_\_\_\_\_

County/City: \_\_\_\_\_  
 Time Zone Collected: \_\_\_\_\_  
 Compliance Monitoring?  
 Yes  No  
 DW PWS ID #: \_\_\_\_\_  
 DW Location Code: \_\_\_\_\_  
 Immediately Packed on Ice:  
 Yes  No  
 Field Filtered (if applicable):  
 Yes  No

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solids (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)		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time			
SYS-EFF	GW	Grab	5-17-24	1115		6	PIC
SYS-INF				1125			
MAG				1135			
VG				1145			

Lab Profile/Line:

Lab Sample Receipt Checklist:	Y
Custody Seals Present/Intact	Y
Custody Signatures Present	Y
Collector Signatures Present	Y
Bottles Intact	Y
Correct Bottles	Y
Sufficient Volume	Y
Samples Received on Ice	Y
VOA - Headspace Acceptable	Y
USDA Regulated Solids	Y
Samples in Holding Time	Y
Residual Chlorine Present	Y
Cl Strips:	Y
Sample pH Acceptable	Y
pH Strips:	Y
Sulfide Present	Y
Lead Acetate Strips:	Y

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: **Blue** Wet Dry None  
 Packing Material Used: **BB**  
 Radchem sample(s) screened (<500 cpm): **Y N NA**  
 Date/Time: **5-17-22 1205** Received by/Company: (Signature) *[Signature]*  
 Date/Time: \_\_\_\_\_ Received by/Company: (Signature)  
 Date/Time: \_\_\_\_\_ Received by/Company: (Signature)

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**  
 Lab Tracking #: \_\_\_\_\_  
 Samples received via:  
 FEDEX UPS Flight Courier Pace Courier  
 Date/Time: **5/17/24 2:05** MTJL LAB USE ONLY  
 Date/Time: \_\_\_\_\_ Table #:  
 Date/Time: \_\_\_\_\_ Accnum:  
 Date/Time: \_\_\_\_\_ Template:  
 Date/Time: \_\_\_\_\_ Prelogin:  
 Date/Time: \_\_\_\_\_ PM:  
 Date/Time: \_\_\_\_\_ PB:

LAB USE ONLY - Affix Here  
**WO#: 70215069**  
**70215069**  
 Container Preserve  
**31102**

\*\* 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

LAB Sample Temperature Info:  
 Temp Blank Received: **Y N NA**  
 Therm ID#: **TH109**  
 Cooler 1 Temp Upon Receipt: **21.0C**  
 Cooler 1 Therm Corr. Factor: **0.0C**  
 Cooler 1 Corrected Temp: **21.0C**  
 Comments:

Trip Blank Received: **Y N NA**  
 HCL MeOH TSP Other  
 Non Conformance(s): **YES / No**  
 Page: **1** of: **1**

June 23, 2022

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

RE: Project: MIN1001/MINMILT 6/9  
Pace Project No.: 70217788

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



Giovanna F. Deloca  
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Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

Sample: <b>SYS-EFF</b>	Lab ID: <b>70217788001</b>	Collected: 06/09/22 11:30	Received: 06/09/22 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>7650</b>	ug/L	100	1	06/14/22 08:05	06/23/22 13:04	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		06/16/22 16:23	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		06/16/22 16:23	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		06/16/22 16:23	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		06/16/22 16:23	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		06/16/22 16:23	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		06/16/22 16:23	107-06-2	
1,2-Dichloroethene (Total)	<b>24.6</b>	ug/L	2.0	1		06/16/22 16:23	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		06/16/22 16:23	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		06/16/22 16:23	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		06/16/22 16:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		06/16/22 16:23	108-10-1	
Acetone	<5.0	ug/L	5.0	1		06/16/22 16:23	67-64-1	
Benzene	<0.70	ug/L	0.70	1		06/16/22 16:23	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		06/16/22 16:23	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		06/16/22 16:23	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		06/16/22 16:23	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		06/16/22 16:23	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		06/16/22 16:23	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		06/16/22 16:23	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		06/16/22 16:23	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		06/16/22 16:23	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		06/16/22 16:23	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		06/16/22 16:23	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		06/16/22 16:23	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		06/16/22 16:23	75-09-2	
Styrene	<1.0	ug/L	1.0	1		06/16/22 16:23	100-42-5	
Tetrachloroethene	<b>20.1</b>	ug/L	1.0	1		06/16/22 16:23	127-18-4	L2,v3
Toluene	<1.0	ug/L	1.0	1		06/16/22 16:23	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		06/16/22 16:23	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		06/16/22 16:23	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		06/16/22 16:23	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/16/22 16:23	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/16/22 16:23	10061-02-6	v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	85	%	81-122	1		06/16/22 16:23	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		06/16/22 16:23	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		06/16/22 16:23	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.8</b>	Std. Units	0.10	1		06/14/22 12:43		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

<b>Sample: SYS-EFF</b>		<b>Lab ID: 70217788001</b>		Collected: 06/09/22 11:30	Received: 06/09/22 12:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>18.4</b>	deg C	0.10	1		06/14/22 12:43		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>3.8</b>	mg/L	1.0	1		06/15/22 14:19	7440-44-0	

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

Sample: <b>SYS-INF</b>	Lab ID: <b>70217788002</b>	Collected: 06/09/22 11:40	Received: 06/09/22 12:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	<b>14600</b>	ug/L	100	1	06/14/22 08:05	06/23/22 13:11	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		06/16/22 13:57	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		06/16/22 13:57	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		06/16/22 13:57	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		06/16/22 13:57	75-34-3	
1,1-Dichloroethene	<b>3.6</b>	ug/L	1.0	1		06/16/22 13:57	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		06/16/22 13:57	107-06-2	
1,2-Dichloroethene (Total)	<b>2720</b>	ug/L	50.0	25		06/16/22 14:26	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		06/16/22 13:57	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		06/16/22 13:57	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		06/16/22 13:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		06/16/22 13:57	108-10-1	
Acetone	<5.0	ug/L	5.0	1		06/16/22 13:57	67-64-1	
Benzene	<0.70	ug/L	0.70	1		06/16/22 13:57	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		06/16/22 13:57	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		06/16/22 13:57	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		06/16/22 13:57	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		06/16/22 13:57	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		06/16/22 13:57	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		06/16/22 13:57	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		06/16/22 13:57	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		06/16/22 13:57	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		06/16/22 13:57	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		06/16/22 13:57	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		06/16/22 13:57	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		06/16/22 13:57	75-09-2	
Styrene	<1.0	ug/L	1.0	1		06/16/22 13:57	100-42-5	
Tetrachloroethene	<b>768</b>	ug/L	25.0	25		06/16/22 14:26	127-18-4	L2,v3
Toluene	<1.0	ug/L	1.0	1		06/16/22 13:57	108-88-3	
Trichloroethene	<b>206</b>	ug/L	25.0	25		06/16/22 14:26	79-01-6	
Vinyl chloride	<b>152</b>	ug/L	1.0	1		06/16/22 13:57	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		06/16/22 13:57	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/16/22 13:57	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/16/22 13:57	10061-02-6	v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	86	%	81-122	1		06/16/22 13:57	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		06/16/22 13:57	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		06/16/22 13:57	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	<b>6.5</b>	Std. Units	0.10	1		06/14/22 12:47		H3,H6, N3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

<b>Sample: SYS-INF</b>		<b>Lab ID: 70217788002</b>		Collected: 06/09/22 11:40	Received: 06/09/22 12:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>18.4</b>	deg C	0.10	1		06/14/22 12:47		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>4.1</b>	mg/L	1.0	1		06/15/22 14:31	7440-44-0	

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### ANALYTICAL RESULTS

Project: MIN1001/MINMILT 6/9  
Pace Project No.: 70217788

Sample: <b>MAG</b>		Lab ID: <b>70217788003</b>	Collected: 06/09/22 11:50	Received: 06/09/22 12:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>6050</b>	ug/L	100	1	06/14/22 08:05	06/23/22 13:14	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		06/16/22 14:45	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		06/16/22 14:45	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		06/16/22 14:45	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		06/16/22 14:45	75-34-3	
1,1-Dichloroethene	<b>2.0</b>	ug/L	1.0	1		06/16/22 14:45	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		06/16/22 14:45	107-06-2	
1,2-Dichloroethene (Total)	<b>1350</b>	ug/L	40.0	20		06/16/22 15:18	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		06/16/22 14:45	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		06/16/22 14:45	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		06/16/22 14:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		06/16/22 14:45	108-10-1	
Acetone	<5.0	ug/L	5.0	1		06/16/22 14:45	67-64-1	
Benzene	<0.70	ug/L	0.70	1		06/16/22 14:45	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		06/16/22 14:45	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		06/16/22 14:45	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		06/16/22 14:45	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		06/16/22 14:45	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		06/16/22 14:45	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		06/16/22 14:45	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		06/16/22 14:45	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		06/16/22 14:45	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		06/16/22 14:45	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		06/16/22 14:45	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		06/16/22 14:45	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		06/16/22 14:45	75-09-2	
Styrene	<1.0	ug/L	1.0	1		06/16/22 14:45	100-42-5	
Tetrachloroethene	<b>951</b>	ug/L	20.0	20		06/16/22 15:18	127-18-4	L2,v3
Toluene	<1.0	ug/L	1.0	1		06/16/22 14:45	108-88-3	
Trichloroethene	<b>82.1</b>	ug/L	1.0	1		06/16/22 14:45	79-01-6	
Vinyl chloride	<b>28.9</b>	ug/L	1.0	1		06/16/22 14:45	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		06/16/22 14:45	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/16/22 14:45	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/16/22 14:45	10061-02-6	v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	87	%	81-122	1		06/16/22 14:45	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		06/16/22 14:45	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		06/16/22 14:45	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>6.4</b>	Std. Units	0.10	1		06/14/22 12:49		H3,H6, N3

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

<b>Sample: MAG</b>		<b>Lab ID: 70217788003</b>		Collected: 06/09/22 11:50	Received: 06/09/22 12:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>18.4</b>	deg C	0.10	1		06/14/22 12:49		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>1.1</b>	mg/L	1.0	1		06/15/22 20:04	7440-44-0	

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

Sample: UG		Lab ID: 70217788004	Collected: 06/09/22 12:00	Received: 06/09/22 12:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	24600	ug/L	100	1	06/14/22 08:05	06/23/22 13:16	7439-89-6	M1
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		06/16/22 15:37	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		06/16/22 15:37	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		06/16/22 15:37	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		06/16/22 15:37	75-34-3	
1,1-Dichloroethene	5.7	ug/L	1.0	1		06/16/22 15:37	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		06/16/22 15:37	107-06-2	
1,2-Dichloroethene (Total)	4430	ug/L	80.0	40		06/16/22 16:04	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		06/16/22 15:37	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		06/16/22 15:37	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		06/16/22 15:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		06/16/22 15:37	108-10-1	
Acetone	<5.0	ug/L	5.0	1		06/16/22 15:37	67-64-1	
Benzene	<0.70	ug/L	0.70	1		06/16/22 15:37	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		06/16/22 15:37	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		06/16/22 15:37	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0	1		06/16/22 15:37	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		06/16/22 15:37	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		06/16/22 15:37	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		06/16/22 15:37	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		06/16/22 15:37	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		06/16/22 15:37	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		06/16/22 15:37	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		06/16/22 15:37	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		06/16/22 15:37	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		06/16/22 15:37	75-09-2	
Styrene	<1.0	ug/L	1.0	1		06/16/22 15:37	100-42-5	
Tetrachloroethene	514	ug/L	40.0	40		06/16/22 16:04	127-18-4	L2,v3
Toluene	<1.0	ug/L	1.0	1		06/16/22 15:37	108-88-3	
Trichloroethene	365	ug/L	40.0	40		06/16/22 16:04	79-01-6	
Vinyl chloride	284	ug/L	40.0	40		06/16/22 16:04	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		06/16/22 15:37	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/16/22 15:37	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		06/16/22 15:37	10061-02-6	v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	84	%	81-122	1		06/16/22 15:37	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		06/16/22 15:37	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		06/16/22 15:37	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	6.3	Std. Units	0.10	1		06/14/22 12:51		H3,H6, N3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

<b>Sample: UG</b>		<b>Lab ID: 70217788004</b>		Collected: 06/09/22 12:00	Received: 06/09/22 12:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>18.9</b>	deg C	0.10	1		06/14/22 12:51		H3,H6
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>7.3</b>	mg/L	1.0	1		06/15/22 20:41	7440-44-0	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 6/9  
Pace Project No.: 70217788

QC Batch: 260566 Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70217788001, 70217788002, 70217788003, 70217788004

METHOD BLANK: 1315597 Matrix: Water  
Associated Lab Samples: 70217788001, 70217788002, 70217788003, 70217788004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	06/23/22 12:29	

LABORATORY CONTROL SAMPLE: 1315598

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	11600	93	85-115	

MATRIX SPIKE SAMPLE: 1315600

Parameter	Units	70217977003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	5000	5140	102	70-130	

MATRIX SPIKE SAMPLE: 1315602

Parameter	Units	70217788004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	24600	5000	28000	69	70-130	M1

SAMPLE DUPLICATE: 1315599

Parameter	Units	70217977003 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 1315601

Parameter	Units	70217788004 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	24600	24500	0	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 6/9  
Pace Project No.: 70217788

QC Batch: 260957 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70217788001, 70217788002, 70217788003, 70217788004

METHOD BLANK: 1317734 Matrix: Water  
Associated Lab Samples: 70217788001, 70217788002, 70217788003, 70217788004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	06/16/22 11:33	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	06/16/22 11:33	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	06/16/22 11:33	
1,1-Dichloroethane	ug/L	<1.0	1.0	06/16/22 11:33	
1,1-Dichloroethene	ug/L	<1.0	1.0	06/16/22 11:33	
1,2-Dichloroethane	ug/L	<1.0	1.0	06/16/22 11:33	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	06/16/22 11:33	
1,2-Dichloropropane	ug/L	<1.0	1.0	06/16/22 11:33	
2-Butanone (MEK)	ug/L	<5.0	5.0	06/16/22 11:33	
2-Hexanone	ug/L	<5.0	5.0	06/16/22 11:33	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	06/16/22 11:33	
Acetone	ug/L	<5.0	5.0	06/16/22 11:33	
Benzene	ug/L	<0.70	0.70	06/16/22 11:33	
Bromodichloromethane	ug/L	<1.0	1.0	06/16/22 11:33	
Bromoform	ug/L	<1.0	1.0	06/16/22 11:33	v3
Bromomethane	ug/L	<1.0	1.0	06/16/22 11:33	
Carbon disulfide	ug/L	<1.0	1.0	06/16/22 11:33	
Carbon tetrachloride	ug/L	<1.0	1.0	06/16/22 11:33	v3
Chlorobenzene	ug/L	<1.0	1.0	06/16/22 11:33	
Chloroethane	ug/L	<1.0	1.0	06/16/22 11:33	
Chloroform	ug/L	<1.0	1.0	06/16/22 11:33	
Chloromethane	ug/L	<1.0	1.0	06/16/22 11:33	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	06/16/22 11:33	
Dibromochloromethane	ug/L	<1.0	1.0	06/16/22 11:33	
Ethylbenzene	ug/L	<1.0	1.0	06/16/22 11:33	
Methylene Chloride	ug/L	<1.0	1.0	06/16/22 11:33	
Styrene	ug/L	<1.0	1.0	06/16/22 11:33	
Tetrachloroethene	ug/L	<1.0	1.0	06/16/22 11:33	v3
Toluene	ug/L	<1.0	1.0	06/16/22 11:33	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	06/16/22 11:33	v3
Trichloroethene	ug/L	<1.0	1.0	06/16/22 11:33	
Vinyl chloride	ug/L	<1.0	1.0	06/16/22 11:33	
Xylene (Total)	ug/L	<3.0	3.0	06/16/22 11:33	
1,2-Dichloroethane-d4 (S)	%	83	81-122	06/16/22 11:33	
4-Bromofluorobenzene (S)	%	99	79-118	06/16/22 11:33	
Toluene-d8 (S)	%	98	82-122	06/16/22 11:33	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

LABORATORY CONTROL SAMPLE: 1317735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	38.4	77	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	49.5	99	70-127	
1,1,2-Trichloroethane	ug/L	50	50.7	101	81-119	
1,1-Dichloroethane	ug/L	50	53.4	107	72-126	
1,1-Dichloroethene	ug/L	50	48.1	96	66-133	
1,2-Dichloroethane	ug/L	50	50.9	102	69-134	
1,2-Dichloroethene (Total)	ug/L	100	116	116	69-123	
1,2-Dichloropropane	ug/L	50	49.3	99	75-125	
2-Butanone (MEK)	ug/L	50	51.4	103	33-165 IH	
2-Hexanone	ug/L	50	43.1	86	50-128 IH	
4-Methyl-2-pentanone (MIBK)	ug/L	50	44.4	89	62-131	
Acetone	ug/L	50	56.7	113	14-156 IH	
Benzene	ug/L	50	51.0	102	78-117	
Bromodichloromethane	ug/L	50	45.1	90	80-123	
Bromoform	ug/L	50	37.9	76	49-138 v3	
Bromomethane	ug/L	50	60.2	120	10-143 IH,v1	
Carbon disulfide	ug/L	50	44.5	89	66-133	
Carbon tetrachloride	ug/L	50	34.0	68	64-135 v3	
Chlorobenzene	ug/L	50	48.3	97	79-117	
Chloroethane	ug/L	50	39.8	80	31-156	
Chloroform	ug/L	50	55.5	111	79-123	
Chloromethane	ug/L	50	35.1	70	39-116	
cis-1,3-Dichloropropene	ug/L	50	44.4	89	78-131	
Dibromochloromethane	ug/L	50	41.5	83	65-123	
Ethylbenzene	ug/L	50	44.2	88	79-115	
Methylene Chloride	ug/L	50	57.0	114	67-123 v1	
Styrene	ug/L	50	47.9	96	82-121	
Tetrachloroethene	ug/L	50	28.8	58	65-120 L2,v3	
Toluene	ug/L	50	50.8	102	80-114	
trans-1,3-Dichloropropene	ug/L	50	40.0	80	73-135 v3	
Trichloroethene	ug/L	50	45.0	90	79-115	
Vinyl chloride	ug/L	50	41.8	84	49-118	
Xylene (Total)	ug/L	150	135	90	80-118	
1,2-Dichloroethane-d4 (S)	%			82	81-122	
4-Bromofluorobenzene (S)	%			102	79-118	
Toluene-d8 (S)	%			101	82-122	

MATRIX SPIKE SAMPLE: 1318566

Parameter	Units	70217789001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	48.6	97	72-123	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	53.8	108	64-133	
1,1,2-Trichloroethane	ug/L	<1.0	50	54.0	108	78-120	
1,1-Dichloroethane	ug/L	<1.0	50	63.6	127	70-124 M1	
1,1-Dichloroethene	ug/L	<1.0	50	66.4	133	61-139	

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**QUALITY CONTROL DATA**

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

MATRIX SPIKE SAMPLE: 1318566		70217789001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	56.2	112	58-138	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	143	143	59-133	
1,2-Dichloropropane	ug/L	<1.0	50	54.3	109	74-122	
2-Butanone (MEK)	ug/L	<5.0	50	48.8	98	33-148	IH
2-Hexanone	ug/L	<5.0	50	44.8	90	49-124	IH
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	49.1	98	60-136	
Acetone	ug/L	<5.0	50	42.3	85	35-112	IH
Benzene	ug/L	<0.70	50	60.2	120	70-130	
Bromodichloromethane	ug/L	<1.0	50	48.3	97	74-122	
Bromoform	ug/L	<1.0	50	38.2	76	39-139	v3
Bromomethane	ug/L	<1.0	50	61.6	123	10-130	IH,v1
Carbon disulfide	ug/L	<1.0	50	61.6	123	60-129	
Carbon tetrachloride	ug/L	<1.0	50	43.7	87	56-143	v3
Chlorobenzene	ug/L	<1.0	50	54.7	109	74-122	
Chloroethane	ug/L	<1.0	50	57.0	114	35-146	
Chloroform	ug/L	<1.0	50	64.0	128	71-129	
Chloromethane	ug/L	<1.0	50	49.7	99	29-112	
cis-1,3-Dichloropropene	ug/L	<1.0	50	45.7	91	67-130	
Dibromochloromethane	ug/L	<1.0	50	42.3	85	55-126	
Ethylbenzene	ug/L	<1.0	50	54.8	110	70-126	
Methylene Chloride	ug/L	<1.0	50	63.4	127	69-117	M1,v1
Styrene	ug/L	<1.0	50	53.4	107	79-123	
Tetrachloroethene	ug/L	<1.0	50	39.7	79	64-124	v3
Toluene	ug/L	<1.0	50	60.1	120	76-123	
trans-1,3-Dichloropropene	ug/L	<1.0	50	38.7	77	61-130	v3
Trichloroethene	ug/L	<1.0	50	55.7	111	73-125	
Vinyl chloride	ug/L	<1.0	50	64.0	128	33-127	M1
Xylene (Total)	ug/L	<3.0	150	162	108	78-123	
1,2-Dichloroethane-d4 (S)	%				82	81-122	
4-Bromofluorobenzene (S)	%				101	79-118	
Toluene-d8 (S)	%				98	82-122	

SAMPLE DUPLICATE: 1318567

Parameter	Units	70217789004	Dup	RPD	Qualifiers
		Result	Result		
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	153	173	12	
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**

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

SAMPLE DUPLICATE: 1318567

Parameter	Units	70217789004 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	<0.70	<0.70		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		v3
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		v3
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		v3
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		v3
Trichloroethene	ug/L	22.9	35.1	42	D6
Vinyl chloride	ug/L	8.6	11.1	25	D6
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	83	83		
4-Bromofluorobenzene (S)	%	99	101		
Toluene-d8 (S)	%	99	99		

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

QC Batch: 260608

Analysis Method: SM22 4500-H+B

QC Batch Method: SM22 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70217788001, 70217788002, 70217788003, 70217788004

SAMPLE DUPLICATE: 1315778

Parameter	Units	70217788001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.8	6.8		0 H3,H6,N3
Temperature, Water (C)	deg C	18.4	18.5		1 H3,H6

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 6/9  
Pace Project No.: 70217788

QC Batch: 260610      Analysis Method: SM22 5310B  
QC Batch Method: SM22 5310B      Analysis Description: 5310B TOC  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70217788001, 70217788002

METHOD BLANK: 1315790      Matrix: Water  
Associated Lab Samples: 70217788001, 70217788002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	06/15/22 11:02	

LABORATORY CONTROL SAMPLE: 1315791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.6	96	85-115	

MATRIX SPIKE SAMPLE: 1315793

Parameter	Units	70217839008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.3	10	11.5	103	75-125	

SAMPLE DUPLICATE: 1315792

Parameter	Units	70217839008 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	1.3	1.3	0	

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### QUALITY CONTROL DATA

Project: MIN1001/MINMILT 6/9  
Pace Project No.: 70217788

QC Batch: 260779      Analysis Method: SM22 5310B  
QC Batch Method: SM22 5310B      Analysis Description: 5310B TOC  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70217788003, 70217788004

METHOD BLANK: 1316751      Matrix: Water  
Associated Lab Samples: 70217788003, 70217788004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	0.50	06/15/22 19:39	

LABORATORY CONTROL SAMPLE: 1316752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.5	95	85-115	

MATRIX SPIKE SAMPLE: 1316754

Parameter	Units	70217788003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.1	10	11.2	101	75-125	

SAMPLE DUPLICATE: 1316753

Parameter	Units	70217788003 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	1.1	1.1	2	

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## QUALIFIERS

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIN1001/MINMILT 6/9

Pace Project No.: 70217788

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70217788001	SYS-EFF	EPA 200.7	260566	EPA 200.7	260647
70217788002	SYS-INF	EPA 200.7	260566	EPA 200.7	260647
70217788003	MAG	EPA 200.7	260566	EPA 200.7	260647
70217788004	UG	EPA 200.7	260566	EPA 200.7	260647
70217788001	SYS-EFF	EPA 8260C/5030C	260957		
70217788002	SYS-INF	EPA 8260C/5030C	260957		
70217788003	MAG	EPA 8260C/5030C	260957		
70217788004	UG	EPA 8260C/5030C	260957		
70217788001	SYS-EFF	SM22 4500-H+B	260608		
70217788002	SYS-INF	SM22 4500-H+B	260608		
70217788003	MAG	SM22 4500-H+B	260608		
70217788004	UG	SM22 4500-H+B	260608		
70217788001	SYS-EFF	SM22 5310B	260610		
70217788002	SYS-INF	SM22 5310B	260610		
70217788003	MAG	SM22 5310B	260779		
70217788004	UG	SM22 5310B	260779		

### REPORT OF LABORATORY ANALYSIS

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**NO# : 70217788**



**LAB USE ONLY**

Subject Manager: **GTD**

**CHAIN-OF-CUSTODY Analytical Request Document**

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pac-standard-terms.pdf>

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**Billing Information:**

Company: **PWGC**

Address: **630 Johnson Ave, Bohemia, NY**

Report To: **Kaitlyn Crosby**

Copy To: **Kaitlyn Crosby**

Email To: **Krosby@pwgrassers.com**

Site Collection Info/Address: **510 Smith Street**

State: **NY** County/City: **Hammagdale** Time Zone Collected: **JPT** | JMT | JCT | JET

Customer Project Name/Number: **MTA100 / Min Mill**

Phone: **631-584-6353** Site/Facility ID #: **Standard**

Email: **Krosby@pwgrassers.com**

Collected By (print): **Kaitlyn Crosby**

Quote #: **Standard**

Turnaround Date Required: **Standard**

Rush: (Expedite Charges Apply)

( ) Same Day ( ) Next Day

( ) 2 Day ( ) 3 Day

( ) 4 Day ( ) 5 Day

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	Composite End Date	Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
SYS-EFF	GW Grab	✓	6-9-22	1130	1130	✓	6	P/B
SYS-INF	↓	✓	1140	1150	1150	✓	↓	↓
MAG	↓	✓	1200	1200	1200	✓	↓	↓
UG	↓	✓				✓	↓	↓

Analyses	VOC	Iron	pH	TOC
	✓	✓	✓	✓
	✓	✓	✓	✓
	✓	✓	✓	✓
	✓	✓	✓	✓

Lab Profile/Line: \_\_\_\_\_

Lab Sample Receipt Checklist:

Custody Seals Present/Intact **Y** **N** **NA**

Custody Signatures Present **Y** **N** **NA**

Collector Signatures 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**

VQA - Headspace Acceptable **Y** **N** **NA**

USDA Regulated Solids **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: \_\_\_\_\_

Sulfide Present **Y** **N** **NA**

Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY:

Lab Sample # / Comments: \_\_\_\_\_

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used: **Blue** **Wet** **Dry** **None**

Packing Material Used: \_\_\_\_\_

Radchem sample(s) screened (<500 cpm): **Y** **N** **NA**

Received by/Company: (Signature) **Dyeck H**

Date/Time: **6-9-22 12:50**

Relinquished by/Company: (Signature) **PWGC**

Date/Time: **6-9-22 12:50**

Relinquished by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Relinquished by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

LAB Sample Temperature Info:

Temp Blank Received: **Y** **N** **NA**

Therm ID#: **TH100**

Cooler 1 Temp Upon Receipt: **6.1** °C

Cooler 1 Therm Corr. Factory: **0.0** °C

Cooler 1 Corrected Temp: **6.1** °C

Comments: \_\_\_\_\_

SHORT HOLDS PRESENT (<72 hours): **Y** **N** **N/A**

Lab Tracking #: \_\_\_\_\_

Samples received via: **Client**

FEDEX **UPS** Courier **Pace Courier**

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

MTIL LAB USE ONLY

Table #: \_\_\_\_\_

Account #: \_\_\_\_\_

Template: \_\_\_\_\_

Prelogin: \_\_\_\_\_

PM: \_\_\_\_\_

PB: \_\_\_\_\_

Trip Blank Received: **Y** **N** **NA**

HCL MeOH TSP Other

Non Conformance(s): \_\_\_\_\_

Page: **1** of: **1**

August 10, 2022

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

RE: Project: MIMILT/MIN1001 7/29  
Pace Project No.: 70223806

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
70223806001	SYS-EFF	Water	07/29/22 10:00	07/29/22 10:55
70223806002	SYS-INF	Water	07/29/22 10:10	07/29/22 10:55
70223806003	MAG	Water	07/29/22 10:20	07/29/22 10:55
70223806004	VG	Water	07/29/22 10:30	07/29/22 10:55
70223806005	SYS-EFF	Water	07/29/22 10:00	07/29/22 10:55
70223806006	SYS-INF	Water	07/29/22 10:10	07/29/22 10:55
70223806007	MAG	Water	07/29/22 10:20	07/29/22 10:55
70223806008	UG	Water	07/29/22 10:30	07/29/22 10:55

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### SAMPLE ANALYTE COUNT

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70223806001	SYS-EFF	SM22 4500-H+B	SM2	2
70223806002	SYS-INF	SM22 4500-H+B	SM2	2
70223806003	MAG	SM22 4500-H+B	SM2	2
70223806004	VG	SM22 4500-H+B	SM2	2
70223806005	SYS-EFF	EPA 200.7	JP2	1
		EPA 8260C/5030C	TJD	36
70223806006	SYS-INF	EPA 200.7	JP2	1
		EPA 8260C/5030C	TJD	36
70223806007	MAG	EPA 200.7	JP2	1
		EPA 8260C/5030C	TJD	36
70223806008	UG	EPA 200.7	JP2	1
		EPA 8260C/5030C	TJD	36

PACE-MV = Pace Analytical Services - Melville

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## ANALYTICAL RESULTS

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

Sample: <b>SYS-EFF</b>		Lab ID: <b>70223806001</b>		Collected: 07/29/22 10:00	Received: 07/29/22 10:55	Matrix: Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	<b>7.2</b>	Std. Units	0.10		1		07/29/22 14:13		H3,H6, N3
Temperature, Water (C)	<b>16.2</b>	deg C	0.10		1		07/29/22 14:13		H3,H6

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

Sample: <b>SYS-INF</b>		Lab ID: <b>70223806002</b>		Collected: 07/29/22 10:10	Received: 07/29/22 10:55	Matrix: Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	<b>6.6</b>	Std. Units	0.10		1		07/29/22 14:16		H3,H6, N3
Temperature, Water (C)	<b>16.1</b>	deg C	0.10		1		07/29/22 14:16		H3,H6

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

Sample: <b>MAG</b>		Lab ID: <b>70223806003</b>		Collected: 07/29/22 10:20	Received: 07/29/22 10:55	Matrix: Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	<b>6.4</b>	Std. Units	0.10		1		07/29/22 14:20		H3,H6, N3
Temperature, Water (C)	<b>16.2</b>	deg C	0.10		1		07/29/22 14:20		H3,H6

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

Sample: VG		Lab ID: 70223806004		Collected: 07/29/22 10:30	Received: 07/29/22 10:55	Matrix: Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	7.4	Std. Units	0.10		1		07/29/22 14:22		H3,H6, N3
Temperature, Water (C)	16.3	deg C	0.10		1		07/29/22 14:22		H3,H6

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

Sample: <b>SYS-EFF</b> Lab ID: <b>70223806005</b> Collected: 07/29/22 10:00      Received: 07/29/22 10:55      Matrix: Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>									
Analytical Method: EPA 200.7      Preparation Method: EPA 200.7									
Pace Analytical Services - Melville									
Iron	<b>3460</b>	ug/L	100		1	08/02/22 08:30	08/03/22 12:36	7439-89-6	
<b>8260C Volatile Organics</b>									
Analytical Method: EPA 8260C/5030C									
Pace Analytical Services - Melville									
1,1,1-Trichloroethane	<1.0	ug/L	1.0		1		08/01/22 15:27	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0		1		08/01/22 15:27	79-34-5	v3
1,1,2-Trichloroethane	<1.0	ug/L	1.0		1		08/01/22 15:27	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0		1		08/01/22 15:27	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0		1		08/01/22 15:27	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0		1		08/01/22 15:27	107-06-2	
1,2-Dichloroethene (Total)	<b>12.1</b>	ug/L	2.0		1		08/01/22 15:27	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0		1		08/01/22 15:27	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0		1		08/01/22 15:27	78-93-3	
2-Hexanone	<5.0	ug/L	5.0		1		08/01/22 15:27	591-78-6	v3
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0		1		08/01/22 15:27	108-10-1	
Acetone	<5.0	ug/L	5.0		1		08/01/22 15:27	67-64-1	
Benzene	<0.70	ug/L	0.70		1		08/01/22 15:27	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0		1		08/01/22 15:27	75-27-4	
Bromoform	<1.0	ug/L	1.0		1		08/01/22 15:27	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0		1		08/01/22 15:27	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0		1		08/01/22 15:27	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0		1		08/01/22 15:27	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0		1		08/01/22 15:27	108-90-7	
Chloroethane	<1.0	ug/L	1.0		1		08/01/22 15:27	75-00-3	
Chloroform	<1.0	ug/L	1.0		1		08/01/22 15:27	67-66-3	
Chloromethane	<1.0	ug/L	1.0		1		08/01/22 15:27	74-87-3	L1
Dibromochloromethane	<1.0	ug/L	1.0		1		08/01/22 15:27	124-48-1	v3
Ethylbenzene	<1.0	ug/L	1.0		1		08/01/22 15:27	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0		1		08/01/22 15:27	75-09-2	
Styrene	<1.0	ug/L	1.0		1		08/01/22 15:27	100-42-5	
Tetrachloroethene	<b>10.0</b>	ug/L	1.0		1		08/01/22 15:27	127-18-4	
Toluene	<1.0	ug/L	1.0		1		08/01/22 15:27	108-88-3	
Trichloroethene	<1.0	ug/L	1.0		1		08/01/22 15:27	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0		1		08/01/22 15:27	75-01-4	L1
Xylene (Total)	<3.0	ug/L	3.0		1		08/01/22 15:27	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0		1		08/01/22 15:27	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0		1		08/01/22 15:27	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	81-122		1		08/01/22 15:27	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118		1		08/01/22 15:27	460-00-4	
Toluene-d8 (S)	93	%	82-122		1		08/01/22 15:27	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

**Sample: SYS-INF**      **Lab ID: 70223806006**      Collected: 07/29/22 10:10      Received: 07/29/22 10:55      Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>									
Analytical Method: EPA 200.7      Preparation Method: EPA 200.7									
Pace Analytical Services - Melville									
Iron	8570	ug/L	100		1	08/02/22 08:30	08/03/22 12:38	7439-89-6	
<b>8260C Volatile Organics</b>									
Analytical Method: EPA 8260C/5030C									
Pace Analytical Services - Melville									
1,1,1-Trichloroethane	<1.0	ug/L	1.0		1		08/01/22 16:29	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0		1		08/01/22 16:29	79-34-5	v3
1,1,2-Trichloroethane	<1.0	ug/L	1.0		1		08/01/22 16:29	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0		1		08/01/22 16:29	75-34-3	
1,1-Dichloroethene	2.9	ug/L	1.0		1		08/01/22 16:29	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0		1		08/01/22 16:29	107-06-2	
1,2-Dichloroethene (Total)	1630	ug/L	40.0		20		08/01/22 18:00	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0		1		08/01/22 16:29	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0		1		08/01/22 16:29	78-93-3	
2-Hexanone	<5.0	ug/L	5.0		1		08/01/22 16:29	591-78-6	v3
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0		1		08/01/22 16:29	108-10-1	
Acetone	<5.0	ug/L	5.0		1		08/01/22 16:29	67-64-1	
Benzene	<0.70	ug/L	0.70		1		08/01/22 16:29	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0		1		08/01/22 16:29	75-27-4	
Bromoform	<1.0	ug/L	1.0		1		08/01/22 16:29	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0		1		08/01/22 16:29	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0		1		08/01/22 16:29	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0		1		08/01/22 16:29	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0		1		08/01/22 16:29	108-90-7	
Chloroethane	<1.0	ug/L	1.0		1		08/01/22 16:29	75-00-3	
Chloroform	<1.0	ug/L	1.0		1		08/01/22 16:29	67-66-3	
Chloromethane	<1.0	ug/L	1.0		1		08/01/22 16:29	74-87-3	L1
Dibromochloromethane	<1.0	ug/L	1.0		1		08/01/22 16:29	124-48-1	v3
Ethylbenzene	<1.0	ug/L	1.0		1		08/01/22 16:29	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0		1		08/01/22 16:29	75-09-2	
Styrene	<1.0	ug/L	1.0		1		08/01/22 16:29	100-42-5	
Tetrachloroethene	1070	ug/L	20.0		20		08/01/22 18:00	127-18-4	
Toluene	<1.0	ug/L	1.0		1		08/01/22 16:29	108-88-3	
Trichloroethene	358	ug/L	20.0		20		08/01/22 18:00	79-01-6	
Vinyl chloride	63.3	ug/L	1.0		1		08/01/22 16:29	75-01-4	L1
Xylene (Total)	<3.0	ug/L	3.0		1		08/01/22 16:29	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0		1		08/01/22 16:29	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0		1		08/01/22 16:29	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	81-122		1		08/01/22 16:29	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118		1		08/01/22 16:29	460-00-4	
Toluene-d8 (S)	91	%	82-122		1		08/01/22 16:29	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

Sample: <b>MAG</b> Lab ID: <b>70223806007</b> Collected: 07/29/22 10:20 Received: 07/29/22 10:55 Matrix: Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Pace Analytical Services - Melville									
Iron	<b>3200</b>	ug/L	100		1	08/02/22 08:30	08/03/22 12:41	7439-89-6	
<b>8260C Volatile Organics</b>									
Analytical Method: EPA 8260C/5030C									
Pace Analytical Services - Melville									
1,1,1-Trichloroethane	<1.0	ug/L	1.0		1		08/01/22 16:08	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0		1		08/01/22 16:08	79-34-5	v3
1,1,2-Trichloroethane	<1.0	ug/L	1.0		1		08/01/22 16:08	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0		1		08/01/22 16:08	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0		1		08/01/22 16:08	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0		1		08/01/22 16:08	107-06-2	
1,2-Dichloroethene (Total)	<b>338</b>	ug/L	40.0		20		08/01/22 17:39	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0		1		08/01/22 16:08	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0		1		08/01/22 16:08	78-93-3	
2-Hexanone	<5.0	ug/L	5.0		1		08/01/22 16:08	591-78-6	v3
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0		1		08/01/22 16:08	108-10-1	
Acetone	<5.0	ug/L	5.0		1		08/01/22 16:08	67-64-1	
Benzene	<0.70	ug/L	0.70		1		08/01/22 16:08	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0		1		08/01/22 16:08	75-27-4	
Bromoform	<1.0	ug/L	1.0		1		08/01/22 16:08	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0		1		08/01/22 16:08	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0		1		08/01/22 16:08	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0		1		08/01/22 16:08	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0		1		08/01/22 16:08	108-90-7	
Chloroethane	<1.0	ug/L	1.0		1		08/01/22 16:08	75-00-3	
Chloroform	<1.0	ug/L	1.0		1		08/01/22 16:08	67-66-3	
Chloromethane	<b>2.0</b>	ug/L	1.0		1		08/01/22 16:08	74-87-3	L1
Dibromochloromethane	<1.0	ug/L	1.0		1		08/01/22 16:08	124-48-1	v3
Ethylbenzene	<1.0	ug/L	1.0		1		08/01/22 16:08	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0		1		08/01/22 16:08	75-09-2	
Styrene	<1.0	ug/L	1.0		1		08/01/22 16:08	100-42-5	
Tetrachloroethene	<b>1090</b>	ug/L	20.0		20		08/01/22 17:39	127-18-4	
Toluene	<1.0	ug/L	1.0		1		08/01/22 16:08	108-88-3	
Trichloroethene	<b>93.2</b>	ug/L	1.0		1		08/01/22 16:08	79-01-6	
Vinyl chloride	<b>6.5</b>	ug/L	1.0		1		08/01/22 16:08	75-01-4	L1
Xylene (Total)	<3.0	ug/L	3.0		1		08/01/22 16:08	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0		1		08/01/22 16:08	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0		1		08/01/22 16:08	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	81-122		1		08/01/22 16:08	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118		1		08/01/22 16:08	460-00-4	
Toluene-d8 (S)	92	%	82-122		1		08/01/22 16:08	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

**Sample: UG**      **Lab ID: 70223806008**      Collected: 07/29/22 10:30      Received: 07/29/22 10:55      Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>									
Analytical Method: EPA 200.7      Preparation Method: EPA 200.7									
Pace Analytical Services - Melville									
Iron	14500	ug/L	100		1	08/02/22 08:30	08/03/22 13:03	7439-89-6	
<b>8260C Volatile Organics</b>									
Analytical Method: EPA 8260C/5030C									
Pace Analytical Services - Melville									
1,1,1-Trichloroethane	<1.0	ug/L	1.0		1		08/01/22 15:48	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0		1		08/01/22 15:48	79-34-5	v3
1,1,2-Trichloroethane	<1.0	ug/L	1.0		1		08/01/22 15:48	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0		1		08/01/22 15:48	75-34-3	
1,1-Dichloroethene	5.1	ug/L	1.0		1		08/01/22 15:48	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0		1		08/01/22 15:48	107-06-2	
1,2-Dichloroethene (Total)	3420	ug/L	100		50		08/01/22 17:18	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0		1		08/01/22 15:48	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0		1		08/01/22 15:48	78-93-3	
2-Hexanone	<5.0	ug/L	5.0		1		08/01/22 15:48	591-78-6	v3
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0		1		08/01/22 15:48	108-10-1	
Acetone	<5.0	ug/L	5.0		1		08/01/22 15:48	67-64-1	
Benzene	<0.70	ug/L	0.70		1		08/01/22 15:48	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0		1		08/01/22 15:48	75-27-4	
Bromoform	<1.0	ug/L	1.0		1		08/01/22 15:48	75-25-2	v3
Bromomethane	<1.0	ug/L	1.0		1		08/01/22 15:48	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0		1		08/01/22 15:48	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0		1		08/01/22 15:48	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0		1		08/01/22 15:48	108-90-7	
Chloroethane	<1.0	ug/L	1.0		1		08/01/22 15:48	75-00-3	
Chloroform	1.4	ug/L	1.0		1		08/01/22 15:48	67-66-3	
Chloromethane	<1.0	ug/L	1.0		1		08/01/22 15:48	74-87-3	L1
Dibromochloromethane	<1.0	ug/L	1.0		1		08/01/22 15:48	124-48-1	v3
Ethylbenzene	<1.0	ug/L	1.0		1		08/01/22 15:48	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0		1		08/01/22 15:48	75-09-2	
Styrene	<1.0	ug/L	1.0		1		08/01/22 15:48	100-42-5	
Tetrachloroethene	1320	ug/L	50.0		50		08/01/22 17:18	127-18-4	
Toluene	<1.0	ug/L	1.0		1		08/01/22 15:48	108-88-3	
Trichloroethene	745	ug/L	50.0		50		08/01/22 17:18	79-01-6	
Vinyl chloride	141	ug/L	1.0		1		08/01/22 15:48	75-01-4	L1
Xylene (Total)	<3.0	ug/L	3.0		1		08/01/22 15:48	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0		1		08/01/22 15:48	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0		1		08/01/22 15:48	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	81-122		1		08/01/22 15:48	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118		1		08/01/22 15:48	460-00-4	
Toluene-d8 (S)	93	%	82-122		1		08/01/22 15:48	2037-26-5	

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### QUALITY CONTROL DATA

Project: MIMILT/MIN1001 7/29  
Pace Project No.: 70223806

QC Batch: 267416      Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7      Analysis Description: 200.7 Metals, Total  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70223806005, 70223806006, 70223806007, 70223806008

METHOD BLANK: 1350937      Matrix: Water  
Associated Lab Samples: 70223806005, 70223806006, 70223806007, 70223806008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	08/03/22 11:24	

LABORATORY CONTROL SAMPLE: 1350938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12200	98	85-115	

MATRIX SPIKE SAMPLE: 1350940

Parameter	Units	70223380001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<0.10 mg/L	5000	5020	100	70-130	

MATRIX SPIKE SAMPLE: 1350942

Parameter	Units	70223806007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	3200	5000	8120	98	70-130	

SAMPLE DUPLICATE: 1350939

Parameter	Units	70223380001 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron	ug/L	<0.10 mg/L	<100		20	

SAMPLE DUPLICATE: 1350941

Parameter	Units	70223806007 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron	ug/L	3200	3080	4	20	

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### QUALITY CONTROL DATA

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

QC Batch: 267335

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70223806005, 70223806006, 70223806007, 70223806008

METHOD BLANK: 1350523

Matrix: Water

Associated Lab Samples: 70223806005, 70223806006, 70223806007, 70223806008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	08/01/22 13:59	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	08/01/22 13:59	v3
1,1,2-Trichloroethane	ug/L	<1.0	1.0	08/01/22 13:59	
1,1-Dichloroethane	ug/L	<1.0	1.0	08/01/22 13:59	
1,1-Dichloroethene	ug/L	<1.0	1.0	08/01/22 13:59	
1,2-Dichloroethane	ug/L	<1.0	1.0	08/01/22 13:59	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	08/01/22 13:59	
1,2-Dichloropropane	ug/L	<1.0	1.0	08/01/22 13:59	
2-Butanone (MEK)	ug/L	<5.0	5.0	08/01/22 13:59	
2-Hexanone	ug/L	<5.0	5.0	08/01/22 13:59	v3
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	08/01/22 13:59	
Acetone	ug/L	<5.0	5.0	08/01/22 13:59	
Benzene	ug/L	<0.70	0.70	08/01/22 13:59	
Bromodichloromethane	ug/L	<1.0	1.0	08/01/22 13:59	
Bromoform	ug/L	<1.0	1.0	08/01/22 13:59	v3
Bromomethane	ug/L	<1.0	1.0	08/01/22 13:59	
Carbon disulfide	ug/L	<1.0	1.0	08/01/22 13:59	
Carbon tetrachloride	ug/L	<1.0	1.0	08/01/22 13:59	v3
Chlorobenzene	ug/L	<1.0	1.0	08/01/22 13:59	
Chloroethane	ug/L	<1.0	1.0	08/01/22 13:59	
Chloroform	ug/L	<1.0	1.0	08/01/22 13:59	
Chloromethane	ug/L	<1.0	1.0	08/01/22 13:59	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	08/01/22 13:59	
Dibromochloromethane	ug/L	<1.0	1.0	08/01/22 13:59	v3
Ethylbenzene	ug/L	<1.0	1.0	08/01/22 13:59	
Methylene Chloride	ug/L	<1.0	1.0	08/01/22 13:59	
Styrene	ug/L	<1.0	1.0	08/01/22 13:59	
Tetrachloroethene	ug/L	<1.0	1.0	08/01/22 13:59	
Toluene	ug/L	<1.0	1.0	08/01/22 13:59	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	08/01/22 13:59	
Trichloroethene	ug/L	<1.0	1.0	08/01/22 13:59	
Vinyl chloride	ug/L	<1.0	1.0	08/01/22 13:59	
Xylene (Total)	ug/L	<3.0	3.0	08/01/22 13:59	
1,2-Dichloroethane-d4 (S)	%	96	81-122	08/01/22 13:59	
4-Bromofluorobenzene (S)	%	98	79-118	08/01/22 13:59	
Toluene-d8 (S)	%	93	82-122	08/01/22 13:59	

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### QUALITY CONTROL DATA

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

LABORATORY CONTROL SAMPLE: 1350524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.2	92	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	40.9	82	70-127	v3
1,1,2-Trichloroethane	ug/L	50	49.7	99	81-119	
1,1-Dichloroethane	ug/L	50	59.5	119	72-126	
1,1-Dichloroethene	ug/L	50	65.5	131	66-133	
1,2-Dichloroethane	ug/L	50	59.6	119	69-134	
1,2-Dichloroethene (Total)	ug/L	100	124	124	69-123	
1,2-Dichloropropane	ug/L	50	50.5	101	75-125	
2-Butanone (MEK)	ug/L	50	50.4	101	33-165	
2-Hexanone	ug/L	50	36.8	74	50-128	v3
4-Methyl-2-pentanone (MIBK)	ug/L	50	46.0	92	62-131	
Acetone	ug/L	50	46.1	92	14-156	IH
Benzene	ug/L	50	54.3	109	78-117	
Bromodichloromethane	ug/L	50	43.4	87	80-123	
Bromoform	ug/L	50	27.6	55	49-138	v3
Bromomethane	ug/L	50	67.7	135	10-143	
Carbon disulfide	ug/L	50	59.3	119	66-133	
Carbon tetrachloride	ug/L	50	35.7	71	64-135	v3
Chlorobenzene	ug/L	50	46.3	93	79-117	
Chloroethane	ug/L	50	69.0	138	31-156	
Chloroform	ug/L	50	59.9	120	79-123	
Chloromethane	ug/L	50	73.2	146	39-116	L1
cis-1,3-Dichloropropene	ug/L	50	46.0	92	78-131	
Dibromochloromethane	ug/L	50	32.4	65	65-123	v3
Ethylbenzene	ug/L	50	45.6	91	79-115	
Methylene Chloride	ug/L	50	58.6	117	67-123	
Styrene	ug/L	50	46.8	94	82-121	
Tetrachloroethene	ug/L	50	46.4	93	65-120	
Toluene	ug/L	50	53.6	107	80-114	
trans-1,3-Dichloropropene	ug/L	50	45.0	90	73-135	
Trichloroethene	ug/L	50	52.5	105	79-115	
Vinyl chloride	ug/L	50	73.7	147	49-118	L1
Xylene (Total)	ug/L	150	141	94	80-118	
1,2-Dichloroethane-d4 (S)	%			91	81-122	
4-Bromofluorobenzene (S)	%			100	79-118	
Toluene-d8 (S)	%			93	82-122	

SAMPLE DUPLICATE: 1351126

Parameter	Units	70223423002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		20	v3
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		20	
1,1-Dichloroethane	ug/L	<1.0	<1.0		20	
1,1-Dichloroethene	ug/L	<1.0	<1.0		20	

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### QUALITY CONTROL DATA

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

SAMPLE DUPLICATE: 1351126

Parameter	Units	70223423002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	<1.0		20	
1,2-Dichloroethene (Total)	ug/L	<2.0	<2.0		20	
1,2-Dichloropropane	ug/L	<1.0	<1.0		20	
2-Butanone (MEK)	ug/L	<5.0	<5.0		20	
2-Hexanone	ug/L	<5.0	<5.0		20	v3
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		20	
Acetone	ug/L	<5.0	<5.0		20	
Benzene	ug/L	<0.70	<0.70		20	
Bromodichloromethane	ug/L	<1.0	<1.0		20	
Bromoform	ug/L	<1.0	<1.0		20	v3
Bromomethane	ug/L	<1.0	<1.0		20	
Carbon disulfide	ug/L	<1.0	<1.0		20	
Carbon tetrachloride	ug/L	<1.0	<1.0		20	v3
Chlorobenzene	ug/L	<1.0	<1.0		20	
Chloroethane	ug/L	<1.0	<1.0		20	
Chloroform	ug/L	<1.0	<1.0		20	
Chloromethane	ug/L	<1.0	<1.0		20	
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		20	
Dibromochloromethane	ug/L	<1.0	<1.0		20	v3
Ethylbenzene	ug/L	<1.0	<1.0		20	
Methylene Chloride	ug/L	<1.0	<1.0		20	
Styrene	ug/L	<1.0	<1.0		20	
Tetrachloroethene	ug/L	<1.0	<1.0		20	
Toluene	ug/L	<1.0	<1.0		20	
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		20	
Trichloroethene	ug/L	<1.0	<1.0		20	
Vinyl chloride	ug/L	<1.0	<1.0		20	
Xylene (Total)	ug/L	<3.0	<3.0		20	
1,2-Dichloroethane-d4 (S)	%	96	97		20	
4-Bromofluorobenzene (S)	%	99	97		20	
Toluene-d8 (S)	%	92	90		20	

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### QUALITY CONTROL DATA

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

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QC Batch:	267127	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70223806001, 70223806002, 70223806003, 70223806004

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SAMPLE DUPLICATE: 1349489

Parameter	Units	70223552001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	8.2	8.2	0	5	H3,H6,N3
Temperature, Water (C)	deg C	9.3	9.3	0	5	H3,H6

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## QUALIFIERS

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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.

IH This analyte exceeded secondary source verification criteria high 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.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MIMILT/MIN1001 7/29

Pace Project No.: 70223806

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70223806005	SYS-EFF	EPA 200.7	267416	EPA 200.7	267507
70223806006	SYS-INF	EPA 200.7	267416	EPA 200.7	267507
70223806007	MAG	EPA 200.7	267416	EPA 200.7	267507
70223806008	UG	EPA 200.7	267416	EPA 200.7	267507
70223806005	SYS-EFF	EPA 8260C/5030C	267335		
70223806006	SYS-INF	EPA 8260C/5030C	267335		
70223806007	MAG	EPA 8260C/5030C	267335		
70223806008	UG	EPA 8260C/5030C	267335		
70223806001	SYS-EFF	SM22 4500-H+B	267127		
70223806002	SYS-INF	SM22 4500-H+B	267127		
70223806003	MAG	SM22 4500-H+B	267127		
70223806004	VG	SM22 4500-H+B	267127		

### REPORT OF LABORATORY ANALYSIS

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WO#: 70223806  
 70223806

**CHAIN-OF-CUSTODY Analytical Request Document**

Submitting a sample via the chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: PW Grosser Consulting  
 Address: 630 Johnson Ave, Bohanka, NY  
 Report To: Kaitlyn Crosby  
 Copy To: Kaitlyn Crosby

Billing Information:  
 Email To: K.Crosby@pwgrosser.com  
 Site Collection Info/Address:  
 540 Smith St

State: County/City: Time Zone Collected:  
 NY Farmingdale EST  
 Compliance Monitoring?  
 Yes  No  
 DW PWS ID #: \_\_\_\_\_  
 DW Location Code: \_\_\_\_\_  
 Immediately Packed on Ice:  
 Yes  No  
 Field Filtered (if applicable):  
 Yes  No  
 Analysis: \_\_\_\_\_

Turnaround Date Required:  
 Standard  
 Rush: (Expedite Charges Apply)  
 Same Day  Next Day  3 Day  5 Day  
 Sample Disposal:  
 Return  Archive: \_\_\_\_\_  
 Hold: \_\_\_\_\_

\* 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 for		Res Cl	# of Ctns
			Composite Start	Time		
SYS-EFF	GW	Grab	7-29-22	1000	4	9/6
SYS-TNF	↓	↓	↓	1010	↓	↓
MAG	↓	↓	↓	1020	↓	↓
UG	↓	↓	↓	1030	↓	↓

\* 24hr TAT for SYS-EFF only \*  
 Relinquished by/Company: (Signature)  
 Date/Time: 7-29-22 1034  
 Received by/Company: (Signature)  
 Date/Time: 7-29-22 1034

Container Preservative Type: 31V  
 \*\* 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

Lab Profile/Line:  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signatures 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: \_\_\_\_\_  
 pH Strips: \_\_\_\_\_  
 Sulfide Present Y N NA  
 Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY:  
 Lab Sample # / Comments:  
 \_\_\_\_\_

Lab Sample # / Comments	Short Holds Present (<72 hours)	Y	N	N/A
VOC	X			
TSP	X			
PH	X			

LAB Sample Temperature Info:  
 Temp Blank Received: Y  
 Therm ID#: THUS80  
 Cooler 1 Temp Upon Receipt: 41.0C  
 Cooler 1 Therm Corr. Factor: 1.1  
 Cooler 1 Corrected Temp: 42.1C  
 Comments:

SHORTHOLDS PRESENT (<72 hours): Y N N/A  
 Lab Tracking #: \_\_\_\_\_  
 Samples received via:  
 FEDEX UPS Client Courier Pace Courier  
 Date/Time: 7/29 1055  
 Table #: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Accnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

MT/L LAB USE ONLY  
 Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): YES / NO  
 Page: 1 of 1



September 01, 2022

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

RE: Project: MINMILT/MIN1001 - 8/22  
Pace Project No.: 70226717

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

Sample: SYS-EFF	Lab ID: 70226717001	Collected: 08/22/22 10:00	Received: 08/22/22 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	1470	ug/L	100	1	08/30/22 08:36	08/30/22 15:42	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/26/22 14:19	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/26/22 14:19	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/26/22 14:19	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/26/22 14:19	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		08/26/22 14:19	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/26/22 14:19	107-06-2	
1,2-Dichloroethene (Total)	4.9	ug/L	2.0	1		08/26/22 14:19	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/26/22 14:19	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		08/26/22 14:19	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		08/26/22 14:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		08/26/22 14:19	108-10-1	
Acetone	<5.0	ug/L	5.0	1		08/26/22 14:19	67-64-1	
Benzene	<0.70	ug/L	0.70	1		08/26/22 14:19	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		08/26/22 14:19	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		08/26/22 14:19	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		08/26/22 14:19	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		08/26/22 14:19	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/26/22 14:19	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		08/26/22 14:19	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		08/26/22 14:19	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		08/26/22 14:19	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		08/26/22 14:19	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		08/26/22 14:19	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		08/26/22 14:19	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		08/26/22 14:19	75-09-2	
Styrene	<1.0	ug/L	1.0	1		08/26/22 14:19	100-42-5	
Tetrachloroethene	1.4	ug/L	1.0	1		08/26/22 14:19	127-18-4	
Toluene	<1.0	ug/L	1.0	1		08/26/22 14:19	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		08/26/22 14:19	79-01-6	L2
Vinyl chloride	<1.0	ug/L	1.0	1		08/26/22 14:19	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		08/26/22 14:19	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/26/22 14:19	10061-01-5	L2
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/26/22 14:19	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		08/26/22 14:19	17060-07-0	
4-Bromofluorobenzene (S)	92	%	79-118	1		08/26/22 14:19	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		08/26/22 14:19	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	7.3	Std. Units	0.10	1		08/25/22 20:39		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

Sample: <b>SYS-EFF</b>		Lab ID: <b>70226717001</b>		Collected: 08/22/22 10:00	Received: 08/22/22 10:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>8.9</b>	deg C	0.10	1		08/25/22 20:39		H3,H6

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

Sample: SYS-INF	Lab ID: 70226717002	Collected: 08/22/22 10:10	Received: 08/22/22 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	3380	ug/L	100	1	08/30/22 08:36	08/30/22 15:56	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/26/22 12:08	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/26/22 12:08	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/26/22 12:08	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/26/22 12:08	75-34-3	
1,1-Dichloroethene	1.7	ug/L	1.0	1		08/26/22 12:08	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/26/22 12:08	107-06-2	
1,2-Dichloroethene (Total)	1040	ug/L	20.0	10		08/26/22 12:38	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/26/22 12:08	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		08/26/22 12:08	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		08/26/22 12:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		08/26/22 12:08	108-10-1	
Acetone	<5.0	ug/L	5.0	1		08/26/22 12:08	67-64-1	
Benzene	<0.70	ug/L	0.70	1		08/26/22 12:08	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		08/26/22 12:08	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		08/26/22 12:08	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		08/26/22 12:08	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		08/26/22 12:08	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/26/22 12:08	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		08/26/22 12:08	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		08/26/22 12:08	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		08/26/22 12:08	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		08/26/22 12:08	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		08/26/22 12:08	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		08/26/22 12:08	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		08/26/22 12:08	75-09-2	
Styrene	<1.0	ug/L	1.0	1		08/26/22 12:08	100-42-5	
Tetrachloroethene	1020	ug/L	10.0	10		08/26/22 12:38	127-18-4	
Toluene	<1.0	ug/L	1.0	1		08/26/22 12:08	108-88-3	
Trichloroethene	124	ug/L	1.0	1		08/26/22 12:08	79-01-6	L2
Vinyl chloride	18.1	ug/L	1.0	1		08/26/22 12:08	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		08/26/22 12:08	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/26/22 12:08	10061-01-5	L2
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/26/22 12:08	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	80	%	81-122	1		08/26/22 12:08	17060-07-0	S0
4-Bromofluorobenzene (S)	93	%	79-118	1		08/26/22 12:08	460-00-4	
Toluene-d8 (S)	92	%	82-122	1		08/26/22 12:08	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	6.4	Std. Units	0.10	1		08/25/22 20:41		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

Sample: <b>SYS-INF</b>	Lab ID: <b>70226717002</b>	Collected: 08/22/22 10:10	Received: 08/22/22 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
Temperature, Water (C)	<b>8.2</b>	deg C	0.10	1		08/25/22 20:41		H3,H6

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

Sample: MAG	Lab ID: 70226717003	Collected: 08/22/22 10:30	Received: 08/22/22 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	2710	ug/L	100	1	08/30/22 08:36	08/30/22 15:58	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/26/22 12:57	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/26/22 12:57	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/26/22 12:57	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/26/22 12:57	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		08/26/22 12:57	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/26/22 12:57	107-06-2	
1,2-Dichloroethene (Total)	145	ug/L	2.0	1		08/26/22 12:57	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/26/22 12:57	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		08/26/22 12:57	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		08/26/22 12:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		08/26/22 12:57	108-10-1	
Acetone	<5.0	ug/L	5.0	1		08/26/22 12:57	67-64-1	
Benzene	<0.70	ug/L	0.70	1		08/26/22 12:57	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		08/26/22 12:57	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		08/26/22 12:57	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		08/26/22 12:57	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		08/26/22 12:57	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/26/22 12:57	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		08/26/22 12:57	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		08/26/22 12:57	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		08/26/22 12:57	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		08/26/22 12:57	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		08/26/22 12:57	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		08/26/22 12:57	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		08/26/22 12:57	75-09-2	
Styrene	<1.0	ug/L	1.0	1		08/26/22 12:57	100-42-5	
Tetrachloroethene	1420	ug/L	10.0	10		08/26/22 13:23	127-18-4	
Toluene	<1.0	ug/L	1.0	1		08/26/22 12:57	108-88-3	
Trichloroethene	50.9	ug/L	1.0	1		08/26/22 12:57	79-01-6	L2
Vinyl chloride	2.9	ug/L	1.0	1		08/26/22 12:57	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		08/26/22 12:57	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/26/22 12:57	10061-01-5	L2
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/26/22 12:57	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		08/26/22 12:57	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-118	1		08/26/22 12:57	460-00-4	
Toluene-d8 (S)	93	%	82-122	1		08/26/22 12:57	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	6.3	Std. Units	0.10	1		08/25/22 20:49		H1,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MAG</b>								
<b>Lab ID: 70226717003</b>								
Collected: 08/22/22 10:30    Received: 08/22/22 10:45    Matrix: Water								
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
Temperature, Water (C)	<b>11.6</b>	deg C	0.10	1		08/25/22 20:49		H1,H6

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

Sample: UG	Lab ID: 70226717004	Collected: 08/22/22 10:20	Received: 08/22/22 10:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	7860	ug/L	100	1	08/30/22 08:36	08/30/22 16:01	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		08/26/22 13:41	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		08/26/22 13:41	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		08/26/22 13:41	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		08/26/22 13:41	75-34-3	
1,1-Dichloroethene	4.0	ug/L	1.0	1		08/26/22 13:41	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		08/26/22 13:41	107-06-2	
1,2-Dichloroethene (Total)	2180	ug/L	40.0	20		08/26/22 14:00	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		08/26/22 13:41	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		08/26/22 13:41	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		08/26/22 13:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		08/26/22 13:41	108-10-1	
Acetone	<5.0	ug/L	5.0	1		08/26/22 13:41	67-64-1	
Benzene	<0.70	ug/L	0.70	1		08/26/22 13:41	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		08/26/22 13:41	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		08/26/22 13:41	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		08/26/22 13:41	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		08/26/22 13:41	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		08/26/22 13:41	56-23-5	v3
Chlorobenzene	<1.0	ug/L	1.0	1		08/26/22 13:41	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		08/26/22 13:41	75-00-3	
Chloroform	1.0	ug/L	1.0	1		08/26/22 13:41	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		08/26/22 13:41	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		08/26/22 13:41	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		08/26/22 13:41	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		08/26/22 13:41	75-09-2	
Styrene	<1.0	ug/L	1.0	1		08/26/22 13:41	100-42-5	
Tetrachloroethene	938	ug/L	20.0	20		08/26/22 14:00	127-18-4	
Toluene	<1.0	ug/L	1.0	1		08/26/22 13:41	108-88-3	
Trichloroethene	264	ug/L	20.0	20		08/26/22 14:00	79-01-6	L2
Vinyl chloride	38.8	ug/L	1.0	1		08/26/22 13:41	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		08/26/22 13:41	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/26/22 13:41	10061-01-5	L2
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		08/26/22 13:41	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	81-122	1		08/26/22 13:41	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-118	1		08/26/22 13:41	460-00-4	
Toluene-d8 (S)	94	%	82-122	1		08/26/22 13:41	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	6.5	Std. Units	0.10	1		08/25/22 20:42		H3,H6, N3

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

<b>Sample: UG</b>		<b>Lab ID: 70226717004</b>		Collected: 08/22/22 10:20	Received: 08/22/22 10:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	<b>8.2</b>	deg C	0.10	1		08/25/22 20:42		H3,H6

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

QC Batch: 271428

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70226717001, 70226717002, 70226717003, 70226717004

METHOD BLANK: 1371093

Matrix: Water

Associated Lab Samples: 70226717001, 70226717002, 70226717003, 70226717004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	08/30/22 15:37	

LABORATORY CONTROL SAMPLE: 1371094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12200	97	85-115	

MATRIX SPIKE SAMPLE: 1371096

Parameter	Units	70226717001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1470	5000	6470	100	70-130	

MATRIX SPIKE SAMPLE: 1371098

Parameter	Units	70227160001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	270	5000	5360	102	70-130	

SAMPLE DUPLICATE: 1371095

Parameter	Units	70226717001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1470	1490	1	

SAMPLE DUPLICATE: 1371097

Parameter	Units	70227160001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	270	310	14	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 - 8/22  
Pace Project No.: 70226717

QC Batch: 271092      Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C      Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70226717001, 70226717002, 70226717003, 70226717004

METHOD BLANK: 1369617      Matrix: Water  
Associated Lab Samples: 70226717001, 70226717002, 70226717003, 70226717004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	08/26/22 10:04	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	08/26/22 10:04	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	08/26/22 10:04	
1,1-Dichloroethane	ug/L	<1.0	1.0	08/26/22 10:04	
1,1-Dichloroethene	ug/L	<1.0	1.0	08/26/22 10:04	
1,2-Dichloroethane	ug/L	<1.0	1.0	08/26/22 10:04	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	08/26/22 10:04	
1,2-Dichloropropane	ug/L	<1.0	1.0	08/26/22 10:04	
2-Butanone (MEK)	ug/L	<5.0	5.0	08/26/22 10:04	
2-Hexanone	ug/L	<5.0	5.0	08/26/22 10:04	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	08/26/22 10:04	
Acetone	ug/L	<5.0	5.0	08/26/22 10:04	
Benzene	ug/L	<0.70	0.70	08/26/22 10:04	
Bromodichloromethane	ug/L	<1.0	1.0	08/26/22 10:04	
Bromoform	ug/L	<1.0	1.0	08/26/22 10:04	
Bromomethane	ug/L	<1.0	1.0	08/26/22 10:04	
Carbon disulfide	ug/L	<1.0	1.0	08/26/22 10:04	
Carbon tetrachloride	ug/L	<1.0	1.0	08/26/22 10:04	v3
Chlorobenzene	ug/L	<1.0	1.0	08/26/22 10:04	
Chloroethane	ug/L	<1.0	1.0	08/26/22 10:04	
Chloroform	ug/L	<1.0	1.0	08/26/22 10:04	
Chloromethane	ug/L	<1.0	1.0	08/26/22 10:04	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	08/26/22 10:04	
Dibromochloromethane	ug/L	<1.0	1.0	08/26/22 10:04	
Ethylbenzene	ug/L	<1.0	1.0	08/26/22 10:04	
Methylene Chloride	ug/L	<1.0	1.0	08/26/22 10:04	
Styrene	ug/L	<1.0	1.0	08/26/22 10:04	
Tetrachloroethene	ug/L	<1.0	1.0	08/26/22 10:04	
Toluene	ug/L	<1.0	1.0	08/26/22 10:04	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	08/26/22 10:04	
Trichloroethene	ug/L	<1.0	1.0	08/26/22 10:04	
Vinyl chloride	ug/L	<1.0	1.0	08/26/22 10:04	
Xylene (Total)	ug/L	<3.0	3.0	08/26/22 10:04	
1,2-Dichloroethane-d4 (S)	%	94	81-122	08/26/22 10:04	
4-Bromofluorobenzene (S)	%	92	79-118	08/26/22 10:04	
Toluene-d8 (S)	%	95	82-122	08/26/22 10:04	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

LABORATORY CONTROL SAMPLE: 1369618

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	36.3	73	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	41.0	82	70-127	
1,1,2-Trichloroethane	ug/L	50	48.1	96	81-119	
1,1-Dichloroethane	ug/L	50	39.5	79	72-126	
1,1-Dichloroethene	ug/L	50	41.3	83	66-133	
1,2-Dichloroethane	ug/L	50	47.9	96	69-134	
1,2-Dichloroethene (Total)	ug/L	100	87.7	88	69-123	
1,2-Dichloropropane	ug/L	50	39.6	79	75-125	
2-Butanone (MEK)	ug/L	50	47.6	95	33-165	
2-Hexanone	ug/L	50	50.7	101	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	35.4	71	62-131	
Acetone	ug/L	50	65.9	132	14-156 v1	
Benzene	ug/L	50	41.2	82	78-117	
Bromodichloromethane	ug/L	50	40.0	80	80-123	
Bromoform	ug/L	50	37.3	75	49-138	
Bromomethane	ug/L	50	44.4	89	10-143	
Carbon disulfide	ug/L	50	37.0	74	66-133	
Carbon tetrachloride	ug/L	50	32.7	65	64-135 v3	
Chlorobenzene	ug/L	50	44.8	90	79-117	
Chloroethane	ug/L	50	57.6	115	31-156 v1	
Chloroform	ug/L	50	46.8	94	79-123	
Chloromethane	ug/L	50	45.2	90	39-116	
cis-1,3-Dichloropropene	ug/L	50	37.6	75	78-131 L2	
Dibromochloromethane	ug/L	50	37.3	75	65-123	
Ethylbenzene	ug/L	50	41.4	83	79-115	
Methylene Chloride	ug/L	50	44.0	88	67-123	
Styrene	ug/L	50	49.3	99	82-121	
Tetrachloroethene	ug/L	50	38.8	78	65-120	
Toluene	ug/L	50	41.1	82	80-114	
trans-1,3-Dichloropropene	ug/L	50	39.0	78	73-135	
Trichloroethene	ug/L	50	37.8	76	79-115 L2	
Vinyl chloride	ug/L	50	44.2	88	49-118	
Xylene (Total)	ug/L	150	136	90	80-118	
1,2-Dichloroethane-d4 (S)	%			92	81-122	
4-Bromofluorobenzene (S)	%			105	79-118	
Toluene-d8 (S)	%			94	82-122	

SAMPLE DUPLICATE: 1369768

Parameter	Units	70226717001 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		

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

SAMPLE DUPLICATE: 1369768

Parameter	Units	70226717001 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloroethene (Total)	ug/L	4.9	4.6	6	
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		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	<0.70	<0.70		
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		v3
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	1.4	1.2	17	
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)	%	94	94		
4-Bromofluorobenzene (S)	%	92	94		
Toluene-d8 (S)	%	95	94		

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

QC Batch: 271006

Analysis Method: SM22 4500-H+B

QC Batch Method: SM22 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70226717001, 70226717002, 70226717003, 70226717004

SAMPLE DUPLICATE: 1369245

Parameter	Units	70225363001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.3	6.3		0 H3,H6,N3
Temperature, Water (C)	deg C	9.2	9.4		2 H3,H6

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## QUALIFIERS

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- 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.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
- S0 Surrogate recovery outside laboratory control limits.
- v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
- v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT/MIN1001 - 8/22

Pace Project No.: 70226717

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70226717001	SYS-EFF	EPA 200.7	271428	EPA 200.7	271501
70226717002	SYS-INF	EPA 200.7	271428	EPA 200.7	271501
70226717003	MAG	EPA 200.7	271428	EPA 200.7	271501
70226717004	UG	EPA 200.7	271428	EPA 200.7	271501
70226717001	SYS-EFF	EPA 8260C/5030C	271092		
70226717002	SYS-INF	EPA 8260C/5030C	271092		
70226717003	MAG	EPA 8260C/5030C	271092		
70226717004	UG	EPA 8260C/5030C	271092		
70226717001	SYS-EFF	SM22 4500-H+B	271006		
70226717002	SYS-INF	SM22 4500-H+B	271006		
70226717003	MAG	SM22 4500-H+B	271006		
70226717004	UG	SM22 4500-H+B	271006		

### REPORT OF LABORATORY ANALYSIS

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### CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: PW Prosser Consulting

Address: 630 Johnson Ave, Boring, NY

Report To: Kaitlyn Crosby

Copy To: \_\_\_\_\_

Same as Client

Email To: Kcrosby@pwprosser.com

Site Collection Info/Address: 540 Smith Street

Customer Project Name/Number: M101H / M101

Phone: 631-589-6353

Email: Kcrosby@pwprosser.com

Collected By (print): Kaitlyn Crosby

Collected By (signature): [Signature]

Turnaround Date Required: Standard

Rush: (Expedite Charges Apply)

[ ] Same Day [ ] Next Day

[ ] 1 Day [ ] 3 Day

[ ] 4 Day [ ] 5 Day

[ ] Hold: \_\_\_\_\_

Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WI), Air (AR), Tissue (TS), Blossay (B), Vapor (V), Other (OT)

Container Type: Plastic (P) or Glass (G)

Matrix #

Comp / Grab

Collected (or Composite Start) Date

Time

Composite End Date

Time

Res CI

# of Ctns

Wet Blue Dry None

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

Y N NA

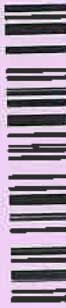
Y N NA

Y N NA

Y N NA

Order Number or

WO#: 70226717



70226717

JSE ONLY

Lab Project Manager: GFO

Container Preservative Type \*\*

3 1 U

\*\* 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 Signatures 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: Headspace Y N NA  
Sample pH Acceptable Y N NA  
pH Strips: Headspace Y N NA  
Sulfide Present Y N NA  
Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY:  
Lab Sample # / Comments:

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Lab Sample # / Comments:

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: \_\_\_\_\_

Samples received via: \_\_\_\_\_

FEDEX UPS Client Courier Pace Courier

Date/Time: 8/22/1045

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Type of Ice Used: Wet Blue Dry None

Packing Material Used: W/N

Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature) [Signature]

Date/Time: 8-22-22 1045

Received by/Company: (Signature) [Signature]

Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_

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Received by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Reinquished by/Company: (Signature) [Signature]

Date/Time: 8-22-22 1045

Reinquished by/Company: (Signature) [Signature]

Date/Time: \_\_\_\_\_

Reinquished by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Reinquished by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

Reinquished by/Company: (Signature) \_\_\_\_\_

Date/Time: \_\_\_\_\_

October 03, 2022

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

RE: Project: MINMILT/MIN1001 9/20  
Pace Project No.: 70230211

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230211

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230211

Sample: SYS-EFF	Lab ID: 70230211001	Collected: 09/20/22 06:20	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Melville								
Iron	923	ug/L	100	1	09/30/22 09:15	10/01/22 11:50	7439-89-6	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/28/22 20:59	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/28/22 20:59	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/28/22 20:59	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/28/22 20:59	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/28/22 20:59	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/28/22 20:59	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/28/22 20:59	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/28/22 20:59	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/28/22 20:59	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/28/22 20:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/28/22 20:59	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/28/22 20:59	67-64-1	v3
Benzene	<0.70	ug/L	0.70	1		09/28/22 20:59	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/28/22 20:59	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/28/22 20:59	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/28/22 20:59	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		09/28/22 20:59	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/28/22 20:59	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/28/22 20:59	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/28/22 20:59	75-00-3	v3
Chloroform	<1.0	ug/L	1.0	1		09/28/22 20:59	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/28/22 20:59	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/28/22 20:59	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/28/22 20:59	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/28/22 20:59	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/28/22 20:59	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/28/22 20:59	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/28/22 20:59	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/28/22 20:59	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/28/22 20:59	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		09/28/22 20:59	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/28/22 20:59	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/28/22 20:59	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		09/28/22 20:59	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		09/28/22 20:59	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		09/28/22 20:59	2037-26-5	
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
pH	7.6	Std. Units	0.10	1		09/21/22 19:13		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230211

Sample: <b>SYS-EFF</b>	Lab ID: <b>70230211001</b>	Collected: 09/20/22 06:20	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
Temperature, Water (C)	<b>18.7</b>	deg C	0.10	1		09/21/22 19:13		H3,H6

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230211

Sample: <b>SYS-INF</b>	Lab ID: <b>70230211002</b>	Collected: 09/20/22 06:25	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 Metals, Total</b>		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	<b>3310</b>	ug/L	100	1	09/30/22 09:15	10/01/22 11:52	7439-89-6	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 00:10	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 00:10	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 00:10	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 00:10	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 00:10	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 00:10	107-06-2	
1,2-Dichloroethene (Total)	<b>552</b>	ug/L	100	50		09/29/22 21:13	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 00:10	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 00:10	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 00:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 00:10	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 00:10	67-64-1	v3
Benzene	<0.70	ug/L	0.70	1		09/29/22 00:10	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 00:10	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 00:10	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 00:10	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 00:10	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 00:10	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 00:10	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 00:10	75-00-3	v3
Chloroform	<1.0	ug/L	1.0	1		09/29/22 00:10	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 00:10	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 00:10	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 00:10	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 00:10	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 00:10	100-42-5	
Tetrachloroethene	<b>919</b>	ug/L	50.0	50		09/29/22 21:13	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 00:10	108-88-3	
Trichloroethene	<b>90.3</b>	ug/L	1.0	1		09/29/22 00:10	79-01-6	
Vinyl chloride	<b>10.6</b>	ug/L	1.0	1		09/29/22 00:10	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 00:10	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 00:10	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 00:10	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		09/29/22 00:10	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-118	1		09/29/22 00:10	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		09/29/22 00:10	2037-26-5	
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	<b>6.2</b>	Std. Units	0.10	1		09/21/22 19:15		H3,H6, N3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230211

Sample: <b>SYS-INF</b>	Lab ID: <b>70230211002</b>	Collected: 09/20/22 06:25	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500H+ pH, Electrometric</b>								
Analytical Method: SM22 4500-H+B								
Pace Analytical Services - Melville								
Temperature, Water (C)	<b>18.4</b>	deg C	0.10	1		09/21/22 19:15		H3,H6

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20  
Pace Project No.: 70230211

QC Batch: 275799      Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7      Analysis Description: 200.7 Metals, Total  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70230211001, 70230211002

METHOD BLANK: 1393432      Matrix: Water

Associated Lab Samples: 70230211001, 70230211002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	10/01/22 10:33	

LABORATORY CONTROL SAMPLE: 1393433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12600	101	85-115	

MATRIX SPIKE SAMPLE: 1393435

Parameter	Units	70229484004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	ND	1000	667	60	70-130	M1

MATRIX SPIKE SAMPLE: 1393437

Parameter	Units	70230204001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	0.21 mg/L	1000	829	62	70-130	M1

SAMPLE DUPLICATE: 1393434

Parameter	Units	70229484004 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	ND	<100		

SAMPLE DUPLICATE: 1393436

Parameter	Units	70230204001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	0.21 mg/L	200	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

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20  
Pace Project No.: 70230211

QC Batch: 275579 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70230211001, 70230211002

METHOD BLANK: 1392614 Matrix: Water  
Associated Lab Samples: 70230211001, 70230211002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/28/22 16:52	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	09/28/22 16:52	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/28/22 16:52	
2-Butanone (MEK)	ug/L	<5.0	5.0	09/28/22 16:52	IL
2-Hexanone	ug/L	<5.0	5.0	09/28/22 16:52	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	09/28/22 16:52	
Acetone	ug/L	<5.0	5.0	09/28/22 16:52	v3
Benzene	ug/L	<0.70	0.70	09/28/22 16:52	
Bromodichloromethane	ug/L	<1.0	1.0	09/28/22 16:52	
Bromoform	ug/L	<1.0	1.0	09/28/22 16:52	
Bromomethane	ug/L	<1.0	1.0	09/28/22 16:52	v3
Carbon disulfide	ug/L	<1.0	1.0	09/28/22 16:52	
Carbon tetrachloride	ug/L	<1.0	1.0	09/28/22 16:52	
Chlorobenzene	ug/L	<1.0	1.0	09/28/22 16:52	
Chloroethane	ug/L	<1.0	1.0	09/28/22 16:52	v3
Chloroform	ug/L	<1.0	1.0	09/28/22 16:52	
Chloromethane	ug/L	<1.0	1.0	09/28/22 16:52	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	09/28/22 16:52	
Dibromochloromethane	ug/L	<1.0	1.0	09/28/22 16:52	
Ethylbenzene	ug/L	<1.0	1.0	09/28/22 16:52	
Methylene Chloride	ug/L	<1.0	1.0	09/28/22 16:52	
Styrene	ug/L	<1.0	1.0	09/28/22 16:52	
Tetrachloroethene	ug/L	<1.0	1.0	09/28/22 16:52	
Toluene	ug/L	<1.0	1.0	09/28/22 16:52	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	09/28/22 16:52	
Trichloroethene	ug/L	<1.0	1.0	09/28/22 16:52	
Vinyl chloride	ug/L	<1.0	1.0	09/28/22 16:52	v3
Xylene (Total)	ug/L	<3.0	3.0	09/28/22 16:52	
1,2-Dichloroethane-d4 (S)	%	94	81-122	09/28/22 16:52	
4-Bromofluorobenzene (S)	%	103	79-118	09/28/22 16:52	
Toluene-d8 (S)	%	104	82-122	09/28/22 16:52	

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

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230211

LABORATORY CONTROL SAMPLE: 1392615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.1	94	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	46.3	93	70-127	
1,1,2-Trichloroethane	ug/L	50	53.1	106	81-119	
1,1-Dichloroethane	ug/L	50	44.8	90	72-126	
1,1-Dichloroethene	ug/L	50	44.0	88	66-133	
1,2-Dichloroethane	ug/L	50	44.3	89	69-134	
1,2-Dichloroethene (Total)	ug/L	100	102	102	69-123	
1,2-Dichloropropane	ug/L	50	47.5	95	75-125	
2-Butanone (MEK)	ug/L	50	38.8	78	33-165 IL	
2-Hexanone	ug/L	50	40.4	81	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.9	96	62-131	
Acetone	ug/L	50	33.1	66	14-156 v3	
Benzene	ug/L	50	48.8	98	78-117	
Bromodichloromethane	ug/L	50	50.9	102	80-123	
Bromoform	ug/L	50	54.3	109	49-138	
Bromomethane	ug/L	50	38.2	76	10-143 v3	
Carbon disulfide	ug/L	50	40.0	80	66-133	
Carbon tetrachloride	ug/L	50	47.6	95	64-135	
Chlorobenzene	ug/L	50	53.8	108	79-117	
Chloroethane	ug/L	50	38.3	77	31-156 v3	
Chloroform	ug/L	50	46.9	94	79-123	
Chloromethane	ug/L	50	28.2	56	39-116 v3	
cis-1,3-Dichloropropene	ug/L	50	51.2	102	78-131	
Dibromochloromethane	ug/L	50	53.8	108	65-123	
Ethylbenzene	ug/L	50	54.5	109	79-115	
Methylene Chloride	ug/L	50	44.9	90	67-123	
Styrene	ug/L	50	58.2	116	82-121	
Tetrachloroethene	ug/L	50	49.5	99	65-120	
Toluene	ug/L	50	52.8	106	80-114	
trans-1,3-Dichloropropene	ug/L	50	50.1	100	73-135	
Trichloroethene	ug/L	50	49.5	99	79-115	
Vinyl chloride	ug/L	50	35.9	72	49-118 v3	
Xylene (Total)	ug/L	150	168	112	80-118	
1,2-Dichloroethane-d4 (S)	%			86	81-122	
4-Bromofluorobenzene (S)	%			105	79-118	
Toluene-d8 (S)	%			103	82-122	

MATRIX SPIKE SAMPLE: 1392882

Parameter	Units	70231283001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	53.3	107	72-123	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	48.3	97	64-133	
1,1,2-Trichloroethane	ug/L	<1.0	50	54.1	108	78-120	
1,1-Dichloroethane	ug/L	<1.0	50	37.1	74	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	46.2	92	61-139	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230211

MATRIX SPIKE SAMPLE:		1392882					
Parameter	Units	70231283001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	43.3	87	58-138	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	96.0	96	59-133	
1,2-Dichloropropane	ug/L	<1.0	50	50.8	102	74-122	
2-Butanone (MEK)	ug/L	8.9	50	45.1	72	33-148	IL
2-Hexanone	ug/L	10.6	50	53.6	86	49-124	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	48.6	97	60-136	
Acetone	ug/L	152	50	161	19	35-112	M1,v3
Benzene	ug/L	15.9	50	69.5	107	70-130	
Bromodichloromethane	ug/L	<1.0	50	50.1	100	74-122	
Bromoform	ug/L	<1.0	50	52.5	105	39-139	
Bromomethane	ug/L	<1.0	50	37.3	75	10-130	v3
Carbon disulfide	ug/L	<1.0	50	41.7	83	60-129	
Carbon tetrachloride	ug/L	<1.0	50	52.7	105	56-143	
Chlorobenzene	ug/L	<1.0	50	58.1	116	74-122	
Chloroethane	ug/L	<1.0	50	40.9	82	35-146	v3
Chloroform	ug/L	<1.0	50	50.2	100	71-129	
Chloromethane	ug/L	<1.0	50	30.3	61	29-112	v3
cis-1,3-Dichloropropene	ug/L	<1.0	50	52.4	105	67-130	
Dibromochloromethane	ug/L	<1.0	50	54.1	108	55-126	
Ethylbenzene	ug/L	<1.0	50	59.0	118	70-126	
Methylene Chloride	ug/L	<1.0	50	39.6	79	69-117	
Styrene	ug/L	<1.0	50	62.3	125	79-123	M1
Tetrachloroethene	ug/L	<1.0	50	56.6	113	64-124	E
Toluene	ug/L	5.4	50	61.5	112	76-123	
trans-1,3-Dichloropropene	ug/L	<1.0	50	49.2	98	61-130	
Trichloroethene	ug/L	<1.0	50	56.0	112	73-125	
Vinyl chloride	ug/L	<1.0	50	37.2	74	33-127	v3
Xylene (Total)	ug/L	<3.0	150	181	121	78-123	
1,2-Dichloroethane-d4 (S)	%					86	81-122
4-Bromofluorobenzene (S)	%					100	79-118
Toluene-d8 (S)	%					100	82-122

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230211

QC Batch:	274571	Analysis Method:	SM22 4500-H+B
QC Batch Method:	SM22 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70230211001, 70230211002

SAMPLE DUPLICATE: 1386820

Parameter	Units	70230211001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.6	7.6		0 H3,H6,N3
Temperature, Water (C)	deg C	18.7	18.8		1 H3,H6

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230211

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- |    |                                                                                                                                                             |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E  | Analyte concentration exceeded the calibration range. The reported result is estimated.                                                                     |
| 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. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.                                                 |
| N3 | Accreditation is not offered by the relevant laboratory accrediting body for this parameter.                                                                |
| v3 | The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias. |

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230211

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70230211001	SYS-EFF	EPA 200.7	275799	EPA 200.7	275893
70230211002	SYS-INF	EPA 200.7	275799	EPA 200.7	275893
70230211001	SYS-EFF	EPA 8260C/5030C	275579		
70230211002	SYS-INF	EPA 8260C/5030C	275579		
70230211001	SYS-EFF	SM22 4500-H+B	274571		
70230211002	SYS-INF	SM22 4500-H+B	274571		

### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://mb.pacelabs.com/hubs/pas-standard-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: PW Grosser Consulting

Address: 630 Johnson Ave, Bohemia, NY

Report To: Caitlyn Crosby

Email To: Kcrosby@pugrosser.com

Copy To:

Site Collection Info/Address: 540 Smith Street

State: County/City: Time Zone Collected: NY Farmingdale LPT L JMT L ICT XET

Customer Project Name/Number: Minilit / MEN1001

Phone: 631-589-6353 Site/Facility ID #: Purchase Order #: Quote #:

Collected By (print): Caitlyn Crosby Turnaround Date Required: Standard

Collected By (signature): Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold: 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)

Container Type: Plastic (P) or Glass (G)

Customer Sample ID Matrix \* Comp / Grab

SYS-EFF GW Grab

SYS-INF ↓

Collected (or Composite Start) Date Time

9-20-22 0610

9-20-22 0625

Res # of Ctns

4

4

Wet Blue Dry None

Type of Ice Used: Packing Material Used: Radchem sample(s) screened (<500 cpm):

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

LAB USE ONLY WO#: 70230211



ALL BY 70230211

Container P. 3 1 V

\*\* 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

Table with Lab Profile/Line, Lab Sample Receipt Checklist, and Lab USE ONLY fields.

LAB USE ONLY

Lab Sample # / Comments:

Main analysis data table with columns for sample ID, matrix, and analysis results.

LAB Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: AM18 Cooler 1 Temp Upon Receipt: 2-5°C Cooler 1 Therm Corr. Factor: 1.0°C Cooler 1 Corrected Temp: 5-10°C

SHORT HOLDS PRESENT (<72 hours): Y N N/A Lab Tracking #: Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: 9-20-22-1605 Date/Time: 9-20-22-1605 Date/Time: 9-20-22-1605

MTL/LAB USE ONLY Table #: Actnum: Template: Prelogin: PM: PB:

Trip Blank Received: Y N NA HCL MeOH TSP Other Non Conformance(s): YES / NO Page: 1 of 1



October 04, 2022

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

RE: Project: MINMILT/MIN1001 9/20  
Pace Project No.: 70230213

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-1	Lab ID: 70230213001	Collected: 09/20/22 10:20	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/28/22 23:51	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/28/22 23:51	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/28/22 23:51	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/28/22 23:51	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/28/22 23:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/28/22 23:51	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/28/22 23:51	67-64-1	v3
Benzene	<0.70	ug/L	0.70	1		09/28/22 23:51	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/28/22 23:51	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/28/22 23:51	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/28/22 23:51	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		09/28/22 23:51	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/28/22 23:51	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/28/22 23:51	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	75-00-3	v3
Chloroform	<1.0	ug/L	1.0	1		09/28/22 23:51	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/28/22 23:51	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/28/22 23:51	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/28/22 23:51	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/28/22 23:51	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/28/22 23:51	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/28/22 23:51	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/28/22 23:51	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/28/22 23:51	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/28/22 23:51	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		09/28/22 23:51	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/28/22 23:51	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/28/22 23:51	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		09/28/22 23:51	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-118	1		09/28/22 23:51	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		09/28/22 23:51	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-2	Lab ID: 70230213002	Collected: 09/20/22 09:40	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:10	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 22:10	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 22:10	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 22:10	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 22:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 22:10	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 22:10	67-64-1	v1
Benzene	<0.70	ug/L	0.70	1		09/29/22 22:10	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 22:10	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 22:10	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 22:10	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 22:10	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 22:10	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 22:10	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/29/22 22:10	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 22:10	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 22:10	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 22:10	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 22:10	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 22:10	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/29/22 22:10	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 22:10	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:10	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 22:10	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 22:10	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:10	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:10	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	91	%	81-122	1		09/29/22 22:10	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		09/29/22 22:10	460-00-4	
Toluene-d8 (S)	104	%	82-122	1		09/29/22 22:10	2037-26-5	

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-3	Lab ID: 70230213003	Collected: 09/20/22 11:00	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:29	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 22:29	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 22:29	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 22:29	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 22:29	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 22:29	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 22:29	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/29/22 22:29	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 22:29	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 22:29	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 22:29	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 22:29	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 22:29	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 22:29	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/29/22 22:29	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 22:29	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 22:29	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 22:29	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 22:29	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 22:29	100-42-5	
Tetrachloroethene	2.0	ug/L	1.0	1		09/29/22 22:29	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 22:29	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:29	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 22:29	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 22:29	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:29	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:29	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		09/29/22 22:29	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		09/29/22 22:29	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		09/29/22 22:29	2037-26-5	

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-4	Lab ID: 70230213004	Collected: 09/20/22 07:25	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:49	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 22:49	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 22:49	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 22:49	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 22:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 22:49	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 22:49	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/29/22 22:49	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 22:49	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 22:49	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 22:49	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 22:49	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 22:49	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 22:49	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/29/22 22:49	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 22:49	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 22:49	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 22:49	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 22:49	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 22:49	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/29/22 22:49	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 22:49	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:49	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 22:49	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 22:49	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:49	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:49	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		09/29/22 22:49	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		09/29/22 22:49	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		09/29/22 22:49	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-5	Lab ID: 70230213005	Collected: 09/20/22 10:00	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:08	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 23:08	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 23:08	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 23:08	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 23:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 23:08	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 23:08	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/29/22 23:08	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 23:08	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 23:08	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 23:08	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 23:08	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 23:08	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 23:08	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/29/22 23:08	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 23:08	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 23:08	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 23:08	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 23:08	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 23:08	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/29/22 23:08	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 23:08	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:08	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 23:08	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 23:08	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:08	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:08	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		09/29/22 23:08	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		09/29/22 23:08	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		09/29/22 23:08	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-6	Lab ID: 70230213006	Collected: 09/20/22 11:40	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:27	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 23:27	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 23:27	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 23:27	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 23:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 23:27	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 23:27	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/29/22 23:27	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 23:27	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 23:27	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 23:27	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 23:27	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 23:27	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 23:27	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	75-00-3	
Chloroform	1.4	ug/L	1.0	1		09/29/22 23:27	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 23:27	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 23:27	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 23:27	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 23:27	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 23:27	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/29/22 23:27	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 23:27	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:27	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 23:27	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 23:27	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:27	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:27	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		09/29/22 23:27	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		09/29/22 23:27	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		09/29/22 23:27	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-8	Lab ID: 70230213007	Collected: 09/20/22 07:00	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:46	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 23:46	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 23:46	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 23:46	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 23:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 23:46	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 23:46	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/29/22 23:46	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 23:46	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 23:46	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 23:46	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 23:46	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 23:46	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 23:46	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/29/22 23:46	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 23:46	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 23:46	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 23:46	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 23:46	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 23:46	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/29/22 23:46	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 23:46	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:46	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 23:46	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 23:46	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:46	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:46	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		09/29/22 23:46	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		09/29/22 23:46	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		09/29/22 23:46	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-9	Lab ID: 70230213008	Collected: 09/20/22 09:00	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:05	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 00:05	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 00:05	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 00:05	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 00:05	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 00:05	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 00:05	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 00:05	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 00:05	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 00:05	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 00:05	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 00:05	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 00:05	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 00:05	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 00:05	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 00:05	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 00:05	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 00:05	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 00:05	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 00:05	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/30/22 00:05	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 00:05	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:05	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 00:05	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 00:05	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:05	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:05	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	81-122	1		09/30/22 00:05	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		09/30/22 00:05	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		09/30/22 00:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: GW-1	Lab ID: 70230213009	Collected: 09/20/22 12:35	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:24	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 00:24	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 00:24	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 00:24	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 00:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 00:24	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 00:24	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 00:24	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 00:24	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 00:24	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 00:24	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 00:24	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 00:24	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 00:24	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 00:24	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 00:24	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 00:24	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 00:24	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 00:24	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 00:24	100-42-5	
Tetrachloroethene	1.4	ug/L	1.0	1		09/30/22 00:24	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 00:24	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:24	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 00:24	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 00:24	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:24	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:24	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	91	%	81-122	1		09/30/22 00:24	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		09/30/22 00:24	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		09/30/22 00:24	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: GW-2	Lab ID: 70230213010	Collected: 09/20/22 13:45	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:44	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 00:44	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 00:44	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 00:44	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 00:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 00:44	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 00:44	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 00:44	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 00:44	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 00:44	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 00:44	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 00:44	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 00:44	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 00:44	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 00:44	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 00:44	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 00:44	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 00:44	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 00:44	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 00:44	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/30/22 00:44	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 00:44	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:44	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 00:44	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 00:44	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:44	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:44	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		09/30/22 00:44	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		09/30/22 00:44	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		09/30/22 00:44	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: GW-3	Lab ID: 70230213011	Collected: 09/20/22 13:30	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:03	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 01:03	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 01:03	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 01:03	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 01:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 01:03	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 01:03	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 01:03	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 01:03	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 01:03	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 01:03	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 01:03	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 01:03	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 01:03	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 01:03	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 01:03	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 01:03	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 01:03	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 01:03	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 01:03	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/30/22 01:03	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 01:03	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:03	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 01:03	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 01:03	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:03	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:03	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		09/30/22 01:03	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		09/30/22 01:03	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		09/30/22 01:03	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: SP-3	Lab ID: 70230213012	Collected: 09/20/22 12:55	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:22	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 01:22	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 01:22	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 01:22	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 01:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 01:22	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 01:22	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 01:22	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 01:22	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 01:22	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 01:22	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 01:22	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 01:22	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 01:22	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 01:22	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 01:22	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 01:22	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 01:22	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 01:22	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 01:22	100-42-5	
Tetrachloroethene	1.5	ug/L	1.0	1		09/30/22 01:22	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 01:22	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:22	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 01:22	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 01:22	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:22	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:22	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		09/30/22 01:22	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		09/30/22 01:22	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		09/30/22 01:22	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: SP-4	Lab ID: 70230213013	Collected: 09/20/22 13:15	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:41	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 01:41	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 01:41	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 01:41	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 01:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 01:41	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 01:41	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 01:41	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 01:41	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 01:41	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 01:41	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 01:41	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 01:41	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 01:41	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 01:41	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 01:41	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 01:41	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 01:41	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 01:41	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 01:41	100-42-5	
Tetrachloroethene	2.2	ug/L	1.0	1		09/30/22 01:41	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 01:41	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:41	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 01:41	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 01:41	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:41	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:41	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		09/30/22 01:41	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-118	1		09/30/22 01:41	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		09/30/22 01:41	2037-26-5	

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: SP-6	Lab ID: 70230213014	Collected: 09/20/22 14:00	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:00	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 02:00	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 02:00	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 02:00	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 02:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 02:00	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 02:00	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 02:00	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 02:00	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 02:00	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 02:00	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 02:00	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 02:00	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 02:00	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 02:00	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 02:00	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 02:00	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 02:00	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 02:00	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 02:00	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/30/22 02:00	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 02:00	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:00	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 02:00	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 02:00	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:00	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:00	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	92	%	81-122	1		09/30/22 02:00	17060-07-0	
4-Bromofluorobenzene (S)	108	%	79-118	1		09/30/22 02:00	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		09/30/22 02:00	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: SCDHS	Lab ID: 70230213015	Collected: 09/20/22 14:35	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:19	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 02:19	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 02:19	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 02:19	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 02:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 02:19	108-10-1	
Acetone	17.4	ug/L	5.0	1		09/30/22 02:19	67-64-1	v1
Benzene	<0.70	ug/L	0.70	1		09/30/22 02:19	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 02:19	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 02:19	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 02:19	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 02:19	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 02:19	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 02:19	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 02:19	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 02:19	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 02:19	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 02:19	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 02:19	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 02:19	100-42-5	
Tetrachloroethene	1.0	ug/L	1.0	1		09/30/22 02:19	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 02:19	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:19	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 02:19	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 02:19	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:19	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:19	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	81-122	1		09/30/22 02:19	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		09/30/22 02:19	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		09/30/22 02:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: ML-1A	Lab ID: 70230213016	Collected: 09/20/22 14:15	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:38	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	107-06-2	
1,2-Dichloroethene (Total)	4.1	ug/L	2.0	1		09/30/22 02:38	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 02:38	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 02:38	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 02:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 02:38	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 02:38	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 02:38	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 02:38	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 02:38	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 02:38	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 02:38	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 02:38	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 02:38	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 02:38	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 02:38	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 02:38	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 02:38	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 02:38	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 02:38	100-42-5	
Tetrachloroethene	2.7	ug/L	1.0	1		09/30/22 02:38	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 02:38	108-88-3	
Trichloroethene	8.3	ug/L	1.0	1		09/30/22 02:38	79-01-6	
Vinyl chloride	4.3	ug/L	1.0	1		09/30/22 02:38	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 02:38	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:38	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:38	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		09/30/22 02:38	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		09/30/22 02:38	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		09/30/22 02:38	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: ML-1B	Lab ID: 70230213017	Collected: 09/20/22 14:20	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:58	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	107-06-2	
1,2-Dichloroethene (Total)	126	ug/L	2.0	1		09/30/22 02:58	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 02:58	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 02:58	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 02:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 02:58	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 02:58	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 02:58	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 02:58	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 02:58	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 02:58	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 02:58	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 02:58	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 02:58	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 02:58	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 02:58	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 02:58	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 02:58	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 02:58	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 02:58	100-42-5	
Tetrachloroethene	1.1	ug/L	1.0	1		09/30/22 02:58	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 02:58	108-88-3	
Trichloroethene	14.5	ug/L	1.0	1		09/30/22 02:58	79-01-6	
Vinyl chloride	5.0	ug/L	1.0	1		09/30/22 02:58	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 02:58	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:58	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:58	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		09/30/22 02:58	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		09/30/22 02:58	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		09/30/22 02:58	2037-26-5	

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: ML-1C	Lab ID: 70230213018	Collected: 09/20/22 14:25	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 03:17	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 03:17	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 03:17	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 03:17	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 03:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 03:17	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 03:17	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 03:17	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 03:17	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 03:17	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 03:17	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 03:17	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 03:17	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 03:17	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 03:17	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 03:17	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 03:17	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 03:17	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 03:17	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 03:17	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/30/22 03:17	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 03:17	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 03:17	79-01-6	
Vinyl chloride	2.5	ug/L	1.0	1		09/30/22 03:17	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 03:17	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 03:17	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 03:17	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		09/30/22 03:17	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		09/30/22 03:17	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		09/30/22 03:17	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20  
Pace Project No.: 70230213

QC Batch: 275579 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70230213001

METHOD BLANK: 1392614 Matrix: Water  
Associated Lab Samples: 70230213001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/28/22 16:52	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	09/28/22 16:52	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/28/22 16:52	
2-Butanone (MEK)	ug/L	<5.0	5.0	09/28/22 16:52	IL
2-Hexanone	ug/L	<5.0	5.0	09/28/22 16:52	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	09/28/22 16:52	
Acetone	ug/L	<5.0	5.0	09/28/22 16:52	v3
Benzene	ug/L	<0.70	0.70	09/28/22 16:52	
Bromodichloromethane	ug/L	<1.0	1.0	09/28/22 16:52	
Bromoform	ug/L	<1.0	1.0	09/28/22 16:52	
Bromomethane	ug/L	<1.0	1.0	09/28/22 16:52	v3
Carbon disulfide	ug/L	<1.0	1.0	09/28/22 16:52	
Carbon tetrachloride	ug/L	<1.0	1.0	09/28/22 16:52	
Chlorobenzene	ug/L	<1.0	1.0	09/28/22 16:52	
Chloroethane	ug/L	<1.0	1.0	09/28/22 16:52	v3
Chloroform	ug/L	<1.0	1.0	09/28/22 16:52	
Chloromethane	ug/L	<1.0	1.0	09/28/22 16:52	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	09/28/22 16:52	
Dibromochloromethane	ug/L	<1.0	1.0	09/28/22 16:52	
Ethylbenzene	ug/L	<1.0	1.0	09/28/22 16:52	
Methylene Chloride	ug/L	<1.0	1.0	09/28/22 16:52	
Styrene	ug/L	<1.0	1.0	09/28/22 16:52	
Tetrachloroethene	ug/L	<1.0	1.0	09/28/22 16:52	
Toluene	ug/L	<1.0	1.0	09/28/22 16:52	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	09/28/22 16:52	
Trichloroethene	ug/L	<1.0	1.0	09/28/22 16:52	
Vinyl chloride	ug/L	<1.0	1.0	09/28/22 16:52	v3
Xylene (Total)	ug/L	<3.0	3.0	09/28/22 16:52	
1,2-Dichloroethane-d4 (S)	%	94	81-122	09/28/22 16:52	
4-Bromofluorobenzene (S)	%	103	79-118	09/28/22 16:52	
Toluene-d8 (S)	%	104	82-122	09/28/22 16:52	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

LABORATORY CONTROL SAMPLE: 1392615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.1	94	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	46.3	93	70-127	
1,1,2-Trichloroethane	ug/L	50	53.1	106	81-119	
1,1-Dichloroethane	ug/L	50	44.8	90	72-126	
1,1-Dichloroethene	ug/L	50	44.0	88	66-133	
1,2-Dichloroethane	ug/L	50	44.3	89	69-134	
1,2-Dichloroethene (Total)	ug/L	100	102	102	69-123	
1,2-Dichloropropane	ug/L	50	47.5	95	75-125	
2-Butanone (MEK)	ug/L	50	38.8	78	33-165 IL	
2-Hexanone	ug/L	50	40.4	81	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.9	96	62-131	
Acetone	ug/L	50	33.1	66	14-156 v3	
Benzene	ug/L	50	48.8	98	78-117	
Bromodichloromethane	ug/L	50	50.9	102	80-123	
Bromoform	ug/L	50	54.3	109	49-138	
Bromomethane	ug/L	50	38.2	76	10-143 v3	
Carbon disulfide	ug/L	50	40.0	80	66-133	
Carbon tetrachloride	ug/L	50	47.6	95	64-135	
Chlorobenzene	ug/L	50	53.8	108	79-117	
Chloroethane	ug/L	50	38.3	77	31-156 v3	
Chloroform	ug/L	50	46.9	94	79-123	
Chloromethane	ug/L	50	28.2	56	39-116 v3	
cis-1,3-Dichloropropene	ug/L	50	51.2	102	78-131	
Dibromochloromethane	ug/L	50	53.8	108	65-123	
Ethylbenzene	ug/L	50	54.5	109	79-115	
Methylene Chloride	ug/L	50	44.9	90	67-123	
Styrene	ug/L	50	58.2	116	82-121	
Tetrachloroethene	ug/L	50	49.5	99	65-120	
Toluene	ug/L	50	52.8	106	80-114	
trans-1,3-Dichloropropene	ug/L	50	50.1	100	73-135	
Trichloroethene	ug/L	50	49.5	99	79-115	
Vinyl chloride	ug/L	50	35.9	72	49-118 v3	
Xylene (Total)	ug/L	150	168	112	80-118	
1,2-Dichloroethane-d4 (S)	%			86	81-122	
4-Bromofluorobenzene (S)	%			105	79-118	
Toluene-d8 (S)	%			103	82-122	

MATRIX SPIKE SAMPLE: 1392882

Parameter	Units	70231283001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	53.3	107	72-123	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	48.3	97	64-133	
1,1,2-Trichloroethane	ug/L	<1.0	50	54.1	108	78-120	
1,1-Dichloroethane	ug/L	<1.0	50	37.1	74	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	46.2	92	61-139	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

MATRIX SPIKE SAMPLE: 1392882		70231283001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	43.3	87	58-138	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	96.0	96	59-133	
1,2-Dichloropropane	ug/L	<1.0	50	50.8	102	74-122	
2-Butanone (MEK)	ug/L	8.9	50	45.1	72	33-148	IL
2-Hexanone	ug/L	10.6	50	53.6	86	49-124	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	48.6	97	60-136	
Acetone	ug/L	152	50	161	19	35-112	M1,v3
Benzene	ug/L	15.9	50	69.5	107	70-130	
Bromodichloromethane	ug/L	<1.0	50	50.1	100	74-122	
Bromoform	ug/L	<1.0	50	52.5	105	39-139	
Bromomethane	ug/L	<1.0	50	37.3	75	10-130	v3
Carbon disulfide	ug/L	<1.0	50	41.7	83	60-129	
Carbon tetrachloride	ug/L	<1.0	50	52.7	105	56-143	
Chlorobenzene	ug/L	<1.0	50	58.1	116	74-122	
Chloroethane	ug/L	<1.0	50	40.9	82	35-146	v3
Chloroform	ug/L	<1.0	50	50.2	100	71-129	
Chloromethane	ug/L	<1.0	50	30.3	61	29-112	v3
cis-1,3-Dichloropropene	ug/L	<1.0	50	52.4	105	67-130	
Dibromochloromethane	ug/L	<1.0	50	54.1	108	55-126	
Ethylbenzene	ug/L	<1.0	50	59.0	118	70-126	
Methylene Chloride	ug/L	<1.0	50	39.6	79	69-117	
Styrene	ug/L	<1.0	50	62.3	125	79-123	M1
Tetrachloroethene	ug/L	<1.0	50	56.6	113	64-124	E
Toluene	ug/L	5.4	50	61.5	112	76-123	
trans-1,3-Dichloropropene	ug/L	<1.0	50	49.2	98	61-130	
Trichloroethene	ug/L	<1.0	50	56.0	112	73-125	
Vinyl chloride	ug/L	<1.0	50	37.2	74	33-127	v3
Xylene (Total)	ug/L	<3.0	150	181	121	78-123	
1,2-Dichloroethane-d4 (S)	%				86	81-122	
4-Bromofluorobenzene (S)	%				100	79-118	
Toluene-d8 (S)	%				100	82-122	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

QC Batch: 275778 Analysis Method: EPA 8260C/5030C

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

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70230213002, 70230213003, 70230213004, 70230213005, 70230213006, 70230213007, 70230213008, 70230213009, 70230213010, 70230213011, 70230213012, 70230213013, 70230213014, 70230213015, 70230213016, 70230213017, 70230213018

METHOD BLANK: 1393345 Matrix: Water

Associated Lab Samples: 70230213002, 70230213003, 70230213004, 70230213005, 70230213006, 70230213007, 70230213008, 70230213009, 70230213010, 70230213011, 70230213012, 70230213013, 70230213014, 70230213015, 70230213016, 70230213017, 70230213018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/29/22 20:54	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	09/29/22 20:54	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/29/22 20:54	
2-Butanone (MEK)	ug/L	<5.0	5.0	09/29/22 20:54	IL
2-Hexanone	ug/L	<5.0	5.0	09/29/22 20:54	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	09/29/22 20:54	
Acetone	ug/L	<5.0	5.0	09/29/22 20:54	
Benzene	ug/L	<0.70	0.70	09/29/22 20:54	
Bromodichloromethane	ug/L	<1.0	1.0	09/29/22 20:54	
Bromoform	ug/L	<1.0	1.0	09/29/22 20:54	
Bromomethane	ug/L	<1.0	1.0	09/29/22 20:54	
Carbon disulfide	ug/L	<1.0	1.0	09/29/22 20:54	
Carbon tetrachloride	ug/L	<1.0	1.0	09/29/22 20:54	
Chlorobenzene	ug/L	<1.0	1.0	09/29/22 20:54	
Chloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
Chloroform	ug/L	<1.0	1.0	09/29/22 20:54	
Chloromethane	ug/L	<1.0	1.0	09/29/22 20:54	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	09/29/22 20:54	
Dibromochloromethane	ug/L	<1.0	1.0	09/29/22 20:54	
Ethylbenzene	ug/L	<1.0	1.0	09/29/22 20:54	
Methylene Chloride	ug/L	<1.0	1.0	09/29/22 20:54	
Styrene	ug/L	<1.0	1.0	09/29/22 20:54	
Tetrachloroethene	ug/L	<1.0	1.0	09/29/22 20:54	
Toluene	ug/L	<1.0	1.0	09/29/22 20:54	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	09/29/22 20:54	
Trichloroethene	ug/L	<1.0	1.0	09/29/22 20:54	
Vinyl chloride	ug/L	<1.0	1.0	09/29/22 20:54	
Xylene (Total)	ug/L	<3.0	3.0	09/29/22 20:54	
1,2-Dichloroethane-d4 (S)	%	99	81-122	09/29/22 20:54	
4-Bromofluorobenzene (S)	%	100	79-118	09/29/22 20:54	
Toluene-d8 (S)	%	102	82-122	09/29/22 20:54	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20  
Pace Project No.: 70230213

LABORATORY CONTROL SAMPLE: 1393346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.4	97	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	46.0	92	70-127	
1,1,2-Trichloroethane	ug/L	50	53.5	107	81-119	
1,1-Dichloroethane	ug/L	50	43.3	87	72-126	
1,1-Dichloroethene	ug/L	50	52.6	105	66-133	
1,2-Dichloroethane	ug/L	50	43.5	87	69-134	
1,2-Dichloroethene (Total)	ug/L	100	92.5	93	69-123	
1,2-Dichloropropane	ug/L	50	46.8	94	75-125	
2-Butanone (MEK)	ug/L	50	41.1	82	33-165 IL	
2-Hexanone	ug/L	50	41.8	84	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.9	98	62-131	
Acetone	ug/L	50	51.7	103	14-156 v1	
Benzene	ug/L	50	49.5	99	78-117	
Bromodichloromethane	ug/L	50	48.7	97	80-123	
Bromoform	ug/L	50	54.0	108	49-138	
Bromomethane	ug/L	50	41.0	82	10-143	
Carbon disulfide	ug/L	50	47.2	94	66-133	
Carbon tetrachloride	ug/L	50	48.2	96	64-135	
Chlorobenzene	ug/L	50	53.3	107	79-117	
Chloroethane	ug/L	50	42.3	85	31-156	
Chloroform	ug/L	50	45.8	92	79-123	
Chloromethane	ug/L	50	38.1	76	39-116 v3	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	78-131	
Dibromochloromethane	ug/L	50	52.3	105	65-123	
Ethylbenzene	ug/L	50	53.7	107	79-115	
Methylene Chloride	ug/L	50	44.7	89	67-123	
Styrene	ug/L	50	57.7	115	82-121	
Tetrachloroethene	ug/L	50	51.0	102	65-120 E	
Toluene	ug/L	50	53.0	106	80-114	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	73-135	
Trichloroethene	ug/L	50	51.1	102	79-115	
Vinyl chloride	ug/L	50	40.5	81	49-118	
Xylene (Total)	ug/L	150	167	112	80-118	
1,2-Dichloroethane-d4 (S)	%			87	81-122	
4-Bromofluorobenzene (S)	%			100	79-118	
Toluene-d8 (S)	%			101	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1393947 1393948

Parameter	Units	70230213002		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result					
1,1,1-Trichloroethane	ug/L	<1.0	50	50	53.7	53.1	107	106	72-123	1		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	49.0	48.9	98	98	64-133	0		
1,1,2-Trichloroethane	ug/L	<1.0	50	50	56.1	55.3	112	111	78-120	1		
1,1-Dichloroethane	ug/L	<1.0	50	50	49.5	48.3	99	97	70-124	2		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Parameter	70230213002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
1,1-Dichloroethene	ug/L	<1.0	50	50	55.4	54.5	111	109	61-139	2				
1,2-Dichloroethane	ug/L	<1.0	50	50	48.5	46.0	97	92	58-138	5				
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	107	101	107	101	59-133	6				
1,2-Dichloropropane	ug/L	<1.0	50	50	50.9	50.3	102	101	74-122	1				
2-Butanone (MEK)	ug/L	<5.0	50	50	39.3	39.2	79	78	33-148	0 IL				
2-Hexanone	ug/L	<5.0	50	50	43.4	44.1	87	88	49-124	2				
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	49.5	50.5	99	101	60-136	2				
Acetone	ug/L	<5.0	50	50	42.7	42.2	81	80	35-112	1 v1				
Benzene	ug/L	<0.70	50	50	55.3	54.0	111	108	70-130	2				
Bromodichloromethane	ug/L	<1.0	50	50	51.9	52.2	104	104	74-122	1				
Bromoform	ug/L	<1.0	50	50	54.9	56.4	110	113	39-139	3				
Bromomethane	ug/L	<1.0	50	50	42.2	42.8	84	86	10-130	1				
Carbon disulfide	ug/L	<1.0	50	50	56.1	50.1	112	100	60-129	11				
Carbon tetrachloride	ug/L	<1.0	50	50	52.7	53.1	105	106	56-143	1				
Chlorobenzene	ug/L	<1.0	50	50	58.3	55.8	117	112	74-122	4				
Chloroethane	ug/L	<1.0	50	50	51.8	51.9	104	104	35-146	0				
Chloroform	ug/L	<1.0	50	50	52.4	50.7	105	101	71-129	3				
Chloromethane	ug/L	<1.0	50	50	37.8	37.7	76	75	29-112	0 v3				
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	51.5	51.5	103	103	67-130	0				
Dibromochloromethane	ug/L	<1.0	50	50	55.5	55.3	111	111	55-126	0				
Ethylbenzene	ug/L	<1.0	50	50	58.3	56.0	117	112	70-126	4				
Methylene Chloride	ug/L	<1.0	50	50	47.4	47.3	95	95	69-117	0				
Styrene	ug/L	<1.0	50	50	61.3	59.2	123	118	79-123	3				
Tetrachloroethene	ug/L	<1.0	50	50	55.4	52.7	111	105	64-124	5 E				
Toluene	ug/L	<1.0	50	50	56.4	55.2	113	110	76-123	2				
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	50.0	49.1	100	98	61-130	2				
Trichloroethene	ug/L	<1.0	50	50	55.8	54.6	112	109	73-125	2				
Vinyl chloride	ug/L	<1.0	50	50	44.1	41.5	88	83	33-127	6				
Xylene (Total)	ug/L	<3.0	150	150	179	173	119	115	78-123	3				
1,2-Dichloroethane-d4 (S)	%						87	89	81-122					
4-Bromofluorobenzene (S)	%						105	104	79-118					
Toluene-d8 (S)	%						103	100	82-122					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported 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.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT/MIN1001 9/20  
Pace Project No.: 70230213

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70230213001	MW-1	EPA 8260C/5030C	275579		
70230213002	MW-2	EPA 8260C/5030C	275778		
70230213003	MW-3	EPA 8260C/5030C	275778		
70230213004	MW-4	EPA 8260C/5030C	275778		
70230213005	MW-5	EPA 8260C/5030C	275778		
70230213006	MW-6	EPA 8260C/5030C	275778		
70230213007	MW-8	EPA 8260C/5030C	275778		
70230213008	MW-9	EPA 8260C/5030C	275778		
70230213009	GW-1	EPA 8260C/5030C	275778		
70230213010	GW-2	EPA 8260C/5030C	275778		
70230213011	GW-3	EPA 8260C/5030C	275778		
70230213012	SP-3	EPA 8260C/5030C	275778		
70230213013	SP-4	EPA 8260C/5030C	275778		
70230213014	SP-6	EPA 8260C/5030C	275778		
70230213015	SCDHS	EPA 8260C/5030C	275778		
70230213016	ML-1A	EPA 8260C/5030C	275778		
70230213017	ML-1B	EPA 8260C/5030C	275778		
70230213018	ML-1C	EPA 8260C/5030C	275778		

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# CHAIN-OF-CUSTODY Analytical Request Document

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Order Number or  
**WO# : 70230213**

**LAB ONLY GFD**

70230213

Company: **PWOC**  
 Address: **630 Johnson Ave, Bohemia, NY**  
 Report To: **Kaitlyn Crosby**  
 Copy To: **Kaitlyn Crosby**

Billing Information:  
 Email To: **Same as Client**  
 Site Collection Info/Address:  
**540 Smith Street**

Customer: Project Name/Number:  
**Min/MLT / MFA100**  
 Phone: **631-584-6353**  
 Email: **Krosby@pwwcs.com**  
 Collected By (print): **Kaitlyn Crosby**  
 Collected By (signature): **[Signature]**  
 Turnaround Date Required:  
**Standard**  
 Rush: (Expedite Charges Apply)  
 Same Day  Next Day  
 2 Day  3 Day  
 4 Day  5 Day

Time Zone Collected:  
**NY / Farmingdale | JPT | JMT | JCT | AET**  
 Compliance Monitoring?  
 Yes  No  
 DW PWS ID #:  
 DW Location Code:  
 Immediately Packed on Ice:  
 Yes  No  
 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)		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time			
<b>mw-1</b>	<b>GW</b>	<b>Grab</b>	<b>9-20-22</b>	<b>1020</b>		<b>2</b>	<b>VOC</b>
<b>mw-2</b>				<b>0940</b>			
<b>mw-3</b>				<b>1100</b>			
<b>mw-4</b>				<b>0725</b>			
<b>mw-5</b>				<b>1000</b>			
<b>mw-6</b>				<b>1140</b>			
<b>mw-8</b>				<b>0700</b>			
<b>mw-9</b>				<b>0920</b>			
<b>GW-1</b>				<b>1235</b>			
<b>GW-2</b>				<b>1845</b>			

Lab Profile/Line:

Lab Sample Receipt Checklist:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Custody Seals Present/Intact	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Custody Signatures Present	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Collector Signature Present	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Bottles Intact	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Correct Bottles	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Sufficient Volume	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Samples Received on Ice	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
VOA - Headspace Acceptable	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
USDA Regulated Soils	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Samples in Holding Time	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Residual Chlorine Present	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Cl Strips:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Sample pH Acceptable	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
pH Strips:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Sulfide Present	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Lead Acetate Strips:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA

LAB USE ONLY:  
 Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: **Over** Blue Dry None  
 Packing Material Used:  
**PBC NICE**  
 Radchem sample(s) screened (<500 cpm): **Y N NA**  
 Received by/Company: (Signature)  
**[Signature]** **Pace**  
 Date/Time: **9-20-22-1505**  
 Received by/Company: (Signature)  
**[Signature]**  
 Date/Time:  
 Received by/Company: (Signature)  
**[Signature]**  
 Date/Time:

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**  
 Lab Tracking #:  
 Samples received via:  
 FEDEX  UPS  Courier  Pace Courier  
 Date/Time: **9/20/22 15:05**  
 Date/Time:  
 Date/Time:  
 Date/Time:  
 MT/LAB USE ONLY  
 Table #:  
 Account:  
 Template:  
 Prelogin:  
 PM:  
 PB:

LAB Sample Temperature Info:  
 Temp Blank Received:  Y  N  NA  
 Therm ID#: **51115**  
 Cooler 1 Temp Upon Receipt: **5.8**  
 Cooler 1 Therm Corr. Factor: **1.0**  
 Cooler 1 Corrected Temp: **5.4**  
 Comments:

Trip Blank Received:  Y  N  NA  
 HCL MeOH TSP Other

Non Conformance(s): Page: **1** of: **2**  
 YES / NO



# CHAIN-OF-CUSTODY Analytical Request Document

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **PWGC**  
 Address: **630 Johnson Ave, Boring, NY**  
 Report To: **Kaitlyn Crosby**  
 Copy To: **Kaitlyn Crosby**

Customer Project Name/Number: **MINMHT / MIN100**  
 Phone: **631-589-6353**  
 Email: **K.Crosby@pwgcr.com**  
 Site/Facility ID #: **Standard**  
 Purchase Order #: **Standard**  
 Quote #: **Standard**  
 Turnaround Date Required: **Standard**  
 Rush: (Expedite Charges Apply)  
 Same Day  Next Day  
 2 Day  3 Day  
 4 Day  5 Day  
 Collected By (print): **Kaitlyn Crosby**  
 Collected By (signature): *[Signature]*

State: **NY** / **Farmingdale** | JPT | JMT | JCT | JNET  
 Compliance Monitoring?  
 Yes  No  
 DW PWS ID #: \_\_\_\_\_  
 DW Location Code: \_\_\_\_\_  
 Immediately Packed on Ice:  
 Yes  No  
 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)		Composite End Time	Res Cl	# of Ctns
			Date	Time			
GW-3	GW	Grab	9-20-22	1330			2
SP-3				1255			
SP-4				1315			
SP-6				1400			
SC0HS				1435			
ML-1A				1415			
ML-1B				1420			
ML-1C				1425			

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: **Wet** Blue Dry None  
 Packing Material Used: **BBLNWCUR**  
 Radchem sample(s) screened (<\$500 cpm): Y N NA  
 Date/Time: **9-20-22 1505** Received by/Company: (Signature) *[Signature]*  
 Date/Time: **9-20-22 1505** Received by/Company: (Signature) *[Signature]*  
 Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_  
 Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_

# WO#: 70230213

PM: **GFD** Due Date: **10/04/22**

CLIENT: **PWG**

ALL BOLD C

Container Preservat.

3  
 \*\* 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	<input checked="" type="checkbox"/> NA
Custody Signatures Present	<input checked="" type="checkbox"/> NA
Collector Signatures Present	<input checked="" type="checkbox"/> NA
Bottles Intact	<input checked="" type="checkbox"/> NA
Correct Bottles	<input checked="" type="checkbox"/> NA
Sufficient Volume	<input checked="" type="checkbox"/> NA
Samples Received on Ice	<input checked="" type="checkbox"/> NA
VOA - Headspace Acceptable	<input checked="" type="checkbox"/> NA
USDA Regulated Soils	<input checked="" type="checkbox"/> NA
Samples in Holding Time	<input checked="" type="checkbox"/> NA
Residual Chlorine Present	<input checked="" type="checkbox"/> NA
Cl Strips:	<input checked="" type="checkbox"/> NA
Sample pH Acceptable	<input checked="" type="checkbox"/> NA
pH Strips:	<input checked="" type="checkbox"/> NA
Sulfide Present	<input checked="" type="checkbox"/> NA
Lead Acetate Strips:	<input checked="" type="checkbox"/> NA
LAB USE ONLY:	
Lab Sample # / Comments:	

SHORT HOLDS PRESENT (<72 hours): Y  N  N/A

Lab Tracking #: \_\_\_\_\_

Samples received via: FEDEX  UPS  Client  Courier  Pace Counter

Date/Time: **9/20/22 15:06** Table #: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_ Acctnum: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_ Template: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_ Prelogin: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_ PM: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_ PB: \_\_\_\_\_

LAB Sample Temperature Info:  
 Temp Blank Received:  NA  
 Therm ID#: **2144**  NA  
 Cooler 1 Temp Upon Receipt: **5.8**  
 Cooler 1 Therm Corr. Factor: **1.00**  
 Cooler 1 Corrected Temp: **5.8**  
 Comments:

Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): Page: **2** of: **2**  
 YES / NO

# APPENDIX C

**October 7th, 2020 - TVOC: 1,518 ppb**

PCE: 1,500 ppb (98.8%)

TCE: 18.3 ppb (1.2%)

1,2-DCE: Not Detected

A summary of the detected compounds in the **combined influent samples** and their percentage of the TVOC amounts for each of the post bioremediation program influent sampling events to date are below: (Samples from **October 2020 to April 2021** were collected after **two** hours of system operation, Samples collected in **June 2021** after are after **four** hours of system operation)

**November 12, 2020 - TVOC: 1,959 ppb**

PCE: 1,850 ppb (94.4%)

TCE: 97 ppb (5%)

1,2-DCE: 5.5 ppb (~0.3%)

**December 14, 2020 - TVOC: 1,962 ppb**

PCE: 1,370 ppb (69.8%)

TCE: 228 ppb (11.6%)

1,2-DCE: 364 ppb (18.6%)

**January 14, 2021 - TVOC: 2,018 ppb**

PCE: 1,240 ppb (61.4%)

TCE: 321 ppb (15.9%)

1,2-DCE: 457 ppb (22.6%)

**February 14, 2021 - No samples were collected**

**March 2, 2021 - TVOC: 2,265 ppb**

PCE: 1,360 ppb (60.0%)

TCE: 369 ppb (16.3%)

1,2-DCE: 536 ppb (23.7%)

**April 20, 2021 - TVOC: 2,917 ppb**

PCE: 1,320 ppb (45.3%)

TCE: 305 ppb (10.5%)

1,2-DCE: 1,290 ppb (44.2%)

**June 23, 2021 - TVOC: 3,585 ppb**

PCE: 1,730 ppb (48.3%)

TCE: 355 ppb (9.9%)

1,2-DCE: 1,500 ppb (41.8%)

**July 28, 2021 - TVOC: 3,058 ppb**

PCE: 1,370 ppb (44.8%)

TCE: 286 ppb (9.4%)

1,2-DCE: 1,400 ppb (45.8%)

**August 17, 2021 - TVOC: 3,381 ppb**

PCE: 1,660 ppb (49.1%)

TCE: 279 ppb (8.3%)

1,2-DCE: 1,440 ppb (42.6%)



**September 16, 2021 - TVOC: 3,413 ppb**

PCE: 1,450 ppb (42.5%)  
TCE: 269 ppb (7.9%)  
1,2-DCE: 1,690 ppb (49.5%)

**October 25, 2021 - TVOC: 3,012 ppb**

PCE: 1,100 ppb (36.5%)  
TCE: 214 ppb (7.1%)  
1,2-DCE: 1,690 ppb (56.1%)

**November 22, 2021 - TVOC: 2,906 ppb**

PCE: 1,110 ppb (38.2%)  
TCE: 190 ppb (6.5%)  
1,2-DCE: 1,590 ppb (54.7%)

**December 20, 2021 - TVOC: 3,027 ppb (456 Days since injections)**

PCE: 1,410 ppb (46.6%)  
TCE: 179 ppb (5.9%)  
1,2-DCE: 1,410 ppb (46.6%)

**January 18, 2022 - TVOC: 3,064 ppb (485 Days since injections)**

PCE: 1,030 ppb (33.6%)  
TCE: 183 ppb (6%)  
1,2-DCE: 1,800 ppb (58.7%)

**February 17, 2022 - TVOC: 3,200 ppb (515 Days since injections)**

PCE: 978 ppb (30.6%)  
TCE: 200 ppb (6.3%)  
1,2-DCE: 1,960 ppb (61.3%)

**March 21, 2022 - TVOC: 3,457 ppb (547 Days since injections)**

PCE: 1,010 ppb (29.2%)  
TCE: 213 ppb (6.2%)  
1,2-DCE: 2,140 ppb (61.9%)

**April 25, 2022 - TVOC: 3,997 ppb (581 Days since injections)**

PCE: 1,010 ppb (25.3%)  
TCE: 234 ppb (5.9%)  
1,2-DCE: 2,620 ppb (65.5%)

**May 17, 2022 - TVOC: 3,566 ppb (603 Days since injections)**

PCE: 596 ppb (16.7%)  
TCE: 213 ppb (6.0%)  
1,2-DCE: 2,630 ppb (73.8%)

**June 9, 2022 - TVOC: 3,850 ppb (626 Days since injections)**

PCE: 768 ppb (19.9%)  
TCE: 206 ppb (5.4%)  
1,2-DCE: 2,720 ppb (70.6%)

- ***GWE&T System Activated on July 26, 2022***

**July 29, 2022 - TVOC: 3,124 ppb (676 Days since injections/ 3 days since reactivation)**

PCE: 1,070 ppb (34.3%)

TCE: 358 ppb (11.5%)

1,2-DCE: 1,630 ppb (52.2%)

**August 22, 2022 - TVOC: 2,204 ppb (700 Days since injections/ 27 days since reactivation)**

PCE: 1,020 ppb (46.3%)

TCE: 124 ppb (5.6%)

1,2-DCE: 1,040 ppb (47.2%)

**September 20, 2022 - TVOC: 1,572 ppb (729 Days since injections/ 56 days since reactivation)**

PCE: 919 ppb (58.5%)

TCE: 90.3 ppb (5.7%)

1,2-DCE: 552 ppb (35.1%)

# APPENDIX D

January 17, 2022

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

RE: Project: MINMILT 12/23  
Pace Project No.: 70199916

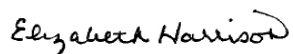
Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

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

Sincerely,



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

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



Company Name: PW Grosser Consulting  
 Address: 630 Johnson Ave, Bohemia, NY 11716  
 Phone: 631-589-6353  
 Project Name: M.I.A.M.I.T  
 Project Location: 540 Smith Street, Farmingdale, NY  
 Project Number: MZM1001  
 Project Manager: Kaitlyn Crosby  
 Con-Test Quote Name/Number:  
 Invoice Recipient:  
 Sampled By: Kaitlyn Crosby

Requested Turnaround Time  
 7-Day  10-Day   
 Due Date: Standard  
 Rush-Approval Required  
 1-Day  3-Day   
 2-Day  4-Day   
 Data Delivery  
 Format: PDF  EXCEL   
 Other:  
 CLP Like Data Pkg Required:   
 Email To:  
 Fax To #:

Lab Receipt Pressure  
 " Hg  
 Final Pressure  
 Initial Pressure  
 Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply  
 For summa canister and flow controller information please refer to Con-Test's Air Media Agreement  
 Summa Can ID: 1297 Flow Controller ID: 4128

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume
		Beginning Date/Time	Ending Date/Time				
Con-Test Work Order#	Client Sample ID / Description			Total Minutes Sampled	m <sup>3</sup> /min L/min	Code	Liters m <sup>3</sup>
	<u>SUE-INF</u>	<u>12-23-21</u>	<u>1030</u>	<u>2</u>		<u>SG</u>	<u>6</u>

WO#: 70199916

Comments:  
 Please use the following codes to indicate possible sample concentration within the Conc Code column above:  
 H - High; M - Medium; L - Low; C - Clean; U - Unknown  
 Matrix Codes:  
 SG = SOIL GAS  
 IA = INDOOR AIR  
 AMB = AMBIENT  
 SS = SUB SLAB  
 D = DUP  
 BL = BLANK  
 O = Other

Relinquished by: (signature) [Signature] Date/Time: 12-23-21 1057  
 Received by: (signature) [Signature] Date/Time: 12/23/21 1058  
 Relinquished by: (signature)  
 Received by: (signature)  
 Relinquished by: (signature)  
 Received by: (signature)

Detection Limit Requirements		Special Requirements	
MA	<input type="checkbox"/>	MA MCP Required	<input type="checkbox"/>
CT	<input type="checkbox"/>	MCP Certification Form Required	<input type="checkbox"/>
Other:	<input type="checkbox"/>	CT RCP Required	<input type="checkbox"/>
		RCP Certification Form Required	<input type="checkbox"/>
		Other:	<input type="checkbox"/>

Project Entity  
 Government  Municipality  MWPA  WRTA  
 Federal  21 J  School  Chromatogram  
 City  Brownfield  MBTA  AIHA-LAP, LLC  
 Non Soxhlet  
 Soxhlet

NECAC and AIHA-LAP, LLC Accredited  
 PCB ONLY



Sample Condition Upon Re

WO#: 70199916

Client Name:

PWG

Proj

PM: EMH

Due Date: 01/10/22

CLIENT: PWG

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Ace  Other

Tracking #:

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

Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other

Thermometer Used: TH091

Correction Factor: 0.00

Temperature Blank Present:  Yes  No

Type of Ice: Wet Blue None

Cooler Temperature(°C):

Cooler Temperature Corrected(°C):

Samples on ice, cooling process has begun

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: KW 12/23/21

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 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:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		7.
Sufficient Volume: (Triple volume provided for)	<input type="checkbox"/> Yes	<input type="checkbox"/> No		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		9.
-Pace Containers Used:	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		12.
-Includes date/time/ID, Matrix: SL WT OIL <u>PH</u>				
All containers needing preservation have been checked?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation?				
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH->9 Sulfide, NaOH->12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 [water].				Initial when completed:
Per Method, VOA pH is checked after analysis				Lot # of added preservative:
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Date/Time preservative added:
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

January 12, 2022

Elizabeth Harrison  
Pace Analytical Services - Long Island, NY  
575 Broad Hollow Road  
Melville, NY 11747

Project Location: MINMILT 12/23  
Client Job Number:  
Project Number: 70199916  
Laboratory Work Order Number: 22A0293

Enclosed are results of analyses for samples as received by the laboratory on January 7, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy  
Project Manager

## Table of Contents

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

Pace Analytical Services - Long Island, NY  
575 Broad Hollow Road  
Melville, NY 11747  
ATTN: Elizabeth Harrison

REPORT DATE: 1/12/2022

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70199916

**ANALYTICAL SUMMARY**

---

WORK ORDER NUMBER: 22A0293

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

PROJECT LOCATION: MINMILT 12/23

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE-INF	22A0293-01	Soil Gas		EPA TO-15	

**CASE NARRATIVE SUMMARY**

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

**EPA TO-15**

**Qualifications:**

**L-01**

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

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

**Vinyl Acetate**

B298783-BS1

**L-03**

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

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

**Ethyl Acetate**

22A0293-01[SVE-INF], B298783-BLK1, B298783-BS1

**V-34**

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

**Ethyl Acetate**

22A0293-01[SVE-INF], B298783-BLK1, B298783-BS1, S067283-CCV1

**V-36**

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

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

**Vinyl Acetate**

B298783-BS1, S067283-CCV1

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

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



Lisa A. Worthington  
Technical Representative

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

**ANALYTICAL RESULTS**

 Project Location: MINMILT 12/23  
 Date Received: 1/7/2022  
**Field Sample #: SVE-INF**  
**Sample ID: 22A0293-01**  
 Sample Matrix: Soil Gas  
 Sampled: 12/23/2021 10:30

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1297  
 Canister Size: 6 liter  
 Flow Controller ID: 4128  
 Sample Type: Grab

**Work Order: 22A0293**  
 Initial Vacuum(in Hg): -28  
 Final Vacuum(in Hg): -5  
 Receipt Vacuum(in Hg): -4.6  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	ND	8.0		ND	19	4	1/12/22	3:04	BRF
Benzene	ND	0.20		ND	0.64	4	1/12/22	3:04	BRF
Benzyl chloride	ND	0.20		ND	1.0	4	1/12/22	3:04	BRF
Bromodichloromethane	ND	0.20		ND	1.3	4	1/12/22	3:04	BRF
Bromoform	ND	0.20		ND	2.1	4	1/12/22	3:04	BRF
Bromomethane	ND	0.20		ND	0.78	4	1/12/22	3:04	BRF
1,3-Butadiene	ND	0.20		ND	0.44	4	1/12/22	3:04	BRF
2-Butanone (MEK)	ND	8.0		ND	24	4	1/12/22	3:04	BRF
Carbon Disulfide	ND	2.0		ND	6.2	4	1/12/22	3:04	BRF
Carbon Tetrachloride	ND	0.20		ND	1.3	4	1/12/22	3:04	BRF
Chlorobenzene	ND	0.20		ND	0.92	4	1/12/22	3:04	BRF
Chloroethane	ND	0.20		ND	0.53	4	1/12/22	3:04	BRF
Chloroform	1.0	0.20		4.9	0.98	4	1/12/22	3:04	BRF
Chloromethane	ND	0.40		ND	0.83	4	1/12/22	3:04	BRF
Cyclohexane	ND	0.20		ND	0.69	4	1/12/22	3:04	BRF
Dibromochloromethane	ND	0.20		ND	1.7	4	1/12/22	3:04	BRF
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	1/12/22	3:04	BRF
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	1/12/22	3:04	BRF
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	1/12/22	3:04	BRF
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	1/12/22	3:04	BRF
Dichlorodifluoromethane (Freon 12)	1.1	0.20		5.5	0.99	4	1/12/22	3:04	BRF
1,1-Dichloroethane	6.4	0.20		26	0.81	4	1/12/22	3:04	BRF
1,2-Dichloroethane	1.2	0.20		5.1	0.81	4	1/12/22	3:04	BRF
1,1-Dichloroethylene	ND	0.20		ND	0.79	4	1/12/22	3:04	BRF
cis-1,2-Dichloroethylene	110	0.20		450	0.79	4	1/12/22	3:04	BRF
trans-1,2-Dichloroethylene	1.4	0.20		5.4	0.79	4	1/12/22	3:04	BRF
1,2-Dichloropropane	ND	0.20		ND	0.92	4	1/12/22	3:04	BRF
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	1/12/22	3:04	BRF
Ethanol	13	8.0		24	15	4	1/12/22	3:04	BRF
Ethyl Acetate	ND	2.0	L-03, V-34	ND	7.2	4	1/12/22	3:04	BRF
Ethylbenzene	ND	0.20		ND	0.87	4	1/12/22	3:04	BRF
4-Ethyltoluene	ND	0.20		ND	0.98	4	1/12/22	3:04	BRF
Heptane	ND	0.20		ND	0.82	4	1/12/22	3:04	BRF
Hexachlorobutadiene	ND	0.20		ND	2.1	4	1/12/22	3:04	BRF
Hexane	ND	8.0		ND	28	4	1/12/22	3:04	BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	4	1/12/22	3:04	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	1/12/22	3:04	BRF

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

**ANALYTICAL RESULTS**

 Project Location: MINMILT 12/23  
 Date Received: 1/7/2022  
**Field Sample #: SVE-INF**  
**Sample ID: 22A0293-01**  
 Sample Matrix: Soil Gas  
 Sampled: 12/23/2021 10:30

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1297  
 Canister Size: 6 liter  
 Flow Controller ID: 4128  
 Sample Type: Grab

**Work Order: 22A0293**  
 Initial Vacuum(in Hg): -28  
 Final Vacuum(in Hg): -5  
 Receipt Vacuum(in Hg): -4.6  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Methylene Chloride	ND	2.0		ND	6.9	4	1/12/22	3:04	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.20		ND	0.82	4	1/12/22	3:04	BRF
Naphthalene	ND	0.20		ND	1.0	4	1/12/22	3:04	BRF
Styrene	ND	0.20		ND	0.85	4	1/12/22	3:04	BRF
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	1/12/22	3:04	BRF
Tetrachloroethylene	300	1.0		2100	6.8	20	1/12/22	3:43	BRF
Tetrahydrofuran	ND	2.0		ND	5.9	4	1/12/22	3:04	BRF
Toluene	ND	0.20		ND	0.75	4	1/12/22	3:04	BRF
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	4	1/12/22	3:04	BRF
1,1,1-Trichloroethane	2.2	0.20		12	1.1	4	1/12/22	3:04	BRF
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	1/12/22	3:04	BRF
Trichloroethylene	24	0.20		130	1.1	4	1/12/22	3:04	BRF
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	1/12/22	3:04	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	1/12/22	3:04	BRF
1,2,4-Trimethylbenzene	ND	0.20		ND	0.98	4	1/12/22	3:04	BRF
1,3,5-Trimethylbenzene	ND	0.20		ND	0.98	4	1/12/22	3:04	BRF
Vinyl Acetate	ND	4.0		ND	14	4	1/12/22	3:04	BRF
Vinyl Chloride	ND	0.20		ND	0.51	4	1/12/22	3:04	BRF
m&p-Xylene	ND	0.40		ND	1.7	4	1/12/22	3:04	BRF
o-Xylene	ND	0.20		ND	0.87	4	1/12/22	3:04	BRF

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	108	70-130	1/12/22	3:04
4-Bromofluorobenzene (1)	108	70-130	1/12/22	3:43

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**Sample Extraction Data**
**Prep Method: TO-15 Prep**
**Analytical Method: EP**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
22A0293-01 [SVE-INF]	B298783	1.5	1	N/A	1000	400	150	01/11/22
22A0293-01RE1 [SVE-INF]	B298783	1.5	1	N/A	1000	400	30	01/11/22

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

## QUALITY CONTROL

## Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
<b>Batch B298783 - TO-15 Prep</b>											
<b>Blank (B298783-BLK1)</b>						Prepared & Analyzed: 01/11/22					
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
1,3-Dichloropropane	ND	0.095									
cis-1,3-Dichloropropene	ND	0.035									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.35									L-03, V-34
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									
Styrene	ND	0.035									
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0.35									
Toluene	ND	0.035									

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**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD			
<b>Batch B298783 - TO-15 Prep</b>											
<b>Blank (B298783-BLK1)</b>						Prepared & Analyzed: 01/11/22					
1,2,4-Trichlorobenzene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	8.86				8.00		111	70-130			
<b>LCS (B298783-BS1)</b>						Prepared & Analyzed: 01/11/22					
Acetone	4.45				5.00		88.9	70-130			
Benzene	4.03				5.00		80.6	70-130			
Benzyl chloride	5.05				5.00		101	70-130			
Bromodichloromethane	4.42				5.00		88.4	70-130			
Bromoform	6.01				5.00		120	70-130			
Bromomethane	4.17				5.00		83.5	70-130			
1,3-Butadiene	3.89				5.00		77.9	70-130			
2-Butanone (MEK)	4.56				5.00		91.1	70-130			
Carbon Disulfide	3.96				5.00		79.3	70-130			
Carbon Tetrachloride	5.46				5.00		109	70-130			
Chlorobenzene	4.42				5.00		88.4	70-130			
Chloroethane	4.08				5.00		81.6	70-130			
Chloroform	4.42				5.00		88.4	70-130			
Chloromethane	4.00				5.00		79.9	70-130			
Cyclohexane	3.87				5.00		77.4	70-130			
Dibromochloromethane	5.44				5.00		109	70-130			
1,2-Dibromoethane (EDB)	4.57				5.00		91.4	70-130			
1,2-Dichlorobenzene	5.01				5.00		100	70-130			
1,3-Dichlorobenzene	5.14				5.00		103	70-130			
1,4-Dichlorobenzene	5.04				5.00		101	70-130			
Dichlorodifluoromethane (Freon 12)	4.68				5.00		93.5	70-130			
1,1-Dichloroethane	4.16				5.00		83.1	70-130			
1,2-Dichloroethane	4.61				5.00		92.3	70-130			
1,1-Dichloroethylene	4.42				5.00		88.4	70-130			
cis-1,2-Dichloroethylene	4.22				5.00		84.4	70-130			
trans-1,2-Dichloroethylene	4.15				5.00		83.0	70-130			
1,2-Dichloropropane	3.90				5.00		78.1	70-130			
1,3-Dichloropropane	ND	0.14		0.62				70-130			
cis-1,3-Dichloropropene	4.24				5.00		84.8	70-130			
Ethanol	4.70				5.00		94.0	70-130			
Ethyl Acetate	3.03				5.00		60.5 *	70-130			

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**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
<b>Batch B298783 - TO-15 Prep</b>											
<b>LCS (B298783-BS1)</b>						Prepared & Analyzed: 01/11/22					
Ethylbenzene	4.48				5.00		89.6	70-130			
4-Ethyltoluene	4.91				5.00		98.2	70-130			
Heptane	4.06				5.00		81.1	70-130			
Hexachlorobutadiene	5.75				5.00		115	70-130			
Hexane	5.21				5.00		104	70-130			
2-Hexanone (MBK)	4.93				5.00		98.6	70-130			
Methyl tert-Butyl Ether (MTBE)	4.22				5.00		84.5	70-130			
Methylene Chloride	4.20				5.00		83.9	70-130			
4-Methyl-2-pentanone (MIBK)	4.62				5.00		92.5	70-130			
Naphthalene	5.52				5.00		110	70-130			
Styrene	4.72				5.00		94.3	70-130			
1,1,2,2-Tetrachloroethane	4.12				5.00		82.4	70-130			
Tetrachloroethylene	5.03				5.00		101	70-130			
Tetrahydrofuran	4.03				5.00		80.5	70-130			
Toluene	4.38				5.00		87.6	70-130			
1,2,4-Trichlorobenzene	5.40				5.00		108	70-130			
1,1,1-Trichloroethane	4.61				5.00		92.2	70-130			
1,1,2-Trichloroethane	4.38				5.00		87.5	70-130			
Trichloroethylene	4.24				5.00		84.8	70-130			
Trichlorofluoromethane (Freon 11)	4.69				5.00		93.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.43				5.00		88.7	70-130			
1,2,4-Trimethylbenzene	4.76				5.00		95.2	70-130			
1,3,5-Trimethylbenzene	4.84				5.00		96.8	70-130			
Vinyl Acetate	6.78				5.00		<b>136</b> *	70-130			L-01, V-36
Vinyl Chloride	3.80				5.00		75.9	70-130			
m&p-Xylene	9.23				10.0		92.3	70-130			
o-Xylene	4.65				5.00		93.0	70-130			
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>9.04</i>				<i>8.00</i>		<i>113</i>	<i>70-130</i>			



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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Initial Cal Check (S066182-ICV1 )</b>			Lab File ID: G21A342016.D			Analyzed: 12/08/21 16:58			
Bromochloromethane (1)	1512635	8.497	1402037	8.503	108	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3688445	10.271	3621476	10.277	102	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	3527556	14.642	3493930	14.642	101	60 - 140	0.0000	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S067283-CCV1 )</b>			Lab File ID: G22A011004.D			Analyzed: 01/11/22 12:44			
Bromochloromethane (1)	1528307	8.497	1402037	8.503	109	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3934677	10.271	3621476	10.277	109	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	3612579	14.642	3493930	14.642	103	60 - 140	0.0000	+/-0.50	
<b>LCS (B298783-BS1 )</b>			Lab File ID: G22A011005.D			Analyzed: 01/11/22 13:24			
Bromochloromethane (1)	1518582	8.497	1528307	8.497	99	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3921325	10.271	3934677	10.271	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3625230	14.642	3612579	14.642	100	60 - 140	0.0000	+/-0.50	
<b>Blank (B298783-BLK1 )</b>			Lab File ID: G22A011009.D			Analyzed: 01/11/22 16:07			
Bromochloromethane (1)	1489377	8.503	1528307	8.497	97	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3789262	10.271	3934677	10.271	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3518888	14.642	3612579	14.642	97	60 - 140	0.0000	+/-0.50	
<b>SVE-INF (22A0293-01 )</b>			Lab File ID: G22A011024.D			Analyzed: 01/12/22 03:04			
Bromochloromethane (1)	1798866	8.497	1528307	8.497	118	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	4328619	10.271	3934677	10.271	110	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	4030402	14.642	3612579	14.642	112	60 - 140	0.0000	+/-0.50	
<b>SVE-INF (22A0293-01RE1 )</b>			Lab File ID: G22A011025.D			Analyzed: 01/12/22 03:43			
Bromochloromethane (1)	1759928	8.497	1528307	8.497	115	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	4275488	10.271	3934677	10.271	109	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3977831	14.642	3612579	14.642	110	60 - 140	0.0000	+/-0.50	

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## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S067283-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.05	0.9407078	0.9501871		1.0	30
Benzene	A	5.00	4.11	0.934211	0.76849		-17.7	30
Benzyl chloride	A	5.00	4.98	0.9229464	0.9190168		-0.4	30
Bromodichloromethane	A	5.00	4.50	0.6342236	0.5714295		-9.9	30
Bromoform	A	5.00	6.03	0.4468591	0.5391016		20.6	30
Bromomethane	A	5.00	4.19	0.5858487	0.4914164		-16.1	30
1,3-Butadiene	A	5.00	4.15	0.4976375	0.4131515		-17.0	30
2-Butanone (MEK)	A	5.00	4.65	1.510541	1.403958		-7.1	30
Carbon Disulfide	A	5.00	4.12	2.251089	1.853971		-17.6	30
Carbon Tetrachloride	A	5.00	5.50	0.4541248	0.4993955		10.0	30
Chlorobenzene	A	5.00	4.54	0.8377285	0.761082		-9.1	30
Chloroethane	A	5.00	3.98	0.3226291	0.2564856		-20.5	30
Chloroform	A	5.00	4.44	1.555256	1.382157		-11.1	30
Chloromethane	A	5.00	4.13	0.6106162	0.5048389		-17.3	30
Cyclohexane	A	5.00	3.92	0.396716	0.3112754		-21.5	30
Dibromochloromethane	A	5.00	5.55	0.5320738	0.5906814		11.0	30
1,2-Dibromoethane (EDB)	A	5.00	4.70	0.562252	0.5282281		-6.1	30
1,2-Dichlorobenzene	A	5.00	5.00	0.6244209	0.6247473		0.05	30
1,3-Dichlorobenzene	A	5.00	5.13	0.6745915	0.6920942		2.6	30
1,4-Dichlorobenzene	A	5.00	5.11	0.6818076	0.6971082		2.2	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.82	1.52093	1.466162		-3.6	30
1,1-Dichloroethane	A	5.00	4.15	1.413309	1.174055		-16.9	30
1,2-Dichloroethane	A	5.00	4.68	0.9197802	0.8599843		-6.5	30
1,1-Dichloroethylene	A	5.00	4.41	1.135823	1.002717		-11.7	30
cis-1,2-Dichloroethylene	A	5.00	4.25	1.005957	0.8555077		-15.0	30
trans-1,2-Dichloroethylene	A	5.00	4.22	1.067538	0.9015372		-15.5	30
1,2-Dichloropropane	A	5.00	3.91	0.3739952	0.2927883		-21.7	30
cis-1,3-Dichloropropene	A	5.00	4.27	0.4978307	0.4249831		-14.6	30
Ethanol	A	5.00	4.58	0.1478284	0.1355141		-8.3	30
Ethyl Acetate	A	5.00	4.21	0.3421707	0.2882499		-15.8	30
Ethylbenzene	A	5.00	4.57	1.365396	1.248161		-8.6	30
4-Ethyltoluene	A	5.00	4.85	1.318567	1.279534		-3.0	30
Heptane	A	5.00	4.12	0.2973937	0.2452141		-17.5	30
Hexachlorobutadiene	A	5.00	6.02	0.3685606	0.4436759		20.4	30
Hexane	A	5.00	5.18	0.8911197	0.8097274		3.6	30
2-Hexanone (MBK)	A	5.00	5.13	0.6568943	0.673803		2.6	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.35	1.943419	1.689375		-13.1	30
Methylene Chloride	A	5.00	4.27	0.8890624	0.758546		-14.7	30

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## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S067283-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Methyl-2-pentanone (MIBK)	A	5.00	4.89	0.6998103	0.683912		-2.3	30
Naphthalene	A	5.00	5.70	0.9681384	1.102661		13.9	30
Styrene	A	5.00	4.67	0.7628957	0.7122052		-6.6	30
1,1,2,2-Tetrachloroethane	A	5.00	4.21	0.8809722	0.7415392		-15.8	30
Tetrachloroethylene	A	5.00	5.20	0.4242595	0.4416785		4.1	30
Tetrahydrofuran	A	5.00	4.20	0.3396931	0.285038		-16.1	30
Toluene	A	5.00	4.49	1.090895	0.9794895		-10.2	30
1,2,4-Trichlorobenzene	A	5.00	5.80	0.4270306	0.4952252		16.0	30
1,1,1-Trichloroethane	A	5.00	4.86	0.5251361	0.5100288		-2.9	30
1,1,2-Trichloroethane	A	5.00	4.46	0.3833148	0.3422521		-10.7	30
Trichloroethylene	A	5.00	4.36	0.3926852	0.3423236		-12.8	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.79	1.358779	1.301541		-4.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.44	1.403446	1.247504		-11.1	30
1,2,4-Trimethylbenzene	A	5.00	4.72	1.072009	1.012473		-5.6	30
1,3,5-Trimethylbenzene	A	5.00	4.78	1.094949	1.047595		-4.3	30
Vinyl Acetate	A	5.00	3.59	1.219501	0.8745164		-28.3	30
Vinyl Chloride	A	5.00	3.84	0.6993653	0.5368858		-23.2	30
m&p-Xylene	A	10.0	9.38	1.02777	0.9639529		-6.2	30
o-Xylene	A	5.00	4.66	1.052547	0.9805671		-6.8	30

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

# Internal Transfer Chain of Custody

22A00003



Samples Pre-Logged into eCOC.

State Of Origin: NY  
 Cert. Needed:  Yes  No

Owner Received Date: 12/23/2021 Results Requested By: 1/17/2022

Workorder: 70199916 Workorder Name: MINMILT 12/23

Elizabeth Harrison  
 Pace Analytical Melville  
 575 Broad Hollow Road  
 Melville, NY 11747  
 Phone (631)694-3040

Pace New England  
 39 Spruce St.  
 East Longmeadow, MA 01028  
 Phone (413)525-2332

Report ID		Requested Analysis										
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers					LAB USE ONLY	
						Other						
1	SVE-INF	IPS	12/23/2021 10:30	70199916001	Air	1						
2												
3												
4												
5												

Comments  
 REPORT FORMAT AND LIST OF COMPOUNDS  
 ON ATTACHED REPORT.

Transfers  
 1 Released By: Melvin Saeghy Date/Time: 1-16-22 18:10 Received By: [Signature]  
 2 Date/Time: 1/17/22 13:00  
 3

Cooler Temperature on Receipt \_\_\_\_\_ °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

CHAIN OF CUSTODY RECORD (AIR)

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com

Company Name: Dyntec Consulting  
Address: 630 Johnson Ave, Bohemia, NY 11716  
Phone: 631-589-6353

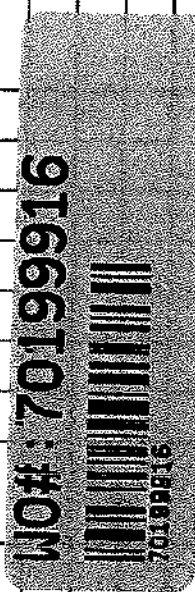
Project Name: MZ1001  
Project Location: 540 Smith Street, Farmingdale, NY  
Project Number: MZ1001  
Project Manager: Kaitlyn Crosby  
Com-Test Quote Name/Number:  
Invoice Recipient:

Sampled By: Kaitlyn Crosby

Requested Turnaround Time  
 7-Day  
 10-Day  
 Due Date: Standard  
 Rush-Approval Required  
 1-Day  
 3-Day  
 2-Day  
 4-Day  
 Data Delivery  
 Format: PDF  EXCEL  
 Other:  
 CLP Like Data Pkg Required:   
 Email To:  
 Fax To #:

Initial Pressure \_\_\_\_\_  
 Final Pressure \_\_\_\_\_  
 Lab Receipt Pressure \_\_\_\_\_  
 " Hg  
 Please fill out completely, sign, date and retain the yellow copy for your records  
 Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply  
 For summa canister and flow controller information, please refer to Con-Test's Air Media Agreement  
 Summa Can ID \_\_\_\_\_ Flow Controller ID \_\_\_\_\_  
 12-23-21  
 1030  
 SG-6  
 X  
 -28-5

Lab ID#	Client Use	Client Sample ID / Description	Collection Date / Time	Reporting Date / Time	Surrplus	Flow Rate	Matrix	Volume	Temperature	Other	ANALYSIS REQUESTED	
											Flow Controller ID	Summa Can ID
70199916	SUE-INF				2		SG-6	6			X	



Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:  
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:  
 SG = SOIL GAS  
 IA = INDOOR AIR  
 AMB = AMBIENT  
 SS = SUB SLAB  
 D = DUP  
 BL = BLANK  
 O = Other

Detection Limit Requirements  
 MA MCP Required  
 MA MCP Certification Form Required  
 CT RCP Required  
 CT RCP Certification Form Required

Other:

Project Entity  
 Government  
 Federal  
 City  
 Municipality  
 21 J  
 Brownfield  
 MWRA  
 School  
 MBTA  
 WRTA  
 Chromatogram  
 AIHA-LAP, LLC  
 PCB ONLY  
 Soxhlet  
 Non Soxhlet

Relinquished by: (signature) Date/Time: 12-23-21 1057

Received by: (signature) Date/Time: 12/23/21 1058

Relinquished by: (signature) Date/Time:

Received by: (signature) Date/Time:

Relinquished by: (signature) Date/Time:

Received by: (signature) Date/Time:

Relinquished by: (signature) Date/Time:

Received by: (signature) Date/Time:

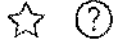






TRACK ANOTHER SHIPMENT

555135186094



ADD NICKNAME

Delivered  
Friday, 1/7/2022 at 12:19 pm



DELIVERED

Signed for by: B.BECKY

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

MELVILLE, NY US

TO

EAST LONGMEADOW, MA US

MANAGE DELIVERY

Travel History

TIME ZONE

Local Scan Time



Friday, January 7, 2022

12:19 PM	EAST LONGMEADOW, MA	Delivered
10:18 AM	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
10:08 AM	WINDSOR LOCKS, CT	At local FedEx facility
2:28 AM	NEWARK, NJ	Departed FedEx hub

Thursday, January 6, 2022

10:50 PM	NEWARK, NJ	Departed FedEx hub
10:43 PM	NEWARK, NJ	Arrived at FedEx hub
9:32 PM	MELVILLE, NY	Left FedEx origin facility
5:46 PM	MELVILLE, NY	Picked up

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples \_\_\_\_\_



**con-test<sup>®</sup>**  
ANALYTICAL LABORATORY

Doc# 278 Rev 6 2017

**Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client Face NY

Received By RLJ Date 11/22 Time 12:19

How were the samples received? In Cooler \_\_\_\_\_ On Ice \_\_\_\_\_ No Ice \_\_\_\_\_  
In Box T Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature Compliance? 2-6°C NA By Gun # \_\_\_\_\_ Actual Temp - \_\_\_\_\_  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there any loose caps/valves on any samples? F

Is COC in ink/ Legible? T

Did COC Include all Pertinent Information? Client T Analysis T Sampler Name T  
Project T ID's T Collection Dates/Times T

Are Sample Labels filled out and legible? T

Are there Rushes? F Who was notified? \_\_\_\_\_

Samples are received within holding time? T

Proper Media Used? T Individually Certified Cans? F

Are there Trip Blanks? F Is there enough Volume? T

Containers	#	Size	Regulator	Duration	Accessories		
Summa Cans	1	6L	1	grab	Nut/Ferrule		IC Train
Tedlar Bags					Tubing		
TO-17 Tubes					T-Connector		Shipping Charges
Radiello					Syringe		
Pufs/TO-11s					Tedlar		

Can #s	Reg #s	Media	Media	Media	Media
1297	4128				
Unused Media	Pufs/TO-17's				

Comments:

[Empty box for handwritten comments]

July 01, 2022

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

RE: Project: MINMILT/MIN1001 6/21  
Pace Project No.: 70219215

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

Phone: 413-525-2332  
Fax: 413-525-6405  
www.pacelabs.com



Company Name: **PW Grosser Consulting**  
Address: **630 Johnson Ave, Bohemia, NY**  
Phone: **631-589-6353**  
Project Name: **M in M: H / MEN 1001**  
Project Location: **540 Smith St, Farmingdale, NY**  
Project Number: **MFN1001**  
Project Manager: **Kaitlyn Crosby**  
Pace Quote Name/Number:  
Invoice Recipient: **Same as Client**  
Sampled By: **Kaitlyn Crosby**

Requested Turnaround Time: 7-Day  10-Day   
Due Date: **Standard**  
Rush-Approval Required: 1-Day  3-Day   
2-Day  4-Day   
Data Delivery: Format: PDF  EXCEL   
Other: CLP Like Data Pkg Required:   
Email To: Fax To #:

ANALYSIS REQUESTED

Initial Pressure	" Hg	Final Pressure	Lab Receipt Pressure
Volume	4 Liters	Matrix Code	SG
Duration	Total Minutes Sampled: <b>1</b>	Flow Rate	m <sup>3</sup> /min / L/min
Collection Data	Beginning Date/Time: <b>6-21-22 1100</b>	Ending Date/Time: <b>6-21-22 1100</b>	Matrix Code: <b>SG</b>



Comments: Please use the following codes to indicate possible sample concentration within the Conc Code column above:  
H - High; M - Medium; L - Low; C - Clean; U - Unknown

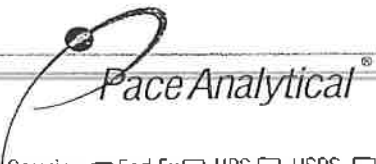
Matrix Codes:  
SG = SOIL GAS  
IA = INDOOR AIR  
AMB = AMBIENT  
SS = SUB SLAB  
D = DUP  
BL = BLANK  
O = Other

Special Requirements: MA MCP Required   
MCP Certification Form Required   
CT RCP Required   
RCP Certification Form Required   
Other:

Project Entity: Government  Municipality  MWRA  WRTA  Other   
Federal  21 J  School  MBTA   
City  Brownfield

Relinquished by: (signature) **[Signature]** Date/Time: **6-21-22 1114**  
Received by: (signature) **[Signature]** Date/Time: **6/21/22 1115**  
Relinquished by: (signature) **[Signature]** Date/Time:  
Received by: (signature) **[Signature]** Date/Time:  
Relinquished by: (signature) **[Signature]** Date/Time:  
Received by: (signature) **[Signature]** Date/Time:

NELAC and AIHA-LAP, LLC Accredited  
PCB ONLY: Soxhlet  Non Soxhlet   
Chromatogram  AIHA-LAP, LLC



Sample Condition Upon Receipt

WO#: 70219215  
 Project: PM: GFD Due Date: 07/06/22  
 CLIENT: PWC

Client Name: PWC

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other  
 Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  Yes  No Seals intact:  Yes  No  N/A  
 Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other

Thermometer Used: TH09-TA148 Correction Factor: +1.2  
 Cooler Temperature(°C): \_\_\_\_\_ Cooler Temperature Corrected(°C): \_\_\_\_\_

Temperature Blank Present:  Yes  No  
 Type of Ice: Wet Blue None  
 Samples on ice, cooling process has begun  
 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: KW 6/21/22

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 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:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		7.
Sufficient Volume: (Triple volume provided for)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		12.
-Includes date/time/ID, Matrix: SL WT OIL <u>(A2)</u>				
All containers needing preservation have been checked? pH paper Lot #	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with method recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRD/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: KI starch test strips Lot #	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot #	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	15. Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> 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.

June 30, 2022

Giovanna Deloca  
Pace Analytical Services - Long Island, NY  
575 Broad Hollow Road  
Melville, NY 11747

Project Location: Minmilt/Min1001 6/21  
Client Job Number:  
Project Number: 70219215  
Laboratory Work Order Number: 22F1705

Enclosed are results of analyses for samples as received by the laboratory on June 24, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman  
Project Manager

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---

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

Pace Analytical Services - Long Island, NY  
575 Broad Hollow Road  
Melville, NY 11747  
ATTN: Giovanna Deloca

REPORT DATE: 6/30/2022

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70219215

**ANALYTICAL SUMMARY**

---

WORK ORDER NUMBER: 22F1705

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

PROJECT LOCATION: Minmilt/Min1001 6/21

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE-INF	22F1705-01	Soil Gas		EPA TO-15	



**CASE NARRATIVE SUMMARY**

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

**EPA TO-15**

**Qualifications:**

**V-05**

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

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

**1,2,4-Trichlorobenzene**

22F1705-01[SVE-INF], B312034-BLK1, B312034-BS1, S073366-CCV1

**Hexachlorobutadiene**

22F1705-01[SVE-INF], B312034-BLK1, B312034-BS1, S073366-CCV1

**Naphthalene**

22F1705-01[SVE-INF], B312034-BLK1, B312034-BS1, S073366-CCV1

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

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



Lisa A. Worthington  
Technical Representative

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

**ANALYTICAL RESULTS**

 Project Location: Minmilt/Min1001 6/21  
 Date Received: 6/24/2022  
**Field Sample #: SVE-INF**  
**Sample ID: 22F1705-01**  
 Sample Matrix: Soil Gas  
 Sampled: 6/21/2022 11:00

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1323  
 Canister Size: 6 liter  
 Flow Controller ID: 7119  
 Sample Type: Grab

**Work Order: 22F1705**  
 Initial Vacuum(in Hg): -28  
 Final Vacuum(in Hg): -5  
 Receipt Vacuum(in Hg): -5.2  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	11	8.0		25	19	4	6/30/22	9:35	TPH
Benzene	ND	0.20		ND	0.64	4	6/30/22	9:35	TPH
Benzyl chloride	ND	0.20		ND	1.0	4	6/30/22	9:35	TPH
Bromodichloromethane	ND	0.20		ND	1.3	4	6/30/22	9:35	TPH
Bromoform	ND	0.20		ND	2.1	4	6/30/22	9:35	TPH
Bromomethane	ND	0.20		ND	0.78	4	6/30/22	9:35	TPH
1,3-Butadiene	ND	0.20		ND	0.44	4	6/30/22	9:35	TPH
2-Butanone (MEK)	ND	8.0		ND	24	4	6/30/22	9:35	TPH
Carbon Disulfide	ND	2.0		ND	6.2	4	6/30/22	9:35	TPH
Carbon Tetrachloride	ND	0.20		ND	1.3	4	6/30/22	9:35	TPH
Chlorobenzene	ND	0.20		ND	0.92	4	6/30/22	9:35	TPH
Chloroethane	0.24	0.20		0.62	0.53	4	6/30/22	9:35	TPH
Chloroform	0.60	0.20		2.9	0.98	4	6/30/22	9:35	TPH
Chloromethane	ND	0.40		ND	0.83	4	6/30/22	9:35	TPH
Cyclohexane	ND	0.20		ND	0.69	4	6/30/22	9:35	TPH
Dibromochloromethane	ND	0.20		ND	1.7	4	6/30/22	9:35	TPH
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	6/30/22	9:35	TPH
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	6/30/22	9:35	TPH
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	6/30/22	9:35	TPH
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	6/30/22	9:35	TPH
Dichlorodifluoromethane (Freon 12)	1.1	0.20		5.2	0.99	4	6/30/22	9:35	TPH
1,1-Dichloroethane	23	0.20		91	0.81	4	6/30/22	9:35	TPH
1,2-Dichloroethane	ND	0.20		ND	0.81	4	6/30/22	9:35	TPH
1,1-Dichloroethylene	0.34	0.20		1.4	0.79	4	6/30/22	9:35	TPH
cis-1,2-Dichloroethylene	370	2.0		1500	7.9	40	6/29/22	21:31	TPH
trans-1,2-Dichloroethylene	2.5	0.20		10.0	0.79	4	6/30/22	9:35	TPH
1,2-Dichloropropane	ND	0.20		ND	0.92	4	6/30/22	9:35	TPH
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	6/30/22	9:35	TPH
trans-1,3-Dichloropropene	ND	0.20		ND	0.91	4	6/30/22	9:35	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20		ND	1.4	4	6/30/22	9:35	TPH
1,4-Dioxane	ND	2.0		ND	7.2	4	6/30/22	9:35	TPH
Ethanol	180	8.0		340	15	4	6/30/22	9:35	TPH
Ethyl Acetate	ND	2.0		ND	7.2	4	6/30/22	9:35	TPH
Ethylbenzene	ND	0.20		ND	0.87	4	6/30/22	9:35	TPH
4-Ethyltoluene	ND	0.80		ND	3.9	4	6/30/22	9:35	TPH
Heptane	ND	0.20		ND	0.82	4	6/30/22	9:35	TPH
Hexachlorobutadiene	ND	0.20	V-05	ND	2.1	4	6/30/22	9:35	TPH

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

**ANALYTICAL RESULTS**

 Project Location: Minmilt/Min1001 6/21  
 Date Received: 6/24/2022  
**Field Sample #: SVE-INF**  
**Sample ID: 22F1705-01**  
 Sample Matrix: Soil Gas  
 Sampled: 6/21/2022 11:00

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1323  
 Canister Size: 6 liter  
 Flow Controller ID: 7119  
 Sample Type: Grab

**Work Order: 22F1705**  
 Initial Vacuum(in Hg): -28  
 Final Vacuum(in Hg): -5  
 Receipt Vacuum(in Hg): -5.2  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling:

**EPA TO-15**

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	8.0		ND	28	4	6/30/22	9:35	TPH
2-Hexanone (MBK)	ND	0.20		ND	0.82	4	6/30/22	9:35	TPH
Isopropanol	53	8.0		130	20	4	6/30/22	9:35	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	6/30/22	9:35	TPH
Methylene Chloride	2.4	2.0		8.4	6.9	4	6/30/22	9:35	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.20		ND	0.82	4	6/30/22	9:35	TPH
Naphthalene	ND	0.20	V-05	ND	1.0	4	6/30/22	9:35	TPH
Propene	ND	8.0		ND	14	4	6/30/22	9:35	TPH
Styrene	ND	0.80		ND	3.4	4	6/30/22	9:35	TPH
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	6/30/22	9:35	TPH
Tetrachloroethylene	170	0.20		1200	1.4	4	6/30/22	9:35	TPH
Tetrahydrofuran	ND	2.0		ND	5.9	4	6/30/22	9:35	TPH
Toluene	0.21	0.20		0.80	0.75	4	6/30/22	9:35	TPH
1,2,4-Trichlorobenzene	ND	0.20	V-05	ND	1.5	4	6/30/22	9:35	TPH
1,1,1-Trichloroethane	3.1	0.20		17	1.1	4	6/30/22	9:35	TPH
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	6/30/22	9:35	TPH
Trichloroethylene	30	0.20		160	1.1	4	6/30/22	9:35	TPH
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	6/30/22	9:35	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	6/30/22	9:35	TPH
1,2,4-Trimethylbenzene	ND	0.80		ND	3.9	4	6/30/22	9:35	TPH
1,3,5-Trimethylbenzene	ND	0.80		ND	3.9	4	6/30/22	9:35	TPH
Vinyl Acetate	ND	4.0		ND	14	4	6/30/22	9:35	TPH
Vinyl Chloride	ND	0.20		ND	0.51	4	6/30/22	9:35	TPH
m&p-Xylene	ND	0.40		ND	1.7	4	6/30/22	9:35	TPH
o-Xylene	ND	0.20		ND	0.87	4	6/30/22	9:35	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.8	70-130	6/29/22 21:31
4-Bromofluorobenzene (1)	96.6	70-130	6/30/22 9:35

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**Sample Extraction Data**
**Prep Method: TO-15 Prep**
**Analytical Method: EP**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
22F1705-01 [SVE-INF]	B312034	1.5	1	N/A	1000	400	150	06/29/22
22F1705-01RE1 [SVE-INF]	B312034	1.5	1	N/A	1000	400	15	06/29/22

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## QUALITY CONTROL

## Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
<b>Batch B312034 - TO-15 Prep</b>											
<b>Blank (B312034-BLK1)</b>											
						Prepared & Analyzed: 06/29/22					
Acetone	ND	4.0									
Benzene	ND	0.10									
Benzyl chloride	ND	0.10									
Bromodichloromethane	ND	0.10									
Bromoform	ND	0.10									
Bromomethane	ND	0.10									
1,3-Butadiene	ND	0.10									
2-Butanone (MEK)	ND	4.0									
Carbon Disulfide	ND	1.0									
Carbon Tetrachloride	ND	0.10									
Chlorobenzene	ND	0.10									
Chloroethane	ND	0.10									
Chloroform	ND	0.10									
Chloromethane	ND	0.20									
Cyclohexane	ND	0.10									
Dibromochloromethane	ND	0.10									
1,2-Dibromoethane (EDB)	ND	0.10									
1,2-Dichlorobenzene	ND	0.10									
1,3-Dichlorobenzene	ND	0.10									
1,4-Dichlorobenzene	ND	0.10									
Dichlorodifluoromethane (Freon 12)	ND	0.10									
1,1-Dichloroethane	ND	0.10									
1,2-Dichloroethane	ND	0.10									
1,1-Dichloroethylene	ND	0.10									
cis-1,2-Dichloroethylene	ND	0.10									
trans-1,2-Dichloroethylene	ND	0.10									
1,2-Dichloropropane	ND	0.10									
cis-1,3-Dichloropropene	ND	0.10									
trans-1,3-Dichloropropene	ND	0.10									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10									
1,4-Dioxane	ND	1.0									
Ethanol	ND	4.0									
Ethyl Acetate	ND	1.0									
Ethylbenzene	ND	0.10									
4-Ethyltoluene	ND	0.10									
Heptane	ND	0.10									
Hexachlorobutadiene	ND	0.10									V-05
Hexane	ND	4.0									
2-Hexanone (MBK)	ND	0.10									
Isopropanol	ND	4.0									
Methyl tert-Butyl Ether (MTBE)	ND	0.10									
Methylene Chloride	ND	1.0									
4-Methyl-2-pentanone (MIBK)	ND	0.10									
Naphthalene	ND	0.10									V-05
Propene	ND	4.0									
Styrene	ND	0.10									

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**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Limit	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD				

**Batch B312034 - TO-15 Prep**
**Blank (B312034-BLK1)**

Prepared &amp; Analyzed: 06/29/22

1,1,2,2-Tetrachloroethane	ND	0.10										
Tetrachloroethylene	ND	0.10										
Tetrahydrofuran	ND	1.0										
Toluene	ND	0.10										
1,2,4-Trichlorobenzene	ND	0.10										V-05
1,1,1-Trichloroethane	ND	0.10										
1,1,2-Trichloroethane	ND	0.10										
Trichloroethylene	ND	0.10										
Trichlorofluoromethane (Freon 11)	ND	0.40										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40										
1,2,4-Trimethylbenzene	ND	0.10										
1,3,5-Trimethylbenzene	ND	0.10										
Vinyl Acetate	ND	2.0										
Vinyl Chloride	ND	0.10										
m&p-Xylene	ND	0.20										
o-Xylene	ND	0.10										
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.70</i>				<i>8.00</i>		<i>96.2</i>		<i>70-130</i>			

**LCS (B312034-BS1)**

Prepared &amp; Analyzed: 06/29/22

Acetone	5.06				5.00		101		70-130			
Benzene	4.66				5.00		93.2		70-130			
Benzyl chloride	5.93				5.00		119		70-130			
Bromodichloromethane	4.43				5.00		88.5		70-130			
Bromoform	4.47				5.00		89.3		70-130			
Bromomethane	5.22				5.00		104		70-130			
1,3-Butadiene	4.80				5.00		96.0		70-130			
2-Butanone (MEK)	4.63				5.00		92.7		70-130			
Carbon Disulfide	5.27				5.00		105		70-130			
Carbon Tetrachloride	4.59				5.00		91.8		70-130			
Chlorobenzene	4.36				5.00		87.2		70-130			
Chloroethane	4.80				5.00		96.0		70-130			
Chloroform	5.36				5.00		107		70-130			
Chloromethane	4.06				5.00		81.3		70-130			
Cyclohexane	5.47				5.00		109		70-130			
Dibromochloromethane	4.32				5.00		86.4		70-130			
1,2-Dibromoethane (EDB)	4.86				5.00		97.2		70-130			
1,2-Dichlorobenzene	5.02				5.00		100		70-130			
1,3-Dichlorobenzene	4.93				5.00		98.5		70-130			
1,4-Dichlorobenzene	5.12				5.00		102		70-130			
Dichlorodifluoromethane (Freon 12)	5.92				5.00		118		70-130			
1,1-Dichloroethane	4.86				5.00		97.1		70-130			
1,2-Dichloroethane	5.47				5.00		109		70-130			
1,1-Dichloroethylene	5.80				5.00		116		70-130			
cis-1,2-Dichloroethylene	5.26				5.00		105		70-130			
trans-1,2-Dichloroethylene	5.21				5.00		104		70-130			
1,2-Dichloropropane	4.06				5.00		81.3		70-130			

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**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD			
<b>Batch B312034 - TO-15 Prep</b>											
<b>LCS (B312034-BS1)</b>											
Prepared & Analyzed: 06/29/22											
cis-1,3-Dichloropropene	4.85				5.00		97.0	70-130			
trans-1,3-Dichloropropene	5.22				5.00		104	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.19				5.00		104	70-130			
1,4-Dioxane	5.63				5.00		113	70-130			
Ethanol	3.70				5.00		74.0	70-130			
Ethyl Acetate	5.17				5.00		103	70-130			
Ethylbenzene	6.03				5.00		121	70-130			
4-Ethyltoluene	5.99				5.00		120	70-130			
Heptane	4.53				5.00		90.6	70-130			
Hexachlorobutadiene	3.83				5.00		76.6	70-130			V-05
Hexane	4.85				5.00		97.0	70-130			
2-Hexanone (MBK)	4.64				5.00		92.8	70-130			
Isopropanol	3.81				5.00		76.2	70-130			
Methyl tert-Butyl Ether (MTBE)	6.36				5.00		127	70-130			
Methylene Chloride	4.86				5.00		97.3	70-130			
4-Methyl-2-pentanone (MIBK)	4.35				5.00		86.9	70-130			
Naphthalene	4.83				5.00		96.6	70-130			V-05
Propene	4.13				5.00		82.7	70-130			
Styrene	5.80				5.00		116	70-130			
1,1,2,2-Tetrachloroethane	4.43				5.00		88.6	70-130			
Tetrachloroethylene	4.49				5.00		89.8	70-130			
Tetrahydrofuran	6.00				5.00		120	70-130			
Toluene	5.76				5.00		115	70-130			
1,2,4-Trichlorobenzene	4.63				5.00		92.7	70-130			V-05
1,1,1-Trichloroethane	4.41				5.00		88.1	70-130			
1,1,2-Trichloroethane	4.68				5.00		93.7	70-130			
Trichloroethylene	5.07				5.00		101	70-130			
Trichlorofluoromethane (Freon 11)	5.65				5.00		113	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.38				5.00		108	70-130			
1,2,4-Trimethylbenzene	5.92				5.00		118	70-130			
1,3,5-Trimethylbenzene	5.88				5.00		118	70-130			
Vinyl Acetate	4.49				5.00		89.7	70-130			
Vinyl Chloride	4.68				5.00		93.6	70-130			
m&p-Xylene	12.6				10.0		126	70-130			
o-Xylene	6.23				5.00		125	70-130			
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.68</i>				<i>8.00</i>		<i>96.0</i>	<i>70-130</i>			

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**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.



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**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Initial Cal Check (S072065-ICV1 )</b>			Lab File ID: G22A144022.D			Analyzed: 05/24/22 21:40			
Bromochloromethane (1)	1256331	8.479	1268674	8.485	99	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3475998	10.259	3495969	10.259	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3109272	14.63	3089177	14.63	101	60 - 140	0.0000	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S073366-CCV1 )</b>			Lab File ID: G22A180005.D			Analyzed: 06/29/22 16:44			
Bromochloromethane (1)	1236358	8.313	1268674	8.485	97	60 - 140	-0.1720	+/-0.50	
1,4-Difluorobenzene (1)	4101362	10.087	3495969	10.259	117	60 - 140	-0.1720	+/-0.50	
Chlorobenzene-d5 (1)	3625816	14.452	3089177	14.63	117	60 - 140	-0.1780	+/-0.50	
<b>LCS (B312034-BS1 )</b>			Lab File ID: G22A180006.D			Analyzed: 06/29/22 17:24			
Bromochloromethane (1)	1232719	8.307	1236358	8.313	100	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	4096888	10.081	4101362	10.087	100	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	3596410	14.452	3625816	14.452	99	60 - 140	0.0000	+/-0.50	
<b>Blank (B312034-BLK1 )</b>			Lab File ID: G22A180008.D			Analyzed: 06/29/22 18:44			
Bromochloromethane (1)	1178541	8.313	1236358	8.313	95	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3825786	10.087	4101362	10.087	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3456851	14.452	3625816	14.452	95	60 - 140	0.0000	+/-0.50	
<b>SVE-INF (22F1705-01RE1 )</b>			Lab File ID: G22A180012.D			Analyzed: 06/29/22 21:31			
Bromochloromethane (1)	1165600	8.313	1236358	8.313	94	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3723879	10.087	4101362	10.087	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3367176	14.452	3625816	14.452	93	60 - 140	0.0000	+/-0.50	
<b>SVE-INF (22F1705-01 )</b>			Lab File ID: G22A180027.D			Analyzed: 06/30/22 09:35			
Bromochloromethane (1)	1176850	8.313	1236358	8.313	95	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3750500	10.087	4101362	10.087	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3420540	14.452	3625816	14.452	94	60 - 140	0.0000	+/-0.50	

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## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S073366-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.90	1.151493	1.128962		-2.0	30
Benzene	A	5.00	4.30	0.7332017	0.6300151		-14.1	30
Benzyl chloride	A	5.00	4.60	0.8139827	0.7482158		-8.1	30
Bromodichloromethane	A	5.00	4.07	0.6420887	0.5231889		-18.5	30
Bromoform	A	5.00	3.88	0.5736496	0.4448415		-22.5	30
Bromomethane	A	5.00	4.81	0.6308906	0.6066955		-3.8	30
1,3-Butadiene	A	5.00	4.59	0.4964754	0.4560595		-8.1	30
2-Butanone (MEK)	A	5.00	4.13	1.307552	1.0797		-17.4	30
Carbon Disulfide	A	5.00	4.60	2.084846	1.919597		-7.9	30
Carbon Tetrachloride	A	5.00	4.29	0.5519968	0.4734505		-14.2	30
Chlorobenzene	A	5.00	3.98	0.8673951	0.689665		-20.5	30
Chloroethane	A	5.00	4.34	0.3476824	0.3016227		-13.2	30
Chloroform	A	5.00	4.91	1.689144	1.659543		-1.8	30
Chloromethane	A	5.00	3.89	0.7054116	0.5481946		-22.3	30
Cyclohexane	A	5.00	4.97	0.2611425	0.2595988		-0.6	30
Dibromochloromethane	A	5.00	3.84	0.6525782	0.5018951		-23.1	30
1,2-Dibromoethane (EDB)	A	5.00	4.36	0.5460525	0.4757951		-12.9	30
1,2-Dichlorobenzene	A	5.00	4.10	0.5533656	0.4532824		-18.1	30
1,3-Dichlorobenzene	A	5.00	4.19	0.6446225	0.5396214		-16.3	30
1,4-Dichlorobenzene	A	5.00	4.28	0.593266	0.5083131		-14.3	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.65	1.883984	2.130265		13.1	30
1,1-Dichloroethane	A	5.00	4.37	1.346209	1.176031		-12.6	30
1,2-Dichloroethane	A	5.00	4.92	0.9859284	0.9699171		-1.6	30
1,1-Dichloroethylene	A	5.00	5.15	1.099842	1.13223		2.9	30
cis-1,2-Dichloroethylene	A	5.00	4.82	0.8418185	0.8110777		-3.7	30
trans-1,2-Dichloroethylene	A	5.00	4.70	0.9140014	0.8583779		-6.1	30
1,2-Dichloropropane	A	5.00	3.67	0.2819467	0.2071183		-26.5	30
cis-1,3-Dichloropropene	A	5.00	4.54	0.3748223	0.3403915		-9.2	30
trans-1,3-Dichloropropene	A	5.00	4.56	0.3349989	0.3058648		-8.7	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.09	1.887877	1.921735		1.8	30
1,4-Dioxane	A	5.00	4.81	0.1293352	0.1243809		-3.8	30
Ethanol	A	5.00	3.98	0.2262248	0.1798379		-20.5	30
Ethyl Acetate	A	5.00	4.41	0.2082657	0.1838018		-11.7	30
Ethylbenzene	A	5.00	5.49	1.036502	1.138046		9.8	30
4-Ethyltoluene	A	5.00	5.21	1.10029	1.146642		4.2	30
Heptane	A	5.00	4.14	0.204423	0.1690658		-17.3	30
Hexachlorobutadiene	A	5.00	2.96	0.4702012	0.2786343		-40.7	30 *
Hexane	A	5.00	4.40	0.8402901	0.7221429		-11.9	30

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

## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S073366-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	3.91	0.5190239	0.4060301		-21.8	30
Isopropanol	A	5.00	4.11	1.331902	1.094181		-17.8	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.73	1.485856	1.703791		14.7	30
Methylene Chloride	A	5.00	4.44	0.8718752	0.7745109		-11.2	30
4-Methyl-2-pentanone (MIBK)	A	5.00	3.90	0.5280853	0.4116712		-22.0	30
Naphthalene	A	5.00	3.09	0.8097238	0.4998175		-38.3	30 *
Propene	A	5.00	3.81	0.6694116	0.510304		-23.8	30
Styrene	A	5.00	5.11	0.6161769	0.629842		2.2	30
1,1,2,2-Tetrachloroethane	A	5.00	3.80	0.8728764	0.6630457		-24.0	30
Tetrachloroethylene	A	5.00	4.19	0.4248838	0.3559978		-16.2	30
Tetrahydrofuran	A	5.00	5.38	0.2426183	0.2613146		7.7	30
Toluene	A	5.00	5.27	0.8496792	0.8953085		5.4	30
1,2,4-Trichlorobenzene	A	5.00	3.19	0.3770874	0.2408833		-36.1	30 *
1,1,1-Trichloroethane	A	5.00	4.22	0.5826866	0.4915936		-15.6	30
1,1,2-Trichloroethane	A	5.00	4.10	0.3885097	0.3187176		-18.0	30
Trichloroethylene	A	5.00	4.62	0.336337	0.3105244		-7.7	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.21	1.696458	1.76774		4.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.96	1.596114	1.582448		-0.9	30
1,2,4-Trimethylbenzene	A	5.00	5.07	0.8998802	0.9131283		1.5	30
1,3,5-Trimethylbenzene	A	5.00	5.11	0.9666427	0.988513		2.3	30
Vinyl Acetate	A	5.00	4.25	1.605446	1.365621		-14.9	30
Vinyl Chloride	A	5.00	4.25	0.7512303	0.6381077		-15.1	30
m&p-Xylene	A	10.0	11.4	0.8167711	0.9313236		14.0	30
o-Xylene	A	5.00	5.55	0.8322358	0.9230752		10.9	30

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

22 F 1705

# Internal Transfer Chain of Custody



Samples Pre-Logged into eCOC.

State Of Origin: NY

Cert. Needed:  Yes  No

Owner Received Date: 6/21/2022 Results Requested By: 7/6/2022

Workorder: 70219215 Workorder Name: MINMILT/MIN1001 6/21

Report To: Subcontract To

Giovanna F. Deloca  
Pace Analytical Melville  
575 Broad Hollow Road  
Melville, NY 11747  
Phone (631)694-3040

Pace New England  
39 Spruce St.  
East Longmeadow, MA 01028  
Phone (413)525-2332

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers			LAB USE ONLY	
						Other				
1	SVE-INF	PS	6/21/2022 11:00	70219215001	Air				X	
2										
3										
4										
5										

Transfers	Released By	Received By	Date/Time	Date/Time
1	<i>[Signature]</i>	<i>[Signature]</i>	6/23/22 18:00	6/21/2022
2				
3				

Cooler Temperature on Receipt	°C	Custody Seal	Y or N	Received on Ice	Y or N	Samples Intact	Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
This chain of custody is considered complete as is since this information is available in the owner laboratory.

DOC #378 REV3\_1:232021

http://www.pacelabs.com

39 Spruce Street  
East Longmeadow, MA 01028

Phone: 413-525-2332  
Fax: 413-525-6405  
www.pacelabs.com

CHART OF CUSTODY RECORD (AIR)

Page 1 of 1

**ANALYSIS REQUESTED**

**Standard**

7-Day  10-Day   
Due Date: Standard

1-Day  3-Day   
2-Day  4-Day

Format: PDF  EXCEL   
Other:

CLP Like Data Pig Required:

Email To:

Fax To #:

**Lab Receipt Pressure**

Initial Pressure: 70-15

Final Pressure: 70-5

Lab Receipt Pressure: 70-15

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply.

For Summa canister and flow controller information please refer to Con-Test's Air Media Agreement.

Summa Can ID: 1323 Flow Controller ID: 7119

Summa Can ID: 1323 Flow Controller ID: 7119

**NO# : 70219215**

**70219215**

**Comments:**

Please use the following codes to indicate possible sample concentration within the Conc Code column above:  
H - High; M - Medium; L - Low; C - Clean; U - Unknown

**Matrix Codes:**  
SG = SOIL GAS  
IA = INDOOR AIR  
AMB = AMBIENT  
SS = SUB SLAB  
D = DUP  
BL = BLANK  
O = Other

**Retinquired by: (signature)** [Signature] Date/Time: 6-21-22 11:14

**Received by: (signature)** [Signature] Date/Time: 6/21/22 11:15

**Retinquired by: (signature)** [Signature] Date/Time: 6/21/22 11:15

**Received by: (signature)** [Signature] Date/Time: 6/21/22 11:15

**Retinquired by: (signature)** [Signature] Date/Time: 6/21/22 11:15

**Received by: (signature)** [Signature] Date/Time: 6/21/22 11:15

**Retinquired by: (signature)** [Signature] Date/Time: 6/21/22 11:15

**Received by: (signature)** [Signature] Date/Time: 6/21/22 11:15

**Project Entity:**  
Government  Federal  City   
Municipality  21 J  Brownfield   
AWRA  School  MBTA   
WRTA  Chromatogram  AIRA-LAP, LLC   
PCB ONLY  Soxhlet  Non Soxhlet

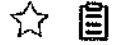
**NECAC and AHA-LAP, LLC Accredited**

**Face Analytical**

FedEx® Tracking



584490592489



ADD NICKNAME

Delivered  
Friday, 6/24/2022 at 10:12 am



**DELIVERED**

Signed for by: R.PETRAITIS

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

**FROM**  
MELVILLE, NY US

**TO**  
EAST LONGMEADOW, MA US

MANAGE DELIVERY

Travel History

**TIME ZONE**  
Local Scan Time



Friday, June 24, 2022

10:12 AM	EAST LONGMEADOW, MA	Delivered
7:46 AM	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:38 AM	WINDSOR LOCKS, CT	At local FedEx facility
3:09 AM	NEWARK, NJ	Departed FedEx hub

Thursday, June 23, 2022

10:03 PM	NEWARK, NJ	Departed FedEx hub
9:58 PM	NEWARK, NJ	Arrived at FedEx hub
8:42 PM	MELVILLE, NY	Left FedEx origin facility



I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples \_\_\_\_\_



**con-test**<sup>®</sup>  
ANALYTICAL LABORATORY

Doc# 278 Rev 6 2017

**Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client Psce

Received By W Date 6/24 Time 10:2

How were the samples received? In Cooler \_\_\_\_\_ On Ice \_\_\_\_\_ No Ice \_\_\_\_\_  
In Box T Ambient \_\_\_\_\_ Melted Ice \_\_\_\_\_

Were samples within Temperature Compliance? 2-6°C \_\_\_\_\_ By Gun # \_\_\_\_\_ Actual Temp - \_\_\_\_\_  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there any loose caps/valves on any samples? F

Is COC in ink/ Legible? T

Did COC Include all Client T Analysis T Sampler Name F  
Pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample Labels filled out and legible? T

Are there Rushes? F Who was notified? \_\_\_\_\_

Samples are received within holding time? T

Proper Media Used? T Individually Certified Cans? F  
Are there Trip Blanks? F Is there enough Volume? T

Condition	✓	✗	Required	Provided	Notes
Summa Cans	<u>T</u>	<u>WL</u>	<u>1</u>	<u>Grab</u>	Nut/Ferrule
Tedlar Bags					Tubing
TO-17 Tubes					T-Connector
Radiello					Syringe
Pufs/TO-11s					Tedlar

Sample ID	Volume	Media	Notes
<u>1323</u>			<u>7119</u>

**Comments:**

Lab pressure -5.2

## **APPENDIX E**

October 04, 2022

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

RE: Project: MINMILT/MIN1001 9/20  
Pace Project No.: 70230213

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



Giovanna F. Deloca  
giovanna.deloca@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

---

### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-1	Lab ID: 70230213001	Collected: 09/20/22 10:20	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/28/22 23:51	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/28/22 23:51	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/28/22 23:51	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/28/22 23:51	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/28/22 23:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/28/22 23:51	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/28/22 23:51	67-64-1	v3
Benzene	<0.70	ug/L	0.70	1		09/28/22 23:51	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/28/22 23:51	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/28/22 23:51	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/28/22 23:51	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		09/28/22 23:51	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/28/22 23:51	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/28/22 23:51	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/28/22 23:51	75-00-3	v3
Chloroform	<1.0	ug/L	1.0	1		09/28/22 23:51	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/28/22 23:51	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/28/22 23:51	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/28/22 23:51	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/28/22 23:51	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/28/22 23:51	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/28/22 23:51	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/28/22 23:51	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/28/22 23:51	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/28/22 23:51	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		09/28/22 23:51	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/28/22 23:51	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/28/22 23:51	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		09/28/22 23:51	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-118	1		09/28/22 23:51	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		09/28/22 23:51	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-2	Lab ID: 70230213002	Collected: 09/20/22 09:40	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:10	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 22:10	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 22:10	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 22:10	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 22:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 22:10	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 22:10	67-64-1	v1
Benzene	<0.70	ug/L	0.70	1		09/29/22 22:10	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 22:10	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 22:10	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 22:10	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 22:10	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 22:10	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 22:10	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 22:10	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/29/22 22:10	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 22:10	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 22:10	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 22:10	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 22:10	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 22:10	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/29/22 22:10	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 22:10	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:10	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 22:10	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 22:10	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:10	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:10	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	91	%	81-122	1		09/29/22 22:10	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		09/29/22 22:10	460-00-4	
Toluene-d8 (S)	104	%	82-122	1		09/29/22 22:10	2037-26-5	

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-3	Lab ID: 70230213003	Collected: 09/20/22 11:00	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:29	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 22:29	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 22:29	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 22:29	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 22:29	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 22:29	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 22:29	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/29/22 22:29	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 22:29	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 22:29	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 22:29	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 22:29	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 22:29	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 22:29	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 22:29	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/29/22 22:29	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 22:29	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 22:29	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 22:29	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 22:29	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 22:29	100-42-5	
Tetrachloroethene	2.0	ug/L	1.0	1		09/29/22 22:29	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 22:29	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:29	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 22:29	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 22:29	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:29	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:29	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		09/29/22 22:29	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		09/29/22 22:29	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		09/29/22 22:29	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-4	Lab ID: 70230213004	Collected: 09/20/22 07:25	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:49	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 22:49	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 22:49	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 22:49	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 22:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 22:49	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 22:49	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/29/22 22:49	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 22:49	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 22:49	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 22:49	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 22:49	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 22:49	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 22:49	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 22:49	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/29/22 22:49	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 22:49	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 22:49	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 22:49	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 22:49	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 22:49	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/29/22 22:49	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 22:49	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 22:49	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 22:49	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 22:49	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:49	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 22:49	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		09/29/22 22:49	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		09/29/22 22:49	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		09/29/22 22:49	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-5	Lab ID: 70230213005	Collected: 09/20/22 10:00	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:08	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 23:08	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 23:08	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 23:08	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 23:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 23:08	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 23:08	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/29/22 23:08	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 23:08	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 23:08	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 23:08	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 23:08	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 23:08	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 23:08	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 23:08	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/29/22 23:08	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 23:08	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 23:08	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 23:08	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 23:08	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 23:08	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/29/22 23:08	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 23:08	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:08	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 23:08	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 23:08	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:08	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:08	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		09/29/22 23:08	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		09/29/22 23:08	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		09/29/22 23:08	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-6	Lab ID: 70230213006	Collected: 09/20/22 11:40	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:27	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 23:27	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 23:27	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 23:27	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 23:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 23:27	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 23:27	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/29/22 23:27	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 23:27	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 23:27	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 23:27	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 23:27	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 23:27	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 23:27	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 23:27	75-00-3	
Chloroform	1.4	ug/L	1.0	1		09/29/22 23:27	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 23:27	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 23:27	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 23:27	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 23:27	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 23:27	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/29/22 23:27	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 23:27	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:27	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 23:27	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 23:27	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:27	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:27	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		09/29/22 23:27	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		09/29/22 23:27	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		09/29/22 23:27	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-8	Lab ID: 70230213007	Collected: 09/20/22 07:00	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:46	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/29/22 23:46	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/29/22 23:46	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/29/22 23:46	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/29/22 23:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/29/22 23:46	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/29/22 23:46	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/29/22 23:46	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/29/22 23:46	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/29/22 23:46	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/29/22 23:46	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/29/22 23:46	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/29/22 23:46	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/29/22 23:46	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/29/22 23:46	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/29/22 23:46	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/29/22 23:46	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/29/22 23:46	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/29/22 23:46	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/29/22 23:46	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/29/22 23:46	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/29/22 23:46	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/29/22 23:46	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/29/22 23:46	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/29/22 23:46	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/29/22 23:46	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:46	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/29/22 23:46	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		09/29/22 23:46	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		09/29/22 23:46	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		09/29/22 23:46	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: MW-9	Lab ID: 70230213008	Collected: 09/20/22 09:00	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:05	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 00:05	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 00:05	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 00:05	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 00:05	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 00:05	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 00:05	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 00:05	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 00:05	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 00:05	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 00:05	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 00:05	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 00:05	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 00:05	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 00:05	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 00:05	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 00:05	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 00:05	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 00:05	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 00:05	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 00:05	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/30/22 00:05	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 00:05	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:05	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 00:05	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 00:05	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:05	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:05	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	81-122	1		09/30/22 00:05	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		09/30/22 00:05	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		09/30/22 00:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: GW-1	Lab ID: 70230213009	Collected: 09/20/22 12:35	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:24	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 00:24	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 00:24	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 00:24	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 00:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 00:24	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 00:24	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 00:24	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 00:24	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 00:24	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 00:24	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 00:24	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 00:24	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 00:24	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 00:24	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 00:24	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 00:24	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 00:24	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 00:24	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 00:24	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 00:24	100-42-5	
Tetrachloroethene	1.4	ug/L	1.0	1		09/30/22 00:24	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 00:24	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:24	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 00:24	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 00:24	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:24	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:24	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	91	%	81-122	1		09/30/22 00:24	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		09/30/22 00:24	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		09/30/22 00:24	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: GW-2	Lab ID: 70230213010	Collected: 09/20/22 13:45	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:44	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 00:44	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 00:44	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 00:44	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 00:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 00:44	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 00:44	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 00:44	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 00:44	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 00:44	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 00:44	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 00:44	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 00:44	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 00:44	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 00:44	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 00:44	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 00:44	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 00:44	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 00:44	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 00:44	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 00:44	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/30/22 00:44	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 00:44	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 00:44	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 00:44	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 00:44	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:44	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 00:44	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		09/30/22 00:44	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		09/30/22 00:44	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		09/30/22 00:44	2037-26-5	

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### ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: <b>GW-3</b>	Lab ID: <b>70230213011</b>	Collected: 09/20/22 13:30	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:03	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 01:03	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 01:03	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 01:03	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 01:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 01:03	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 01:03	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 01:03	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 01:03	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 01:03	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 01:03	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 01:03	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 01:03	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 01:03	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 01:03	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 01:03	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 01:03	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 01:03	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 01:03	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 01:03	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 01:03	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/30/22 01:03	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 01:03	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:03	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 01:03	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 01:03	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:03	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:03	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		09/30/22 01:03	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		09/30/22 01:03	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		09/30/22 01:03	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: SP-3	Lab ID: 70230213012	Collected: 09/20/22 12:55	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:22	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 01:22	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 01:22	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 01:22	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 01:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 01:22	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 01:22	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 01:22	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 01:22	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 01:22	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 01:22	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 01:22	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 01:22	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 01:22	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 01:22	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 01:22	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 01:22	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 01:22	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 01:22	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 01:22	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 01:22	100-42-5	
Tetrachloroethene	1.5	ug/L	1.0	1		09/30/22 01:22	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 01:22	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:22	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 01:22	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 01:22	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:22	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:22	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		09/30/22 01:22	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		09/30/22 01:22	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		09/30/22 01:22	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: SP-4	Lab ID: 70230213013	Collected: 09/20/22 13:15	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:41	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 01:41	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 01:41	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 01:41	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 01:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 01:41	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 01:41	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 01:41	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 01:41	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 01:41	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 01:41	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 01:41	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 01:41	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 01:41	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 01:41	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 01:41	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 01:41	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 01:41	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 01:41	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 01:41	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 01:41	100-42-5	
Tetrachloroethene	2.2	ug/L	1.0	1		09/30/22 01:41	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 01:41	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 01:41	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 01:41	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 01:41	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:41	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 01:41	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		09/30/22 01:41	17060-07-0	
4-Bromofluorobenzene (S)	105	%	79-118	1		09/30/22 01:41	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		09/30/22 01:41	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: SP-6	Lab ID: 70230213014	Collected: 09/20/22 14:00	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:00	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 02:00	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 02:00	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 02:00	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 02:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 02:00	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 02:00	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 02:00	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 02:00	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 02:00	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 02:00	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 02:00	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 02:00	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 02:00	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 02:00	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 02:00	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 02:00	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 02:00	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 02:00	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 02:00	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 02:00	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/30/22 02:00	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 02:00	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:00	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 02:00	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 02:00	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:00	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:00	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	92	%	81-122	1		09/30/22 02:00	17060-07-0	
4-Bromofluorobenzene (S)	108	%	79-118	1		09/30/22 02:00	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		09/30/22 02:00	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: SCDHS	Lab ID: 70230213015	Collected: 09/20/22 14:35	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:19	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 02:19	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 02:19	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 02:19	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 02:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 02:19	108-10-1	
Acetone	17.4	ug/L	5.0	1		09/30/22 02:19	67-64-1	v1
Benzene	<0.70	ug/L	0.70	1		09/30/22 02:19	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 02:19	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 02:19	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 02:19	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 02:19	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 02:19	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 02:19	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 02:19	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 02:19	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 02:19	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 02:19	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 02:19	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 02:19	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 02:19	100-42-5	
Tetrachloroethene	1.0	ug/L	1.0	1		09/30/22 02:19	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 02:19	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:19	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		09/30/22 02:19	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 02:19	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:19	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:19	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	81-122	1		09/30/22 02:19	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		09/30/22 02:19	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		09/30/22 02:19	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: ML-1A	Lab ID: 70230213016	Collected: 09/20/22 14:15	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:38	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	107-06-2	
1,2-Dichloroethene (Total)	4.1	ug/L	2.0	1		09/30/22 02:38	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 02:38	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 02:38	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 02:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 02:38	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 02:38	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 02:38	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 02:38	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 02:38	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 02:38	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 02:38	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 02:38	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 02:38	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 02:38	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 02:38	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 02:38	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 02:38	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 02:38	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 02:38	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 02:38	100-42-5	
Tetrachloroethene	2.7	ug/L	1.0	1		09/30/22 02:38	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 02:38	108-88-3	
Trichloroethene	8.3	ug/L	1.0	1		09/30/22 02:38	79-01-6	
Vinyl chloride	4.3	ug/L	1.0	1		09/30/22 02:38	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 02:38	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:38	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:38	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		09/30/22 02:38	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		09/30/22 02:38	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		09/30/22 02:38	2037-26-5	

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: ML-1B	Lab ID: 70230213017	Collected: 09/20/22 14:20	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 02:58	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	107-06-2	
1,2-Dichloroethene (Total)	126	ug/L	2.0	1		09/30/22 02:58	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 02:58	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 02:58	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 02:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 02:58	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 02:58	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 02:58	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 02:58	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 02:58	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 02:58	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 02:58	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 02:58	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 02:58	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 02:58	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 02:58	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 02:58	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 02:58	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 02:58	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 02:58	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 02:58	100-42-5	
Tetrachloroethene	1.1	ug/L	1.0	1		09/30/22 02:58	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 02:58	108-88-3	
Trichloroethene	14.5	ug/L	1.0	1		09/30/22 02:58	79-01-6	
Vinyl chloride	5.0	ug/L	1.0	1		09/30/22 02:58	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 02:58	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:58	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 02:58	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		09/30/22 02:58	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		09/30/22 02:58	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		09/30/22 02:58	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Sample: ML-1C	Lab ID: 70230213018	Collected: 09/20/22 14:25	Received: 09/20/22 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		09/30/22 03:17	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	107-06-2	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		09/30/22 03:17	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		09/30/22 03:17	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		09/30/22 03:17	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		09/30/22 03:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		09/30/22 03:17	108-10-1	
Acetone	<5.0	ug/L	5.0	1		09/30/22 03:17	67-64-1	
Benzene	<0.70	ug/L	0.70	1		09/30/22 03:17	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		09/30/22 03:17	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		09/30/22 03:17	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		09/30/22 03:17	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		09/30/22 03:17	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		09/30/22 03:17	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		09/30/22 03:17	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		09/30/22 03:17	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		09/30/22 03:17	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		09/30/22 03:17	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		09/30/22 03:17	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		09/30/22 03:17	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		09/30/22 03:17	75-09-2	
Styrene	<1.0	ug/L	1.0	1		09/30/22 03:17	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		09/30/22 03:17	127-18-4	
Toluene	<1.0	ug/L	1.0	1		09/30/22 03:17	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		09/30/22 03:17	79-01-6	
Vinyl chloride	2.5	ug/L	1.0	1		09/30/22 03:17	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		09/30/22 03:17	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 03:17	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		09/30/22 03:17	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		09/30/22 03:17	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		09/30/22 03:17	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		09/30/22 03:17	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20  
Pace Project No.: 70230213

QC Batch: 275579 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70230213001

METHOD BLANK: 1392614 Matrix: Water  
Associated Lab Samples: 70230213001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/28/22 16:52	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/28/22 16:52	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	09/28/22 16:52	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/28/22 16:52	
2-Butanone (MEK)	ug/L	<5.0	5.0	09/28/22 16:52	IL
2-Hexanone	ug/L	<5.0	5.0	09/28/22 16:52	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	09/28/22 16:52	
Acetone	ug/L	<5.0	5.0	09/28/22 16:52	v3
Benzene	ug/L	<0.70	0.70	09/28/22 16:52	
Bromodichloromethane	ug/L	<1.0	1.0	09/28/22 16:52	
Bromoform	ug/L	<1.0	1.0	09/28/22 16:52	
Bromomethane	ug/L	<1.0	1.0	09/28/22 16:52	v3
Carbon disulfide	ug/L	<1.0	1.0	09/28/22 16:52	
Carbon tetrachloride	ug/L	<1.0	1.0	09/28/22 16:52	
Chlorobenzene	ug/L	<1.0	1.0	09/28/22 16:52	
Chloroethane	ug/L	<1.0	1.0	09/28/22 16:52	v3
Chloroform	ug/L	<1.0	1.0	09/28/22 16:52	
Chloromethane	ug/L	<1.0	1.0	09/28/22 16:52	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	09/28/22 16:52	
Dibromochloromethane	ug/L	<1.0	1.0	09/28/22 16:52	
Ethylbenzene	ug/L	<1.0	1.0	09/28/22 16:52	
Methylene Chloride	ug/L	<1.0	1.0	09/28/22 16:52	
Styrene	ug/L	<1.0	1.0	09/28/22 16:52	
Tetrachloroethene	ug/L	<1.0	1.0	09/28/22 16:52	
Toluene	ug/L	<1.0	1.0	09/28/22 16:52	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	09/28/22 16:52	
Trichloroethene	ug/L	<1.0	1.0	09/28/22 16:52	
Vinyl chloride	ug/L	<1.0	1.0	09/28/22 16:52	v3
Xylene (Total)	ug/L	<3.0	3.0	09/28/22 16:52	
1,2-Dichloroethane-d4 (S)	%	94	81-122	09/28/22 16:52	
4-Bromofluorobenzene (S)	%	103	79-118	09/28/22 16:52	
Toluene-d8 (S)	%	104	82-122	09/28/22 16:52	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

LABORATORY CONTROL SAMPLE: 1392615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.1	94	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	46.3	93	70-127	
1,1,2-Trichloroethane	ug/L	50	53.1	106	81-119	
1,1-Dichloroethane	ug/L	50	44.8	90	72-126	
1,1-Dichloroethene	ug/L	50	44.0	88	66-133	
1,2-Dichloroethane	ug/L	50	44.3	89	69-134	
1,2-Dichloroethene (Total)	ug/L	100	102	102	69-123	
1,2-Dichloropropane	ug/L	50	47.5	95	75-125	
2-Butanone (MEK)	ug/L	50	38.8	78	33-165 IL	
2-Hexanone	ug/L	50	40.4	81	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.9	96	62-131	
Acetone	ug/L	50	33.1	66	14-156 v3	
Benzene	ug/L	50	48.8	98	78-117	
Bromodichloromethane	ug/L	50	50.9	102	80-123	
Bromoform	ug/L	50	54.3	109	49-138	
Bromomethane	ug/L	50	38.2	76	10-143 v3	
Carbon disulfide	ug/L	50	40.0	80	66-133	
Carbon tetrachloride	ug/L	50	47.6	95	64-135	
Chlorobenzene	ug/L	50	53.8	108	79-117	
Chloroethane	ug/L	50	38.3	77	31-156 v3	
Chloroform	ug/L	50	46.9	94	79-123	
Chloromethane	ug/L	50	28.2	56	39-116 v3	
cis-1,3-Dichloropropene	ug/L	50	51.2	102	78-131	
Dibromochloromethane	ug/L	50	53.8	108	65-123	
Ethylbenzene	ug/L	50	54.5	109	79-115	
Methylene Chloride	ug/L	50	44.9	90	67-123	
Styrene	ug/L	50	58.2	116	82-121	
Tetrachloroethene	ug/L	50	49.5	99	65-120	
Toluene	ug/L	50	52.8	106	80-114	
trans-1,3-Dichloropropene	ug/L	50	50.1	100	73-135	
Trichloroethene	ug/L	50	49.5	99	79-115	
Vinyl chloride	ug/L	50	35.9	72	49-118 v3	
Xylene (Total)	ug/L	150	168	112	80-118	
1,2-Dichloroethane-d4 (S)	%			86	81-122	
4-Bromofluorobenzene (S)	%			105	79-118	
Toluene-d8 (S)	%			103	82-122	

MATRIX SPIKE SAMPLE: 1392882

Parameter	Units	70231283001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	53.3	107	72-123	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	48.3	97	64-133	
1,1,2-Trichloroethane	ug/L	<1.0	50	54.1	108	78-120	
1,1-Dichloroethane	ug/L	<1.0	50	37.1	74	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	46.2	92	61-139	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

MATRIX SPIKE SAMPLE: 1392882		70231283001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	43.3	87	58-138	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	96.0	96	59-133	
1,2-Dichloropropane	ug/L	<1.0	50	50.8	102	74-122	
2-Butanone (MEK)	ug/L	8.9	50	45.1	72	33-148	IL
2-Hexanone	ug/L	10.6	50	53.6	86	49-124	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	48.6	97	60-136	
Acetone	ug/L	152	50	161	19	35-112	M1,v3
Benzene	ug/L	15.9	50	69.5	107	70-130	
Bromodichloromethane	ug/L	<1.0	50	50.1	100	74-122	
Bromoform	ug/L	<1.0	50	52.5	105	39-139	
Bromomethane	ug/L	<1.0	50	37.3	75	10-130	v3
Carbon disulfide	ug/L	<1.0	50	41.7	83	60-129	
Carbon tetrachloride	ug/L	<1.0	50	52.7	105	56-143	
Chlorobenzene	ug/L	<1.0	50	58.1	116	74-122	
Chloroethane	ug/L	<1.0	50	40.9	82	35-146	v3
Chloroform	ug/L	<1.0	50	50.2	100	71-129	
Chloromethane	ug/L	<1.0	50	30.3	61	29-112	v3
cis-1,3-Dichloropropene	ug/L	<1.0	50	52.4	105	67-130	
Dibromochloromethane	ug/L	<1.0	50	54.1	108	55-126	
Ethylbenzene	ug/L	<1.0	50	59.0	118	70-126	
Methylene Chloride	ug/L	<1.0	50	39.6	79	69-117	
Styrene	ug/L	<1.0	50	62.3	125	79-123	M1
Tetrachloroethene	ug/L	<1.0	50	56.6	113	64-124	E
Toluene	ug/L	5.4	50	61.5	112	76-123	
trans-1,3-Dichloropropene	ug/L	<1.0	50	49.2	98	61-130	
Trichloroethene	ug/L	<1.0	50	56.0	112	73-125	
Vinyl chloride	ug/L	<1.0	50	37.2	74	33-127	v3
Xylene (Total)	ug/L	<3.0	150	181	121	78-123	
1,2-Dichloroethane-d4 (S)	%				86	81-122	
4-Bromofluorobenzene (S)	%				100	79-118	
Toluene-d8 (S)	%				100	82-122	

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

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QC Batch:	275778	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70230213002, 70230213003, 70230213004, 70230213005, 70230213006, 70230213007, 70230213008, 70230213009, 70230213010, 70230213011, 70230213012, 70230213013, 70230213014, 70230213015, 70230213016, 70230213017, 70230213018

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METHOD BLANK: 1393345 Matrix: Water

Associated Lab Samples: 70230213002, 70230213003, 70230213004, 70230213005, 70230213006, 70230213007, 70230213008, 70230213009, 70230213010, 70230213011, 70230213012, 70230213013, 70230213014, 70230213015, 70230213016, 70230213017, 70230213018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/29/22 20:54	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	09/29/22 20:54	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/29/22 20:54	
2-Butanone (MEK)	ug/L	<5.0	5.0	09/29/22 20:54	IL
2-Hexanone	ug/L	<5.0	5.0	09/29/22 20:54	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	09/29/22 20:54	
Acetone	ug/L	<5.0	5.0	09/29/22 20:54	
Benzene	ug/L	<0.70	0.70	09/29/22 20:54	
Bromodichloromethane	ug/L	<1.0	1.0	09/29/22 20:54	
Bromoform	ug/L	<1.0	1.0	09/29/22 20:54	
Bromomethane	ug/L	<1.0	1.0	09/29/22 20:54	
Carbon disulfide	ug/L	<1.0	1.0	09/29/22 20:54	
Carbon tetrachloride	ug/L	<1.0	1.0	09/29/22 20:54	
Chlorobenzene	ug/L	<1.0	1.0	09/29/22 20:54	
Chloroethane	ug/L	<1.0	1.0	09/29/22 20:54	
Chloroform	ug/L	<1.0	1.0	09/29/22 20:54	
Chloromethane	ug/L	<1.0	1.0	09/29/22 20:54	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	09/29/22 20:54	
Dibromochloromethane	ug/L	<1.0	1.0	09/29/22 20:54	
Ethylbenzene	ug/L	<1.0	1.0	09/29/22 20:54	
Methylene Chloride	ug/L	<1.0	1.0	09/29/22 20:54	
Styrene	ug/L	<1.0	1.0	09/29/22 20:54	
Tetrachloroethene	ug/L	<1.0	1.0	09/29/22 20:54	
Toluene	ug/L	<1.0	1.0	09/29/22 20:54	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	09/29/22 20:54	
Trichloroethene	ug/L	<1.0	1.0	09/29/22 20:54	
Vinyl chloride	ug/L	<1.0	1.0	09/29/22 20:54	
Xylene (Total)	ug/L	<3.0	3.0	09/29/22 20:54	
1,2-Dichloroethane-d4 (S)	%	99	81-122	09/29/22 20:54	
4-Bromofluorobenzene (S)	%	100	79-118	09/29/22 20:54	
Toluene-d8 (S)	%	102	82-122	09/29/22 20:54	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20  
Pace Project No.: 70230213

LABORATORY CONTROL SAMPLE: 1393346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.4	97	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	46.0	92	70-127	
1,1,2-Trichloroethane	ug/L	50	53.5	107	81-119	
1,1-Dichloroethane	ug/L	50	43.3	87	72-126	
1,1-Dichloroethene	ug/L	50	52.6	105	66-133	
1,2-Dichloroethane	ug/L	50	43.5	87	69-134	
1,2-Dichloroethene (Total)	ug/L	100	92.5	93	69-123	
1,2-Dichloropropane	ug/L	50	46.8	94	75-125	
2-Butanone (MEK)	ug/L	50	41.1	82	33-165 IL	
2-Hexanone	ug/L	50	41.8	84	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.9	98	62-131	
Acetone	ug/L	50	51.7	103	14-156 v1	
Benzene	ug/L	50	49.5	99	78-117	
Bromodichloromethane	ug/L	50	48.7	97	80-123	
Bromoform	ug/L	50	54.0	108	49-138	
Bromomethane	ug/L	50	41.0	82	10-143	
Carbon disulfide	ug/L	50	47.2	94	66-133	
Carbon tetrachloride	ug/L	50	48.2	96	64-135	
Chlorobenzene	ug/L	50	53.3	107	79-117	
Chloroethane	ug/L	50	42.3	85	31-156	
Chloroform	ug/L	50	45.8	92	79-123	
Chloromethane	ug/L	50	38.1	76	39-116 v3	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	78-131	
Dibromochloromethane	ug/L	50	52.3	105	65-123	
Ethylbenzene	ug/L	50	53.7	107	79-115	
Methylene Chloride	ug/L	50	44.7	89	67-123	
Styrene	ug/L	50	57.7	115	82-121	
Tetrachloroethene	ug/L	50	51.0	102	65-120 E	
Toluene	ug/L	50	53.0	106	80-114	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	73-135	
Trichloroethene	ug/L	50	51.1	102	79-115	
Vinyl chloride	ug/L	50	40.5	81	49-118	
Xylene (Total)	ug/L	150	167	112	80-118	
1,2-Dichloroethane-d4 (S)	%			87	81-122	
4-Bromofluorobenzene (S)	%			100	79-118	
Toluene-d8 (S)	%			101	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1393947 1393948

Parameter	Units	70230213002		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result					
1,1,1-Trichloroethane	ug/L	<1.0	50	50	53.7	53.1	107	106	72-123	1		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	49.0	48.9	98	98	64-133	0		
1,1,2-Trichloroethane	ug/L	<1.0	50	50	56.1	55.3	112	111	78-120	1		
1,1-Dichloroethane	ug/L	<1.0	50	50	49.5	48.3	99	97	70-124	2		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Parameter	70230213002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
1,1-Dichloroethene	ug/L	<1.0	50	50	55.4	54.5	111	109	61-139	2				
1,2-Dichloroethane	ug/L	<1.0	50	50	48.5	46.0	97	92	58-138	5				
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	107	101	107	101	59-133	6				
1,2-Dichloropropane	ug/L	<1.0	50	50	50.9	50.3	102	101	74-122	1				
2-Butanone (MEK)	ug/L	<5.0	50	50	39.3	39.2	79	78	33-148	0	IL			
2-Hexanone	ug/L	<5.0	50	50	43.4	44.1	87	88	49-124	2				
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	49.5	50.5	99	101	60-136	2				
Acetone	ug/L	<5.0	50	50	42.7	42.2	81	80	35-112	1	v1			
Benzene	ug/L	<0.70	50	50	55.3	54.0	111	108	70-130	2				
Bromodichloromethane	ug/L	<1.0	50	50	51.9	52.2	104	104	74-122	1				
Bromoform	ug/L	<1.0	50	50	54.9	56.4	110	113	39-139	3				
Bromomethane	ug/L	<1.0	50	50	42.2	42.8	84	86	10-130	1				
Carbon disulfide	ug/L	<1.0	50	50	56.1	50.1	112	100	60-129	11				
Carbon tetrachloride	ug/L	<1.0	50	50	52.7	53.1	105	106	56-143	1				
Chlorobenzene	ug/L	<1.0	50	50	58.3	55.8	117	112	74-122	4				
Chloroethane	ug/L	<1.0	50	50	51.8	51.9	104	104	35-146	0				
Chloroform	ug/L	<1.0	50	50	52.4	50.7	105	101	71-129	3				
Chloromethane	ug/L	<1.0	50	50	37.8	37.7	76	75	29-112	0	v3			
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	51.5	51.5	103	103	67-130	0				
Dibromochloromethane	ug/L	<1.0	50	50	55.5	55.3	111	111	55-126	0				
Ethylbenzene	ug/L	<1.0	50	50	58.3	56.0	117	112	70-126	4				
Methylene Chloride	ug/L	<1.0	50	50	47.4	47.3	95	95	69-117	0				
Styrene	ug/L	<1.0	50	50	61.3	59.2	123	118	79-123	3				
Tetrachloroethene	ug/L	<1.0	50	50	55.4	52.7	111	105	64-124	5	E			
Toluene	ug/L	<1.0	50	50	56.4	55.2	113	110	76-123	2				
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	50.0	49.1	100	98	61-130	2				
Trichloroethene	ug/L	<1.0	50	50	55.8	54.6	112	109	73-125	2				
Vinyl chloride	ug/L	<1.0	50	50	44.1	41.5	88	83	33-127	6				
Xylene (Total)	ug/L	<3.0	150	150	179	173	119	115	78-123	3				
1,2-Dichloroethane-d4 (S)	%						87	89	81-122					
4-Bromofluorobenzene (S)	%						105	104	79-118					
Toluene-d8 (S)	%						103	100	82-122					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

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### 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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported 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.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT/MIN1001 9/20

Pace Project No.: 70230213

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70230213001	MW-1	EPA 8260C/5030C	275579		
70230213002	MW-2	EPA 8260C/5030C	275778		
70230213003	MW-3	EPA 8260C/5030C	275778		
70230213004	MW-4	EPA 8260C/5030C	275778		
70230213005	MW-5	EPA 8260C/5030C	275778		
70230213006	MW-6	EPA 8260C/5030C	275778		
70230213007	MW-8	EPA 8260C/5030C	275778		
70230213008	MW-9	EPA 8260C/5030C	275778		
70230213009	GW-1	EPA 8260C/5030C	275778		
70230213010	GW-2	EPA 8260C/5030C	275778		
70230213011	GW-3	EPA 8260C/5030C	275778		
70230213012	SP-3	EPA 8260C/5030C	275778		
70230213013	SP-4	EPA 8260C/5030C	275778		
70230213014	SP-6	EPA 8260C/5030C	275778		
70230213015	SCDHS	EPA 8260C/5030C	275778		
70230213016	ML-1A	EPA 8260C/5030C	275778		
70230213017	ML-1B	EPA 8260C/5030C	275778		
70230213018	ML-1C	EPA 8260C/5030C	275778		

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**CHAIN-OF-CUSTODY Analytical Request Document**

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pace-standard-terms.pdf>  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**WO# : 70230213**

70230213

Order Number or  
**EA ONLY GFD**

**Company:** PWC  
**Address:** 630 Johnson Ave, Bohemia, NY  
**Report To:** Kaitlyn Crosby  
**Copy To:** Kaitlyn Crosby

**Billing Information:**  
 Same as Client  
**Email To:** Krosby@pwcgrasser.com  
**Site Collection Info/Address:**  
 540 Smith Street  
 NY / Farmingdale

**Customer:** Project Name/Number: MFM/117 / MFM100  
 Phone: 631-584-6353  
**Collected By (print):** Kaitlyn Crosby  
**Collected By (signature):** *[Signature]*  
**Turnaround Date Required:** Standard  
**Rush:** (Expedite Charges Apply)  
 Same Day  Next Day  
 2 Day  3 Day  
 4 Day  5 Day  
 Dispose as appropriate  
 Return  
 Archive  
 Hold

**Time Zone Collected:** EST  
**Compliance Monitoring?**  
 Yes  No  
**DW PWS ID #:**  
**DW Location Code:**  
**Immediately Packed on Ice:**  
 Yes  No  
**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		Composite End Date	Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time					
MW-1	GW	Grab	<del>9-20-22</del>	<del>1020</del>	9-20-22	1020		2	G
MW-2					0940				
MW-3					1100				
MW-4					0725				
MW-5					1000				
MW-6					1140				
MW-8					0700				
MW-9					0920				
GW-1					1235				
GW-2					1845				

**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: Y N NA  
 Sample pH Acceptable: Y N NA  
 pH Strips: Y N NA  
 Sulfide Present: Y N NA  
 Lead Acetate Strips: Y N NA  
**LAB USE ONLY:**  
 Lab Sample # / Comments:

**Customer Remarks / Special Conditions / Possible Hazards:**  
 Type of Ice Used: water Blue Dry None  
 Packing Material Used: PBC NICEP  
 Radchem sample(s) screened (<500 cpm): Y N NA  
 Received by/Company: (Signature) Pace  
 Date/Time: 9-20-22-1505  
 Received by/Company: (Signature)  
 Date/Time:  
 Received by/Company: (Signature)  
 Date/Time:

**LAB Sample Temperature Info:**  
 Temp Blank Received: Y NA  
 Therm ID#: 5115  
 Cooler 1 Temp Upon Receipt: 5.0  
 Cooler 1 Therm Corr. Factor: 1.0  
 Cooler 1 Corrected Temp: 5.0  
 Comments:

**SHORT HOLDS PRESENT (<72 hours):** Y N N/A

Lab Tracking #:			
FEDEX	UPS	Courier	Pace Courier

Samples received via:  
 Date/Time: 9/20/22 15:05  
 Date/Time:  
 Date/Time:

**Relinquished by/Company: (Signature)**  
**Relinquished by/Company: (Signature)**  
**Relinquished by/Company: (Signature)**

**Relinquished by/Company: (Signature)**  
**Relinquished by/Company: (Signature)**  
**Relinquished by/Company: (Signature)**



# CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **PWGC**  
 Address: **630 Johnson Ave, Bering, NY**  
 Report To: **Kaitlyn Crosby**  
 Copy To: **Kaitlyn Crosby**  
 Billing Information: **Same as Client**  
 Email To: **Krosby@pwgrosser.com**  
 Site Collection Info/Address: **540 Smith Street**

Customer Project Name/Number: **MINMHT / MIN100**  
 Phone: **631-589-6353**  
 Email: **K.crosby@pwgrosser.com**  
 Site/Facility ID #: **NY / Farmingdale**  
 State: **NY** County/City: **Farmingdale** Time Zone Collected: **JPT** | **JMT** | **JCT** | **NET**  
 Compliance Monitoring? **[ ] Yes [ ] No**  
 DW PWS ID #: **Standard**  
 DW Location Code: **Standard**  
 Immediately Packed on Ice: **[ ] Yes [ ] No**  
 Field Filtered (if applicable): **[ ] Yes [ ] No**  
 Analysis: \_\_\_\_\_

Sample Disposal: **[ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold:**

\* 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)		Composite End Date	Time	Res Cl	# of Ctns
			Date	Time				
GW-3	GW	Grab	<del>9-20-22</del>	<del>1330</del>	<del>1330</del>	<del>1330</del>	<del>2</del>	<del>6</del>
SP-3				1255				
SP-4				1315				
SP-6				1400				
SC0HS				1435				
ML-1A				1415				
ML-1B				1420				
ML-1C				1425				

Customer Remarks / Special Conditions / Possible Hazards: **Wet Blue Dry None**

Type of Ice Used: **Wet Blue Dry None**  
 Packing Material Used: **BBL W/CUR**  
 Radchem sample(s) screened (<\$00 cpm): **Y N NA**

Relinquished by/Company: (Signature) **PWGC** Date/Time: **9-20-22 1505**  
 Received by/Company: (Signature) **PKC**  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

# WO#: 70230213

PM: **GFD** Due Date: **10/04/22**

CLIENT: **PWG**

ALL BOLD C

Container Preservat.

3  
 \*\* 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

Lab Profile/Line:	Lab Sample Receipt Checklist:
Custody Seals Present/Intact	<input checked="" type="checkbox"/> NA
Custody Signatures Present	<input checked="" type="checkbox"/> NA
Collector Signatures Present	<input checked="" type="checkbox"/> NA
Bottles Intact	<input checked="" type="checkbox"/> NA
Correct Bottles	<input checked="" type="checkbox"/> NA
Sufficient Volume	<input checked="" type="checkbox"/> NA
Samples Received on Ice	<input checked="" type="checkbox"/> NA
VOA - Headspace Acceptable	<input checked="" type="checkbox"/> NA
USDA Regulated Soils	<input checked="" type="checkbox"/> NA
Samples in Holding Time	<input checked="" type="checkbox"/> NA
Residual Chlorine Present	<input checked="" type="checkbox"/> NA
Cl Strips:	<input checked="" type="checkbox"/> NA
Sample pH Acceptable	<input checked="" type="checkbox"/> NA
pH Strips:	<input checked="" type="checkbox"/> NA
Sulfide Present	<input checked="" type="checkbox"/> NA
Lead Acetate Strips:	<input checked="" type="checkbox"/> NA
LAB USE ONLY:	
Lab Sample # / Comments:	

LAB Sample Temperature Info:  
 Temp Blank Received: **NA**  
 Therm ID#: **2147**  
 Cooler 1 Temp Upon Receipt: **5.8**  
 Cooler 1 Therm Corr. Factor: **1.00**  
 Cooler 1 Corrected Temp: **5.8**  
 Comments:

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**  
 Lab Tracking #: \_\_\_\_\_  
 Samples received via: **FEDEX UPS Client Courier Pace Courier**  
 Date/Time: **9/20/22 15:06**  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Table #: \_\_\_\_\_  
 Accnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PB: \_\_\_\_\_  
 Trip Blank Received: **Y N NA**  
 HCL MeOH TSP Other  
 Non Conformance(s): **Page: 2 of 2**  
 YES / NO