

540 SMITH STREET
FARMINGDALE, NEW YORK 11735
BLOCK 400, LOTS 8005 & 208
NYSDEC SITE NO. 1-52-147

OCTOBER 2022 TO DECEMBER 2023 PERIODIC REVIEW REPORT

SUBMITTED TO:



New York State Dept of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A
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MARCH 2024



PERIODIC REVIEW REPORT
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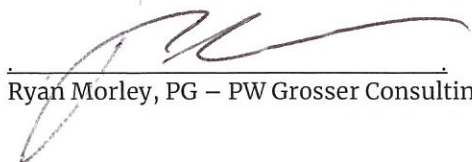
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CERTIFICATION

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 11, 2024



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 October 1, 2022, to December 31, 2023, in accordance with the February 2022 SMP and to certify that the controls in place are operating as designed. The site is classified by NYSDEC as a Class 4 Inactive Hazardous waste site after initially being classified as a Class 2 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 October 1, 2022, to December 31, 2023. 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 Groundwater Extraction and Treatment (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 the Upper Glacial recovery well having been off for a two-month period between June 2023 and August 2023; and both recovery wells being off for a two-week period in November 2023 for system maintenance, the GWE&T system remained active during this reporting period.

Influent air samples from the Soil Vapor Extraction (SVE) system have been collected semi-annually including December 2022, June 2023, and December 2023. 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 December 21, 2023.

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 in 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 remedial investigation (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, which remains in place.

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 a 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 bioremediation program. 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.

On June 15, 2023, an alarm was triggered on the control panel indicating that the pump in the Upper Glacial recovery well had broken. While corrective actions were being arranged, the pump in the Upper Glacial well remained deactivated until August 2023 while the pump in the Magothy well remained activated. On August 9 and 10, 2023, Delta Well and Pump treated both recovery wells with Aqua-Clear modified granular acid and scrubbed to break up iron fouling on the well screens. Following treatment, Delta Well and Pump replaced the pumps in each well. A new Grundfos DK-8850 3 horse-power pump was installed in the Magothy recovery well and a new Grundfos DK-8850 5 horse-power pump was installed in the Upper Glacial recovery well. The GWE&T system was reactivated on August 16, 2023, at which time it was observed that the pump within the Upper Glacial well was cavitating, which meant that the water drawdown level was reaching the pump. To mitigate the cavitation issue, the valve for the Upper Glacial Well's service pipe was adjusted to allow the flow rate to be lowered. At this time, no issues were observed at the Magothy Well. Delta Well and Pump performed a camera inspection of the Upper Glacial well on September 6, 2023, during which it was observed that significant iron fouling was entrained within the well screen's slots, inhibiting recharge. On November 9, 2023, Delta Well and Pump and PWGC remobilized to the Site perform nitrogen stripping treatment of the Upper Glacial well to further facilitate the removal of iron fouling in the well screen. Nitrogen stripping involved pulsing nitrogen air into the well at the screen dept to loosen the entrained iron and removing the loosened material from the well. The GWE&T system was reactivated at full capacity on November 21, 2023, following a repair to the piping within the Upper Glacial well manhole. Following activation, the recovery wells functioned properly, and the Upper Glacial well's valve was opened back to its usual position.



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:

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
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 th Quarter

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 4th 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 December 28, 2023, by Ryan Morley, a representative of PWGC along with Mr. Steven Scharf, the NYSDEC project manager for this site. 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 December 9, 2022; and March 22, June 15, September 27, and December 20, 2023. As previously noted in Section 2.0, the frequency of groundwater level gauging was reduced from monthly to quarterly during the 4th Quarter of 2019.

3.1.1 Groundwater Level Gauging Procedure 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 58.09 feet in groundwater monitoring well MW-3 (December 20, 2023) to 54.09 feet in groundwater monitoring well MW-4 (December 20, 2023). Refer to **Table 1 – October 2022 – December 2023 Groundwater Elevation Results**.

Data retrieved on December 20, 2023, 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 October 20, November 21, December 9, 2022; and January 24, February 10, March 22, April 17, May 24, July 27, September 27, October 11, November 30, and December 21, 2023. Additionally, influent samples from the individual Magothy Aquifer (MA) extraction well and Upper Glacial Aquifer (UGA) extraction well were collected on December 9, 2022; and March 22, September 27, and December 21, 2023. As noted previously, Only the Magothy well was active from June 2024 until August 2023 due to the pump within the Upper Glacial well breaking. As such no sampling GWE&T sampling was performed in June 2023 and the influent sample collected in July 2023 is only representative of groundwater extracted from the Magothy well.

3.2.1 Remedial System Sampling Procedure

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

3.2.2 GWE&T System Analytical Results

Influent and effluent samples were collected from the GWE&T system and analyzed for VOCs, 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. 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 1,867 µg/L in November 2023 to 710 µg/L in May 2023. Following the full-time reactivation of the system after the Upper glacial well cleaning in November 2023, TVOC concentrations in November and December 2023 were 1,867 ppb and 1,694 ppb, respectively. The fluctuations in TVOCs at the end of the reporting period are likely a result of the prior deactivation period and increased flowrates following maintenance of the Upper Glacial well.

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 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. Following the reactivation of the GWE&T system in July 2022, a decreasing trend in TVOC concentration was observed during the months that followed as TVOC concentrations decreased from 3,850 ppb in June 2022 to 710 ppb in May 2023. However, influent TVOC concentrations increased during the latter months of this reporting period ranging from 1,330 ppb in October 2023 to 1,867 in November 2023. It is likely that the periodic deactivation periods and maintenance performed on the recovery wells during the summer and fall of 2023 contributed to the increase in TVOC concentrations towards the end of this reporting period.



Since the GWE&T system's reactivation in July 2022, the percentage of breakdown compounds, namely DCE, has generally decreased and fluctuated. From October 2022 to December 2023, the percentage of the TVOC concentration attributed to DCE has ranged from 30.3% in October 2022 to 51.5% in May 2023. A summary of monthly influent sample results and the individual compound's percentage of the TVOC concentration is included as **Appendix C**.

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 in **Table 3**. The mass removal calculations are based upon analytical data obtained from October 2022 through December 2023. Approximately 40,866 pounds of PCE has been removed by the groundwater remedial system since it began operation, and approximately 414 pounds of PCE was removed during this reporting period. Approximately 44,324 pounds of TVOCs has been removed by the groundwater remedial system since it began operation, and approximately 744 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 lower average flow rate from iron fouling and from the lower concentrations of TVOCs detected during this reporting period compared to previous ones. The flow rate increased following the replacement of the pumps and well cleaning performed in the Fall of 2023.

Mass removal of PCE and TVOCs for the individual recovery wells is shown in **Table 4**. Historically, higher mass removals have occurred in the UGA. Following the bioremediation measures, the MA well began exhibiting higher rates of mass removal for PCE while the UGA continues to have higher rates of TVOC mass removal. Analytical data collected during this monitoring period is consistent with this observation and indicates 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 December 2023 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.

Combined system effluent VOC concentrations generally remained within historical ranges during this reporting period. However, increased concentrations of PCE and DCE were detected towards the end of this



reporting period as PCE was detected at a concentration of 6.7 µg/L and DCE was detected at a concentration of 45.4 µg/L in December of 2023. Due to the increased effluent concentrations of PCE and DCE at the end of the reporting period, the GWE&T system was deactivated, and corrective measures are being assessed.

During this reporting period, a steady decline in the system flow rate was noted between December 2022 (100 gallons-per-minute (gpm)) and May 2023 (77 gpm) before the pump in the Upper Glacial well became impaired in June 2023. This decreased flow rate and subsequent damage to the pump in the Upper Glacial well appeared to be associated with ironing fouling due to natural groundwater conditions, which has historically been observed in these recovery wells. In June 2023 the pump in the Upper Glacial extraction well stopped working which was likely caused by the motor in the pump burning out. The pumps for both the Upper Glacial and Magothy extraction wells were replaced and the two recovery wells were cleaned by a professional well and pump maintenance team on August 10, 2023. However, the new pump in the upper glacial well was observed to be cavitating following its installation. To mitigate the cavitation issue, the valve for the service pipe connecting the Upper Glacial well head to GWE&T system was closed slightly. With the new pump installed and the valve slightly closed, the flow rate of water being extracted from the Upper Glacial well was approximately 28 gpm. At this time, it was determined that a nitrogen air shock redevelopment of the Upper Glacial well would help clear up iron fouling entrained in the well's screen.

The nitrogen air shock redevelopment was performed on November 4th, 2023. Following this event, flow rates rebounded to approximately 44 gpm in the Upper Glacial and 110 gpm combined, which is within the targeted range for flow rates of the system. 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. The waste disposal manifest for the iron fouled water removed from the well is included in **Appendix D**. PWGC continues to monitor the flow and as further discussed in Section 4.0.

3.3 SVE System Sampling

Influent samples were collected from from the SVE system on December 21, 2022, June 21, 2023, and December 21, 2023.

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 E**.

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 in extracted soil vapor are reported as 1,875 µg/m³ in December 2022, 891 µg/m³ in June 2023, and 966 µg/m³ in December 2023, 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 in **Table 6**. The mass removal calculations are based on analytical data collected during this reporting period. Approximately 30.21 pounds of TVOCs have been removed by the SVE system during this reporting period. Approximately 5,621 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 0.0010 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 December 20, 2023, for this reporting period. With the exception SP-5, PWGC sampled each of the groundwater monitoring wells and the multi-level well as specified in the approved OM&M Program. Groundwater monitoring well SP-5 was not sampled because it was inaccessible. The sampling was performed in accordance with the procedures outlined in the SMP. Monitoring well locations are illustrated in **Figure 2**.

3.4.1 Groundwater Monitoring Well Procedure

Groundwater samples were collected from each monitoring well (with the exception of 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, redox potential, dissolved oxygen, 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 December 20, 2023, groundwater sampling for each well are presented in **Table 7 – December 20, 2023 Groundwater Sampling Results**, **Table 8 – Monitoring Well History PCE Concentrations**, and **Table 9 – Multi-Level Well Historical Sampling Results**. Analytical results are included in **Appendix F**.



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.

VOCs were either not detected or detected at concentrations below their respective NYSDEC Ambient Water Quality Standards (AWQS) with the exception of trichloroethylene (TCE) in wells MW-9, where a TCE concentration of 15.2 µg/L was detected, and the SCDHS well where a TCE concentration of 6.4 µg/L was detected, as summarized on **Table 7**. The AWQS value for TCE is 5 µg/L.

MW-9, which is screened within the Magothy Aquifer at a depth of 164 feet to 174 feet, is located just to the south of the location of the Magothy recovery well and the remaining source area. The detected concentration of TCE at MW-9 during this sampling event has been identified at similar concentrations during previous sampling events and, historically, these detections of TCE have not been indicative of a long-term trend of impact at this location. Moreover, MW-9 is within the radius of influence for the Magothy recovery well which mitigates against VOC impacts in groundwater from migrating towards this location.

The SCDHS well is located approximately 1,200 feet to the south of the Minmilt property and screened at the water table elevation, where elevated concentrations of VOCs have not been identified at the Minmilt property for several reporting periods. Based upon its location, the presence of TCE at the SCDHS well is not likely related to the Minmilt site. The results are consistent with the low levels of contaminants that have been historically observed in the area of this well.

With the exception of MW-9 which is located in the Magothy Aquifer and immediately downgradient of the source area, and the SCHDS well which unlikely to be affected by impacts emanating from the source area, concentrations of VOCs greater than AWQS were not identified in the other monitoring wells including MW-8 which is screened in the deep Upper Glacial aquifer and immediately downgradient of the source area. Based upon these results, PWGC concludes that the contamination source area is defined properly, and the GWE&T system has been effectively mitigating source impacts 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, and C had no exceedances of PCE, TCE, and DCE. Interval B had exceedances of PCE (50.2µg/L), TCE (242 µg/L) and DCE (95.2 µg/L) above their respective guidance values of 5 µg/L.



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 December 2022 to May 2023 until the Upper Glacial extraction well pump failed in June 2023. Historically, iron fouling has caused clogging in the pumps and well screens that causes the decreased flow rate. The two recovery wells were cleaned, and their pumps were replaced by a professional well servicing team on August 9, 2023. Following the well cleaning and new pump installation, flow rates rebounded a small amount, before decreasing again. Upon system reactivation, it was discovered that the Upper Glacial extraction well was cavitating (the water drawdown level was reaching the pump), and the well valve was reduced from 50% to 30% open. On September 6, 2023, a camera inspection was performed on the Upper Glacial well that noted iron fouling of the well's screen. On November 9, 2023, a professional well cleaning team performed nitrogen stripping on the Upper Glacial well, and sediment was air lifted from the well and containerized onsite for safe removal. When the system was reactivated on November 11, 2023, it was discovered that the connection pipe from the well to the system had cracked. On November 21, the pipe was repaired, and the system was fully reactivated. During this period of maintenance and repairs to the Upper Glacial well, the Magothy Well remained activated with the exception of days when repair and maintenance activities were being performed. Following the maintenance of the system, the flow rates rebounded to an acceptable level. 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 3.2.2, elevated concentrations of PCE and cis 1,2-DCE were observed in GWE&T system effluent samples in December 2023. PWGC is currently assessing the GWE&T system to determine corrective measures while the system remains deactivated.

The GWE&T system and treatment shed had existed under an open Town of Babylon Building Permit since its construction in 1997. PWGC assisted the property owner in closing this open permit with the Town of Babylon in April and May 2023. In order to close the open permit, the property owner was required to have an electrical inspection performed on the treatment systems and treatment shed, have a plumbing inspection performed by a Town of Babylon plumbing inspector for the system and treatment shed, and have a building inspection performed by a Town of Babylon building inspector. Minor repairs were needed to satisfy the Town's inspectors including installing a new roof on the treatment shed and upgrading electrical components. The Town of Babylon closed the open permit in May 2023 following satisfactory inspections.

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 while the system remained active, with the exception of a minor exceedance of TCE at MW-9 which is not believed to be indicative of a long-term trend.

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 continued to decrease into May 2023 and again in from September 2023 to October of 2023; however, as discussed in section 3.2.2 of this PRR, the percentage of PCE compared to its daughter compounds has remained consistent. The initial 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.

Due to the noted concentrations of PCE and DCE in GWE&T effluent samples at the end of this reporting period, it is recommended that corrective measures/maintenance be performed on the system to restore it to proper functionality. The next PRR will cover the time period from January 1, 2024 to March 31, 2025.



TABLES



TABLE 1
December 2022 to December 2023 Groundwater Elevation Results

WELL ID	CASING ELEVATION	4th Quarter 2022 12/09/2022		1st Quarter 2023 3/22/2023		2nd Quarter 2023 6/15/2023		3rd Quarter 2023 9/27/2023		4th Quarter 2023 12/20/2023	
		DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE
MW-1	99.22	41.75	57.47	41.63	57.59	41.85	57.37	42.86	56.36	41.68	57.54
MW-2	98.80	41.68	57.12	41.52	57.28	41.72	57.08	42.69	56.11	41.55	57.25
MW-3	98.08	41.12	56.96	40.95	57.13	41.11	56.97	42.14	55.94	39.99	58.09
MW-4	97.44	40.42	57.02	40.39	57.05	40.58	56.86	41.37	56.07	43.35	54.09
MW-5	99.12	41.87	57.25	41.73	57.39	41.95	57.17	42.77	56.35	41.13	57.99
MW-6	99.28	41.73	57.55	41.65	57.63	41.86	57.42	42.89	56.39	41.52	57.76
MW-7	98.09	40.57	57.52	40.83	57.26	41.20	56.89	42.15	55.94	41.13	56.96
MW-8	97.87	40.82	57.05	40.97	56.90	40.97	56.90	41.91	55.96	40.79	57.08
MW-9	95.93	41.02	54.91	41.14	54.79	39.54	56.39	40.60	55.33	39.06	56.87
SP-3	96.30	39.83	56.47	39.65	56.65	39.86	56.44	40.83	55.47	39.68	56.62
SP-4	97.71	41.35	56.36	41.17	56.54	41.32	56.39	42.25	55.46	41.23	56.48
SP-5	96.72	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
SP-6	99.68	43.24	56.44	43.11	56.57	43.34	56.34	44.31	55.37	43.15	56.53
GW-1	99.70	42.47	57.23	42.53	57.17	42.69	57.01	43.72	55.98	42.43	57.27
GW-2	100.30	43.71	56.59	43.60	56.70	43.84	56.46	44.52	55.78	43.61	56.69
GW-3	100.55	43.98	56.57	43.83	56.72	44.05	56.50	44.88	55.67	43.85	56.70
SCDHS	NS	38.56	---	38.69	---	38.33	---	39.18	---	38.37	---
Upper Glacial	---	---	---	---	---	---	---	---	---	---	---
Magothy	---	---	---	---	---	---	---	---	---	---	---

Notes:

Highlighted text denotes lowest groundwater elevation for the month

Highlighted text denotes highest groundwater elevation for the month

GWE = Groundwater Elevation

DTW = Depth to Water

NS = Not Surveyed

NM = Not Monitored / Inaccessible

TABLE 2
Groundwater Remedial System Influent Effluent Sample Results Summary

WELL ID	Units	October 2022		November 2022		December 2022				January 2023		February 2023		March 2023				April 2023	
		Combined	Combined	Combined	Combined	Combined	Onsite Upper	Onsite	Combined	Combined	Combined	Combined	Combined	Onsite Upper	Onsite	Combined	Combined	Combined	Combined
		System	System	System	System	System	Glacial	Magothy #4	System	System	System	System	System	System	Glacial	Magothy #4	System	System	System
		Influent	Effluent	Influent	Effluent	Influent	Influent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Influent	Influent	Effluent	Influent	Effluent
Iron as Fe	mg/L	1.52	0.790	3.93	3.94	2.96	6.33	0.721	0.984	1.60	0.744	2.08	1.34	1.65	6.26	1.19	0.808	1.56	0.624
pH (Lab)	SU	5.7	7.1	6.3	7.5	5.4	5.2	5.4	5.4	7.0	7.1	6.1	7.4	7.3	6.8	6.7	7.5	6.3	7.5
Toluene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m + p Xylene	µg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
1,1-Dichloroethene	µg/L	<1.0	<1.0	<1.0	<1.0	1.2	2.4	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0
Chloromethane	µg/L	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	42.0	44.2	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	1.4	<1.0
Chloroform	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethene (total)	µg/L	522	<2.0	934	3.1	623	1,480	103	3.1	670	<2.0	696	2.5	473	1,200	79.5	2.7	510	5.1
Vinyl Chloride	µg/L	12.5	<1.0	120	<1.0	17.3	38.6	2.8	<1.0	20.4	<1.0	26	<1.0	24.5	67.8	2.5	<1.0	29.6	<1.0
Tetrachloroethene	µg/L	1,110	<1.0	751	<1.0	920	1,070	1,090	<1.0	1,010	<1.0	704	<1.0	728	587	864	<1.0	766	1.2
Trichloroethylene	µg/L	76.9	<1.0	180	<1.0	164	339	37.5	<1.0	59.7	<1.0	97.9	<1.0	56.1	117	26.1	<1.0	56.0	<1.0
TVOC's	k	1,721.4	ND	1,985	4.6	1,725.5	2,930	1,233.3	3.1	1,802.1	44.2	1,525.1	2.5	1,281.6	1,973.2	972.1	4.9	1,363	6.3

WELL ID	Units	May 2023		July 2023 (Only Mag)		September 2023				October 2023		November 2023		December 2023				NYSDEC	
		Combined	Combined	Combined	Combined	Combined	Onsite Upper	Onsite	Combined	Combined	Combined	Combined	Combined	Onsite Upper	Onsite	Combined			
		System	System	System	System	System	Glacial	Magothy #4	System	System	System	System	System	Glacial	Magothy #4	System		Effluent	Limitations
		Influent	Effluent	Influent	Effluent	Influent	Influent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Influent	Effluent			
Iron as Fe	mg/L	1.3	0.878	4.06	1.88	1.48	5.35	0.290	0.809	2.28	2.45	6.13	1.06	3.78	6.18	0.328	0.596	NS	
pH (Lab)	SU	6.3	7.5	6.2	7.2	7.4	6.2	6.0	7.4	6.2	7.2	6.1	6.9	7.3	6.4	6.1	7.4	>1*	
Toluene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5	
m + p Xylene	µg/L	<3.0	<3.0	3.9	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5	
1,1-Dichloroethene	µg/L	<1.0	<1.0	<1.0	<1.0	1.4	3.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	1.1	2.3	<1.0	<1.0	5	
Chloromethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5	
Chloroform	µg/L	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	7	
1,1,1-Trichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5	
1,2-Dichloroethene (total)	µg/L	366	2.9	106	<2.0	752	1,180	241	18.0	577	16.7	928	37.4	579	1,310	116	45.4	5	
Vinyl Chloride	µg/L	22.6	<1.0	2.8	<1.0	39.5	100	14.7	<1.0	36.0	<1.0	46.7	<1.0	35.9	85	4.8	<1.0	2	
Tetrachloroethene	µg/L	292	<1.0	1,320	<1.0	786	350	946	2.5	665	2.4	728	4.6	983	620	793	6.7	5	
Trichloroethylene	µg/L	29.7	<1.0	21.3	<1.0	69.7	137	40.5	<1.0	51.8	<1.0	163	<1.0	94.6	185	30.1	1.9	5	
TVOC's	k	710.3	2.9	1,348	ND	1,649.7	1,770	1,243.5	20.5	1,329.8	19.1	1,867	42	1,693.6	2,202.3	945.1	54		

NC - Not Collected

NS - No Standard

ND = Not Detected

Highlighted text denotes exceedance of NYSDEC Effluent Limitations

* - Typical TOC concetrations on Long Island are less than 1 ppb.

*ONLY MAG

TABLE 3
Groundwater Remedial System
Contaminant Mass Removal

WELL ID 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
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

TABLE 3
Groundwater Remedial System
Contaminant Mass Removal

WELL ID Date	Days of Operation	Average flow rate	Tetrachloroethene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
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

TABLE 3
Groundwater Remedial System
Contaminant Mass Removal

WELL ID Date	Days of Operation	Average flow rate	Tetrachloroethene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
1/10/2006	26	130	3,100	57.12	3,144	57.93
3/27/2006	23	130	2,700	44.01	2,728	44.46
4/20/2006	24	180	2,000	47.10	2,027	47.73
5/19/2006	29	180	1,500	42.68	1,525	43.39
6/30/2006	42	180	1,400	57.69	1,427	58.81
7/20/2006	18	176	1,600	27.63	1,627	28.10
8/11/2006	20	176	1,700	32.62	1,727	33.14
9/26/2006	25	176	3,400	81.55	3,455	82.87
10/23/2006	27	160	2,000	47.10	2,028	47.76
11/7/2006	15	160	2,800	36.63	2,861	37.43
12/21/2006	44	160	1,800	69.07	1,828	70.15
1/5/2007	15	152	2,100	26.10	2,127	26.43
2/6/2007	32	152	1,600	42.42	1,627	43.14
3/22/2007	44	152	1,800	65.62	1,829	66.68
4/5/2007	14	150	1,700	19.46	1,734	19.85
5/3/2007	28	150	1,600	36.63	1,631	37.34
6/20/2007	48	150	4,400	172.69	4,429	173.83
7/11/2007	21	147	1,900	31.97	1,932	32.51
8/8/2007	28	147	3,300	74.04	3,325	74.60
9/27/2007	50	147	3,900	156.25	3,979	159.42
10/12/2007	15	152	2,500	31.07	2,530	31.44
11/6/2007	25	143	2,000	38.97	2,025	39.46
12/11/2007	35	142	2,700	73.15	2,739	74.20
1/5/2008	25	140	2,100	40.06	2,128	40.60
2/6/2008	32	120	2,000	41.86	2,023	42.35
3/31/2008	54	120	2,100	74.18	2,127	75.13
4/23/2008	23	122	1,600	24.47	1,625	24.86
5/20/2008	27	122	1,700	30.52	1,726	30.99
6/17/2008	28	108	1,900	31.32	1,927	31.76
7/8/2008	21	102	1,900	22.18	1,931	22.55
8/6/2008	29	115	1,800	32.72	1,828	33.23
9/29/2008	54	112	2,500	82.42	2,547	83.97
10/14/2008	15	96	1,900	14.91	1,922	15.09
11/24/2008	41	118	1,900	50.11	1,923	50.71
12/18/2008	24	110	2,900	41.73	2,940	42.31
1/9/2009	22	110	1,800	23.74	1,821	24.02
2/20/2009	42	106	1,900	46.11	1,919	46.57
3/17/2009	25	105	1,800	25.76	1,823	26.09
4/16/2009	30	104	1,800	30.61	1,821	30.97
5/13/2009	27	108	1,900	30.20	1,922	30.55
6/11/2009	29	108	1,900	32.44	1,922	32.81
7/29/2009	48	112	4,800	140.66	4,849	142.10
8/27/2009	29	108	2,200	37.56	2,219	37.88
9/30/2009	34	104	1,900	36.62	1,924	37.08
10/22/2009	22	90	2,000	21.59	2,025	21.86
11/9/2009	17	90	2,100	17.51	2,121	17.69
12/16/2009	12	90	2,300	13.54	2,322	13.67

TABLE 3
Groundwater Remedial System
Contaminant Mass Removal

WELL ID Date	Days of Operation	Average flow rate	Tetrachloroethene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
1/19/2010	20	95	4,600	47.64	4,616	47.81
2/11/2010	23	95	1,600	19.06	1,637	19.50
3/17/2010	34	95	3,600	63.38	3,658	64.41
4/19/2010	10	100	3,100	16.90	3,454	18.83
5/18/2010	29	100	2,100	33.20	2,127	33.62
6/16/2010	29	100	2,000	31.62	2,026	32.03
7/8/2010	22	96	1,900	21.87	1,927	22.18
8/6/2010	29	95	2,000	30.03	2,021	30.35
9/23/2010	48	94	2,200	54.11	2,225	54.72
10/25/2010	32	98	2,000	34.19	2,020	34.53
11/10/2010	16	90	2,200	17.27	2,220	17.43
12/8/2010	28	92	2,200	30.89	2,205	30.96
1/24/2011	47	75	2,300	44.19	2,339	44.94
3/17/2011	19	75	3,500	27.19	3,543	27.52
4/26/2011	40	126	2,600	71.43	2,623	72.06
5/31/2011	35	96	2,800	51.28	2,828	51.80
6/15/2011	8	88	6,200	23.79	6,449	24.75
6/28/2011	8	88	3,400	13.05	3,439	13.20
7/26/2011	28	68	4,300	44.63	4,335	44.99
8/11/2011	16	70	2,700	16.48	2,720	16.61
9/27/2011	47	72	2,500	46.12	2,523	46.54
10/20/2011	23	75	2,400	22.57	2,424	22.79
11/14/2011	25	72	2,500	24.53	2,522	24.75
12/15/2011	31	70	2,100	24.84	2,124	25.12
1/5/2012	21	70	2,400	19.23	2,421	19.40
2/17/2012	43	59	2,300	31.81	2,326	32.17
3/12/2012	24	62	2,400	19.47	2,428	19.69
4/23/2012	42	100	3,100	70.97	3,139	71.86
5/25/2012	32	100	2,900	50.59	2,931	51.13
6/14/2012	20	100	3,000	32.71	3,029	33.02
7/23/2012	39	68	1,490	21.54	1,490	21.54
8/9/2012	17	70	3,500	22.70	3,532	22.91
9/11/2012	33	97	2,700	47.11	2,723	47.51
10/2/2012	21	97	3,300	36.64	3,341	37.10
11/26/2012	55	97	2,400	69.79	2,421	70.41
1/9/2013	10	97	3,200	16.92	3,226	17.06
2/15/2013	37	100	1,900	38.32	1,918	38.68
3/21/2013	34	104	2,400	46.26	2,418	46.61
4/17/2013	27	99	2,200	32.06	2,220	32.35
5/23/2013	36	98	3,800	73.08	3,837	73.79
6/24/2013	32	99	2,500	43.17	2,522	43.55
8/6/2013	43	99	4,700	109.06	4,766	110.59
8/28/2013	22	100	3,300	39.57	3,300	39.57
9/19/2013	22	100	2,600	31.18	2,600	31.18
10/28/2013	39	100	2,100	44.64	2,100	44.64
11/15/2013	18	100	2,700	26.49	2,700	26.49
12/17/2013	32	100	2,600	45.35	2,600	45.35
1/29/2014	43	68	2,600	41.44	2,600	41.44
2/28/2014	30	69	2,700	30.47	2,719	30.68
3/28/2014	28	60	2,800	25.64	2,800	25.64
4/23/2014	26	70	2,700	26.79	2,700	26.79
5/15/2014	22	66	2,600	20.58	2,600	20.58
6/9/2014	25	63	2,500	21.46	2,500	21.46
7/9/2014	30	61	2,300	22.94	2,300	22.94
8/28/2014	50	60	1,400	22.89	1,400	22.89
9/29/2014	32	55	2,800	26.86	2,800	26.86
10/28/2014	29	53	5,500	46.08	5,500	46.08
11/24/2014	27	59	2,200	19.10	2,200	19.10
12/15/2014	21	45	3,300	17.00	3,300	17.00

TABLE 3
Groundwater Remedial System
Contaminant Mass Removal

WELL ID Date	Days of Operation	Average flow rate	Tetrachloroethene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
1/12/2015	28	43	2,400	15.75	2,400	15.75
2/12/2015	15	30	2,700	6.62	2,700	6.62
8/12/2015	47	102	4,600	120.21	4,635	121.12
9/18/2015	37	145	4,900	143.30	4,900	143.30
10/23/2015	35	146	4,300	119.77	4,300	119.77
11/25/2015	33	143	1,800	46.30	1,809	46.53
12/30/2015	35	144	5,900	162.09	5,959	163.71
1/29/2016	30	143	2,800	65.48	2,800	65.48
2/25/2016	27	132	2,400	46.63	2,422	47.05
3/18/2016	22	135	3,000	48.57	3,000	48.57
4/18/2016	31	135	2,600	59.31	2,600	59.31
5/16/2016	28	135	2,600	53.57	2,600	53.57
6/14/2016	29	131	2,100	43.49	2,100	43.49
7/19/2016	35	119	2,100	47.68	2,100	47.68
8/17/2016	29	120	2,400	45.53	2,400	45.53
9/19/2016	33	110	2,100	41.55	2,100	41.55
10/11/2016	22	100	1,650	19.79	1,683	20.18
11/22/2016	42	95	1,740	37.84	1,740	37.84
12/21/2016	29	96	1,920	29.14	1,920	29.14
1/25/2017	35	110	2,330	48.90	2,356	49.44
2/16/2017	22	110	2,640	34.83	2,640	34.83
3/16/2017	28	105	2,600	41.67	2,761	44.25
4/18/2017	33	109	2,510	49.21	2,622	51.41
5/19/2017	31	110	1,690	31.41	1,690	31.41
6/16/2017	28	104	1,910	30.32	2,001	31.76
7/18/2017	32	101	1,870	32.94	1,890	33.30
8/21/2017	34	105	1,840	35.81	1,840	35.81
10/2/2017	42	115	2,540	66.87	2,580	67.93
10/16/2017	14	120	2,810	25.73	2,852	26.12
11/17/2017	32	121	2,490	52.55	2,490	52.55
12/13/2017	26	124	1,970	34.62	1,991	34.99
1/15/2018	33	123	1,810	40.05	1,832	40.53
2/13/2018	29	127	1,630	32.72	1,651	33.15
3/26/2018	41	130	1,550	45.03	1,550	45.03
4/19/2018	24	131	2,080	35.65	2,106	36.09
5/17/2018	28	132	1,580	31.83	1,580	31.83
6/14/2018	28	128	1,930	37.71	1,953	38.15
7/19/2018	35	129	1,200	29.53	1,200	29.53
8/14/2018	26	128	1,740	31.57	1,758	31.89
9/21/2018	38	129	1,480	39.55	1,505	40.21
10/22/2018	31	135	1,540	35.13	1,562	35.63
11/19/2018	28	134	1,090	22.29	1,114	22.78
12/18/2018	29	134	1,470	31.14	1,494	31.65
1/15/2019	28	135	935	19.27	955	19.68
2/13/2019	29	85	1,520	20.42	1,539	20.68
3/12/2019	27	85	2,150	26.90	2,168	27.12
4/23/2019	42	25	1,180	6.75	1,185	6.78
5/16/2019	23	25	980	3.07	987	3.09
6/11/2019	26	25	869	3.08	874	3.10
7/31/2019	50	107	1,610	46.95	1,635	47.68
8/19/2019	19	111	1,420	16.32	1,443	16.59
9/16/2019	28	80	1,720	21.00	1,743	21.28
10/23/2019	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

TABLE 3
Groundwater Remedial System
Contaminant Mass Removal

WELL ID Date	Days of Operation	Average flow rate	Tetrachloroethene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
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
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
10/20/2022	30	71	1,110	12.89	1,721	19.99
11/21/2022	32	100	751	13.10	1,985	34.62
12/9/2022	18	103	920	9.30	1,726	17.44
1/24/2023	46	90	1,010	22.79	1,802	40.67
2/10/2023	17	95	704	6.20	1,525	13.43
3/22/2023	40	85	728	13.49	1,282	23.76
4/17/2023	26	78	766	8.47	1,363	15.07
5/24/2023	37	77	292	4.53	710	11.03
7/27/2023	64	93	1,320	42.83	1,348	43.73
9/27/2023	62	84	786	22.31	1,650	46.84
10/8/2023	11	82	665	3.27	1,330	6.54
11/30/2023	53	105	728	22.08	1,867	56.64
12/20/2023	20	110	983	11.79	1,694	20.31
Total (kg)				18,292.23		19,852.08
Total (lb)				40,327.46		43,766.34

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

Date	Source	Days of Operation	Average Flow Rate	Tetrachloroethylene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
7/7/1998	Magothy	8	50	9400	20.50	9650	21.04
7/7/1998	Upper Glacial	8	200	4000	34.89	4580	39.94
10/27/1998	Magothy	112	50	7600	259.47	7921	268.18
10/27/1998	Upper Glacial	112	200	4300	506.72	4770	570.83
2/24/1999	Magothy	120	50	9000	271.46	9290	281.45
2/24/1999	Upper Glacial	120	200	5400	634.50	5840	694.02
5/28/1999	Magothy	93	50	7100	204.04	7362	211.04
5/28/1999	Upper Glacial	93	200	4800	517.08	5188	559.06
10/12/1999	Magothy	137	47	8100	266.75	8350	275.74
10/12/1999	Upper Glacial	137	165	5100	609.94	5240	642.47
11/10/1999	Magothy	12	40	8900	22.24	9160	22.91
11/10/1999	Upper Glacial	12	80	5500	27.73	5634	28.45
2/15/2000	Magothy	81	40	6000	131.58	6270	136.26
2/15/2000	UpperGlacial	81	80	4300	173.08	4480	178.63
5/26/2000	Magothy	97	50	6500	165.23	6720	171.71
5/26/2000	UpperGlacial	97	90	5000	221.28	5248	231.46
9/27/2000	Magothy	124	50	4200	180.81	4386	187.67
9/27/2000	Upper Glacial	124	100	2800	263.61	3137	283.38
2/27/2001	Magothy	152	50	3200	153.28	3391	161.09
2/27/2001	Upper Glacial	152	100	2500	219.57	2680	240.98
5/30/2001	Magothy	88	50	2100	63.56	2433	69.84
5/30/2001	Upper Glacial	88	100	2400	117.52	2723	129.59
8/23/2001	Magothy	85	50	2500	53.28	2715	59.63
8/23/2001	Upper Glacial	85	100	2500	113.52	2736	126.47
11/27/2001	Magothy	96	50	2500	65.41	2530	68.62
11/27/2001	Upper Glacial	96	100	2400	128.21	2542	
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

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

Date	Source	Days of Operation	Average Flow Rate	Tetrachloroethylene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
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
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

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

Date	Source	Days of Operation	Average Flow Rate	Tetrachloroethylene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
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

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

Date	Source	Days of Operation	Average Flow Rate	Tetrachloroethylene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
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
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	21.73	3760	43.44
4/20/2021	Magothy #4	49	62	780	15.24	1851	26.24
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

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

Date	Source	Days of Operation	Average Flow Rate	Tetrachloroethylene (µg/l)	Mass Removed (kg)	Total VOC's (µg/l)	Mass Removed (kg)
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
12/9/2022	Upper Glacial	109	38	1070	23.48	2930	83.37
12/9/2022	Magothy #4	109	63	1090	48.10	1233	62.84
3/22/2023	Upper Glacial	103	20	587	9.13	1973	40.52
3/22/2023	Magothy #4	103	50	864	36.41	972	53.11
9/27/2023	Upper Glacial	189	20	350	10.70	1973	74.89
9/27/2023	Magothy #4	189	59	946	61.57	972	93.91
12/20/2023	Upper Glacial	84	44	620	13.93	2202	78.58
12/20/2023	Magothy #4	84	56	793	21.83	945	43.06
Total (kg)					16666.16		17791.87
Total (lb)					36665.56		39142.12

TABLE 5
SVE System Historical Influent Results

WELL ID	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	SVE-1 Influent	SVE-1 Influent	SVE-2 Influent	SVE-2 Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		3/7/1997	6/25/1997	9/26/1997	12/18/1997	3/17/1998	4/21/1998	7/7/1998	7/8/1998	8/5/1998	9/17/1998	12/29/1998	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	30,000	900	830	560	340	370	310	740	1,100	930	1,600	190,000	1,900
1,1,1-Trichloroethane	µg/m³	12,000	650	560	230	97	64	45	27	57	52	47	450,000	1,000
Trichloroethylene	µg/m³	88,000	2,300	2,600	2,900	570	340	170	200	520	380	1,200	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	BDL	BDL	BDL	BDL	28	20	19	16	21	25	560,000	700.000
1,1-Dichloroethane	µg/m³	BDL	BDL	BDL	BDL	BDL	15	25	12	25	BDL	28	190,000	500.000
Tetrachloroethene	µg/m³	3,600,000	200,000	160,000	150,000	20,000	5,200	1,900	2,800	2,700	2,200	2,300	81,000	0.075
TVOCs	µg/m³	3,730,000	203,850	163,990	153,690	21,007	6,017	2,470	3,798	4,418	3,583	5,200	NA	NA
PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		3/24/1999	6/29/1999	11/1/1999	12/16/1999	3/21/2000	8/3/2000	12/21/2000	3/29/2001	6/28/2001	9/27/2001	10/15/2001	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	390	720	660	180	60	240	79	120	540	450	BDL	190,000	1,900
1,1,1-Trichloroethane	µg/m³	38	37	37	17	8	37	6	BDL	BDL	22	BDL	450,000	1,000
Trichloroethylene	µg/m³	150	620	360	170	170	220	230	100	520	4,300	350	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	7	17	BDL	BDL	27	BDL	BDL	BDL	BDL	BDL	560,000	700.000
1,1-Dichloroethane	µg/m³	20	19	28	13	7	25	6	10	BDL	16	BDL	190,000	500.000
Tetrachloroethene	µg/m³	540	1,400	1,500	1,100	1,200	620	400	420	6,300	18,000	610	81,000	0.075
TVOCs	µg/m³	1,138	2,803	2,602	1,480	1,445	1,169	721	650	7,360	22,788	960	NA	NA
PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		3/26/2002	6/26/2002	9/26/2002	1/3/2003	7/7/2003		12/15/2003	3/30/2004	5/17/2004	9/24/2004	12/10/2004	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	98	61	44	66	200	93	58	370	34	11	48	190,000	1,900
1,1,1-Trichloroethane	µg/m³	12	10	BDL	11	BDL	32	BDL	16	BDL	BDL	6.3	450,000	1,000
Trichloroethylene	µg/m³	340	81	24	29	30	30	20	890	8	BDL	11	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560,000	700.000
1,1-Dichloroethane	µg/m³	12	8	BDL	16	100	BDL	BDL	BDL	BDL	BDL	10	190,000	500.000
Tetrachloroethene	µg/m³	1,600	710	450	360	150	100	31	14,000	26	16	40	81,000	0.075
TVOCs	µg/m³	2,062	870	518	482	480	255	109	15,276	68	27	115	NA	NA

TABLE 5
SVE System Historical Influent Results

PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		3/16/2005	6/28/2005	9/28/2005	12/15/2005	3/27/2006	6/30/2006	9/26/2006	12/21/2006	3/22/2007	6/25/2007	9/27/2007	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	40	140	150	33	53	34	53	91	64	180	1,100	190,000	1,900
1,1,1-Trichloroethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	60	450,000	1,000
Trichloroethylene	µg/m³	14	48	30	BDL	11	BDL	11	BDL	11	26	54	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560,000	700.000
1,1-Dichloroethane	µg/m³	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	23	130	190,000	500.000
Tetrachloroethene	µg/m³	41	380	80	90	14	BDL	14	34	35	46	56	81,000	0.075
TVOCs	µg/m³	106	568	260	123	78	34	78	125	110	275	1,400	NA	NA
PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		12/11/2007	3/31/2008	6/17/2008	8/6/2008	9/29/2008	12/18/2008	3/17/2009	6/11/2009	9/30/2009	12/16/2009	3/17/2010	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	66	180	21	160	130	80	230	BDL	BDL	690	950	190,000	1,900
1,1,1-Trichloroethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	14	BDL	BDL	14	19	450,000	1,000
Trichloroethylene	µg/m³	BDL	BDL	BDL	67	23	BDL	BDL	BDL	7	110	53	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560,000	700.000
1,1-Dichloroethane	µg/m³	17	22	BDL	14	14	10	38	BDL	BDL	24	46	190,000	500.000
Tetrachloroethene	µg/m³	40	29	BDL	350	97	37	BDL	BDL	84	500	570	81,000	0.075
TVOCs	µg/m³	123	231	21	591	264	127	282	BDL	91	1,338	1,638	NA	NA
PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		5/15/2010	6/16/2010	9/23/2010	12/9/2010	3/17/2011	6/15/2011	9/27/2011	12/15/2011	3/12/2012	6/14/2012	9/11/2012	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	210	200	200	515.71	396.70	206.28	281.66	714.06	234.05	476.04	490.00	190,000	1,900
1,1,1-Trichloroethane	µg/m³	6	6.1	6.0	21.29	12.56	13.10	4.26	BDL	2.24	BDL	17.70	450,000	1,000
Trichloroethylene	µg/m³	94	110	75	236.41	193.43	209.55	123.58	96.71	59.10	166.56	202.00	33,000	0.450
Trichlorofluoromethane	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.75	560,000	700.000
1,1-Dichloroethane	µg/m³	10	13	9	18.64	16.61	14.18	8.91	21.88	9.32	14.58	25.60	190,000	500.000
Tetrachloroethene	µg/m³	540	2,100	290	4478.10	2510.50	3663.90	3189.00	2103.40	1492.70	2374.80	1670.00	81,000	0.075
TVOCs	µg/m³	860	2,429	580	5,270	3,130	4,107	3,607	2,936	1,797	3,032	2,405	NA	NA

TABLE 5
SVE System Historical Influent Results

PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		1/11/2013	3/21/2013	6/24/2013	9/19/2013	11/15/2013	6/11/2014	11/24/2014	9/23/2015	12/30/2015	3/18/2016	6/14/2016	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	144	436	119	150	238	283	243	544	89	143	19	190,000	1,900
1,1,1-Trichloroethane	µg/m³	7.0	8.7	3.4	3.6	13.1	9.93	5.24	26.30	4.97	4.86	BDL	450,000	1,000
Trichloroethylene	µg/m³	91	155	31	46	148	93.5	54.6	245.0	59.2	63.5	6.0	33,000	0.450
Trichlorofluoromethane	µg/m³	1.69	2.47	1.40	2.02	3.03	2.25	2.02	3.43	2.25	1.97	1.21	560,000	700.000
1,1-Dichloroethane	µg/m³	12.2	13.6	4.5	5.9	15.0	12.1	8.3	25.3	11.0	8.3	1.0	190,000	500.000
Tetrachloroethene	µg/m³	1,300	1,230	423	609	1,810	1,280	1,030	3,550	1,400	1,360	114	81,000	0.075
TVOCs	µg/m³	1,556	1,846	583	817	2,227	1,681	1,343	4,394	1,566	1,582	141	NA	NA
PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		9/19/2016	3/16/2017	6/16/2017	10/16/2017	12/13/2017	3/26/2018	6/14/2018	9/21/2018	12/18/2018	3/12/2019	6/11/2019	SGC	AGC
cis-1,2-Dichloroethene	µg/m³	280	376	179	270	212	178	156	305	460	926	193	190,000	1,900
1,1,1-Trichloroethane	µg/m³	10.9	11.7	6.8	6.0	BDL	3.1	4.7	7.4	9.1	14.6	5.2	450,000	1,000
Trichloroethylene	µg/m³	61	106	88	138	58	47	60	134	89	95	92	33,000	0.450
Trichlorofluoromethane	µg/m³	11.20	BDL	1.47	BDL	BDL	5.70	12.40	9.90	3.70	6.80	4.30	560,000	700.000
1,1-Dichloroethane	µg/m³	7.9	18.4	9.4	14.0	BDL	6.6	9.2	10.4	18.4	79.7	10.4	190,000	500.000
Tetrachloroethene	µg/m³	742	431	1,450	1,630	1,240	1,030	689	2,620	1,320	1,180	567	81,000	0.075
TVOCs	µg/m³	1,113	943	1,735	2,058	1,510	1,270	931	3,087	1,901	2,302	872	NA	NA
PARAMETER	Units	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	Combined SVE Influent	NYSDEC Air Guidance Concentrations	
		9/16/2019	6/22/2020	12/14/2020	6/24/2021	12/23/2021	6/21/2022	12/21/2022	6/21/2023	12/20/2023			SGC	AGC
cis-1,2-Dichloroethene	µg/m³	270	512	117	1,660	450	1,500	550	155	337			190,000	1,900
1,1,1-Trichloroethane	µg/m³	BDL	6.1	3.7	20.1	12.0	17.0	7.4	3.82	6.4			450,000	1,000
Trichloroethylene	µg/m³	140	91	77	95	130	160	85	43.9	55.9			33,000	0.450
Trichlorofluoromethane	µg/m³	8.10	3.20	3.40	3.40	BDL	BDL	BDL	2	BDL			560,000	700.000
1,1-Dichloroethane	µg/m³	20.5	21.7	50.1	603.0	26.0	91.0	33.0	9.55	35.6			190,000	500.000
Tetrachloroethene	µg/m³	1,130	1,410	2,140	1,910	2,100	1,200	1,200	677	531			81,000	0.075
TVOCs	µg/m³	1,569	2,044	2,391	4,292	2,718	2,968	1,875	891	966	0	0	NA	NA

NA = Not Applicable
BDL= Below Detection Limit. Based on a reduction in concentrations, additional compounds have been detected in more recent analyses performed.
* - Second Quarter 2001-Laboratory method changed from air sampling with carbon tubes to air sampling with 'porapak-N' tubes.

TABLE 5
SVE System Historical Influent Results

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

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

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

TABLE 5
SVE System Historical Influent Results

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

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

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

TABLE 5
SVE System Historical Influent Results

SVE Wells 1 & 2 System Influent	First Qtr 16-Mar-17 (µg/m³)	Second Qtr 16-Jun-17 (µg/m³)	Third Qtr 16-Oct-17 (µg/m³)	Fourth Qtr 13-Dec-17 (µg/m³)	First Qtr 26-Mar-18 (µg/m³)	Second Qtr 14-Jun-18 (µg/m³)	Third Qtr 21-Sep-18 (µg/m³)	Fourth Qtr 18-Dec-18 (µg/m³)	First Qtr 11-Mar-19 (µg/m³)	Second Qtr 11-Jun-19 (µg/m³)	Third Qtr 16-Sep-19 (µg/m³)	First Half 2020 22-Jun-20 (µg/m³)
Tetrachloroethylene	431	1,450	1,630	1,240	1,030	689	2,620	1,320	1,180	567	1,130	1,410
Trichloroethylene	106	88	138	58	47	60	134	89	95	92	140	91
1,1,1-Trichloroethane	12	7	6	0	3	5	7	9	15	5	0	6
cis-1,2-Dichloroethene	376	179	270	212	178	156	305	460	926	193	270	512
Total VOCs	925	1,724	2,044	1,510	1,258	910	3,066	1,878	2,216	857	1,540	2,019
Average SVE Flow Rate (cfm):	300	300	300	300	300	300	300	300	300	300	300	300
Average VOC Removal Rate (lb/hr):	0.0011	0.0015	0.0021	0.0020	0.0016	0.0012	0.0022	0.0028	0.0023	0.0017	0.0013	0.0020
Total VOCs Removed Over Quarter (lb):	4.85	3.29	6.20	2.78	3.84	2.34	5.31	5.87	4.58	3.81	3.14	13.44

SVE Wells 1 & 2 System Influent	Second Half 2020 14-Dec-20 (µg/m³)	First Half 2021 24-Jun-21 (µg/m³)	Second Half 2021 23-Dec-21 (µg/m³)	First Half 2022 21-Jun-22 (µg/m³)	Second Half 2022 21-Dec-22 (µg/m³)	First Half 2023 21-Jun-23 (µg/m³)	Second Half 2023 20-Dec-23 (µg/m³)	Mass Removed to Date (kg)	Mass Removed to Date (lbs)
Tetrachloroethylene	2,140	1,910	2,100	1,200	1,200	677	531	2,421	5,336
Trichloroethylene	77	95	130	160	85	44	56	66	145
1,1,1-Trichloroethane	4	20	12	17	7	4	6	8	19
cis-1,2-Dichloroethene	117	1,660	450	1,500	550	155	337	55	121
Total VOCs	2,338	3,685	2,692	2,877	1,842	880	930	2,549	5,621
Average SVE Flow Rate (cfm):	300	300	300	300	300	300	300		
Average VOC Removal Rate (lb/hr):	0.0024	0.0034	0.0036	0.0031	0.0026	0.0015	0.0010		
Total VOCs Removed Over Quarter (lb):	10.28	15.59	8.88	13.52	11.65	6.68	4.44		

TABLE 6
SVE System Contaminant Mass Removal

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

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

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

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

SVE Wells 1 & 2	Fourth Qtr.	First Qtr.	Second Qtr.	Third Qtr.	Fourth Qtr.	First Qtr.	Second Qtr.	Third Quarter	Fourth Quarter	First Quarter	Second Quarter	Third Quarter
System Influent	16-Dec-09 (µg/m³)	17-Mar-10 (µg/m³)	16-Jun-10 (µg/m³)	23-Sep-10 (µg/m³)	9-Dec-10 (µg/m³)	17-Mar-11 (µg/m³)	15-Jun-11 (µg/m³)	27-Sep-11 (µg/m³)	15-Dec-11 (µg/m³)	12-Mar-12 (µg/m³)	14-Jun-12 (µg/m³)	11-Sep-12 (µg/m³)
Tetrachloroethylene	500	570	2,100	290	4478.10	2510.50	3663.90	3189.00	2103.40	1492.70	2374.80	1670.00
Trichloroethylene	110	150	110	75	236.41	193.43	209.55	123.58	96.71	59.10	166.56	202.00
1,1,1-Trichloroethane	14	19	6.1	60	21.29	12.56	13.10	4.26	0.00	0.00	0.00	17.70
cis-1,2-Dichloroethene	690	950	200	200	515.71	396.70	206.28	281.66	714.06	234.05	476.04	490.00
Total VOCs	1,314	1,689	2,416	571	5,251.51	3,113.19	4,092.83	3,598.50	2,914.17	1,785.85	3,017.40	2,379.70
Average SVE Flow Rate (cfm):	300	300	300	300	300	300	300	300	300	300	300	300
Average VOC Removal Rate (lb/hr):	0.0008	0.0017	0.0023	0.0017	0.0033	0.0047	0.0040	0.0043	0.0037	0.0026	0.0027	0.0030
Total VOCs Removed Over Quarter (lb):	1.46	3.68	5.04	3.99	6.05	11.05	8.75	10.79	6.94	5.58	6.09	6.48

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

SVE Wells 1 & 2	First Qtr	Second Qtr	Third Qtr	Fourth Qtr	First Qtr	Second Qtr	Third Qtr	Fourth Qtr	First Qtr	Second Qtr	Third Qtr	First Half 2020
System Influent	16-Mar-17 (µg/m³)	16-Jun-17 (µg/m³)	16-Oct-17 (µg/m³)	13-Dec-17 (µg/m³)	26-Mar-18 (µg/m³)	14-Jun-18 (µg/m³)	21-Sep-18 (µg/m³)	18-Dec-18 (µg/m³)	11-Mar-19 (µg/m³)	11-Jun-19 (µg/m³)	16-Sep-19 (µg/m³)	22-Jun-20 (µg/m³)
Tetrachloroethylene	431	1,450	1,630	1,240	1,030	689	2,620	1,320	1,180	567	1,130	1,410
Trichloroethylene	106	88	138	58	47	60	134	89	95	92	140	91
1,1,1-Trichloroethane	12	7	6	0	3	5	7	9	15	5	0	6
cis-1,2-Dichloroethene	376	179	270	212	178	156	305	460	926	193	270	512
Total VOCs	925	1,724	2,044	1,510	1,258	910	3,066	1,878	2,216	857	1,540	2,019
Average SVE Flow Rate (cfm):	300	300	300	300	300	300	300	300	300	300	300	300
Average VOC Removal Rate (lb/hr):	0.0011	0.0015	0.0021	0.0020	0.0016	0.0012	0.0022	0.0028	0.0023	0.0015	0.0019	0.0022
Total VOCs Removed Over Quarter (lb):	4.85	3.29	6.20	2.78	3.84	2.34	5.31	5.87	4.58	6.45	12.54	29.01

SVE Wells 1 & 2	Second Half 2021	First Half 2021	Second Half 2022	First Half 2022	Second Half 2023	First Half 2023	Second Half 2023
System Influent	14-Dec-20 (µg/m³)	24-Jun-21 (µg/m³)	23-Dec-21 (µg/m³)	21-Jun-22 (µg/m³)	21-Dec-22 (µg/m³)	21-Jun-23 (µg/m³)	20-Dec-23 (µg/m³)
Tetrachloroethylene	2,140	1,910	2,100	1,200	1,200	677	531
Trichloroethylene	77	95	130	160	85	44	56
1,1,1-Trichloroethane	4	20	12	17	7	4	6
cis-1,2-Dichloroethene	117	1,660	450	1,500	550	155	337
Total VOCs	2,338	3,685	2,692	2,877	1,842	880	930
Average SVE Flow Rate (cfm):	300	300	300	300	300	300	300
Average VOC Removal Rate (lb/hr):	0.0026	0.0021	0.0030	0.0032	0.0021	0.0010	0.0010
Total VOCs Removed Over Quarter (lb):	39.54	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

TABLE 7
December 20, 2023,
Groundwater Sampling Results

WELL ID	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	<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	5
Chloroform	µg/L	<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	5
Trichloroethylene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	15.2	5
Tetrachloroethene	µg/L	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	2	5
Benzene	µg/L	<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	5
Ethylbenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
Toluene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	2.8	2.8	5
Xylene (total)	µg/L	<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	1.1	ND	ND	ND	1.7	2.8	20.0	
PARAMETER	Units	SP-3	SP-4	SP-5	SP-6	GW-1	GW-2	GW-3	SCDHS Well	NYSDEC G.W. Standards	
1,1-Dichloroethene	µg/L	<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	6.4	5	
Tetrachloroethene	µg/L	<1.0	<1.0	NS	<1.0	<1.0	<1.0	<1.0	4.2	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	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	
TVOC's	µg/L	ND	ND	NS	ND	ND	ND	ND	10.6		

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

Samples collected on December 20, 2023

TABLE 8
Monitoring Well Historical PCE Concentrations

WELL ID	MW-1 (µg/L)	MW-2 (µg/L)	MW-3 (µg/L)	MW-4 (µg/L)	MW-5 (µg/L)	MW-6 (µg/L)	MW-7 (µg/L)	MW-8 (µg/L)	MW-9 (µg/L)	SCDHS Well (µg/L)	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)
12/31/92	10	34,000	81,000	1,800	15,000	14	3,600	1,300	-	-	NS	NS	NS	NS	NS	NS	NS
07/06/95	-	-	140,000	-	-	13	-	1,200	60	-	NS	NS	NS	NS	NS	NS	NS
12/16/96	23	5,400	NS	2,300	3,400	1	7,200	130	15	NS	340	110	1,800	3,900	11,000	1,300	3
03/17/97	3	6,500	NS	1,100	1,000	4	3,500	500	17	NS	1	42	350	1,000	15,000	610	36
06/24/97	1	8,900	32,000	47	210	3	150	73	15	NS	60	190	46	120	1,100	78	10
09/23/97	56	13,000	>10,000	25	140	33	39	17	28	NS	4	4	9	28	360	7	39
12/15/97	<1	10,000	92,000	15	49	<1	33	6	28	NS	6	11	23	15	110	9	1
03/17/98	12	7,200	34,000	68	7	2	18	13	18	NS	7	4	27	15	57	4	<1
09/17/98	2	3,400	38,000	70	8	2	14	2	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/22/98	3	2,000	51,000	6	5	3	34	3	NS	NS	4	4	59	NS	NS	NS	NS
03/17/99	<1	870	29,000	NS	3	4	160	56	35	NS	2	17	12	NS	NS	NS	NS
06/30/99	22	240	25,000	NS	2	4	2	<1	15	62	<1	15	8	NS	NS	NS	NS
10/13/99	<1	210	26,000	<1	1	4	870	<1	10	NS	<1	88	9	10	280	86	<1
12/23/99	4	270	83,000	<1	<1	5	990	3	1	1,400	<1	37	3	2	3,700	51	3
03/21/00	<1	110	12,000	<1	<1	4	1,700	4	2	170	<1	53	6	2	6,400	35	4
08/04/00	<1	51	10,000	<1	<1	1	10	<1	<1	170	10	54	61	2	1,100	150	1
12/21/00	<1	35	820	16	<1	2	3	3	<1	NS	<1	2	16	2	25	NS	<1
03/30/01	<1	24	2,100	NS	4	<1	2	36	<1	81	<1	<1	3	2	15	NS	NS
06/29/01	<1	1	1,000	1.5	<1	NS	ND	1.1	ND	5	<1	<1	<1	ND	ND	NS	NS
09/28/01	<1	13	410	2	<1	2	4	<1	1	20	<1	NS	47	2	3	NS	<1
12/19/01	<1	3	4,800	2	<1	2	4	1	2	22	4	4	15	6	4	30	2
03/27/02	6	10	9,600	4	3	4	3	2	16	16	3	5	5	4	5	13	<1
06/27/02	2	6	270	<1	2	2	3	2	2	9	2	11	3	2	NS	NS	NS
09/27/02	3	3	1,700	NS	5	1	NS	<1	<1	17	1	9	23	2	NS	NS	NS
12/31/03	<1	3	1,800	NS	2	<1	3	34	<1	9	2	10	3	3	4	20	<1
07/08/03	3	13	970	5	7	2		1	2	9	2	6	4	3	5	3	<1
09/30/03	3	<1	340	7	<1	2	3	<1	22	7	3	2	11	1	6	NS	1
12/15/03	<1	2	75	NS	<1	1	NS	NS	31	7	<1	2	16	3	7	NS	8
03/30/04	<1	2	30	1	<1	2	2	<1	6	6	<1	<1	4	<1	5	NS	<1
06/30/04	<1	2	19	1	<1	2	NS	2	10	7	<1	2	NS	<1	4	3	<1
09/21/04	<1	3	<1	3	<1	2	2	NS	<1	6	<1	2	4	2	4	5	<1
12/10/04	<1	2	<1	NS	<1	2	NS	NS	3	9	<1	2	2	3	4	4	<1
03/16/05	<1	3	2	3	<1	NS	3	<1	5	NS	NS	NS	2	1	3	NS	NS
06/27/05	<1	2	2	5	<1	NS	3	3	2	NS	NS	NS	2	ND	3	2	NS
09/28/05	<1	2	1	1	<1	NS	2	10	9	NS	NS	NS	2	2	2	3	NS
12/15/05	<1	1	4	<1	<1	NS	ND	1	ND	NS	<1	NS	4	1	11	16	NS
03/27/06	<1	1.1	3.7	<1	<1	NS	ND	1.1	ND	NS	<1	NS	4.0	1.3	11.0	16.0	NS
06/30/06	<1	1.0	2.0	3.0	<1	NS	<1	1.0	NS	NS	NS	NS	<1	NS	NS	21.0	<1
09/26/06	ND	1.1	3.7	1.5	ND	NS	ND	1.1	ND	NS	NS	NS	4.0	1.3	11.0	16.0	NS
12/21/06	ND	1.0	4.0	4.0	ND	ND	2.0	ND	26.0	8.0	ND	2.0	6.0	2.0	7.0	23.0	1.0
03/22/07	ND	2.0	5.0	3.0	ND	NS	ND	ND	1.0	NS	NS	NS	2.0	ND	4.0	14.0	NS
06/20/07	ND	1.0	9.0	ND	ND	NS	ND	16.0	3.0	NS	NS	NS	1.0	ND	2.0	NS	NS
09/27/07	ND	2.0	8.0	ND	ND	NS	ND	ND	1.0	NS	NS	NS	ND	3.0	2.0	2.0	NS
12/11/07	ND	1.0	7.0	2.0	ND	2.0	ND	ND	2.0	5.0	ND	4.0	7.0	2.0	4.0	NS	10
03/31/08	ND	1.0	5.0	2.0	ND	NS	ND	ND	ND	NS	NS	NS	3.0	1.0	3.0	6.0	NS
06/17/08	ND	1.0	5.0	2.0	ND	NS	1.0	ND	ND	NS	NS	NS	2.0	ND	3.0	2.0	NS
09/29/08	ND	ND	7.0	3.0	ND	NS	1.0	ND	1.0	NS	NS	NS	3.0	2.0	3.0	5.0	NS
12/18/08	2.0	1.0	5.0	ND	ND	2.0	1.0	ND	ND	5.0	1.0	3.0	2.0	2.0	4.0	5.0	8.0
03/17/09	ND	2.0	5.0	ND	ND	NS	ND	ND	NS	NS	NS	NS	NS	ND	2.0	2.0	1.0
06/11/09	0.0	1.0	7.0	0.0	0.0	NS	0.0	0.0	ND	NS	NS	NS	0.0	0.0	0.0	0.0	NS
09/30/09	ND	1.0	11.0	2.0	ND	NS	ND	ND	ND	NS	NS	NS	1.0	ND	2.0	2.0	NS
12/16/09	ND	1.0	5.0	1.0	ND	ND	1.0	ND	ND	5.0	1.0	2.0	2.0	ND	2.0	4.0	9.0
03/17/10	ND	1.0	3.0	2.0	ND	NS	ND	ND	16.0	NS	NS	NS	2.0	ND	2.0	3.0	NS
06/16/10	ND	1.0	4.0	ND	ND	NS	1.0	ND	1.0	NS	NS	NS	ND	ND	3.0	1.0	NS
09/23/10	ND	1.0	4.0	1.0	ND	NS	ND	ND	18.0	NS	NS	NS	ND	2.0	3.0	NS	NS
12/09/10	ND	ND	3.0	2.0	ND	ND	2.0	ND	3.0	3.0	ND	ND	1.0	3.0	4.0	4.0	18.0
03/17/11	ND	ND	3.0	ND	ND	NS	ND	ND	11.0	NS	NS	NS	2.0	ND	2.0	2.0	NS
06/15/11	ND	ND	4.0	ND	ND	NS	1.0	ND	ND	NS	NS	NS	ND	ND	2.0	1.0	NS
09/27/11	ND	ND	3.0	2.0	ND	NS	2.0	ND	3.0	NS	NS	NS	2.0	2.0	2.0	2.0	NS
12/15/11	ND	ND	3.0	ND	ND	ND	ND	ND	2.0	3.0	ND	ND	1.0	2.0	3.0	2.0	9.0
03/12/12	ND	ND	5.0	8.0	ND	NS	ND	2.0	NS	NS	NS	NS	3.0	2.0	3.0	1.0	NS
06/14/12	ND	ND	2.0	NS	ND	NS	ND	ND	18.0	7.0	NS	NS	ND	NS	ND	2.0	1.0
09/11/12	ND	ND	6.0	1.4	2.6	NS	1.6	ND	1.4	NS	NS	NS	1.4	2.0	1.6	2.9	NS
01/09/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.0	ND	ND	ND	ND	ND	15.0
03/21/13	ND	ND	1.4	ND	ND	NS	ND	ND	ND	ND	NS	NS	ND	ND	ND	ND	NS
06/24/13	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	17
09/19/13	NS	NS	NS	NS	NS	NS	NS	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	ND	ND	ND	1.3	2.4	NS	ND
08/12/15	3	5.4	7.3	13	3.5	ND	3.4	ND	24	3.0	1.5	ND	1	1.2	2.4	NS	1.7
06/14/16	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	20	ND	ND	ND	2.2	NS	2.1
10/02/17	ND	ND	1.6	ND	ND	ND	ND	ND	ND	3.3	ND	ND	ND	1.4	NS	NS	21.9
10/16/18	ND	0.45	0.92	1.4	0.88	ND	0.45	ND	6.5	3.8	0.2	ND	0.2	1.2	1.9	NS	4.8
03/01/20	ND	ND	2.8	ND	ND	ND	ND	ND	ND	2.9	1.7	ND	ND	1.8	1.4	NS	ND
11/12/20	NS	NS	NS	NS	NS	NS	NS	ND	2.5	NS	NS	NS	NS	NS	NS	NS	NS
12/14/20	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS
01/14/21	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS
02/17/21	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS
03/23/21	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS
04/20/21	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS
06/23/21	NS	1.6	2.0	ND	ND	ND	1.4	ND	1.4	ND	ND	ND	ND	1.3	1.2	NS	ND
09/20/22	ND	ND	2.0	ND	ND	ND	NS	ND	ND	1.0	1.4	ND	ND	1.5	2.2	NS	ND
12/20/23	ND	ND	1.1	ND	ND	ND	ND	ND	2	4.2	ND	ND	ND	ND	ND	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 9
Multi-Level Well Historical Sampling Results

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

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

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

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

TABLE 9
Multi-Level Well Historical Sampling Results

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

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

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

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

TABLE 9
Multi-Level Well Historical Sampling Results

		March-20			November-20			December-20			January-21			February-21			March-21			April-21		
Well	Interval	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
G	89.5-90	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
F	99.5-100	NS	NS	NS	ND	ND	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C	129.5-130	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B	139.5-140	ND	2.3	ND	ND	3.2	ND	ND	3.4	ND	1.0	6.0	9.6	1.7	14.1	23.2	2.2	16.8	20.0	2.5	20.9	18.3
A	149.5-150	2.6	3.1	ND	3.3	5.3	ND	2.4	6.1	ND	4.6	ND	3.3	13.7	11.2	5.5	6.0	13.3	5.6	8.9	22.9	10.7

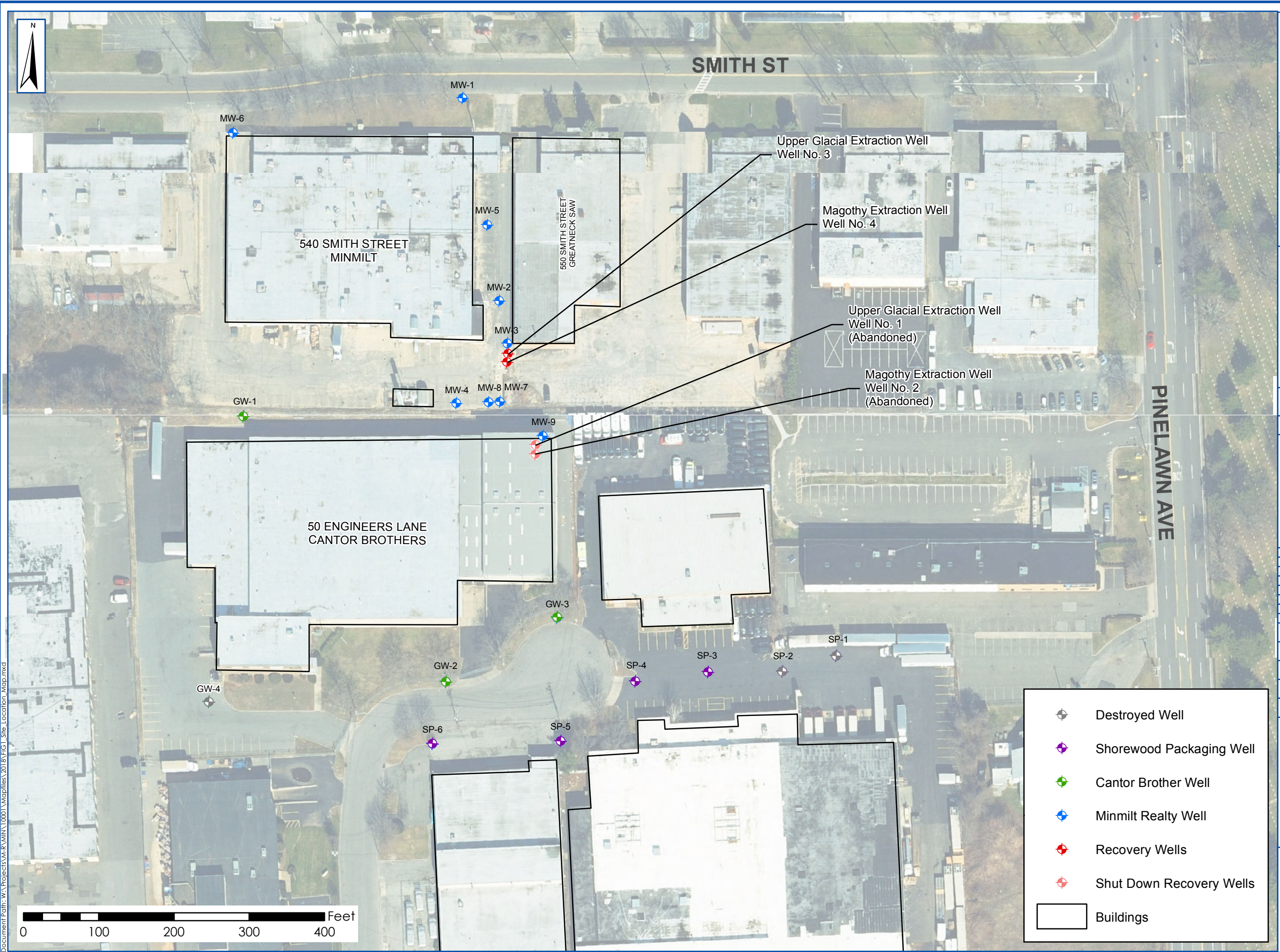
		June-21			September-21			October-21			November-21			December-21			January-22			February-22		
Well	Interval	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
G	89.5-90	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
F	99.5-100	NS	NS	NS	ND	ND	ND	ND	1.2	2.6	ND	1.4	2.3	ND	ND	ND	ND	1.1	2.2	ND	ND	ND
C	129.5-130	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B	139.5-140	ND	10.7	20.8	ND	20.6	12.9	ND	24.8	23.1	60.3	73.7	33.5	21.1	38.6	26.2	3.2	40.9	43.3	3.6	5.79	57.2
A	149.5-150	2.6	10.3	4.1	1.8	17.2	8.3	1.6	21.2	7.2	1.5	16.9	9.2	1.7	14.2	9.1	2.4	11.8	9.4	1.8	11.4	5.2

		March-22			April-22			May-22			June-22			September-22			December-23		
Well	Interval	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
G	89.5-90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS
F	99.5-100	ND	ND	ND	ND	1.9	2.5	ND	ND	2.1	ND	ND	2.1	NS	NS	NS	NS	NS	NS
C	129.5-130	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND
B	139.5-140	2.1	33.6	46.6	4.2	66.7	252	ND	27.9	133	ND	22.9	153	1.1	14.5	126	50.2	242	95.2
A	149.5-150	2.1	12.2	4.7	1.4	9.8	3.8	1.4	10.1	4.9	1.3	10.2	6.7	2.7	8.3	4.1	2.0	4.7	2.4

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

FIGURES





Document Path: W:\Projects\W-R\MIN 1000\Mapfiles 2018\FIG 3 Site Location Map.mxd



P.W. Grosser Consulting, Inc.

630 Johnson Ave., Suite 7
Bohemia, NY 11716
Ph: 631-589-6353 • Fax: 631-589-8705
pwgc.info@pwggrosser.com

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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:



Document Path: W:\Projects\M-R\MIN\10001\Mapfiles\2023\GWContours.aprx



P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.

630 Johnson Ave., Suite 7
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2019 PERIODIC REVIEW REPORT
MINMILT REALTY CORP.
352 CARNATION DRIVE
FARMINGDALE, NY 11735

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	MIN1001	Designed by:	RM
Date:	3/7/2024	Drawn by:	KM
Scale:	AS SHOWN	Approved by:	RM

GROUNDWATER CONTOUR MAP - DECEMBER 20, 2023

540 SMITH ST
EAST FARMINGDALE, NY

FIGURE NO:

GRAPHS



Figure 2
Tetrachloroethylene Concentrations
Combined RW System Influent

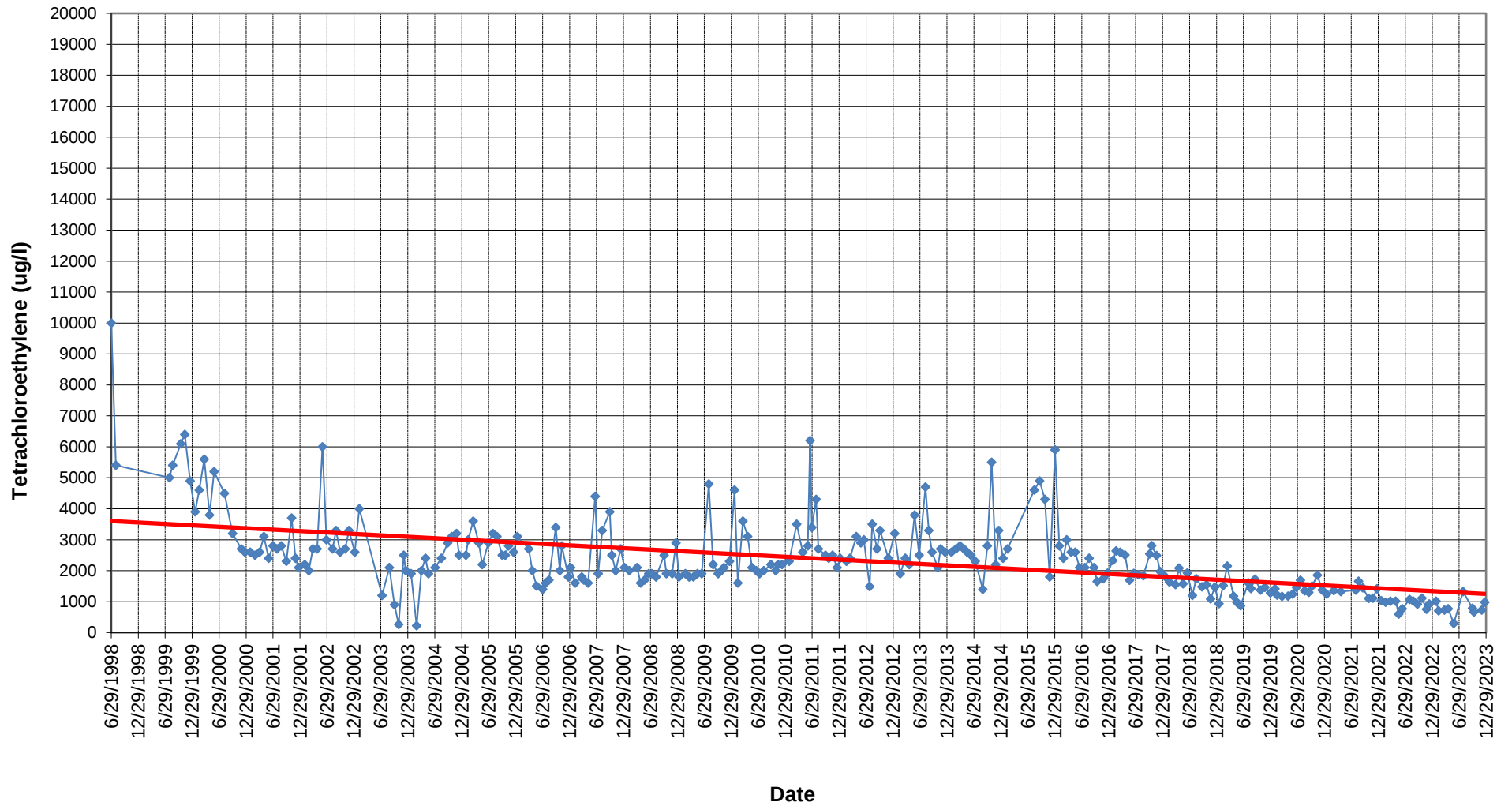


Figure 3
Total Volatile Organic Concentrations
Combined RW System Influent

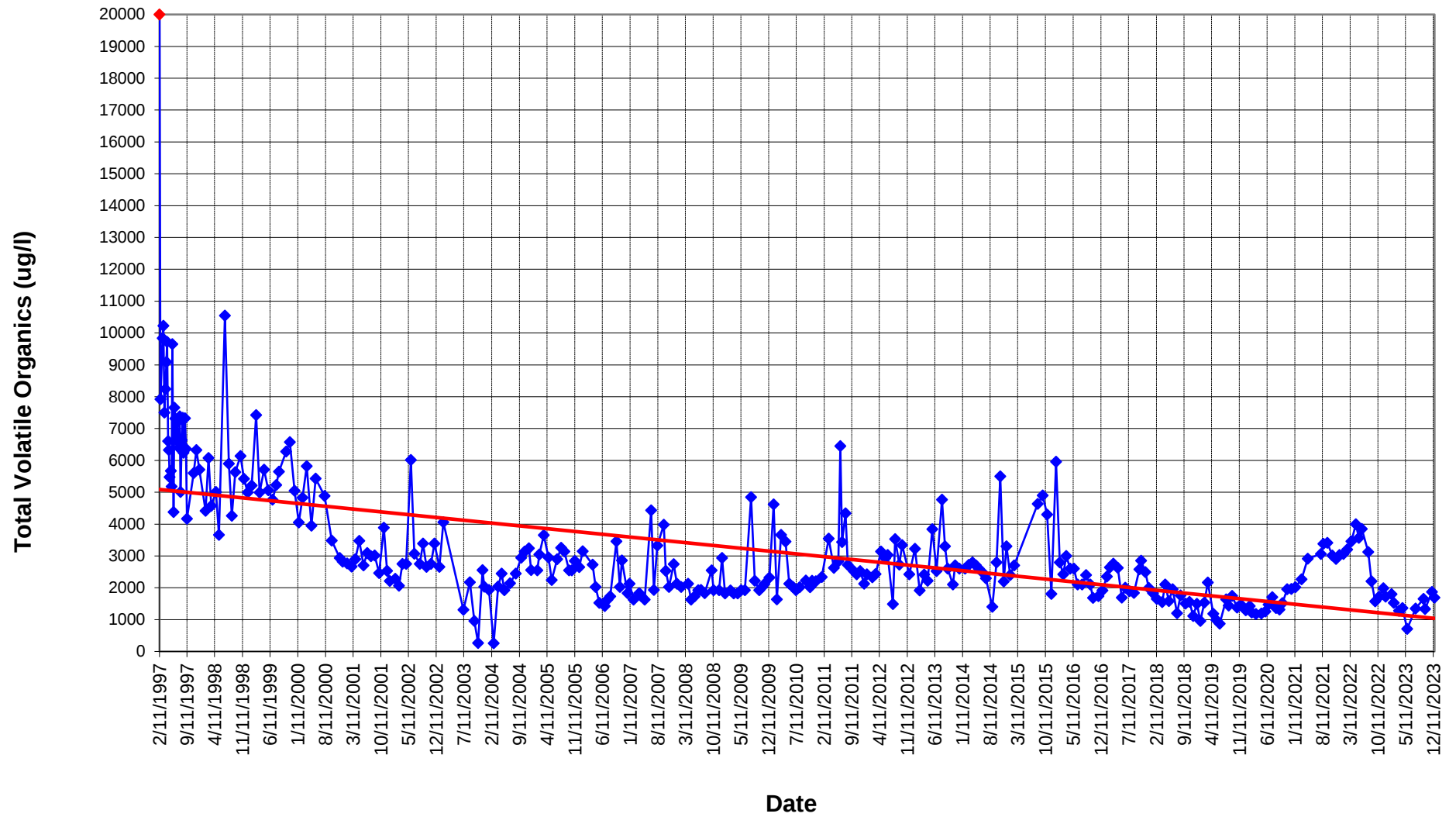
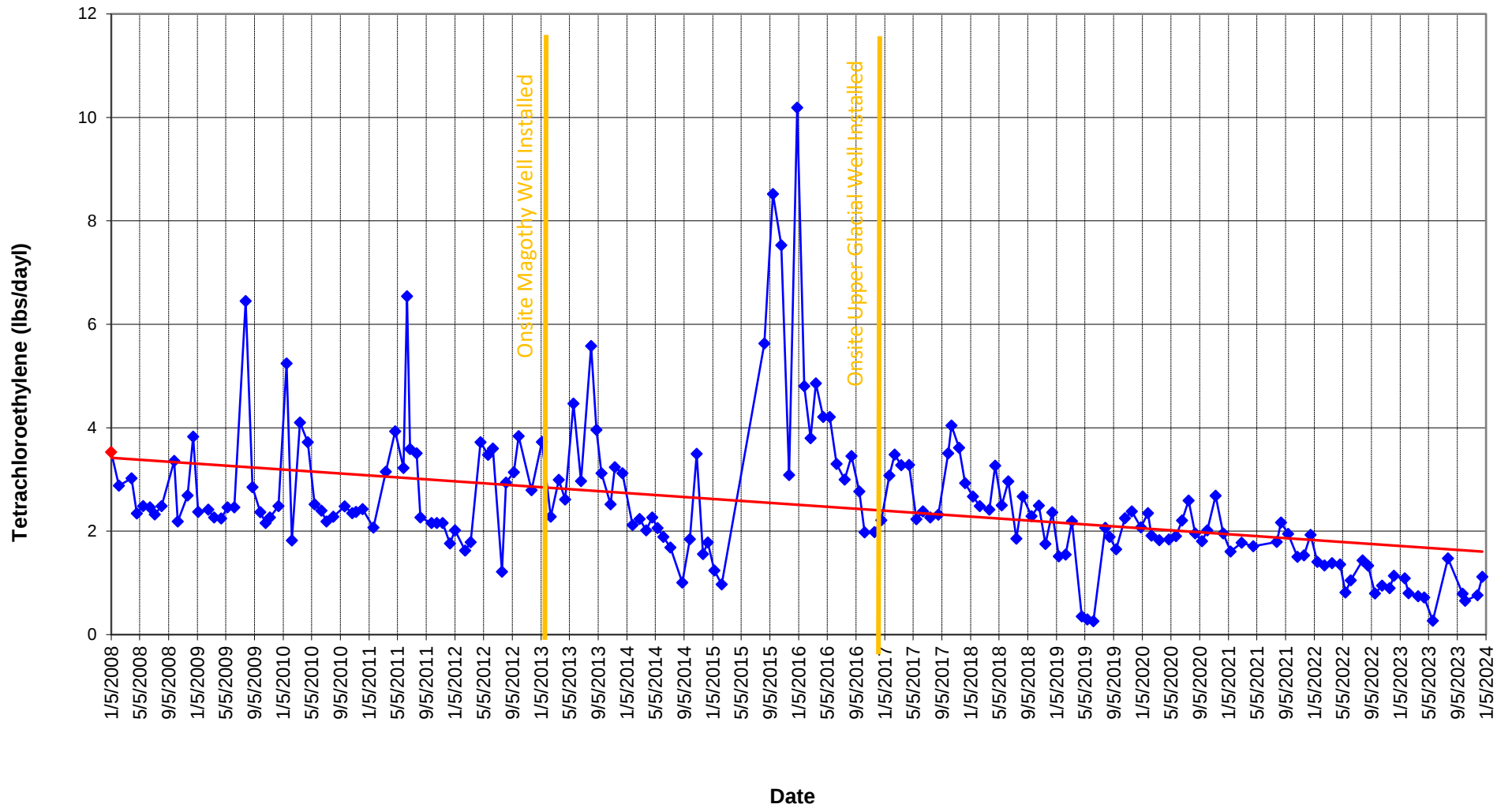


Figure 4
Tetrachloroethylene Removal Rates
January 2008 through December 2023
Combined GW System Influent



APPENDIX A



Annual Inspection Checklist

MINMILT REALTY SITE

540 SMITH STREET

FARMINGDALE, NEW YORK

Date: December 28, 2023

Inspector (name/organization): Ryan Morley / 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

Ryan Morley

12/28/2023

Name

Signature

Date

APPENDIX B



October 31, 2022

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

RE: Project: MINMILT/MIN 1001
Pace Project No.: 70233890

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on October 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/MIN 1001

Pace Project No.: 70233890

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT/MIN 1001

Pace Project No.: 70233890

Sample: SYS-EFF		Lab ID: 70233890001		Collected: 10/20/22 09:30		Received: 10/20/22 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	790	ug/L	100	1	10/28/22 11:34	10/28/22 18:43	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/27/22 17:23	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/27/22 17:23	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/27/22 17:23	79-00-5	IC	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/27/22 17:23	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/27/22 17:23	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/27/22 17:23	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		10/27/22 17:23	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/27/22 17:23	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/27/22 17:23	78-93-3	IL	
2-Hexanone	<5.0	ug/L	5.0	1		10/27/22 17:23	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/27/22 17:23	108-10-1		
Acetone	<5.0	ug/L	5.0	1		10/27/22 17:23	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		10/27/22 17:23	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		10/27/22 17:23	75-27-4	IC	
Bromoform	<1.0	ug/L	1.0	1		10/27/22 17:23	75-25-2	IC	
Bromomethane	<1.0	ug/L	1.0	1		10/27/22 17:23	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		10/27/22 17:23	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/27/22 17:23	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		10/27/22 17:23	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		10/27/22 17:23	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		10/27/22 17:23	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		10/27/22 17:23	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		10/27/22 17:23	124-48-1	IC	
Ethylbenzene	<1.0	ug/L	1.0	1		10/27/22 17:23	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		10/27/22 17:23	75-09-2	v3	
Styrene	<1.0	ug/L	1.0	1		10/27/22 17:23	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		10/27/22 17:23	127-18-4		
Toluene	<1.0	ug/L	1.0	1		10/27/22 17:23	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		10/27/22 17:23	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		10/27/22 17:23	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		10/27/22 17:23	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/27/22 17:23	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/27/22 17:23	10061-02-6	IC,L2	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		10/27/22 17:23	17060-07-0		
4-Bromofluorobenzene (S)	96	%	79-118	1		10/27/22 17:23	460-00-4		
Toluene-d8 (S)	102	%	82-122	1		10/27/22 17:23	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	7.1	Std. Units	0.10	1		10/20/22 20:42		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT/MIN 1001

Pace Project No.: 70233890

Sample: SYS-EFF		Lab ID: 70233890001	Collected: 10/20/22 09:30	Received: 10/20/22 09:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	12.1	deg C	0.10	1		10/20/22 20:42		H3,H6

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ANALYTICAL RESULTS

Project: MINMILT/MIN 1001

Pace Project No.: 70233890

Sample: SYS-INF		Lab ID: 70233890002		Collected: 10/20/22 09:30		Received: 10/20/22 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	1520	ug/L	100	1	10/28/22 11:34	10/28/22 19:03	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/27/22 20:10	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/27/22 20:10	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/27/22 20:10	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/27/22 20:10	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/27/22 20:10	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/27/22 20:10	107-06-2		
1,2-Dichloroethene (Total)	522	ug/L	40.0	20		10/28/22 13:54	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/27/22 20:10	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/27/22 20:10	78-93-3	IL	
2-Hexanone	<5.0	ug/L	5.0	1		10/27/22 20:10	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/27/22 20:10	108-10-1		
Acetone	<5.0	ug/L	5.0	1		10/27/22 20:10	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		10/27/22 20:10	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		10/27/22 20:10	75-27-4	IC	
Bromoform	<1.0	ug/L	1.0	1		10/27/22 20:10	75-25-2	IC	
Bromomethane	<1.0	ug/L	1.0	1		10/27/22 20:10	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		10/27/22 20:10	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/27/22 20:10	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		10/27/22 20:10	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		10/27/22 20:10	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		10/27/22 20:10	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		10/27/22 20:10	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		10/27/22 20:10	124-48-1	IC	
Ethylbenzene	<1.0	ug/L	1.0	1		10/27/22 20:10	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		10/27/22 20:10	75-09-2	v3	
Styrene	<1.0	ug/L	1.0	1		10/27/22 20:10	100-42-5		
Tetrachloroethene	1110	ug/L	20.0	20		10/28/22 13:54	127-18-4		
Toluene	<1.0	ug/L	1.0	1		10/27/22 20:10	108-88-3		
Trichloroethene	76.9	ug/L	1.0	1		10/27/22 20:10	79-01-6		
Vinyl chloride	12.5	ug/L	1.0	1		10/27/22 20:10	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		10/27/22 20:10	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/27/22 20:10	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/27/22 20:10	10061-02-6	IC,L2	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	81-122	1		10/27/22 20:10	17060-07-0		
4-Bromofluorobenzene (S)	97	%	79-118	1		10/27/22 20:10	460-00-4		
Toluene-d8 (S)	101	%	82-122	1		10/27/22 20:10	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	5.7	Std. Units	0.10	1		10/20/22 20:43		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT/MIN 1001

Pace Project No.: 70233890

Sample: SYS-INF		Lab ID: 70233890002		Collected: 10/20/22 09:30		Received: 10/20/22 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	11.5	deg C	0.10	1		10/20/22 20:43		H3,H6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT/MIN 1001

Pace Project No.: 70233890

QC Batch: 279770

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: 70233890001, 70233890002

METHOD BLANK: 1414405

Matrix: Water

Associated Lab Samples: 70233890001, 70233890002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	10/28/22 18:37	

LABORATORY CONTROL SAMPLE: 1414406

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

MATRIX SPIKE SAMPLE: 1414408

Parameter	Units	70233890001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	790	12500	12100	90	70-130	

MATRIX SPIKE SAMPLE: 1414410

Parameter	Units	70233890002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1520	12500	12900	91	70-130	

SAMPLE DUPLICATE: 1414407

Parameter	Units	70233890001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	790	803	2	

SAMPLE DUPLICATE: 1414409

Parameter	Units	70233890002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1520	1520	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT/MIN 1001

Pace Project No.: 70233890

QC Batch: 279596

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70233890001, 70233890002

METHOD BLANK: 1413645

Matrix: Water

Associated Lab Samples: 70233890001, 70233890002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/27/22 11:13	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	10/27/22 11:13	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	10/27/22 11:13	IC
1,1-Dichloroethane	ug/L	<1.0	1.0	10/27/22 11:13	
1,1-Dichloroethene	ug/L	<1.0	1.0	10/27/22 11:13	
1,2-Dichloroethane	ug/L	<1.0	1.0	10/27/22 11:13	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	10/27/22 11:13	
1,2-Dichloropropane	ug/L	<1.0	1.0	10/27/22 11:13	
2-Butanone (MEK)	ug/L	<5.0	5.0	10/27/22 11:13	IL
2-Hexanone	ug/L	<5.0	5.0	10/27/22 11:13	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	10/27/22 11:13	
Acetone	ug/L	<5.0	5.0	10/27/22 11:13	
Benzene	ug/L	<0.70	0.70	10/27/22 11:13	
Bromodichloromethane	ug/L	<1.0	1.0	10/27/22 11:13	IC
Bromoform	ug/L	<1.0	1.0	10/27/22 11:13	IC
Bromomethane	ug/L	<1.0	1.0	10/27/22 11:13	
Carbon disulfide	ug/L	<1.0	1.0	10/27/22 11:13	
Carbon tetrachloride	ug/L	<1.0	1.0	10/27/22 11:13	
Chlorobenzene	ug/L	<1.0	1.0	10/27/22 11:13	
Chloroethane	ug/L	<1.0	1.0	10/27/22 11:13	
Chloroform	ug/L	<1.0	1.0	10/27/22 11:13	
Chloromethane	ug/L	<1.0	1.0	10/27/22 11:13	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	10/27/22 11:13	
Dibromochloromethane	ug/L	<1.0	1.0	10/27/22 11:13	IC
Ethylbenzene	ug/L	<1.0	1.0	10/27/22 11:13	
Methylene Chloride	ug/L	<1.0	1.0	10/27/22 11:13	v3
Styrene	ug/L	<1.0	1.0	10/27/22 11:13	
Tetrachloroethene	ug/L	<1.0	1.0	10/27/22 11:13	
Toluene	ug/L	<1.0	1.0	10/27/22 11:13	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	10/27/22 11:13	IC
Trichloroethene	ug/L	<1.0	1.0	10/27/22 11:13	
Vinyl chloride	ug/L	<1.0	1.0	10/27/22 11:13	
Xylene (Total)	ug/L	<3.0	3.0	10/27/22 11:13	
1,2-Dichloroethane-d4 (S)	%	104	81-122	10/27/22 11:13	
4-Bromofluorobenzene (S)	%	98	79-118	10/27/22 11:13	
Toluene-d8 (S)	%	103	82-122	10/27/22 11:13	

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QUALITY CONTROL DATA

Project: MINMILT/MIN 1001

Pace Project No.: 70233890

LABORATORY CONTROL SAMPLE: 1413646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	42.8	86	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	52.4	105	70-127	
1,1,2-Trichloroethane	ug/L	50	50.7	101	81-119	IC
1,1-Dichloroethane	ug/L	50	49.1	98	72-126	
1,1-Dichloroethene	ug/L	50	60.3	121	66-133	
1,2-Dichloroethane	ug/L	50	49.5	99	69-134	
1,2-Dichloroethene (Total)	ug/L	100	91.1	91	69-123	
1,2-Dichloropropane	ug/L	50	51.0	102	75-125	
2-Butanone (MEK)	ug/L	50	58.7	117	33-165	IL,v1
2-Hexanone	ug/L	50	49.1	98	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.0	100	62-131	
Acetone	ug/L	50	53.6	107	14-156	IC
Benzene	ug/L	50	51.0	102	78-117	
Bromodichloromethane	ug/L	50	45.9	92	80-123	IC
Bromoform	ug/L	50	40.2	80	49-138	IC
Bromomethane	ug/L	50	35.2	70	10-143	
Carbon disulfide	ug/L	50	53.9	108	66-133	
Carbon tetrachloride	ug/L	50	35.0	70	64-135	
Chlorobenzene	ug/L	50	52.5	105	79-117	
Chloroethane	ug/L	50	42.4	85	31-156	
Chloroform	ug/L	50	49.5	99	79-123	
Chloromethane	ug/L	50	36.9	74	39-116	v3
cis-1,3-Dichloropropene	ug/L	50	41.5	83	78-131	
Dibromochloromethane	ug/L	50	43.9	88	65-123	IC
Ethylbenzene	ug/L	50	52.4	105	79-115	
Methylene Chloride	ug/L	50	46.5	93	67-123	v3
Styrene	ug/L	50	55.9	112	82-121	
Tetrachloroethene	ug/L	50	50.6	101	65-120	
Toluene	ug/L	50	50.3	101	80-114	
trans-1,3-Dichloropropene	ug/L	50	36.2	72	73-135	IC,L2
Trichloroethene	ug/L	50	50.4	101	79-115	
Vinyl chloride	ug/L	50	38.3	77	49-118	
Xylene (Total)	ug/L	150	155	103	80-118	
1,2-Dichloroethane-d4 (S)	%			98	81-122	
4-Bromofluorobenzene (S)	%			97	79-118	
Toluene-d8 (S)	%			103	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1414085 1414086

Parameter	Units	70234728004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	27.1	37.3	54	75	72-123	32	M1,R1
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	31.1	43.7	62	87	64-133	34	M1,R1
1,1,2-Trichloroethane	ug/L	109	50	50	143	155	68	92	78-120	8	IC,M1
1,1-Dichloroethane	ug/L	<1.0	50	50	33.3	41.9	67	84	70-124	23	M1,R1

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QUALITY CONTROL DATA

Project: MINMILT/MIN 1001

Pace Project No.: 70233890

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1414085	1414086								
Parameter	70234728004		MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.								
1,1-Dichloroethene	ug/L	2.1	50	50	35.5	41.5	67	79	61-139	16		
1,2-Dichloroethane	ug/L	<1.0	50	50	32.6	41.7	65	83	58-138	24	R1	
1,2-Dichloroethene (Total)	ug/L	50.9	100	100	109	127	58	76	59-133	15		
1,2-Dichloropropane	ug/L	<1.0	50	50	33.8	43.1	68	86	74-122	24	M1,R1	
2-Butanone (MEK)	ug/L	<5.0	50	50	35.1	49.2	70	98	33-148	33	IL,R1,v1	
2-Hexanone	ug/L	<5.0	50	50	35.4	48.7	62	89	49-124	32	R1	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	35.9	50.5	72	101	60-136	34	R1	
Acetone	ug/L	<5.0	50	50	29.5	36.3	52	66	35-112	21	IC,R1	
Benzene	ug/L	<1.0	50	50	35.4	44.1	71	88	70-130	22	R1	
Bromodichloromethane	ug/L	<1.0	50	50	27.1	38.2	54	76	74-122	34	IC,M1,R1	
Bromoform	ug/L	<1.0	50	50	21.5	34.7	43	69	39-139	47	IC,R1	
Bromomethane	ug/L	<1.0	50	50	24.4	33.0	49	66	10-130	30	R1	
Carbon disulfide	ug/L	<1.0	50	50	26.7	33.2	53	66	60-129	22	M1,R1	
Carbon tetrachloride	ug/L	<1.0	50	50	21.3	31.2	43	62	56-143	37	M1,R1	
Chlorobenzene	ug/L	<1.0	50	50	35.1	44.5	70	89	74-122	23	M1,R1	
Chloroethane	ug/L	<1.0	50	50	32.3	39.4	65	79	35-146	20		
Chloroform	ug/L	<1.0	50	50	33.2	42.0	66	84	71-129	24	M1,R1	
Chloromethane	ug/L	<1.0	50	50	23.9	29.6	48	59	29-112	21	R1,v3	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	23.7	33.4	47	67	67-130	34	M1,R1	
Dibromochloromethane	ug/L	<1.0	50	50	25.1	38.3	50	77	55-126	42	IC,M1,R1	
Ethylbenzene	ug/L	<1.0	50	50	35.1	43.9	70	88	70-126	22	R1	
Methylene Chloride	ug/L	<1.0	50	50	22.5	29.1	45	58	69-117	25	M1,R1,v3	
Styrene	ug/L	<1.0	50	50	36.2	46.1	72	92	79-123	24	M1,R1	
Tetrachloroethene	ug/L	4850	50	50	1850	1980	-6000	-5750	64-124	6	E,M1	
Toluene	ug/L	<1.0	50	50	35.6	44.1	71	88	76-123	21	M1,R1	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	19.0	28.6	38	57	61-130	40	IC,M0,R1	
Trichloroethene	ug/L	236	50	50	269	286	66	99	73-125	6	E,M1	
Vinyl chloride	ug/L	<1.0	50	50	28.7	35.7	57	71	33-127	22	R1	
Xylene (Total)	ug/L	<3.0	150	150	102	129	68	86	78-123	24	MS,RS	
1,2-Dichloroethane-d4 (S)	%						106	104	81-122			
4-Bromofluorobenzene (S)	%						98	98	79-118			
Toluene-d8 (S)	%						101	100	82-122			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT/MIN 1001

Pace Project No.: 70233890

QC Batch: 278752

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: 70233890001, 70233890002

SAMPLE DUPLICATE: 1409189

Parameter	Units	70232640002 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.7	7.7		0 H3,H6,N3
Temperature, Water (C)	deg C	22.6	22.6		0 H3,H6

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QUALIFIERS

Project: MINMILT/MIN 1001
Pace Project No.: 70233890

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.
 IC The initial calibration for this compound was outside of method control limits. The result is estimated.
 IL This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
 L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
 M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
 M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
 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.
 R1 RPD value was outside control limits.
 RS The RPD value in one of the constituent analytes was outside the 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/MIN 1001

Pace Project No.: 70233890

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70233890001	SYS-EFF	EPA 200.7	279770	EPA 200.7	279807
70233890002	SYS-INF	EPA 200.7	279770	EPA 200.7	279807
70233890001	SYS-EFF	EPA 8260C/5030C	279596		
70233890002	SYS-INF	EPA 8260C/5030C	279596		
70233890001	SYS-EFF	SM22 4500-H+B	278752		
70233890002	SYS-INF	SM22 4500-H+B	278752		

REPORT OF LABORATORY ANALYSIS

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December 01, 2022

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

RE: Project: MINMIL T/MIN 1001 11/21
Pace Project No.: 70237454

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on November 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: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

Sample: SYS - EFF		Lab ID: 70237454001	Collected: 11/21/22 08:40	Received: 11/21/22 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville						
Iron	3940	ug/L	100	1	11/30/22 09:24	11/30/22 18:08	7439-89-6	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/22/22 01:32	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/22/22 01:32	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/22/22 01:32	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/22/22 01:32	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		11/22/22 01:32	75-35-4	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/22/22 01:32	107-06-2	
1,2-Dichloroethene (Total)	3.1	ug/L	2.0	1		11/22/22 01:32	540-59-0	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/22/22 01:32	78-87-5	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/22/22 01:32	78-93-3	L1
2-Hexanone	<5.0	ug/L	5.0	1		11/22/22 01:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/22/22 01:32	108-10-1	
Acetone	<5.0	ug/L	5.0	1		11/22/22 01:32	67-64-1	
Benzene	<0.70	ug/L	0.70	1		11/22/22 01:32	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		11/22/22 01:32	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		11/22/22 01:32	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		11/22/22 01:32	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		11/22/22 01:32	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/22/22 01:32	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		11/22/22 01:32	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		11/22/22 01:32	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		11/22/22 01:32	67-66-3	
Chloromethane	1.5	ug/L	1.0	1		11/22/22 01:32	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		11/22/22 01:32	124-48-1	
Ethylbenzene	<1.0	ug/L	1.0	1		11/22/22 01:32	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		11/22/22 01:32	75-09-2	
Styrene	<1.0	ug/L	1.0	1		11/22/22 01:32	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		11/22/22 01:32	127-18-4	
Toluene	<1.0	ug/L	1.0	1		11/22/22 01:32	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		11/22/22 01:32	79-01-6	
Vinyl chloride	<1.0	ug/L	1.0	1		11/22/22 01:32	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		11/22/22 01:32	1330-20-7	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/22/22 01:32	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/22/22 01:32	10061-02-6	IC
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		11/22/22 01:32	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		11/22/22 01:32	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		11/22/22 01:32	2037-26-5	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	7.5	Std. Units	0.10	1		11/26/22 21:31		H3,H6, N3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

Sample: SYS - EFF		Lab ID: 70237454001	Collected: 11/21/22 08:40	Received: 11/21/22 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	14.7	deg C	0.10	1		11/26/22 21:31		H3,H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

Sample: SYS - INF		Lab ID: 70237454002		Collected: 11/21/22 08:50		Received: 11/21/22 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	3930	ug/L	100	1	11/30/22 09:24	11/30/22 18:11	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		11/22/22 03:47	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		11/22/22 03:47	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		11/22/22 03:47	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		11/22/22 03:47	75-34-3		
1,1-Dichloroethene	1.4	ug/L	1.0	1		11/22/22 03:47	75-35-4	v1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		11/22/22 03:47	107-06-2		
1,2-Dichloroethene (Total)	934	ug/L	100	50		11/22/22 18:05	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		11/22/22 03:47	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		11/22/22 03:47	78-93-3	L1	
2-Hexanone	<5.0	ug/L	5.0	1		11/22/22 03:47	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		11/22/22 03:47	108-10-1		
Acetone	<5.0	ug/L	5.0	1		11/22/22 03:47	67-64-1		
Benzene	<0.70	ug/L	0.70	1		11/22/22 03:47	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		11/22/22 03:47	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		11/22/22 03:47	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		11/22/22 03:47	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		11/22/22 03:47	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		11/22/22 03:47	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		11/22/22 03:47	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		11/22/22 03:47	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		11/22/22 03:47	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		11/22/22 03:47	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		11/22/22 03:47	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		11/22/22 03:47	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		11/22/22 03:47	75-09-2		
Styrene	<1.0	ug/L	1.0	1		11/22/22 03:47	100-42-5		
Tetrachloroethene	751	ug/L	50.0	50		11/22/22 18:05	127-18-4		
Toluene	<1.0	ug/L	1.0	1		11/22/22 03:47	108-88-3		
Trichloroethene	180	ug/L	1.0	1		11/22/22 03:47	79-01-6		
Vinyl chloride	120	ug/L	1.0	1		11/22/22 03:47	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		11/22/22 03:47	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/22/22 03:47	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		11/22/22 03:47	10061-02-6	IC	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		11/22/22 03:47	17060-07-0		
4-Bromofluorobenzene (S)	101	%	79-118	1		11/22/22 03:47	460-00-4		
Toluene-d8 (S)	93	%	82-122	1		11/22/22 03:47	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.3	Std. Units	0.10	1		11/26/22 21:32		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

Sample: SYS - INF		Lab ID: 70237454002	Collected: 11/21/22 08:50	Received: 11/21/22 09:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	14.5	deg C	0.10	1		11/26/22 21:32		H3,H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

QC Batch: 284034

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: 70237454001, 70237454002

METHOD BLANK: 1435184

Matrix: Water

Associated Lab Samples: 70237454001, 70237454002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	11/30/22 17:03	

LABORATORY CONTROL SAMPLE: 1435185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12700	102	85-115	

MATRIX SPIKE SAMPLE: 1435187

Parameter	Units	70237638001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	4130	5000	8950	96	70-130	

MATRIX SPIKE SAMPLE: 1435189

Parameter	Units	70237644001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<1.0 mg/L	5000	4960	90	70-130	

SAMPLE DUPLICATE: 1435186

Parameter	Units	70237638001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	4130	4030	2	

SAMPLE DUPLICATE: 1435188

Parameter	Units	70237644001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<1.0 mg/L	<1000		

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QUALITY CONTROL DATA

Project: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

QC Batch: 283145

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70237454001, 70237454002

METHOD BLANK: 1431180

Matrix: Water

Associated Lab Samples: 70237454001, 70237454002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/21/22 22:52	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	11/21/22 22:52	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	11/21/22 22:52	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/21/22 22:52	
1,1-Dichloroethene	ug/L	<1.0	1.0	11/21/22 22:52	
1,2-Dichloroethane	ug/L	<1.0	1.0	11/21/22 22:52	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	11/21/22 22:52	
1,2-Dichloropropane	ug/L	<1.0	1.0	11/21/22 22:52	
2-Butanone (MEK)	ug/L	<5.0	5.0	11/21/22 22:52	
2-Hexanone	ug/L	<5.0	5.0	11/21/22 22:52	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	11/21/22 22:52	
Acetone	ug/L	<5.0	5.0	11/21/22 22:52	
Benzene	ug/L	<0.70	0.70	11/21/22 22:52	
Bromodichloromethane	ug/L	<1.0	1.0	11/21/22 22:52	
Bromoform	ug/L	<1.0	1.0	11/21/22 22:52	
Bromomethane	ug/L	<1.0	1.0	11/21/22 22:52	
Carbon disulfide	ug/L	<1.0	1.0	11/21/22 22:52	
Carbon tetrachloride	ug/L	<1.0	1.0	11/21/22 22:52	
Chlorobenzene	ug/L	<1.0	1.0	11/21/22 22:52	
Chloroethane	ug/L	<1.0	1.0	11/21/22 22:52	
Chloroform	ug/L	<1.0	1.0	11/21/22 22:52	
Chloromethane	ug/L	<1.0	1.0	11/21/22 22:52	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	11/21/22 22:52	
Dibromochloromethane	ug/L	<1.0	1.0	11/21/22 22:52	
Ethylbenzene	ug/L	<1.0	1.0	11/21/22 22:52	
Methylene Chloride	ug/L	<1.0	1.0	11/21/22 22:52	
Styrene	ug/L	<1.0	1.0	11/21/22 22:52	
Tetrachloroethene	ug/L	<1.0	1.0	11/21/22 22:52	
Toluene	ug/L	<1.0	1.0	11/21/22 22:52	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	11/21/22 22:52	IC
Trichloroethene	ug/L	<1.0	1.0	11/21/22 22:52	
Vinyl chloride	ug/L	<1.0	1.0	11/21/22 22:52	
Xylene (Total)	ug/L	<3.0	3.0	11/21/22 22:52	
1,2-Dichloroethane-d4 (S)	%	104	81-122	11/21/22 22:52	
4-Bromofluorobenzene (S)	%	102	79-118	11/21/22 22:52	
Toluene-d8 (S)	%	95	82-122	11/21/22 22:52	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

LABORATORY CONTROL SAMPLE: 1431181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.5	117	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	70-127	
1,1,2-Trichloroethane	ug/L	50	54.7	109	81-119	
1,1-Dichloroethane	ug/L	50	60.2	120	72-126	
1,1-Dichloroethene	ug/L	50	63.0	126	66-133	v1
1,2-Dichloroethane	ug/L	50	60.3	121	69-134	
1,2-Dichloroethene (Total)	ug/L	100	114	114	69-123	
1,2-Dichloropropane	ug/L	50	58.0	116	75-125	
2-Butanone (MEK)	ug/L	50	85.3	171	33-165	L1,v1
2-Hexanone	ug/L	50	54.4	109	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	61.7	123	62-131	
Acetone	ug/L	50	60.7	121	14-156	v1
Benzene	ug/L	50	54.1	108	78-117	
Bromodichloromethane	ug/L	50	56.4	113	80-123	
Bromoform	ug/L	50	56.0	112	49-138	
Bromomethane	ug/L	50	51.8	104	10-143	IH
Carbon disulfide	ug/L	50	57.3	115	66-133	
Carbon tetrachloride	ug/L	50	56.5	113	64-135	
Chlorobenzene	ug/L	50	49.6	99	79-117	
Chloroethane	ug/L	50	57.0	114	31-156	
Chloroform	ug/L	50	60.4	121	79-123	
Chloromethane	ug/L	50	49.1	98	39-116	
cis-1,3-Dichloropropene	ug/L	50	58.3	117	78-131	
Dibromochloromethane	ug/L	50	57.5	115	65-123	
Ethylbenzene	ug/L	50	49.6	99	79-115	
Methylene Chloride	ug/L	50	55.9	112	67-123	
Styrene	ug/L	50	51.2	102	82-121	
Tetrachloroethene	ug/L	50	48.1	96	65-120	
Toluene	ug/L	50	52.0	104	80-114	
trans-1,3-Dichloropropene	ug/L	50	61.6	123	73-135	IC,v1
Trichloroethene	ug/L	50	52.3	105	79-115	
Vinyl chloride	ug/L	50	54.5	109	49-118	
Xylene (Total)	ug/L	150	148	98	80-118	
1,2-Dichloroethane-d4 (S)	%			104	81-122	
4-Bromofluorobenzene (S)	%			99	79-118	
Toluene-d8 (S)	%			97	82-122	

MATRIX SPIKE SAMPLE: 1431680

Parameter	Units	70237382005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	59.2	118	72-123	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50.4	101	64-133	
1,1,2-Trichloroethane	ug/L	<1.0	50	53.5	107	78-120	
1,1-Dichloroethane	ug/L	<1.0	50	57.4	115	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	60.4	121	61-139	v1

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QUALITY CONTROL DATA

Project: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

MATRIX SPIKE SAMPLE: 1431680		70237382005	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	56.3	113	58-138	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	109	109	59-133	
1,2-Dichloropropane	ug/L	<1.0	50	57.9	116	74-122	
2-Butanone (MEK)	ug/L	<5.0	50	83.1	166	33-148	M0,v1
2-Hexanone	ug/L	<5.0	50	52.9	106	49-124	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	58.7	117	60-136	
Acetone	ug/L	13.2	50	59.9	93	35-112	v1
Benzene	ug/L	<1.0	50	54.7	108	70-130	
Bromodichloromethane	ug/L	<1.0	50	56.5	113	74-122	
Bromoform	ug/L	<1.0	50	47.6	95	39-139	
Bromomethane	ug/L	<1.0	50	32.8	66	10-130	IH
Carbon disulfide	ug/L	<1.0	50	54.8	110	60-129	
Carbon tetrachloride	ug/L	<1.0	50	56.3	113	56-143	
Chlorobenzene	ug/L	<1.0	50	47.1	94	74-122	
Chloroethane	ug/L	<1.0	50	56.2	112	35-146	
Chloroform	ug/L	<1.0	50	57.8	116	71-129	
Chloromethane	ug/L	<1.0	50	44.8	90	29-112	
cis-1,3-Dichloropropene	ug/L	<1.0	50	56.6	113	67-130	
Dibromochloromethane	ug/L	<1.0	50	51.6	103	55-126	
Ethylbenzene	ug/L	70.4	50	116	90	70-126	
Methylene Chloride	ug/L	<1.0	50	68.1	136	69-117	M1
Styrene	ug/L	<1.0	50	47.8	96	79-123	
Tetrachloroethene	ug/L	<1.0	50	47.1	94	64-124	
Toluene	ug/L	20.4	50	71.6	103	76-123	
trans-1,3-Dichloropropene	ug/L	<1.0	50	59.0	118	61-130	IC,v1
Trichloroethene	ug/L	<1.0	50	53.3	107	73-125	
Vinyl chloride	ug/L	<1.0	50	52.9	106	33-127	
Xylene (Total)	ug/L	122	150	260	92	78-123	
1,2-Dichloroethane-d4 (S)	%				107	81-122	
4-Bromofluorobenzene (S)	%				95	79-118	
Toluene-d8 (S)	%				91	82-122	

SAMPLE DUPLICATE: 1431679

Parameter	Units	70237382004	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	<2.0	<2.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Hexanone	ug/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

SAMPLE DUPLICATE: 1431679

Parameter	Units	70237382004 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	9.5	10.6	11	v1
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	29.4	30.9	5	
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	1.2	1.1	2	
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		IC
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	11.0		
1,2-Dichloroethane-d4 (S)	%	108	107		
4-Bromofluorobenzene (S)	%	99	96		
Toluene-d8 (S)	%	94	92		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

QC Batch:	283601	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: 70237454001, 70237454002

SAMPLE DUPLICATE: 1433259

Parameter	Units	70237281002 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	8.1	8.1		0 H3,H6,N3
Temperature, Water (C)	deg C	12.7	12.4		2 H3,H6

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MINMIL T/MIN 1001 11/21

Pace Project No.: 70237454

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.
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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMIL T/MIN 1001 11/21

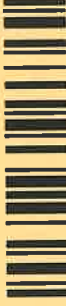
Pace Project No.: 70237454

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70237454001	SYS - EFF	EPA 200.7	284034	EPA 200.7	284112
70237454002	SYS - INF	EPA 200.7	284034	EPA 200.7	284112
70237454001	SYS - EFF	EPA 8260C/5030C	283145		
70237454002	SYS - INF	EPA 8260C/5030C	283145		
70237454001	SYS - EFF	SM22 4500-H+B	283601		
70237454002	SYS - INF	SM22 4500-H+B	283601		

REPORT OF LABORATORY ANALYSIS

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WO#: 70237454



70237454

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

Billing Information:

Company: *PW Grosser Consulting*

Address: *630 Johnson Ave, Bozeman, MT 59716*

Report To: *Karl Lynn Crosby*

Copy To: *Same as Client*

Email To: *Kercosby@pw-grosser.com*

Site Collection Info/Address: *540 Smith St*

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

Time Zone Collected: *ET*

Phone: *631-889-6353* Site/Facility ID #: *MIN/MT / M IN 1001*

Email: *Kercosby@pw-grosser.com*

Collected By (print): *Karl Lynn Crosby*

Turnaround Date Required: *Standard*

Sample Disposal: *[] Same Day [] Next Day*

[] 2 Day [] 3 Day [] 4 Day [] 5 Day

[] Archive: [] Held:

* 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

None

of Ctns

Wet

Blue

Dry

None

Type of Ice Used:

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Received by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

List Pace Workorder Number or

ire

LAB USE ONLY

Lab Project Manager:

Container Preservative Type **

** 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: Y N NA
Sample pH Acceptable Y N NA
pH Strips: *HC 2285* 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#: *TH144*
Cooler 1 Temp Upon Receipt: *42* oC
Cooler 1 Therm Corr. Factor: *1.1* oC
Cooler 1 Corrected Temp: *43* oC
Comments:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

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

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

Lab Tracking #: 2510884

Samples received via:

FEDEX UPS Client

Courier Pace Courier

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Date/Time:

11/21 9:45

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

11-21-22 0948

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Relinquished by/Company: (Signature)

[Signature]

Relinquished by/Company: (Signature)

[Signature]

Relinquished by/Company: (Signature)

[Signature]

W0#: 70237454

Due Date: 12/07/22

PM: GFD

CLIENT: PWG

Client:

PWG

Profile #

5382

Use Point Number Spreadsheet

WORK ORDER:	Notes
MLN MIL T/MIN (00)	11/21

$MI_{NMI, IL} T/mIN (\infty) \quad 11/24$

Notes

[illegible]

Container Loads

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	Oil
WP	Wipe
DW	Drinking Water

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium
AG2U	500mL unpres amber

* Can also be a BP4N

Material Codes	Glass		Plastic		Misc.		
VG39U	40mL unpres clear vial	AG4U	125mL unpres amber	BP4U	125mL unpreserved	SP5T	120mL Coliform Na Thio
VG8C	40mL Ascorbic-HCl	AG3U	250mL unpres amber	BP3U	250mL unpreserved	R	Terracore Kit
VG39H	40mL HCl clear vial	AG2U	500mL unpres amber	BP2U	500mL unpreserved	WG2U	4oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL	BP4N	125mL HNO3 plastic	WG3U	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na	AG3S	250mL H2SO4 amber	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid	AG3T	250mL Na Thio amber	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue)	BP2S	500mL H2SO4 plastic	BG1H	1L HCl Clear Glass
DG9S	Ammonium Cl/CuSO4	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
GGU	1L Unpres. Jar (Com Ed)	AG1H	1HCl amber glass	BP3T	250mL Trizma	WP	Vape

SOC	
DG9T	40mL Na Thio amber
DG9A	40mL Ascorbic acid
DG9T	Citrate/Na Thiosulfate
DG6T	Na Thiosulfate 60mL vial
AG3U	250mL unpres amber
AG3T	Na Thiosulfate 250mL
BP1B	Na Thiosulfate Amber
AG1T	Na Thiosulfate 1L
AG1A	(NH ₄ Cl)

WG90	8oz clear soil jar	BP3R	250mL NH ₄ SO ₄
WG40	4oz clear soil jar	BP1Z	1L NaOH, Zn Acetate
		BP1N	1L HNO ₃ plastic
		BP1B	Na Thiosulfate Amber
CG1U	1L Unpres Jar (Con Ed)	BP35	250mL Ammonium Chloride
DG8S	Ammonium Cl/CuSO ₄	AG1A	1L Ammonium Chloride
DG8T	Na Thio until trial		
DG8I	Na Thio until trial		
		AG2R	Na Thio until trial
		AG1T	Na Thiosulfate 1L bottle
		AG1H	1L HCl amber glass
		BP3T	250mL Trizma
		BP3C	NaOH 250mL bottle
			NaOH 2500mL plastic

Additional Comments

December 21, 2022

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

RE: Project: MINMILT/MIN1001 12/9
Pace Project No.: 70239470

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on December 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
giovanna.deloca@pacelabs.com
(631)694-3040
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

Sample: SYS-EFF		Lab ID: 70239470001		Collected: 12/09/22 11:50		Received: 12/09/22 12:33		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	984	ug/L	100	1	12/16/22 09:27	12/16/22 19:33	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/19/22 17:03	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/19/22 17:03	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/19/22 17:03	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/19/22 17:03	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/19/22 17:03	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/19/22 17:03	107-06-2		
1,2-Dichloroethene (Total)	3.1	ug/L	2.0	1		12/19/22 17:03	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/19/22 17:03	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/19/22 17:03	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/19/22 17:03	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/19/22 17:03	108-10-1		
Acetone	5.6	ug/L	5.0	1		12/19/22 17:03	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/19/22 17:03	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/19/22 17:03	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/19/22 17:03	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/19/22 17:03	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/19/22 17:03	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/19/22 17:03	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/19/22 17:03	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/19/22 17:03	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/19/22 17:03	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/19/22 17:03	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/19/22 17:03	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/19/22 17:03	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/19/22 17:03	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/19/22 17:03	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/19/22 17:03	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/19/22 17:03	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/19/22 17:03	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/19/22 17:03	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/19/22 17:03	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/19/22 17:03	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/19/22 17:03	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		12/19/22 17:03	17060-07-0		
4-Bromofluorobenzene (S)	102	%	79-118	1		12/19/22 17:03	460-00-4		
Toluene-d8 (S)	102	%	82-122	1		12/19/22 17:03	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	5.4	Std. Units	0.10	1		12/11/22 05:46		H3,H6, N3	

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ANALYTICAL RESULTS

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

Sample: SYS-EFF		Lab ID: 70239470001		Collected: 12/09/22 11:50		Received: 12/09/22 12:33		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	17.2	deg C	0.10	1		12/11/22 05:46		H3,H6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

Sample: SYS-INF		Lab ID: 70239470002		Collected: 12/09/22 11:55		Received: 12/09/22 12:33		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	2960	ug/L	100	1	12/16/22 09:27	12/16/22 19:41	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/15/22 17:58	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/15/22 17:58	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/15/22 17:58	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/15/22 17:58	75-34-3		
1,1-Dichloroethene	1.2	ug/L	1.0	1		12/15/22 17:58	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/15/22 17:58	107-06-2		
1,2-Dichloroethene (Total)	623	ug/L	20.0	10		12/19/22 11:21	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/15/22 17:58	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/15/22 17:58	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/15/22 17:58	591-78-6	L1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/15/22 17:58	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/15/22 17:58	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/15/22 17:58	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/15/22 17:58	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/15/22 17:58	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/15/22 17:58	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		12/15/22 17:58	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/15/22 17:58	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/15/22 17:58	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/15/22 17:58	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/15/22 17:58	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/15/22 17:58	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/15/22 17:58	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/15/22 17:58	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/15/22 17:58	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/15/22 17:58	100-42-5		
Tetrachloroethene	920	ug/L	10.0	10		12/19/22 11:21	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/15/22 17:58	108-88-3		
Trichloroethene	164	ug/L	1.0	1		12/15/22 17:58	79-01-6		
Vinyl chloride	17.3	ug/L	1.0	1		12/15/22 17:58	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/15/22 17:58	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/15/22 17:58	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/15/22 17:58	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		12/15/22 17:58	17060-07-0		
4-Bromofluorobenzene (S)	102	%	79-118	1		12/15/22 17:58	460-00-4		
Toluene-d8 (S)	104	%	82-122	1		12/15/22 17:58	2037-26-5		
4500H+ pH, Electrometric									
Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville									
pH	5.4	Std. Units	0.10	1		12/11/22 05:47		H3,H6, N3	

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ANALYTICAL RESULTS

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

Sample: SYS-INF		Lab ID: 70239470002		Collected: 12/09/22 11:55	Received: 12/09/22 12:33	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	16.8	deg C	0.10	1		12/11/22 05:47		H3,H6

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ANALYTICAL RESULTS

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

Sample: MAG		Lab ID: 70239470003		Collected: 12/09/22 12:05		Received: 12/09/22 12:33		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	721	ug/L	100	1	12/16/22 09:27	12/16/22 19:44	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/15/22 18:17	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/15/22 18:17	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/15/22 18:17	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/15/22 18:17	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/15/22 18:17	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/15/22 18:17	107-06-2		
1,2-Dichloroethene (Total)	103	ug/L	2.0	1		12/15/22 18:17	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/15/22 18:17	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/15/22 18:17	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/15/22 18:17	591-78-6	L1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/15/22 18:17	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/15/22 18:17	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/15/22 18:17	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/15/22 18:17	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/15/22 18:17	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/15/22 18:17	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		12/15/22 18:17	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/15/22 18:17	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/15/22 18:17	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/15/22 18:17	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/15/22 18:17	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/15/22 18:17	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/15/22 18:17	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/15/22 18:17	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/15/22 18:17	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/15/22 18:17	100-42-5		
Tetrachloroethene	1090	ug/L	10.0	10		12/19/22 17:21	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/15/22 18:17	108-88-3		
Trichloroethene	37.5	ug/L	1.0	1		12/15/22 18:17	79-01-6		
Vinyl chloride	2.8	ug/L	1.0	1		12/15/22 18:17	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/15/22 18:17	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/15/22 18:17	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/15/22 18:17	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%	81-122	1		12/15/22 18:17	17060-07-0		
4-Bromofluorobenzene (S)	102	%	79-118	1		12/15/22 18:17	460-00-4		
Toluene-d8 (S)	104	%	82-122	1		12/15/22 18:17	2037-26-5		
4500H+ pH, Electrometric									
Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville									
pH	5.4	Std. Units	0.10	1		12/11/22 05:50		H3,H6, N3	

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ANALYTICAL RESULTS

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

Sample: MAG		Lab ID: 70239470003		Collected: 12/09/22 12:05	Received: 12/09/22 12:33	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	17.3	deg C	0.10	1		12/11/22 05:50		H3,H6

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ANALYTICAL RESULTS

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

Sample: UG		Lab ID: 70239470004		Collected: 12/09/22 12:00		Received: 12/09/22 12:33		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	6330	ug/L	100	1	12/16/22 09:27	12/16/22 19:47	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/15/22 18:36	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/15/22 18:36	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/15/22 18:36	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/15/22 18:36	75-34-3		
1,1-Dichloroethene	2.4	ug/L	1.0	1		12/15/22 18:36	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/15/22 18:36	107-06-2		
1,2-Dichloroethene (Total)	1480	ug/L	20.0	10		12/19/22 17:01	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/15/22 18:36	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/15/22 18:36	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/15/22 18:36	591-78-6	L1	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/15/22 18:36	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/15/22 18:36	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/15/22 18:36	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/15/22 18:36	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/15/22 18:36	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/15/22 18:36	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		12/15/22 18:36	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/15/22 18:36	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/15/22 18:36	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/15/22 18:36	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/15/22 18:36	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/15/22 18:36	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/15/22 18:36	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/15/22 18:36	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/15/22 18:36	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/15/22 18:36	100-42-5		
Tetrachloroethene	1070	ug/L	10.0	10		12/19/22 17:01	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/15/22 18:36	108-88-3		
Trichloroethene	339	ug/L	10.0	10		12/19/22 17:01	79-01-6		
Vinyl chloride	38.6	ug/L	1.0	1		12/15/22 18:36	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/15/22 18:36	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/15/22 18:36	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/15/22 18:36	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		12/15/22 18:36	17060-07-0		
4-Bromofluorobenzene (S)	103	%	79-118	1		12/15/22 18:36	460-00-4		
Toluene-d8 (S)	105	%	82-122	1		12/15/22 18:36	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	5.2	Std. Units	0.10	1		12/11/22 05:49		H3,H6, N3	

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ANALYTICAL RESULTS

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

Sample: UG		Lab ID: 70239470004		Collected: 12/09/22 12:00		Received: 12/09/22 12:33		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)		17.1	deg C	0.10	1		12/11/22 05:49		H3,H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

QC Batch: 286376

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: 70239470001, 70239470002, 70239470003, 70239470004

METHOD BLANK: 1447659

Matrix: Water

Associated Lab Samples: 70239470001, 70239470002, 70239470003, 70239470004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	12/16/22 18:33	

LABORATORY CONTROL SAMPLE: 1447660

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

MATRIX SPIKE SAMPLE: 1447662

Parameter	Units	70239591001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	0.29 mg/L	5000	5160	97	70-130	

MATRIX SPIKE SAMPLE: 1447664

Parameter	Units	70239610001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	0.61 mg/L	5000	5590	100	70-130	

SAMPLE DUPLICATE: 1447661

Parameter	Units	70239591001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	0.29 mg/L	277	3	

SAMPLE DUPLICATE: 1447663

Parameter	Units	70239610001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	0.61 mg/L	607	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

QC Batch:	286191	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70239470002, 70239470003, 70239470004

METHOD BLANK: 1446678 Matrix: Water

Associated Lab Samples: 70239470002, 70239470003, 70239470004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/15/22 09:45	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	12/15/22 09:45	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	12/15/22 09:45	
1,1-Dichloroethane	ug/L	<1.0	1.0	12/15/22 09:45	
1,1-Dichloroethene	ug/L	<1.0	1.0	12/15/22 09:45	
1,2-Dichloroethane	ug/L	<1.0	1.0	12/15/22 09:45	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	12/15/22 09:45	
1,2-Dichloropropane	ug/L	<1.0	1.0	12/15/22 09:45	
2-Butanone (MEK)	ug/L	<5.0	5.0	12/15/22 09:45	
2-Hexanone	ug/L	<5.0	5.0	12/15/22 09:45	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	12/15/22 09:45	
Acetone	ug/L	<5.0	5.0	12/15/22 09:45	
Benzene	ug/L	<0.70	0.70	12/15/22 09:45	
Bromodichloromethane	ug/L	<1.0	1.0	12/15/22 09:45	
Bromoform	ug/L	<1.0	1.0	12/15/22 09:45	
Bromomethane	ug/L	<1.0	1.0	12/15/22 09:45	
Carbon disulfide	ug/L	<1.0	1.0	12/15/22 09:45	
Carbon tetrachloride	ug/L	<1.0	1.0	12/15/22 09:45	
Chlorobenzene	ug/L	<1.0	1.0	12/15/22 09:45	
Chloroethane	ug/L	<1.0	1.0	12/15/22 09:45	
Chloroform	ug/L	<1.0	1.0	12/15/22 09:45	
Chloromethane	ug/L	<1.0	1.0	12/15/22 09:45	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	12/15/22 09:45	
Dibromochloromethane	ug/L	<1.0	1.0	12/15/22 09:45	
Ethylbenzene	ug/L	<1.0	1.0	12/15/22 09:45	
Methylene Chloride	ug/L	<1.0	1.0	12/15/22 09:45	
Styrene	ug/L	<1.0	1.0	12/15/22 09:45	
Tetrachloroethene	ug/L	<1.0	1.0	12/15/22 09:45	
Toluene	ug/L	<1.0	1.0	12/15/22 09:45	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	12/15/22 09:45	
Trichloroethene	ug/L	<1.0	1.0	12/15/22 09:45	
Vinyl chloride	ug/L	<1.0	1.0	12/15/22 09:45	
Xylene (Total)	ug/L	<3.0	3.0	12/15/22 09:45	
1,2-Dichloroethane-d4 (S)	%	101	81-122	12/15/22 09:45	
4-Bromofluorobenzene (S)	%	98	79-118	12/15/22 09:45	
Toluene-d8 (S)	%	100	82-122	12/15/22 09:45	

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QUALITY CONTROL DATA

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

LABORATORY CONTROL SAMPLE: 1446679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	41.0	82	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	45.0	90	70-127	
1,1,2-Trichloroethane	ug/L	50	45.7	91	81-119	
1,1-Dichloroethane	ug/L	50	40.7	81	72-126	
1,1-Dichloroethene	ug/L	50	36.3	73	66-133	
1,2-Dichloroethane	ug/L	50	45.2	90	69-134	
1,2-Dichloroethene (Total)	ug/L	100	83.9	84	69-123	
1,2-Dichloropropane	ug/L	50	43.3	87	75-125	
2-Butanone (MEK)	ug/L	50	49.9	100	33-165 v1	
2-Hexanone	ug/L	50	67.2	134	50-128 L1,v1	
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.8	102	62-131 v1	
Acetone	ug/L	50	68.2	136	14-156 v1	
Benzene	ug/L	50	41.7	83	78-117	
Bromodichloromethane	ug/L	50	45.5	91	80-123	
Bromoform	ug/L	50	51.7	103	49-138 v1	
Bromomethane	ug/L	50	36.7	73	10-143	
Carbon disulfide	ug/L	50	35.3	71	66-133	
Carbon tetrachloride	ug/L	50	38.0	76	64-135	
Chlorobenzene	ug/L	50	47.2	94	79-117	
Chloroethane	ug/L	50	34.3	69	31-156	
Chloroform	ug/L	50	43.2	86	79-123	
Chloromethane	ug/L	50	27.7	55	39-116	
cis-1,3-Dichloropropene	ug/L	50	46.8	94	78-131	
Dibromochloromethane	ug/L	50	49.3	99	65-123 v1	
Ethylbenzene	ug/L	50	43.0	86	79-115	
Methylene Chloride	ug/L	50	42.1	84	67-123	
Styrene	ug/L	50	47.3	95	82-121	
Tetrachloroethene	ug/L	50	42.9	86	65-120	
Toluene	ug/L	50	42.7	85	80-114	
trans-1,3-Dichloropropene	ug/L	50	46.7	93	73-135	
Trichloroethene	ug/L	50	42.2	84	79-115	
Vinyl chloride	ug/L	50	31.7	63	49-118	
Xylene (Total)	ug/L	150	130	87	80-118	
1,2-Dichloroethane-d4 (S)	%			96	81-122	
4-Bromofluorobenzene (S)	%			101	79-118	
Toluene-d8 (S)	%			102	82-122	

MATRIX SPIKE SAMPLE: 1447331

Parameter	Units	40255614003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	53.7	107	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	49.6	99	78-120	
1,1-Dichloroethane	ug/L	<1.0	50	45.0	90	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	45.7	91	61-139	

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QUALITY CONTROL DATA

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

MATRIX SPIKE SAMPLE: 1447331

Parameter	Units	40255614003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	47.8	96	58-138	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	95.4	95	59-133	
1,2-Dichloropropane	ug/L	<1.0	50	46.7	93	74-122	
2-Butanone (MEK)	ug/L	<5.0	50	40.2	80	33-148	v1
2-Hexanone	ug/L	<5.0	50	51.5	103	49-124	v1
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	48.0	96	60-136	v1
Acetone	ug/L	6.8	50	39.7	66	35-112	v1
Benzene	ug/L	6.4	50	54.4	96	70-130	
Bromodichloromethane	ug/L	<1.0	50	50.9	102	74-122	
Bromoform	ug/L	<1.0	50	59.0	118	39-139	v1
Bromomethane	ug/L	1.0	50	27.5	53	10-130	
Carbon disulfide	ug/L	<1.0	50	42.9	86	60-129	
Carbon tetrachloride	ug/L	<1.0	50	52.0	104	56-143	
Chlorobenzene	ug/L	<1.0	50	58.9	118	74-122	
Chloroethane	ug/L	1.3	50	41.3	80	35-146	
Chloroform	ug/L	<1.0	50	48.0	96	71-129	
Chloromethane	ug/L	<1.0	50	30.0	60	29-112	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50.5	101	67-130	
Dibromochloromethane	ug/L	<1.0	50	58.1	116	55-126	v1
Ethylbenzene	ug/L	<1.0	50	57.9	116	70-126	
Methylene Chloride	ug/L	<1.0	50	45.0	90	69-117	
Styrene	ug/L	<1.0	50	56.8	114	79-123	
Tetrachloroethene	ug/L	<1.0	50	64.6	129	64-124	M1
Toluene	ug/L	<1.0	50	52.5	105	76-123	
trans-1,3-Dichloropropene	ug/L	<1.0	50	49.7	99	61-130	
Trichloroethene	ug/L	<1.0	50	53.6	107	73-125	
Vinyl chloride	ug/L	<1.0	50	37.1	74	33-127	
Xylene (Total)	ug/L	<3.0	150	171	114	78-123	
1,2-Dichloroethane-d4 (S)	%				94	81-122	
4-Bromofluorobenzene (S)	%				103	79-118	
Toluene-d8 (S)	%				104	82-122	

SAMPLE DUPLICATE: 1447208

Parameter	Units	40255614002 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: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

SAMPLE DUPLICATE: 1447208

Parameter	Units	40255614002 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	10.0	10.6	5	v1
Benzene	ug/L	3.5	3.4	1	
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	1.6		
Toluene	ug/L	1.9	1.8	3	
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	97	96		
4-Bromofluorobenzene (S)	%	101	104		
Toluene-d8 (S)	%	102	104		

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QUALITY CONTROL DATA

Project: MINMILT/MIN1001 12/9
Pace Project No.: 70239470

QC Batch:	286652	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70239470001

METHOD BLANK: 1449143 Matrix: Water

Associated Lab Samples: 70239470001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/19/22 14:29	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	12/19/22 14:29	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	12/19/22 14:29	
1,1-Dichloroethane	ug/L	<1.0	1.0	12/19/22 14:29	
1,1-Dichloroethene	ug/L	<1.0	1.0	12/19/22 14:29	
1,2-Dichloroethane	ug/L	<1.0	1.0	12/19/22 14:29	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	12/19/22 14:29	
1,2-Dichloropropane	ug/L	<1.0	1.0	12/19/22 14:29	
2-Butanone (MEK)	ug/L	<5.0	5.0	12/19/22 14:29	
2-Hexanone	ug/L	<5.0	5.0	12/19/22 14:29	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	12/19/22 14:29	
Acetone	ug/L	<5.0	5.0	12/19/22 14:29	
Benzene	ug/L	<0.70	0.70	12/19/22 14:29	
Bromodichloromethane	ug/L	<1.0	1.0	12/19/22 14:29	
Bromoform	ug/L	<1.0	1.0	12/19/22 14:29	
Bromomethane	ug/L	<1.0	1.0	12/19/22 14:29	v3
Carbon disulfide	ug/L	<1.0	1.0	12/19/22 14:29	
Carbon tetrachloride	ug/L	<1.0	1.0	12/19/22 14:29	
Chlorobenzene	ug/L	<1.0	1.0	12/19/22 14:29	
Chloroethane	ug/L	<1.0	1.0	12/19/22 14:29	
Chloroform	ug/L	<1.0	1.0	12/19/22 14:29	
Chloromethane	ug/L	<1.0	1.0	12/19/22 14:29	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	12/19/22 14:29	
Dibromochloromethane	ug/L	<1.0	1.0	12/19/22 14:29	
Ethylbenzene	ug/L	<1.0	1.0	12/19/22 14:29	
Methylene Chloride	ug/L	<1.0	1.0	12/19/22 14:29	
Styrene	ug/L	<1.0	1.0	12/19/22 14:29	
Tetrachloroethene	ug/L	<1.0	1.0	12/19/22 14:29	
Toluene	ug/L	<1.0	1.0	12/19/22 14:29	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	12/19/22 14:29	
Trichloroethene	ug/L	<1.0	1.0	12/19/22 14:29	
Vinyl chloride	ug/L	<1.0	1.0	12/19/22 14:29	
Xylene (Total)	ug/L	<3.0	3.0	12/19/22 14:29	
1,2-Dichloroethane-d4 (S)	%	97	81-122	12/19/22 14:29	
4-Bromofluorobenzene (S)	%	106	79-118	12/19/22 14:29	
Toluene-d8 (S)	%	104	82-122	12/19/22 14:29	

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QUALITY CONTROL DATA

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

LABORATORY CONTROL SAMPLE: 1449144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.6	93	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	47.9	96	70-127	
1,1,2-Trichloroethane	ug/L	50	46.7	93	81-119	
1,1-Dichloroethane	ug/L	50	42.6	85	72-126	
1,1-Dichloroethene	ug/L	50	41.1	82	66-133	
1,2-Dichloroethane	ug/L	50	45.4	91	69-134	
1,2-Dichloroethene (Total)	ug/L	100	83.8	84	69-123	
1,2-Dichloropropane	ug/L	50	45.6	91	75-125	
2-Butanone (MEK)	ug/L	50	57.6	115	33-165	
2-Hexanone	ug/L	50	45.6	91	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	42.0	84	62-131	
Acetone	ug/L	50	60.4	121	14-156	
Benzene	ug/L	50	46.1	92	78-117	
Bromodichloromethane	ug/L	50	46.4	93	80-123	
Bromoform	ug/L	50	47.2	94	49-138	
Bromomethane	ug/L	50	40.9	82	10-143 v3	
Carbon disulfide	ug/L	50	40.7	81	66-133	
Carbon tetrachloride	ug/L	50	46.0	92	64-135	
Chlorobenzene	ug/L	50	50.1	100	79-117	
Chloroethane	ug/L	50	41.7	83	31-156	
Chloroform	ug/L	50	44.3	89	79-123	
Chloromethane	ug/L	50	57.9	116	39-116	
cis-1,3-Dichloropropene	ug/L	50	46.5	93	78-131	
Dibromochloromethane	ug/L	50	50.4	101	65-123	
Ethylbenzene	ug/L	50	51.0	102	79-115	
Methylene Chloride	ug/L	50	41.8	84	67-123	
Styrene	ug/L	50	51.9	104	82-121	
Tetrachloroethene	ug/L	50	55.3	111	65-120	
Toluene	ug/L	50	46.1	92	80-114	
trans-1,3-Dichloropropene	ug/L	50	47.2	94	73-135	
Trichloroethene	ug/L	50	46.7	93	79-115	
Vinyl chloride	ug/L	50	40.9	82	49-118	
Xylene (Total)	ug/L	150	152	101	80-118	
1,2-Dichloroethane-d4 (S)	%			94	81-122	
4-Bromofluorobenzene (S)	%			104	79-118	
Toluene-d8 (S)	%			103	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1449320 1449321

Parameter	Units	70239741011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<5.0	50	50	48.5	50.1	97	100	72-123	3	
1,1,2,2-Tetrachloroethane	ug/L	<5.0	50	50	46.0	48.1	92	96	64-133	4	
1,1,2-Trichloroethane	ug/L	<5.0	50	50	48.2	48.6	96	97	78-120	1	
1,1-Dichloroethane	ug/L	<5.0	50	50	45.2	45.1	90	90	70-124	0	

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QUALITY CONTROL DATA

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1449320 1449321											
Parameter	Units	70239741011		MS	MSD	MS		MSD	% Rec		Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	
1,1-Dichloroethene	ug/L	<5.0	50	50	50	44.0	43.8	88	88	61-139	0
1,2-Dichloroethane	ug/L	<5.0	50	50	50	45.5	44.9	91	90	58-138	1
1,2-Dichloroethene (Total)	ug/L	4.0	100	100	100	91.8	90.1	88	86	59-133	2
1,2-Dichloropropane	ug/L	<5.0	50	50	50	45.9	47.3	92	95	74-122	3
2-Butanone (MEK)	ug/L	<5.0	50	50	50	46.1	47.7	92	95	33-148	3
2-Hexanone	ug/L	<5.0	50	50	50	37.1	37.7	74	75	49-124	2
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	50	38.7	40.1	77	80	60-136	4
Acetone	ug/L	<5.0	50	50	50	35.1	35.3	70	71	35-112	1
Benzene	ug/L	5.0	50	50	50	49.0	49.7	95	97	70-130	1
Bromodichloromethane	ug/L	<5.0	50	50	50	46.3	47.1	93	94	74-122	2
Bromoform	ug/L	<5.0	50	50	50	43.2	45.4	86	91	39-139	5
Bromomethane	ug/L	<5.0	50	50	50	41.8	42.5	84	85	10-130	2 v3
Carbon disulfide	ug/L	<5.0	50	50	50	43.4	42.5	87	85	60-129	2
Carbon tetrachloride	ug/L	<5.0	50	50	50	47.3	48.8	95	98	56-143	3
Chlorobenzene	ug/L	5.0	50	50	50	55.3	55.8	103	104	74-122	1
Chloroethane	ug/L	<5.0	50	50	50	44.8	44.9	90	90	35-146	0
Chloroform	ug/L	<5.0	50	50	50	46.1	45.3	92	91	71-129	2
Chloromethane	ug/L	<5.0	50	50	50	63.5	59.9	127	120	29-112	6 M1
cis-1,3-Dichloropropene	ug/L	<5.0	50	50	50	44.9	45.5	90	91	67-130	1
Dibromochloromethane	ug/L	<5.0	50	50	50	48.4	49.3	97	99	55-126	2
Ethylbenzene	ug/L	<5.0	50	50	50	52.1	52.5	104	105	70-126	1
Methylene Chloride	ug/L	<5.0	50	50	50	43.4	42.9	87	86	69-117	1
Styrene	ug/L	<5.0	50	50	50	52.6	52.6	105	105	79-123	0
Tetrachloroethene	ug/L	<5.0	50	50	50	53.9	54.2	108	108	64-124	1
Toluene	ug/L	<5.0	50	50	50	48.1	48.1	96	96	76-123	0
trans-1,3-Dichloropropene	ug/L	<5.0	50	50	50	44.8	46.9	90	94	61-130	5
Trichloroethene	ug/L	<5.0	50	50	50	49.8	51.3	100	103	73-125	3
Vinyl chloride	ug/L	5.0	50	50	50	45.5	45.6	87	87	33-127	0
Xylene (Total)	ug/L	<5.0	150	150	150	155	155	103	103	78-123	0
1,2-Dichloroethane-d4 (S)	%							95	97	81-122	
4-Bromofluorobenzene (S)	%							107	106	79-118	
Toluene-d8 (S)	%							103	102	82-122	

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 12/9

Pace Project No.: 70239470

QC Batch:	285565	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: 70239470001, 70239470002, 70239470003, 70239470004

SAMPLE DUPLICATE: 1443062

Parameter	Units	70239353001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.0	7.0		0 H3,H6,N3
Temperature, Water (C)	deg C	16.5	16.3		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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QUALIFIERS

Project: MINMILT/MIN1001 12/9

Pace Project No.: 70239470

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.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
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 12/9

Pace Project No.: 70239470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70239470001	SYS-EFF	EPA 200.7	286376	EPA 200.7	286472
70239470002	SYS-INF	EPA 200.7	286376	EPA 200.7	286472
70239470003	MAG	EPA 200.7	286376	EPA 200.7	286472
70239470004	UG	EPA 200.7	286376	EPA 200.7	286472
70239470001	SYS-EFF	EPA 8260C/5030C	286652		
70239470002	SYS-INF	EPA 8260C/5030C	286191		
70239470003	MAG	EPA 8260C/5030C	286191		
70239470004	UG	EPA 8260C/5030C	286191		
70239470001	SYS-EFF	SM22 4500-H+B	285565		
70239470002	SYS-INF	SM22 4500-H+B	285565		
70239470003	MAG	SM22 4500-H+B	285565		
70239470004	UG	SM22 4500-H+B	285565		

REPORT OF LABORATORY ANALYSIS

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WO#: 70239470



70239470

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

Billing Information:

Company: PWGC

Address: 630 Johnson Ave, Bakersfield, CA 93309

Report To: Kaitlyn Crosby

Email To: Kcrosby@pwgcs.com

Site Collection Info/Address: 540 Smith Street

State: NY County/City: Farmingdale

Time Zone Collected: JPT JMT JCT

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)

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

Wet Blue Dry None

Type of Ice Used:

Packing Material Used:

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

Received by/Company: (Signature) Date/Time: 12-9-22 1233

Received by/Company: (Signature) Date/Time: 12-9-22 1233

Received by/Company: (Signature) Date/Time: 12-9-22 1233

Received by/Company: (Signature) Date/Time: 12-9-22 1233

USE ONLY

Lab Project Manager: GFD

Container Preservative type

3 1 1

** 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: 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:

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: 11.8

Cooler 1 Therm Corr. Factor: 1.1

Cooler 1 Corrected Temp: 11.0

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 22

Page: 22

January 06, 2023

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

RE: Project: MINMILT/MIN1001
Pace Project No.: 70240888

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on December 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.

ANALYSIS REQUESTED

Requested Turnaround Time	
7-Day ☐	10-Day ☐
Due Date: <i>Standard</i>	
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 #: _____	

ANALYTICAL LABORATORY

Fax: 413-525-6405
Email: info@contestlabs.com

Company Name: PW Grosser Consulting
Address: 630 Johnson Ave, Bozemia, NY
Phone: 631-589-6353
Project Name: min/pt / MIN1001
Project Location: 540 Smith St, Farmingdale, NY
Project Number: MIN1001
Project Manager: Kathryn Crosby
Con-Test Quote Name/Number:
Invoice Recipient: same as client
Sampled By: Kathryn Crosby

[illegible]

Comments:		Please use the following codes to indicate concentration within the Conc Code: H - High; M - Medium; L - Low; C - Clear	
Relinquished by: (signature)	Date/Time:	Detection Limit Requirements	Special Requirements
<i>[Signature]</i>	12-21-22 1125	MA ☐	MA MCP Required ☐
Received by: (signature)	Date/Time:		MCP Certification Form Required ☐
<i>[Signature]</i>	12-21-22 1125	CT ☐	CT RCP Required ☐
Relinquished by: (signature)	Date/Time:		RCP Certification Form Required ☐
Received by: (signature)	Date/Time:	Other: ☐	Other ☐
Relinquished by: (signature)	Date/Time:	Project Entity	
<i>[Signature]</i>		☐ Government	☐ Municipality
Received by: (signature)	Date/Time:	☐ Federal	☐ 21 J
<i>[Signature]</i>		☐ City	☐ Brownfield
			☐ MWRA
			☐ School
			☐ MBTA

Please sign off 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
" Hg	Lab Receipt Pressure	
	Final Pressure	
	Initial Pressure	

Summa Can ID	Flow Controller ID
275	4717

State possible sample column above: an; U - Unknown			Matrix Codes:	
			SG = SOIL GAS IA = INDOOR AIR AMB = AMBIENT SS = SUB SLAB D = DUP BL = BLANK O = Other _____	
NELAC and AIHA-LAP, LLC Accredited			PCB ONLY	Soxhlet Non Soxhlet
☐ WRTA	Other ☐ Chromatogram ☐ AIHA-LAP, LLC	☐	☐	☐

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

WO#: 70240888

70240888



Sample Condition Upon Re

WO#: 70240888

Client Name:

PWG

Proj

PM: GFD

Due Date: 01/06/23

CLIENT: PWG

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No ☒ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: T/H148

Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C):

Cooler Temperature Corrected(°C):

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 12/1/23

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 ☐ NoDid 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:	☐ Yes	☐ No		1.
Chain of Custody Filled Out:	☐ Yes	☐ No		2.
Chain of Custody Relinquished:	☐ Yes	☐ No		3.
Sampler Name & Signature on COC:	☐ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☐ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume: (Triple volume provided for)	☒ Yes	☐ No		8.
Correct Containers Used:	☒ Yes	☐ No		9.
-Pace Containers Used:	☒ Yes	☐ No		
Containers Intact:	☒ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL WT OIL <u>HR</u>				
All containers needing preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with method recommendation?				Sample #
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				
Per Method, VOA pH is checked after analysis				Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination:	☒ Yes	☐ No	☒ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☒ N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☒ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☒ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

January 6, 2023

Giovanna Deloca
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: MINMILT/MIN1001
Client Job Number:
Project Number: 70240888
Laboratory Work Order Number: 22L3665

Enclosed are results of analyses for samples as received by the laboratory on December 28, 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. 413/525-2332Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Giovanna Deloca

REPORT DATE: 1/6/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70240888

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22L3665

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

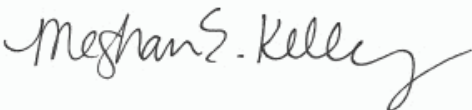
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE-INF	22L3665-01	Soil Gas		EPA TO-15	

CASE NARRATIVE SUMMARY

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

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.



Meghan E. Kelley
Reporting Specialist

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

ANALYTICAL RESULTS

Project Location: MINMILT/MIN1001
 Date Received: 12/28/2022
Field Sample #: SVE-INF
Sample ID: 22L3665-01
 Sample Matrix: Soil Gas
 Sampled: 12/21/2022 10:25

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2751
 Canister Size: 3 liter
 Flow Controller ID: 4717
 Sample Type: 15 min

Work Order: 22L3665
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -1.4
 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	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	ND	8.0		ND	19	4	1/6/23 2:50	CMR
Benzene	ND	0.20		ND	0.64	4	1/6/23 2:50	CMR
Benzyl chloride	ND	0.20		ND	1.0	4	1/6/23 2:50	CMR
Bromodichloromethane	ND	0.20		ND	1.3	4	1/6/23 2:50	CMR
Bromoform	ND	0.20		ND	2.1	4	1/6/23 2:50	CMR
Bromomethane	ND	0.20		ND	0.78	4	1/6/23 2:50	CMR
1,3-Butadiene	ND	0.20		ND	0.44	4	1/6/23 2:50	CMR
2-Butanone (MEK)	ND	8.0		ND	24	4	1/6/23 2:50	CMR
Carbon Disulfide	ND	2.0		ND	6.2	4	1/6/23 2:50	CMR
Carbon Tetrachloride	ND	0.20		ND	1.3	4	1/6/23 2:50	CMR
Chlorobenzene	ND	0.20		ND	0.92	4	1/6/23 2:50	CMR
Chloroethane	0.26	0.20		0.68	0.53	4	1/6/23 2:50	CMR
Chloroform	0.48	0.20		2.3	0.98	4	1/6/23 2:50	CMR
Chloromethane	ND	0.40		ND	0.83	4	1/6/23 2:50	CMR
Cyclohexane	ND	0.20		ND	0.69	4	1/6/23 2:50	CMR
Dibromochloromethane	ND	0.20		ND	1.7	4	1/6/23 2:50	CMR
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	1/6/23 2:50	CMR
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	1/6/23 2:50	CMR
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	1/6/23 2:50	CMR
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	1/6/23 2:50	CMR
Dichlorodifluoromethane (Freon 12)	1.4	0.20		7.1	0.99	4	1/6/23 2:50	CMR
1,1-Dichloroethane	8.2	0.20		33	0.81	4	1/6/23 2:50	CMR
1,2-Dichloroethane	ND	0.20		ND	0.81	4	1/6/23 2:50	CMR
1,1-Dichloroethylene	0.30	0.20		1.2	0.79	4	1/6/23 2:50	CMR
cis-1,2-Dichloroethylene	140	0.20		550	0.79	4	1/6/23 2:50	CMR
trans-1,2-Dichloroethylene	2.0	0.20		8.1	0.79	4	1/6/23 2:50	CMR
1,2-Dichloropropane	0.46	0.20		2.1	0.92	4	1/6/23 2:50	CMR
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	1/6/23 2:50	CMR
trans-1,3-Dichloropropene	ND	0.20		ND	0.91	4	1/6/23 2:50	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20		ND	1.4	4	1/6/23 2:50	CMR
1,4-Dioxane	ND	2.0		ND	7.2	4	1/6/23 2:50	CMR
Ethanol	ND	8.0		ND	15	4	1/6/23 2:50	CMR
Ethyl Acetate	ND	2.0		ND	7.2	4	1/6/23 2:50	CMR
Ethylbenzene	ND	0.20		ND	0.87	4	1/6/23 2:50	CMR
4-Ethyltoluene	ND	0.20		ND	0.98	4	1/6/23 2:50	CMR
Heptane	ND	0.20		ND	0.82	4	1/6/23 2:50	CMR
Hexachlorobutadiene	ND	0.20		ND	2.1	4	1/6/23 2:50	CMR

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

ANALYTICAL RESULTS

Project Location: MINMILT/MIN1001
 Date Received: 12/28/2022
Field Sample #: SVE-INF
Sample ID: 22L3665-01
 Sample Matrix: Soil Gas
 Sampled: 12/21/2022 10:25

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2751
 Canister Size: 3 liter
 Flow Controller ID: 4717
 Sample Type: 15 min

Work Order: 22L3665
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -1.4
 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	1/6/23	2:50	CMR
2-Hexanone (MBK)	ND	0.20		ND	0.82	4	1/6/23	2:50	CMR
Isopropanol	ND	8.0		ND	20	4	1/6/23	2:50	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	1/6/23	2:50	CMR
Methylene Chloride	ND	2.0		ND	6.9	4	1/6/23	2:50	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.20		ND	0.82	4	1/6/23	2:50	CMR
Naphthalene	ND	0.20		ND	1.0	4	1/6/23	2:50	CMR
Propene	ND	8.0		ND	14	4	1/6/23	2:50	CMR
Styrene	ND	0.20		ND	0.85	4	1/6/23	2:50	CMR
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	1/6/23	2:50	CMR
Tetrachloroethylene	180	0.20		1200	1.4	4	1/6/23	2:50	CMR
Tetrahydrofuran	ND	2.0		ND	5.9	4	1/6/23	2:50	CMR
Toluene	ND	0.20		ND	0.75	4	1/6/23	2:50	CMR
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	4	1/6/23	2:50	CMR
1,1,1-Trichloroethane	1.3	0.20		7.4	1.1	4	1/6/23	2:50	CMR
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	1/6/23	2:50	CMR
Trichloroethylene	16	0.20		85	1.1	4	1/6/23	2:50	CMR
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	1/6/23	2:50	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	1/6/23	2:50	CMR
1,2,4-Trimethylbenzene	ND	0.20		ND	0.98	4	1/6/23	2:50	CMR
1,3,5-Trimethylbenzene	ND	0.20		ND	0.98	4	1/6/23	2:50	CMR
Vinyl Acetate	ND	4.0		ND	14	4	1/6/23	2:50	CMR
Vinyl Chloride	ND	0.20		ND	0.51	4	1/6/23	2:50	CMR
m&p-Xylene	ND	0.40		ND	1.7	4	1/6/23	2:50	CMR
o-Xylene	ND	0.20		ND	0.87	4	1/6/23	2:50	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	112	70-130	1/6/23 2:50

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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
22L3665-01 [SVE-INF]	B327886	1.5	1	N/A	1000	400	150	01/05/23

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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	%REC	Limits	RPD	Limit	

Batch B327886 - TO-15 Prep
Blank (B327886-BLK1)

Prepared & Analyzed: 01/05/23

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
cis-1,3-Dichloropropene	ND	0.035
trans-1,3-Dichloropropene	ND	0.035
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035
1,4-Dioxane	ND	0.35
Ethanol	ND	1.4
Ethyl Acetate	ND	0.35
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
Isopropanol	ND	1.4
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
Propene	ND	1.4
Styrene	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	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B327886 - TO-15 Prep
Blank (B327886-BLK1)

Prepared & Analyzed: 01/05/23

1,1,2,2-Tetrachloroethane	ND	0.035
Tetrachloroethylene	ND	0.035
Tetrahydrofuran	ND	0.35
Toluene	ND	0.035
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

Surrogate: 4-Bromofluorobenzene (1) 8.88 8.00 111 70-130

LCS (B327886-BS1)

Prepared & Analyzed: 01/05/23

Acetone	5.45	5.00	109	70-130
Benzene	4.61	5.00	92.3	70-130
Benzyl chloride	5.08	5.00	102	70-130
Bromodichloromethane	4.50	5.00	90.1	70-130
Bromoform	5.44	5.00	109	70-130
Bromomethane	5.88	5.00	118	70-130
1,3-Butadiene	5.53	5.00	111	70-130
2-Butanone (MEK)	4.65	5.00	93.0	70-130
Carbon Disulfide	4.96	5.00	99.1	70-130
Carbon Tetrachloride	4.64	5.00	92.8	70-130
Chlorobenzene	4.66	5.00	93.3	70-130
Chloroethane	5.95	5.00	119	70-130
Chloroform	5.07	5.00	101	70-130
Chloromethane	5.12	5.00	102	70-130
Cyclohexane	4.69	5.00	93.8	70-130
Dibromochloromethane	4.91	5.00	98.1	70-130
1,2-Dibromoethane (EDB)	4.60	5.00	91.9	70-130
1,2-Dichlorobenzene	5.37	5.00	107	70-130
1,3-Dichlorobenzene	5.56	5.00	111	70-130
1,4-Dichlorobenzene	5.56	5.00	111	70-130
Dichlorodifluoromethane (Freon 12)	5.22	5.00	104	70-130
1,1-Dichloroethane	5.00	5.00	99.9	70-130
1,2-Dichloroethane	5.24	5.00	105	70-130
1,1-Dichloroethylene	5.58	5.00	112	70-130
cis-1,2-Dichloroethylene	5.03	5.00	101	70-130
trans-1,2-Dichloroethylene	4.97	5.00	99.5	70-130
1,2-Dichloropropane	4.55	5.00	91.0	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	%REC	Limits	RPD	Limit	
Batch B327886 - TO-15 Prep											
LCS (B327886-BS1)					Prepared & Analyzed: 01/05/23						
cis-1,3-Dichloropropene	4.56				5.00		91.2	70-130			
trans-1,3-Dichloropropene	4.66				5.00		93.1	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.44				5.00		109	70-130			
1,4-Dioxane	4.51				5.00		90.1	70-130			
Ethanol	4.22				5.00		84.5	70-130			
Ethyl Acetate	4.97				5.00		99.4	70-130			
Ethylbenzene	4.88				5.00		97.6	70-130			
4-Ethyltoluene	5.29				5.00		106	70-130			
Heptane	4.83				5.00		96.5	70-130			
Hexachlorobutadiene	4.77				5.00		95.5	70-130			
Hexane	5.33				5.00		107	70-130			
2-Hexanone (MBK)	4.43				5.00		88.6	70-130			
Isopropanol	4.46				5.00		89.2	70-130			
Methyl tert-Butyl Ether (MTBE)	4.91				5.00		98.2	70-130			
Methylene Chloride	4.46				5.00		89.2	70-130			
4-Methyl-2-pentanone (MIBK)	4.48				5.00		89.5	70-130			
Naphthalene	5.31				5.00		106	70-130			
Propene	3.75				5.00		74.9	70-130			
Styrene	5.26				5.00		105	70-130			
1,1,2,2-Tetrachloroethane	4.56				5.00		91.2	70-130			
Tetrachloroethylene	4.90				5.00		98.1	70-130			
Tetrahydrofuran	5.06				5.00		101	70-130			
Toluene	4.68				5.00		93.7	70-130			
1,2,4-Trichlorobenzene	4.78				5.00		95.7	70-130			
1,1,1-Trichloroethane	4.39				5.00		87.8	70-130			
1,1,2-Trichloroethane	4.39				5.00		87.7	70-130			
Trichloroethylene	4.70				5.00		93.9	70-130			
Trichlorofluoromethane (Freon 11)	5.96				5.00		119	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.98				5.00		99.6	70-130			
1,2,4-Trimethylbenzene	5.31				5.00		106	70-130			
1,3,5-Trimethylbenzene	5.35				5.00		107	70-130			
Vinyl Acetate	3.94				5.00		78.7	70-130			
Vinyl Chloride	5.92				5.00		118	70-130			
m&p-Xylene	10.2				10.0		102	70-130			
o-Xylene	5.23				5.00		105	70-130			
Surrogate: 4-Bromofluorobenzene (1)	9.31				8.00		116	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	%REC	Limits	RPD	Limit	
Batch B327886 - TO-15 Prep											
Duplicate (B327886-DUP1)		Source: 22L3665-01				Prepared: 01/05/23 Analyzed: 01/06/23					
Acetone	ND	8.0	ND	19		ND				25	
Benzene	ND	0.20	ND	0.64		ND				25	
Benzyl chloride	ND	0.20	ND	1.0		ND				25	
Bromodichloromethane	ND	0.20	ND	1.3		ND				25	
Bromoform	ND	0.20	ND	2.1		ND				25	
Bromomethane	ND	0.20	ND	0.78		ND				25	
1,3-Butadiene	ND	0.20	ND	0.44		ND				25	
2-Butanone (MEK)	ND	8.0	ND	24		ND				25	
Carbon Disulfide	0.20	2.0	0.61	6.2		0.19			4.17	25	
Carbon Tetrachloride	ND	0.20	ND	1.3		ND				25	
Chlorobenzene	ND	0.20	ND	0.92		ND				25	
Chloroethane	0.27	0.20	0.71	0.53		0.26			4.58	25	
Chloroform	0.51	0.20	2.5	0.98		0.48			6.45	25	
Chloromethane	0.34	0.40	0.71	0.83		0.33			4.76	25	
Cyclohexane	ND	0.20	ND	0.69		ND				25	
Dibromochloromethane	ND	0.20	ND	1.7		ND				25	
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5		ND				25	
1,2-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
1,3-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
1,4-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
Dichlorodifluoromethane (Freon 12)	1.5	0.20	7.5	0.99		1.4			6.24	25	
1,1-Dichloroethane	8.6	0.20	35	0.81		8.2			4.14	25	
1,2-Dichloroethane	ND	0.20	ND	0.81		ND				25	
1,1-Dichloroethylene	0.31	0.20	1.2	0.79		0.30			5.26	25	
cis-1,2-Dichloroethylene	140	0.20	550	0.79		140			0.232	25	
trans-1,2-Dichloroethylene	2.1	0.20	8.5	0.79		2.0			4.39	25	
1,2-Dichloropropane	0.46	0.20	2.1	0.92		0.46			0.873	25	
cis-1,3-Dichloropropene	ND	0.20	ND	0.91		ND				25	
trans-1,3-Dichloropropene	ND	0.20	ND	0.91		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	ND	1.4		ND				25	
1,4-Dioxane	ND	2.0	ND	7.2		ND				25	
Ethanol	ND	8.0	ND	15		ND				25	
Ethyl Acetate	ND	2.0	ND	7.2		ND				25	
Ethylbenzene	ND	0.20	ND	0.87		ND				25	
4-Ethyltoluene	ND	0.20	ND	0.98		ND				25	
Heptane	ND	0.20	ND	0.82		ND				25	
Hexachlorobutadiene	ND	0.20	ND	2.1		ND				25	
Hexane	ND	8.0	ND	28		ND				25	
2-Hexanone (MBK)	ND	0.20	ND	0.82		ND				25	
Isopropanol	2.9	8.0	7.1	20		3.0			5.25	25	
Methyl tert-Butyl Ether (MTBE)	ND	0.20	ND	0.72		ND				25	
Methylene Chloride	ND	2.0	ND	6.9		ND				25	
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82		ND				25	
Naphthalene	ND	0.20	ND	1.0		ND				25	
Propene	ND	8.0	ND	14		ND				25	
Styrene	ND	0.20	ND	0.85		ND				25	

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B327886 - TO-15 Prep											
Duplicate (B327886-DUP1)	Source: 22L3665-01				Prepared: 01/05/23 Analyzed: 01/06/23						
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4		ND				25	
Tetrachloroethylene	170	0.20	1200	1.4		180			3.85	25	
Tetrahydrofuran	ND	2.0	ND	5.9		ND				25	
Toluene	ND	0.20	ND	0.75		ND				25	
1,2,4-Trichlorobenzene	ND	0.20	ND	1.5		ND				25	
1,1,1-Trichloroethane	1.4	0.20	7.4	1.1		1.3			0.296	25	
1,1,2-Trichloroethane	ND	0.20	ND	1.1		ND				25	
Trichloroethylene	16	0.20	85	1.1		16			0.455	25	
Trichlorofluoromethane (Freon 11)	0.60	0.80	3.4	4.5		0.64			6.45	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	ND	6.1		ND				25	
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98		ND				25	
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98		ND				25	
Vinyl Acetate	ND	4.0	ND	14		ND				25	
Vinyl Chloride	ND	0.20	ND	0.51		ND				25	
m&p-Xylene	ND	0.40	ND	1.7		ND				25	
o-Xylene	ND	0.20	ND	0.87		ND				25	
Surrogate: 4-Bromofluorobenzene (1)	9.11				8.00		114	70-130			

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

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.

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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
Initial Cal Check (S076501-ICV1)			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1123386	8.307	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2650535	10.081	104	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2407851	14.446	103	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
Calibration Check (S081599-CCV1)			Lab File ID: G23A005004.D			Analyzed: 01/05/23 13:28			
Bromochloromethane (1)	829238	8.307	1123386	8.307	74	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2112866	10.075	2650535	10.081	80	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1925458	14.44	2407851	14.446	80	60 - 140	-0.0060	+/-0.50	
LCS (B327886-BS1)			Lab File ID: G23A005005.D			Analyzed: 01/05/23 14:07			
Bromochloromethane (1)	848023	8.307	829238	8.307	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2197412	10.081	2112866	10.075	104	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2060825	14.446	1925458	14.44	107	60 - 140	0.0060	+/-0.50	
Blank (B327886-BLK1)			Lab File ID: G23A005008.D			Analyzed: 01/05/23 16:15			
Bromochloromethane (1)	824376	8.313	829238	8.307	99	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2115479	10.081	2112866	10.075	100	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1975253	14.446	1925458	14.44	103	60 - 140	0.0060	+/-0.50	
SVE-INF (22L3665-01)			Lab File ID: G23A005022.D			Analyzed: 01/06/23 02:50			
Bromochloromethane (1)	812409	8.307	829238	8.307	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2051537	10.075	2112866	10.075	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1934472	14.44	1925458	14.44	100	60 - 140	0.0000	+/-0.50	
Duplicate (B327886-DUP1)			Lab File ID: G23A005023.D			Analyzed: 01/06/23 03:30			
Bromochloromethane (1)	909782	8.307	829238	8.307	110	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2436221	10.075	2112866	10.075	115	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2241982	14.44	1925458	14.44	116	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S081599-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.21	1.084004	1.130007		4.2	30
Benzene	A	5.00	4.21	0.9129288	0.7692376		-15.7	30
Benzyl chloride	A	5.00	4.96	1.030942	1.021777		-0.9	30
Bromodichloromethane	A	5.00	4.19	0.6953811	0.5832752		-16.1	30
Bromoform	A	5.00	5.13	0.5656468	0.5804342		2.6	30
Bromomethane	A	5.00	5.45	0.6009459	0.654793		9.0	30
1,3-Butadiene	A	5.00	5.28	0.5443004	0.5743663		5.5	30
2-Butanone (MEK)	A	5.00	4.27	1.507683	1.286341		-14.7	30
Carbon Disulfide	A	5.00	4.41	2.02748	1.788943		-11.8	30
Carbon Tetrachloride	A	5.00	4.36	0.5479998	0.4775981		-12.8	30
Chlorobenzene	A	5.00	4.46	0.8809329	0.7852694		-10.9	30
Chloroethane	A	5.00	5.28	0.3452967	0.364622		5.6	30
Chloroform	A	5.00	4.51	1.561184	1.4084		-9.8	30
Chloromethane	A	5.00	5.03	0.6821899	0.6862628		0.6	30
Cyclohexane	A	5.00	4.26	0.3600845	0.3068605		-14.8	30
Dibromochloromethane	A	5.00	4.68	0.6396581	0.5991451		-6.3	30
1,2-Dibromoethane (EDB)	A	5.00	4.41	0.6171207	0.544768		-11.7	30
1,2-Dichlorobenzene	A	5.00	5.09	0.6937094	0.7057222		1.7	30
1,3-Dichlorobenzene	A	5.00	5.41	0.7409581	0.8013204		8.1	30
1,4-Dichlorobenzene	A	5.00	5.38	0.7218155	0.7772763		7.7	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.11	1.62808	1.663906		2.2	30
1,1-Dichloroethane	A	5.00	4.43	1.342742	1.190566		-11.3	30
1,2-Dichloroethane	A	5.00	4.68	0.9627523	0.9011917		-6.4	30
1,1-Dichloroethylene	A	5.00	5.06	1.140142	1.153448		1.2	30
cis-1,2-Dichloroethylene	A	5.00	4.52	0.9670963	0.8739127		-9.6	30
trans-1,2-Dichloroethylene	A	5.00	4.53	1.001825	0.9071326		-9.5	30
1,2-Dichloropropane	A	5.00	4.13	0.3567989	0.2947405		-17.4	30
cis-1,3-Dichloropropene	A	5.00	4.30	0.5092852	0.4381567		-14.0	30
trans-1,3-Dichloropropene	A	5.00	4.24	0.4570981	0.3879205		-15.1	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.35	1.73998	1.86295		7.1	30
1,4-Dioxane	A	5.00	4.22	0.1857641	0.1566312		-15.7	30
Ethanol	A	5.00	4.23	0.2343264	0.1982041		-15.4	30
Ethyl Acetate	A	5.00	4.80	0.2308163	0.2215721		-4.0	30
Ethylbenzene	A	5.00	4.70	1.455024	1.367439		-6.0	30
4-Ethyltoluene	A	5.00	5.13	1.413771	1.450871		2.6	30
Heptane	A	5.00	4.40	0.2850308	0.2508335		-12.0	30
Hexachlorobutadiene	A	5.00	4.76	0.4677459	0.4457944		-4.7	30
Hexane	A	5.00	4.83	0.8985394	0.8152776		-3.4	30

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

CONTINUING CALIBRATION CHECK

EPA TO-15

S081599-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.30	0.7712864	0.6633161		-14.0	30
Isopropanol	A	5.00	5.01	1.338902	1.342194		0.2	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.54	1.834723	1.665834		-9.2	30
Methylene Chloride	A	5.00	4.13	0.9597215	0.7931465		-17.4	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.23	0.7726854	0.6543635		-15.3	30
Naphthalene	A	5.00	4.90	1.092246	1.070604		-2.0	30
Propene	A	5.00	3.58	0.5941328	0.4249009		-28.5	30
Styrene	A	5.00	5.06	0.7890752	0.7985217		1.2	30
1,1,2,2-Tetrachloroethane	A	5.00	4.54	0.9851261	0.8944307		-9.2	30
Tetrachloroethylene	A	5.00	4.61	0.457194	0.421791		-7.7	30
Tetrahydrofuran	A	5.00	4.46	0.2957092	0.2639821		-10.7	30
Toluene	A	5.00	4.41	1.15399	1.017287		-11.8	30
1,2,4-Trichlorobenzene	A	5.00	4.62	0.4973623	0.4594298		-7.6	30
1,1,1-Trichloroethane	A	5.00	4.19	0.5975698	0.5004168		-16.3	30
1,1,2-Trichloroethane	A	5.00	4.10	0.4162703	0.3413688		-18.0	30
Trichloroethylene	A	5.00	4.20	0.3947958	0.3317837		-16.0	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.66	1.463327	1.655455		13.1	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.62	1.432547	1.325184		-7.5	30
1,2,4-Trimethylbenzene	A	5.00	5.15	1.156019	1.190457		3.0	30
1,3,5-Trimethylbenzene	A	5.00	5.20	1.190388	1.236911		3.9	30
Vinyl Acetate	A	5.00	3.85	1.986739	1.53131		-22.9	30
Vinyl Chloride	A	5.00	5.46	0.7142115	0.7793295		9.1	30
m&p-Xylene	A	10.0	9.90	1.129066	1.118296		-1.0	30
o-Xylene	A	5.00	5.04	1.138955	1.14726		0.7	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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

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

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

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 - ISO 17025:2017	100033	03/1/2024
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

2263665



State Of Origin: NY

Cert. Needed: ☐ Yes ☐ No

Owner Received Date: 12/21/2022 **Results Requested By:** 1/6/2023

Subcontract To

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

***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.

Page 20 of 22

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SUBMIT



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 PW Grosser Consulting

Received By	<u>CH</u>	Date	<u>12/28/22</u>	Time	<u>10:43</u>
How Were the samples received?	In Cooler	On Ice	No Ice		
	In Box	Ambient	Melted Ice		
Were samples within Temperature Compliance?	Within 2-6°C	By Gun #	Actual Temp -		
	<u>NH</u>	By Blank #	Actual Temp -		
Was Custody Seal In tact?	<u>NH</u>	Were Samples Tampered with?	<u>NH</u>		
Was COC Relinquished?	<u>T</u>	Does Chain Agree With Samples?	<u>T</u>		
Are there any loose caps/valves on any samples?	<u>F</u>				
Is COC in ink/ Legible?	<u>T</u>	Were samples received within holding time?			
Did COC Include all Pertinent Information?	Client?	Analysis?	Sampler Name?		
	Project?	ID's?	Collection Dates/Times?		
Are Sample Labels filled out and legible?					
Are there Rushes?	<u>F</u>	Who was notified?			
Samples are received within holding time?	<u>T</u>				
Proper Media Used?	<u>T</u>	Individually Certified Cans?	<u>F</u>		
Are there Trip Blanks?	<u>F</u>	Is there enough Volume?	<u>T</u>		

Containers:	#	Size	Regulator	Duration	Accessories:			
Summa Cans	1	3 Liter	1	15 min	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/TO-11s					Tedlar			

[illegible]**Comments:**

February 02, 2023

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

RE: Project: MIN1001/ MINMILT 1/24
Pace Project No.: 70244057

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on January 24, 2023. 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,
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CERTIFICATIONS

Project: MIN1001/ MINMILT 1/24

Pace Project No.: 70244057

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/ MINMILT 1/24

Pace Project No.: 70244057

Sample: SYS -EFF		Lab ID: 70244057001		Collected: 01/24/23 09:30		Received: 01/24/23 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	744	ug/L	100	1	01/25/23 08:49	01/25/23 17:06	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/31/23 18:03	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/23 18:03	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/23 18:03	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/31/23 18:03	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/31/23 18:03	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/23 18:03	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		01/31/23 18:03	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/23 18:03	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/23 18:03	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		01/31/23 18:03	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/23 18:03	108-10-1		
Acetone	<5.0	ug/L	5.0	1		01/31/23 18:03	67-64-1		
Benzene	<0.70	ug/L	0.70	1		01/31/23 18:03	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/23 18:03	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		01/31/23 18:03	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		01/31/23 18:03	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/23 18:03	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/23 18:03	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/23 18:03	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		01/31/23 18:03	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		01/31/23 18:03	67-66-3		
Chloromethane	44.2	ug/L	1.0	1		01/31/23 18:03	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/23 18:03	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/23 18:03	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/23 18:03	75-09-2		
Styrene	<1.0	ug/L	1.0	1		01/31/23 18:03	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		01/31/23 18:03	127-18-4		
Toluene	<1.0	ug/L	1.0	1		01/31/23 18:03	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		01/31/23 18:03	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		01/31/23 18:03	75-01-4	v3	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/23 18:03	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/23 18:03	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/23 18:03	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	87	%	81-122	1		01/31/23 18:03	17060-07-0		
4-Bromofluorobenzene (S)	102	%	79-118	1		01/31/23 18:03	460-00-4		
Toluene-d8 (S)	100	%	82-122	1		01/31/23 18:03	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	7.1	Std. Units	0.10	1		02/02/23 14:07		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/ MINMILT 1/24

Pace Project No.: 70244057

Sample: SYS -EFF		Lab ID: 70244057001	Collected: 01/24/23 09:30	Received: 01/24/23 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	12.4	deg C	0.10	1		02/02/23 14:07		H3,H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/ MINMILT 1/24

Pace Project No.: 70244057

Sample: SYS -INF		Lab ID: 70244057002		Collected: 01/24/23 09:40		Received: 01/24/23 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	1600	ug/L	100	1	01/25/23 08:49	01/25/23 17:09	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/31/23 19:08	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/23 19:08	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/23 19:08	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/31/23 19:08	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/31/23 19:08	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/23 19:08	107-06-2		
1,2-Dichloroethene (Total)	670	ug/L	40.0	20		01/31/23 19:30	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/23 19:08	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/23 19:08	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		01/31/23 19:08	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/23 19:08	108-10-1		
Acetone	<5.0	ug/L	5.0	1		01/31/23 19:08	67-64-1		
Benzene	<0.70	ug/L	0.70	1		01/31/23 19:08	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/23 19:08	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		01/31/23 19:08	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		01/31/23 19:08	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/23 19:08	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/23 19:08	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/23 19:08	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		01/31/23 19:08	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		01/31/23 19:08	67-66-3		
Chloromethane	42.0	ug/L	1.0	1		01/31/23 19:08	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/23 19:08	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/23 19:08	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/23 19:08	75-09-2		
Styrene	<1.0	ug/L	1.0	1		01/31/23 19:08	100-42-5		
Tetrachloroethene	1010	ug/L	20.0	20		01/31/23 19:30	127-18-4		
Toluene	<1.0	ug/L	1.0	1		01/31/23 19:08	108-88-3		
Trichloroethene	59.7	ug/L	1.0	1		01/31/23 19:08	79-01-6		
Vinyl chloride	20.4	ug/L	1.0	1		01/31/23 19:08	75-01-4	v3	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/23 19:08	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/23 19:08	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/23 19:08	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	85	%	81-122	1		01/31/23 19:08	17060-07-0		
4-Bromofluorobenzene (S)	111	%	79-118	1		01/31/23 19:08	460-00-4		
Toluene-d8 (S)	100	%	82-122	1		01/31/23 19:08	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	7.0	Std. Units	0.10	1		02/02/23 14:08		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/ MINMILT 1/24

Pace Project No.: 70244057

Sample: SYS -INF		Lab ID: 70244057002	Collected: 01/24/23 09:40	Received: 01/24/23 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	12.6	deg C	0.10	1		02/02/23 14:08		H3,H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MIN1001/ MINMILT 1/24

Pace Project No.: 70244057

QC Batch:	291126	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: 70244057001, 70244057002

METHOD BLANK: 1472103 Matrix: Water

Associated Lab Samples: 70244057001, 70244057002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	01/25/23 16:10	

LABORATORY CONTROL SAMPLE: 1472104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12800	102	85-115	

MATRIX SPIKE SAMPLE: 1472106

Parameter	Units	70244174001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	548	5000	5020	89	70-130	

MATRIX SPIKE SAMPLE: 1472108

Parameter	Units	70244061001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2.5 mg/L	5000	7250	95	70-130	

SAMPLE DUPLICATE: 1472105

Parameter	Units	70244174001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	548	576	5	

SAMPLE DUPLICATE: 1472107

Parameter	Units	70244061001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	2.5 mg/L	2500	1	

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QUALITY CONTROL DATA

Project: MIN1001/ MINMILT 1/24

Pace Project No.: 70244057

QC Batch:	291860	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70244057001, 70244057002

METHOD BLANK: 1475731 Matrix: Water

Associated Lab Samples: 70244057001, 70244057002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	01/31/23 13:12	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	01/31/23 13:12	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	01/31/23 13:12	
1,1-Dichloroethane	ug/L	<1.0	1.0	01/31/23 13:12	
1,1-Dichloroethene	ug/L	<1.0	1.0	01/31/23 13:12	
1,2-Dichloroethane	ug/L	<1.0	1.0	01/31/23 13:12	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	01/31/23 13:12	
1,2-Dichloropropane	ug/L	<1.0	1.0	01/31/23 13:12	
2-Butanone (MEK)	ug/L	<5.0	5.0	01/31/23 13:12	
2-Hexanone	ug/L	<5.0	5.0	01/31/23 13:12	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	01/31/23 13:12	
Acetone	ug/L	<5.0	5.0	01/31/23 13:12	
Benzene	ug/L	<0.70	0.70	01/31/23 13:12	
Bromodichloromethane	ug/L	<1.0	1.0	01/31/23 13:12	
Bromoform	ug/L	<1.0	1.0	01/31/23 13:12	
Bromomethane	ug/L	<1.0	1.0	01/31/23 13:12	
Carbon disulfide	ug/L	<1.0	1.0	01/31/23 13:12	
Carbon tetrachloride	ug/L	<1.0	1.0	01/31/23 13:12	
Chlorobenzene	ug/L	<1.0	1.0	01/31/23 13:12	
Chloroethane	ug/L	<1.0	1.0	01/31/23 13:12	
Chloroform	ug/L	<1.0	1.0	01/31/23 13:12	
Chloromethane	ug/L	<1.0	1.0	01/31/23 13:12	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	01/31/23 13:12	
Dibromochloromethane	ug/L	<1.0	1.0	01/31/23 13:12	
Ethylbenzene	ug/L	<1.0	1.0	01/31/23 13:12	
Methylene Chloride	ug/L	<1.0	1.0	01/31/23 13:12	
Styrene	ug/L	<1.0	1.0	01/31/23 13:12	
Tetrachloroethene	ug/L	<1.0	1.0	01/31/23 13:12	
Toluene	ug/L	<1.0	1.0	01/31/23 13:12	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	01/31/23 13:12	
Trichloroethene	ug/L	<1.0	1.0	01/31/23 13:12	
Vinyl chloride	ug/L	<1.0	1.0	01/31/23 13:12	v3
Xylene (Total)	ug/L	<3.0	3.0	01/31/23 13:12	
1,2-Dichloroethane-d4 (S)	%	85	81-122	01/31/23 13:12	
4-Bromofluorobenzene (S)	%	102	79-118	01/31/23 13:12	
Toluene-d8 (S)	%	99	82-122	01/31/23 13:12	

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QUALITY CONTROL DATA

Project: MIN1001/ MINMILT 1/24

Pace Project No.: 70244057

LABORATORY CONTROL SAMPLE: 1475732

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	42.4	85	70-127	
1,1,2-Trichloroethane	ug/L	50	48.6	97	81-119	
1,1-Dichloroethane	ug/L	50	49.2	98	72-126	
1,1-Dichloroethene	ug/L	50	57.3	115	66-133	
1,2-Dichloroethane	ug/L	50	47.0	94	69-134	
1,2-Dichloroethene (Total)	ug/L	100	109	109	69-123	
1,2-Dichloropropane	ug/L	50	46.8	94	75-125	
2-Butanone (MEK)	ug/L	50	51.5	103	33-165	
2-Hexanone	ug/L	50	50.5	101	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	43.6	87	62-131	
Acetone	ug/L	50	72.8	146	14-156 v1	
Benzene	ug/L	50	50.3	101	78-117	
Bromodichloromethane	ug/L	50	46.6	93	80-123	
Bromoform	ug/L	50	44.5	89	49-138	
Bromomethane	ug/L	50	39.4	79	10-143	
Carbon disulfide	ug/L	50	54.0	108	66-133	
Carbon tetrachloride	ug/L	50	43.6	87	64-135	
Chlorobenzene	ug/L	50	53.0	106	79-117	
Chloroethane	ug/L	50	40.8	82	31-156	
Chloroform	ug/L	50	51.7	103	79-123	
Chloromethane	ug/L	50	39.4	79	39-116 v3	
cis-1,3-Dichloropropene	ug/L	50	46.4	93	78-131	
Dibromochloromethane	ug/L	50	47.9	96	65-123	
Ethylbenzene	ug/L	50	52.6	105	79-115	
Methylene Chloride	ug/L	50	52.2	104	67-123	
Styrene	ug/L	50	52.8	106	82-121	
Tetrachloroethene	ug/L	50	55.8	112	65-120	
Toluene	ug/L	50	52.3	105	80-114	
trans-1,3-Dichloropropene	ug/L	50	41.7	83	73-135	
Trichloroethene	ug/L	50	52.0	104	79-115	
Vinyl chloride	ug/L	50	45.3	91	49-118 v3	
Xylene (Total)	ug/L	150	157	105	80-118	
1,2-Dichloroethane-d4 (S)	%			84	81-122	
4-Bromofluorobenzene (S)	%			101	79-118	
Toluene-d8 (S)	%			100	82-122	

MATRIX SPIKE SAMPLE: 1476179

Parameter	Units	70244614002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	47.8	96	72-123	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	43.1	86	64-133	
1,1,2-Trichloroethane	ug/L	<1.0	50	47.8	96	78-120	
1,1-Dichloroethane	ug/L	<1.0	50	48.9	98	70-124	
1,1-Dichloroethene	ug/L	<1.0	50	49.6	99	61-139	

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QUALITY CONTROL DATA

Project: MIN1001/ MINMILT 1/24

Pace Project No.: 70244057

MATRIX SPIKE SAMPLE: 1476179		70244614002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	45.5	91	58-138	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	109	109	59-133	
1,2-Dichloropropane	ug/L	<1.0	50	47.2	94	74-122	
2-Butanone (MEK)	ug/L	<5.0	50	42.0	84	33-148	
2-Hexanone	ug/L	<5.0	50	38.9	78	49-124	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	39.1	78	60-136	
Acetone	ug/L	<5.0	50	33.6	67	35-112	v1
Benzene	ug/L	<1.0	50	51.4	103	70-130	
Bromodichloromethane	ug/L	<1.0	50	45.7	91	74-122	
Bromoform	ug/L	<1.0	50	47.4	95	39-139	
Bromomethane	ug/L	<1.0	50	33.7	67	10-130	
Carbon disulfide	ug/L	<1.0	50	51.4	103	60-129	
Carbon tetrachloride	ug/L	<1.0	50	44.1	88	56-143	
Chlorobenzene	ug/L	<1.0	50	53.5	107	74-122	
Chloroethane	ug/L	<1.0	50	42.7	85	35-146	
Chloroform	ug/L	<1.0	50	50.8	102	71-129	
Chloromethane	ug/L	<1.0	50	43.2	86	29-112	v3
cis-1,3-Dichloropropene	ug/L	<1.0	50	45.0	90	67-130	
Dibromochloromethane	ug/L	<1.0	50	46.7	93	55-126	
Ethylbenzene	ug/L	<1.0	50	53.2	106	70-126	
Methylene Chloride	ug/L	<1.0	50	50.7	101	69-117	
Styrene	ug/L	<1.0	50	53.4	107	79-123	
Tetrachloroethene	ug/L	<1.0	50	57.1	114	64-124	
Toluene	ug/L	<1.0	50	53.8	108	76-123	
trans-1,3-Dichloropropene	ug/L	<1.0	50	40.0	80	61-130	
Trichloroethene	ug/L	<1.0	50	53.5	107	73-125	
Vinyl chloride	ug/L	<1.0	50	47.8	96	33-127	v3
Xylene (Total)	ug/L	<3.0	150	161	107	78-123	
1,2-Dichloroethane-d4 (S)	%				84	81-122	
4-Bromofluorobenzene (S)	%				117	79-118	
Toluene-d8 (S)	%				102	82-122	

SAMPLE DUPLICATE: 1476180

Parameter	Units	70244613001	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	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 1/24

Pace Project No.: 70244057

SAMPLE DUPLICATE: 1476180

Parameter	Units	70244613001 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		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	<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)	%	86	87		
4-Bromofluorobenzene (S)	%	102	102		
Toluene-d8 (S)	%	99	99		

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QUALITY CONTROL DATA

Project: MIN1001/ MINMILT 1/24

Pace Project No.: 70244057

QC Batch: 292030

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: 70244057001, 70244057002

SAMPLE DUPLICATE: 1476539

Parameter	Units	70244072001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.8	6.8		0 H3,H6,N3
Temperature, Water (C)	deg C	11.2	11.4		2 H3,H6

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QUALIFIERS

Project: MIN1001/ MINMILT 1/24

Pace Project No.: 70244057

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.

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 1/24

Pace Project No.: 70244057

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70244057001	SYS -EFF	EPA 200.7	291126	EPA 200.7	291242
70244057002	SYS -INF	EPA 200.7	291126	EPA 200.7	291242
70244057001	SYS -EFF	EPA 8260C/5030C	291860		
70244057002	SYS -INF	EPA 8260C/5030C	291860		
70244057001	SYS -EFF	SM22 4500-H+B	292030		
70244057002	SYS -INF	SM22 4500-H+B	292030		

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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: PW Grosser Consulting		Billing Information:				
Address: 630 Johnson Ave, Bohemia, NY 11716		Same as Client				
Report To: Kaitlyn Crosby		Email To: Kcrosby@pwgrosser.com				
Copy To:		Site Collection Info/Address: 540 Smith Street				
Customer Project Name/Number: MIN1001/MinMilt		State: County/City: Time Zone Collected:				
Phone: 631-588-6353		NY / Farmingdale [] JPT [] JMT [] JCT [] JET				
Email: kcrosby@pwgrosser.com		Compliance Monitoring?				
Collected By (print): Kaitlyn Crosby		[] Yes [] No				
Collected By (signature): <i>Kaitlyn Crosby</i>		DW PWS ID #:				
Quote #:		DW Location Code:				
Turnaround Date Required: Standard		Immediately Packed on Ice:				
Rush: (Expedite Charges Apply)		[] Yes [] No				
[] Same Day [] Next Day		Field Filtered (if applicable):				
[] 2 Day [] 3 Day		[] Yes [] No				
[] 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), 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
SYS-EFF	GW	Grab	1-24-23 0930	0930		4
SYS-INF	↓	↓	↓	0940		↓
Customer Remarks / Special Conditions / Possible Hazards:						
Type of Ice Used: Wet Blue Dry None						
Packing Material Used:						
Radchem sample(s) screened (<500 cpm): Y N NA						
Date/Time: 1-24-22 1030						
Received by/Company: (Signature) <i>Paul P-H</i>						
Date/Time: 1-24-22 1030						
Received by/Company: (Signature)						
Date/Time:						
Received by/Company: (Signature)						
Date/Time:						

WO#: 70244057



: ONLY

Container Preservative Type:

31U

** 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	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:	Y	NA
Sample pH Acceptable	Y	NA
pH Strips: <i>HC 14.3085</i>	Y	NA
Sulfide Present	Y	NA
Lead Acetate Strips:	Y	NA

LAB USE ONLY:

Lab Sample # / Comments:

LAB Sample Temperature Info:

Temp Blank Received: Y NA

Therm ID#:

Cooler 1 Temp Upon Receipt: *0.2*

Cooler 1 Therm Corr. Factor: *0.10C*

Cooler 1 Corrected Temp: *0.3*

Comments:

MTIL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y NA

HCL MeOH TSP Other

Non Conformance(s):

YES / NO

Page: of:

WO#: 70244057

PM: GFD

Due Date: 02/07/23

CLIENT: PWG

Use Point Number Sp

4

Profile #

Client:

WORK ORDER:	Notes
124	124

[illegible]

Container Loads

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	Oil
WP	Wipe
DW	Drinking Water

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium
AG2U	500mL unpres amber

* Can also be a BP4N

Item Codes	Glass		Plastic		Misc.		
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber	BP4U	125mL unpreserved	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCl	AG3U	250mL unpres amber	BP3U	250mL unpreserved	R	Terracore Kit
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber	BP2U	500mL unpreserved	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuric clear vial	AG1U	1liter unpres amber	BP1U	1L unpreserved plastic	WG1U	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na	AG3S	250mL H2SO4 amber	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid	AG3T	250mL Na Thio amber	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue)	BP2S	500mL H2SO4 plastic	BG1H	1L HCl Clear Glass
DG9S	Ammonium Cl/CuSO4	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
GG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma	WP	Wipe

SOC	
DG9T	40mL Na Thio amber 2
DG9A	40mL Ascorbic acid 2
DG9Y	Citrate/Na Thiosulfate 2
DG6T	Na Thiosulfate 60mL vial 1
AG3U	250mL unpres amber
AG3T	Na Thiosulfate 250mL
BP1B	Na Thiosulfate Amber
AG1T	Na Thiosulfate 1L
AG1A	(NH4Cl) 2

DG9T	40mL Na Thio amber	2
DG9A	40mL Ascorbic acid	2
DG9Y	Citrate/Na Thiosulfate	2
DG6T	Na Thiosulfate 60mL vial	1
AG3U	250mL unpres amber	
AG3T	Na Thiosulfate 250mL	
BP1B	Na Thiosulfate Amber	
AG1T	Na Thiosulfate 1L	2
AG1A	(NH ₄ Cl)	2

BP35	250mL Ammonium
BP3R	250mL NH ₄ SO ₄
BP1Z	1L NaOH, Zn Acetate
BP1N	1L HNO ₃ plastic
BP1B	Na Thiosulfate Amber

AG1A	1L Ammonium Chloride
------	----------------------

WG90	8oz clear soil jar
WG40	4oz clear soil jar

Additional Comments

February 21, 2023

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

RE: Project: MIN1001/MIN MILT 2/10
Pace Project No.: 70246017

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2023. 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/MIN MILT 2/10

Pace Project No.: 70246017

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/MIN MILT 2/10

Pace Project No.: 70246017

Sample: SYS-EFF		Lab ID: 70246017001		Collected: 02/10/23 11:00		Received: 02/10/23 11:37		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	1340	ug/L	100	1	02/15/23 09:01	02/15/23 19:41	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/15/23 13:53	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/15/23 13:53	79-34-5	R1	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/15/23 13:53	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		02/15/23 13:53	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		02/15/23 13:53	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/15/23 13:53	107-06-2		
1,2-Dichloroethene (Total)	2.5	ug/L	2.0	1		02/15/23 13:53	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/15/23 13:53	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/15/23 13:53	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		02/15/23 13:53	591-78-6	v3	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/15/23 13:53	108-10-1		
Acetone	<5.0	ug/L	5.0	1		02/15/23 13:53	67-64-1		
Benzene	<0.70	ug/L	0.70	1		02/15/23 13:53	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		02/15/23 13:53	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		02/15/23 13:53	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		02/15/23 13:53	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		02/15/23 13:53	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/15/23 13:53	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		02/15/23 13:53	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		02/15/23 13:53	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		02/15/23 13:53	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		02/15/23 13:53	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		02/15/23 13:53	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		02/15/23 13:53	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		02/15/23 13:53	75-09-2		
Styrene	<1.0	ug/L	1.0	1		02/15/23 13:53	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		02/15/23 13:53	127-18-4		
Toluene	<1.0	ug/L	1.0	1		02/15/23 13:53	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		02/15/23 13:53	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		02/15/23 13:53	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		02/15/23 13:53	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/15/23 13:53	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/15/23 13:53	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	92	%	81-122	1		02/15/23 13:53	17060-07-0		
4-Bromofluorobenzene (S)	108	%	79-118	1		02/15/23 13:53	460-00-4		
Toluene-d8 (S)	95	%	82-122	1		02/15/23 13:53	2037-26-5		
TIC MSV Water		Analytical Method: EPA 8260 Pace Analytical Services - Melville							
TIC Search	No TICS Found			1		02/16/23 14:12			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/MIN MILT 2/10

Pace Project No.: 70246017

Sample: SYS-EFF		Lab ID: 70246017001	Collected: 02/10/23 11:00	Received: 02/10/23 11:37	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	7.4	Std. Units	0.10	1		02/20/23 12:39		H3,H6, N3
Temperature, Water (C)	15.2	deg C	0.10	1		02/20/23 12:39		H3,H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/MIN MILT 2/10

Pace Project No.: 70246017

Sample: SYS-INF		Lab ID: 70246017002		Collected: 02/10/23 11:10		Received: 02/10/23 11:37		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	2080	ug/L	100	1	02/15/23 09:01	02/15/23 19:44	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/15/23 18:38	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/15/23 18:38	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/15/23 18:38	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		02/15/23 18:38	75-34-3		
1,1-Dichloroethene	1.2	ug/L	1.0	1		02/15/23 18:38	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/15/23 18:38	107-06-2		
1,2-Dichloroethene (Total)	696	ug/L	20.0	10		02/20/23 16:27	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/15/23 18:38	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/15/23 18:38	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		02/15/23 18:38	591-78-6	v3	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/15/23 18:38	108-10-1		
Acetone	<5.0	ug/L	5.0	1		02/15/23 18:38	67-64-1		
Benzene	<0.70	ug/L	0.70	1		02/15/23 18:38	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		02/15/23 18:38	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		02/15/23 18:38	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		02/15/23 18:38	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		02/15/23 18:38	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/15/23 18:38	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		02/15/23 18:38	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		02/15/23 18:38	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		02/15/23 18:38	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		02/15/23 18:38	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		02/15/23 18:38	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		02/15/23 18:38	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		02/15/23 18:38	75-09-2		
Styrene	<1.0	ug/L	1.0	1		02/15/23 18:38	100-42-5		
Tetrachloroethene	704	ug/L	10.0	10		02/20/23 16:27	127-18-4		
Toluene	<1.0	ug/L	1.0	1		02/15/23 18:38	108-88-3		
Trichloroethene	97.9	ug/L	1.0	1		02/15/23 18:38	79-01-6		
Vinyl chloride	26.0	ug/L	1.0	1		02/15/23 18:38	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		02/15/23 18:38	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/15/23 18:38	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/15/23 18:38	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	92	%	81-122	1		02/15/23 18:38	17060-07-0		
4-Bromofluorobenzene (S)	107	%	79-118	1		02/15/23 18:38	460-00-4		
Toluene-d8 (S)	94	%	82-122	1		02/15/23 18:38	2037-26-5		
4500H+ pH, Electrometric									
Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville									
pH	6.1	Std. Units	0.10	1		02/20/23 12:39		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/MIN MILT 2/10

Pace Project No.: 70246017

Sample: SYS-INF		Lab ID: 70246017002		Collected: 02/10/23 11:10		Received: 02/10/23 11:37		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	15.8	deg C	0.10	1		02/20/23 12:39		H3,H6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MIN1001/MIN MILT 2/10

Pace Project No.: 70246017

QC Batch: 293711

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: 70246017001, 70246017002

METHOD BLANK: 1485939

Matrix: Water

Associated Lab Samples: 70246017001, 70246017002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	02/15/23 18:20	

LABORATORY CONTROL SAMPLE: 1485940

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

MATRIX SPIKE SAMPLE: 1485985

Parameter	Units	70246071002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	3090	5000	7840	95	70-130	

MATRIX SPIKE SAMPLE: 1485987

Parameter	Units	70245986001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	5000	4700	94	70-130	

SAMPLE DUPLICATE: 1485984

Parameter	Units	70246071002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	3090	3150	2	

SAMPLE DUPLICATE: 1485986

Parameter	Units	70245986001 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/MIN MILT 2/10

Pace Project No.: 70246017

QC Batch: 293748

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70246017001, 70246017002

METHOD BLANK: 1486089

Matrix: Water

Associated Lab Samples: 70246017001, 70246017002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	02/15/23 11:01	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	02/15/23 11:01	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	02/15/23 11:01	
1,1-Dichloroethane	ug/L	<1.0	1.0	02/15/23 11:01	
1,1-Dichloroethene	ug/L	<1.0	1.0	02/15/23 11:01	
1,2-Dichloroethane	ug/L	<1.0	1.0	02/15/23 11:01	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	02/15/23 11:01	
1,2-Dichloropropane	ug/L	<1.0	1.0	02/15/23 11:01	
2-Butanone (MEK)	ug/L	<5.0	5.0	02/15/23 11:01	
2-Hexanone	ug/L	<5.0	5.0	02/15/23 11:01	v3
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	02/15/23 11:01	
Acetone	ug/L	<5.0	5.0	02/15/23 11:01	
Benzene	ug/L	<0.70	0.70	02/15/23 11:01	
Bromodichloromethane	ug/L	<1.0	1.0	02/15/23 11:01	
Bromoform	ug/L	<1.0	1.0	02/15/23 11:01	
Bromomethane	ug/L	<1.0	1.0	02/15/23 11:01	
Carbon disulfide	ug/L	<1.0	1.0	02/15/23 11:01	
Carbon tetrachloride	ug/L	<1.0	1.0	02/15/23 11:01	
Chlorobenzene	ug/L	<1.0	1.0	02/15/23 11:01	
Chloroethane	ug/L	<1.0	1.0	02/15/23 11:01	
Chloroform	ug/L	<1.0	1.0	02/15/23 11:01	
Chloromethane	ug/L	<1.0	1.0	02/15/23 11:01	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	02/15/23 11:01	
Dibromochloromethane	ug/L	<1.0	1.0	02/15/23 11:01	
Ethylbenzene	ug/L	<1.0	1.0	02/15/23 11:01	
Methylene Chloride	ug/L	<1.0	1.0	02/15/23 11:01	
Styrene	ug/L	<1.0	1.0	02/15/23 11:01	
Tetrachloroethene	ug/L	<1.0	1.0	02/15/23 11:01	
Toluene	ug/L	<1.0	1.0	02/15/23 11:01	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	02/15/23 11:01	
Trichloroethene	ug/L	<1.0	1.0	02/15/23 11:01	
Vinyl chloride	ug/L	<1.0	1.0	02/15/23 11:01	
Xylene (Total)	ug/L	<3.0	3.0	02/15/23 11:01	
1,2-Dichloroethane-d4 (S)	%	95	81-122	02/15/23 11:01	
4-Bromofluorobenzene (S)	%	109	79-118	02/15/23 11:01	
Toluene-d8 (S)	%	94	82-122	02/15/23 11:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MIN1001/MIN MILT 2/10

Pace Project No.: 70246017

LABORATORY CONTROL SAMPLE: 1486090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.9	102	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	41.3	83	70-127	
1,1,2-Trichloroethane	ug/L	50	48.2	96	81-119	
1,1-Dichloroethane	ug/L	50	47.2	94	72-126	
1,1-Dichloroethene	ug/L	50	52.4	105	66-133	
1,2-Dichloroethane	ug/L	50	54.6	109	69-134	
1,2-Dichloroethene (Total)	ug/L	100	108	108	69-123	
1,2-Dichloropropane	ug/L	50	43.3	87	75-125	
2-Butanone (MEK)	ug/L	50	40.4	81	33-165	
2-Hexanone	ug/L	50	35.7	71	50-128 v3	
4-Methyl-2-pentanone (MIBK)	ug/L	50	37.7	75	62-131	
Acetone	ug/L	50	36.7	73	14-156	
Benzene	ug/L	50	48.8	98	78-117	
Bromodichloromethane	ug/L	50	48.8	98	80-123	
Bromoform	ug/L	50	42.0	84	49-138	
Bromomethane	ug/L	50	37.8	76	10-143	
Carbon disulfide	ug/L	50	45.7	91	66-133	
Carbon tetrachloride	ug/L	50	46.3	93	64-135	
Chlorobenzene	ug/L	50	49.6	99	79-117	
Chloroethane	ug/L	50	42.4	85	31-156	
Chloroform	ug/L	50	54.6	109	79-123	
Chloromethane	ug/L	50	38.1	76	39-116	
cis-1,3-Dichloropropene	ug/L	50	44.7	89	78-131	
Dibromochloromethane	ug/L	50	46.7	93	65-123	
Ethylbenzene	ug/L	50	49.5	99	79-115	
Methylene Chloride	ug/L	50	49.7	99	67-123	
Styrene	ug/L	50	50.5	101	82-121	
Tetrachloroethene	ug/L	50	50.6	101	65-120	
Toluene	ug/L	50	52.9	106	80-114	
trans-1,3-Dichloropropene	ug/L	50	42.9	86	73-135	
Trichloroethene	ug/L	50	53.1	106	79-115	
Vinyl chloride	ug/L	50	45.7	91	49-118	
Xylene (Total)	ug/L	150	148	99	80-118	
1,2-Dichloroethane-d4 (S)	%			91	81-122	
4-Bromofluorobenzene (S)	%			108	79-118	
Toluene-d8 (S)	%			95	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1487185 1487363

Parameter	Units	70246017001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	58.9	52.3	118	105	72-123	12	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	53.6	39.2	107	78	64-133	31	R1
1,1,2-Trichloroethane	ug/L	<1.0	50	50	52.4	46.9	105	94	78-120	11	
1,1-Dichloroethane	ug/L	<1.0	50	50	54.0	47.6	108	95	70-124	13	

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QUALITY CONTROL DATA

Project: MIN1001/MIN MILT 2/10

Pace Project No.: 70246017

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1487185 1487363											
Parameter	Units	70246017001		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD
		Result	Conc.	Spike	Spike						
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	Qual
1,1-Dichloroethene	ug/L	<1.0	50	50	50	61.6	53.2	123	106	61-139	15
1,2-Dichloroethane	ug/L	<1.0	50	50	50	59.9	55.4	120	111	58-138	8
1,2-Dichloroethene (Total)	ug/L	2.5	100	100	100	125	111	122	108	59-133	12
1,2-Dichloropropane	ug/L	<1.0	50	50	50	47.4	42.5	95	85	74-122	11
2-Butanone (MEK)	ug/L	<5.0	50	50	50	41.8	36.8	84	74	33-148	13
2-Hexanone	ug/L	<5.0	50	50	50	36.9	33.0	74	66	49-124	11 v3
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	50	43.3	37.7	87	75	60-136	14
Acetone	ug/L	<5.0	50	50	50	41.0	36.1	79	70	35-112	13
Benzene	ug/L	<0.70	50	50	50	55.7	48.9	111	98	70-130	13
Bromodichloromethane	ug/L	<1.0	50	50	50	53.4	48.4	107	97	74-122	10
Bromoform	ug/L	<1.0	50	50	50	40.7	37.1	81	74	39-139	9
Bromomethane	ug/L	<1.0	50	50	50	39.9	44.0	80	88	10-130	10
Carbon disulfide	ug/L	<1.0	50	50	50	53.3	46.0	107	92	60-129	15
Carbon tetrachloride	ug/L	<1.0	50	50	50	53.6	48.8	107	98	56-143	9
Chlorobenzene	ug/L	<1.0	50	50	50	55.8	49.9	112	100	74-122	11
Chloroethane	ug/L	<1.0	50	50	50	47.8	42.0	96	84	35-146	13
Chloroform	ug/L	<1.0	50	50	50	61.6	55.1	123	110	71-129	11
Chloromethane	ug/L	<1.0	50	50	50	40.2	38.9	80	78	29-112	3
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	50	48.7	44.2	97	88	67-130	10
Dibromochloromethane	ug/L	<1.0	50	50	50	47.0	43.4	94	87	55-126	8
Ethylbenzene	ug/L	<1.0	50	50	50	55.2	49.6	110	99	70-126	11
Methylene Chloride	ug/L	<1.0	50	50	50	55.7	49.1	111	98	69-117	13
Styrene	ug/L	<1.0	50	50	50	55.7	49.8	111	100	79-123	11
Tetrachloroethene	ug/L	<1.0	50	50	50	58.5	52.5	117	105	64-124	11
Toluene	ug/L	<1.0	50	50	50	61.0	53.9	122	108	76-123	12
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	50	46.4	41.6	93	83	61-130	11
Trichloroethene	ug/L	<1.0	50	50	50	61.5	54.6	123	109	73-125	12
Vinyl chloride	ug/L	<1.0	50	50	50	50.4	46.0	101	92	33-127	9
Xylene (Total)	ug/L	<3.0	150	150	150	166	150	111	100	78-123	11
1,2-Dichloroethane-d4 (S)	%							93	93	81-122	
4-Bromofluorobenzene (S)	%							107	110	79-118	
Toluene-d8 (S)	%							92	93	82-122	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MIN1001/MIN MILT 2/10

Pace Project No.: 70246017

QC Batch: 294356

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: 70246017001, 70246017002

SAMPLE DUPLICATE: 1488954

Parameter	Units	70245697002 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	5.1	5.1		0 H3,H6,N3
Temperature, Water (C)	deg C	10.9	10.8		1 H3,H6

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QUALIFIERS

Project: MIN1001/MIN MILT 2/10

Pace Project No.: 70246017

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.

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

R1 RPD value was outside control limits.

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/MIN MILT 2/10

Pace Project No.: 70246017

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70246017001	SYS-EFF	EPA 200.7	293711	EPA 200.7	293820
70246017002	SYS-INF	EPA 200.7	293711	EPA 200.7	293820
70246017001	SYS-EFF	EPA 8260C/5030C	293748		
70246017002	SYS-INF	EPA 8260C/5030C	293748		
70246017001	SYS-EFF	EPA 8260	287230		
70246017001	SYS-EFF	SM22 4500-H+B	294356		
70246017002	SYS-INF	SM22 4500-H+B	294356		

REPORT OF LABORATORY ANALYSIS

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April 04, 2023

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

RE: Project: MIN1001/MINMILT 3/22
Pace Project No.: 70250116

Dear Kaitlyn Crosby:

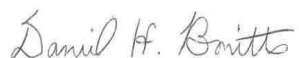
Enclosed are the analytical results for sample(s) received by the laboratory on March 22, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



Daniel H. Bonitto for
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 3/22

Pace Project No.: 70250116

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/MINMILT 3/22

Pace Project No.: 70250116

Sample: SYS-EFF		Lab ID: 70250116001		Collected: 03/22/23 09:00		Received: 03/22/23 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	808	ug/L	100	1	03/23/23 09:34	03/24/23 15:06	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		03/27/23 18:35	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		03/27/23 18:35	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		03/27/23 18:35	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		03/27/23 18:35	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		03/27/23 18:35	75-35-4	v3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		03/27/23 18:35	107-06-2		
1,2-Dichloroethene (Total)	2.7	ug/L	2.0	1		03/27/23 18:35	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		03/27/23 18:35	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		03/27/23 18:35	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		03/27/23 18:35	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		03/27/23 18:35	108-10-1		
Acetone	<5.0	ug/L	5.0	1		03/27/23 18:35	67-64-1	IL	
Benzene	<0.70	ug/L	0.70	1		03/27/23 18:35	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		03/27/23 18:35	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		03/27/23 18:35	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		03/27/23 18:35	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		03/27/23 18:35	75-15-0	v3	
Carbon tetrachloride	<1.0	ug/L	1.0	1		03/27/23 18:35	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		03/27/23 18:35	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		03/27/23 18:35	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		03/27/23 18:35	67-66-3		
Chloromethane	2.2	ug/L	1.0	1		03/27/23 18:35	74-87-3	IH	
Dibromochloromethane	<1.0	ug/L	1.0	1		03/27/23 18:35	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		03/27/23 18:35	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		03/27/23 18:35	75-09-2	v3	
Styrene	<1.0	ug/L	1.0	1		03/27/23 18:35	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		03/27/23 18:35	127-18-4		
Toluene	<1.0	ug/L	1.0	1		03/27/23 18:35	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		03/27/23 18:35	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		03/27/23 18:35	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		03/27/23 18:35	1330-20-7		
cis-1,2-Dichloroethene	2.7	ug/L	1.0	1		03/27/23 18:35	156-59-2		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/27/23 18:35	10061-01-5		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		03/27/23 18:35	156-60-5	v3	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/27/23 18:35	10061-02-6	IC	
Surrogates									
1,2-Dichloroethane-d4 (S)	89	%	81-122	1		03/27/23 18:35	17060-07-0		
4-Bromofluorobenzene (S)	101	%	79-118	1		03/27/23 18:35	460-00-4		
Toluene-d8 (S)	95	%	82-122	1		03/27/23 18:35	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/MINMILT 3/22

Pace Project No.: 70250116

Sample: SYS-EFF		Lab ID: 70250116001	Collected: 03/22/23 09:00	Received: 03/22/23 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
pH	7.5	Std. Units	0.10	1		03/28/23 18:31		H3,H6, N3
Temperature, Water (C)	11.6	deg C	0.10	1		03/28/23 18:31		H3,H6

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ANALYTICAL RESULTS

Project: MIN1001/MINMILT 3/22

Pace Project No.: 70250116

Sample: SYS-INF		Lab ID: 70250116002		Collected: 03/22/23 09:05		Received: 03/22/23 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	1650	ug/L	100	1	03/23/23 09:34	03/24/23 15:09	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		03/27/23 18:58	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		03/27/23 18:58	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		03/27/23 18:58	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		03/27/23 18:58	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		03/27/23 18:58	75-35-4	v3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		03/27/23 18:58	107-06-2		
1,2-Dichloroethene (Total)	473	ug/L	20.0	10		03/27/23 20:07	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		03/27/23 18:58	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		03/27/23 18:58	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		03/27/23 18:58	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		03/27/23 18:58	108-10-1		
Acetone	<5.0	ug/L	5.0	1		03/27/23 18:58	67-64-1	IL	
Benzene	<0.70	ug/L	0.70	1		03/27/23 18:58	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		03/27/23 18:58	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		03/27/23 18:58	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		03/27/23 18:58	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		03/27/23 18:58	75-15-0	v3	
Carbon tetrachloride	<1.0	ug/L	1.0	1		03/27/23 18:58	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		03/27/23 18:58	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		03/27/23 18:58	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		03/27/23 18:58	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		03/27/23 18:58	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		03/27/23 18:58	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		03/27/23 18:58	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		03/27/23 18:58	75-09-2	v3	
Styrene	<1.0	ug/L	1.0	1		03/27/23 18:58	100-42-5		
Tetrachloroethene	728	ug/L	10.0	10		03/27/23 20:07	127-18-4		
Toluene	<1.0	ug/L	1.0	1		03/27/23 18:58	108-88-3		
Trichloroethene	56.1	ug/L	1.0	1		03/27/23 18:58	79-01-6		
Vinyl chloride	24.5	ug/L	1.0	1		03/27/23 18:58	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		03/27/23 18:58	1330-20-7		
cis-1,2-Dichloroethene	473	ug/L	10.0	10		03/27/23 20:07	156-59-2		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/27/23 18:58	10061-01-5		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		03/27/23 18:58	156-60-5	v3	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/27/23 18:58	10061-02-6	IC	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		03/27/23 18:58	17060-07-0		
4-Bromofluorobenzene (S)	103	%	79-118	1		03/27/23 18:58	460-00-4		
Toluene-d8 (S)	100	%	82-122	1		03/27/23 18:58	2037-26-5		

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ANALYTICAL RESULTS

Project: MIN1001/MINMILT 3/22

Pace Project No.: 70250116

Sample: SYS-INF		Lab ID: 70250116002		Collected: 03/22/23 09:05		Received: 03/22/23 09:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	7.3	Std. Units	0.10	1		03/28/23 18:34			H3,H6, N3
Temperature, Water (C)	18.9	deg C	0.10	1		03/28/23 18:34			H3,H6

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ANALYTICAL RESULTS

Project: MIN1001/MINMILT 3/22

Pace Project No.: 70250116

Sample: UG		Lab ID: 70250116003		Collected: 03/22/23 09:10		Received: 03/22/23 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	6260	ug/L	100	1	03/23/23 09:34	03/24/23 15:19	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		03/27/23 19:21	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		03/27/23 19:21	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		03/27/23 19:21	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		03/27/23 19:21	75-34-3		
1,1-Dichloroethene	1.4	ug/L	1.0	1		03/27/23 19:21	75-35-4	v3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		03/27/23 19:21	107-06-2		
1,2-Dichloroethene (Total)	1200	ug/L	20.0	10		03/27/23 20:31	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		03/27/23 19:21	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		03/27/23 19:21	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		03/27/23 19:21	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		03/27/23 19:21	108-10-1		
Acetone	<5.0	ug/L	5.0	1		03/27/23 19:21	67-64-1	IL	
Benzene	<0.70	ug/L	0.70	1		03/27/23 19:21	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		03/27/23 19:21	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		03/27/23 19:21	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		03/27/23 19:21	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		03/27/23 19:21	75-15-0	v3	
Carbon tetrachloride	<1.0	ug/L	1.0	1		03/27/23 19:21	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		03/27/23 19:21	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		03/27/23 19:21	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		03/27/23 19:21	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		03/27/23 19:21	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		03/27/23 19:21	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		03/27/23 19:21	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		03/27/23 19:21	75-09-2	v3	
Styrene	<1.0	ug/L	1.0	1		03/27/23 19:21	100-42-5		
Tetrachloroethene	587	ug/L	10.0	10		03/27/23 20:31	127-18-4		
Toluene	<1.0	ug/L	1.0	1		03/27/23 19:21	108-88-3		
Trichloroethene	117	ug/L	1.0	1		03/27/23 19:21	79-01-6		
Vinyl chloride	67.8	ug/L	1.0	1		03/27/23 19:21	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		03/27/23 19:21	1330-20-7		
cis-1,2-Dichloroethene	1200	ug/L	10.0	10		03/27/23 20:31	156-59-2		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/27/23 19:21	10061-01-5		
trans-1,2-Dichloroethene	2.7	ug/L	1.0	1		03/27/23 19:21	156-60-5	v3	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/27/23 19:21	10061-02-6	IC	
Surrogates									
1,2-Dichloroethane-d4 (S)	93	%	81-122	1		03/27/23 19:21	17060-07-0		
4-Bromofluorobenzene (S)	105	%	79-118	1		03/27/23 19:21	460-00-4		
Toluene-d8 (S)	95	%	82-122	1		03/27/23 19:21	2037-26-5		

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ANALYTICAL RESULTS

Project: MIN1001/MINMILT 3/22

Pace Project No.: 70250116

Sample: UG		Lab ID: 70250116003		Collected: 03/22/23 09:10		Received: 03/22/23 09:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B							
		Pace Analytical Services - Melville							
pH	6.8	Std. Units	0.10	1		03/28/23 18:35			H3,H6, N3
Temperature, Water (C)	19.0	deg C	0.10	1		03/28/23 18:35			H3,H6

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ANALYTICAL RESULTS

Project: MIN1001/MINMILT 3/22
Pace Project No.: 70250116

Sample: MAG		Lab ID: 70250116004		Collected: 03/22/23 09:15		Received: 03/22/23 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	1190	ug/L	100	1	03/23/23 09:34	03/24/23 15:22	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		03/27/23 19:43	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		03/27/23 19:43	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		03/27/23 19:43	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		03/27/23 19:43	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		03/27/23 19:43	75-35-4	v3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		03/27/23 19:43	107-06-2		
1,2-Dichloroethene (Total)	79.5	ug/L	2.0	1		03/27/23 19:43	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		03/27/23 19:43	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		03/27/23 19:43	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		03/27/23 19:43	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		03/27/23 19:43	108-10-1		
Acetone	<5.0	ug/L	5.0	1		03/27/23 19:43	67-64-1	IL	
Benzene	<0.70	ug/L	0.70	1		03/27/23 19:43	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		03/27/23 19:43	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		03/27/23 19:43	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		03/27/23 19:43	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		03/27/23 19:43	75-15-0	v3	
Carbon tetrachloride	<1.0	ug/L	1.0	1		03/27/23 19:43	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		03/27/23 19:43	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		03/27/23 19:43	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		03/27/23 19:43	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		03/27/23 19:43	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		03/27/23 19:43	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		03/27/23 19:43	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		03/27/23 19:43	75-09-2	v3	
Styrene	<1.0	ug/L	1.0	1		03/27/23 19:43	100-42-5		
Tetrachloroethene	864	ug/L	10.0	10		03/27/23 20:54	127-18-4		
Toluene	<1.0	ug/L	1.0	1		03/27/23 19:43	108-88-3		
Trichloroethene	26.1	ug/L	1.0	1		03/27/23 19:43	79-01-6		
Vinyl chloride	2.5	ug/L	1.0	1		03/27/23 19:43	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		03/27/23 19:43	1330-20-7		
cis-1,2-Dichloroethene	79.5	ug/L	1.0	1		03/27/23 19:43	156-59-2		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/27/23 19:43	10061-01-5		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		03/27/23 19:43	156-60-5	v3	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		03/27/23 19:43	10061-02-6	IC	
Surrogates									
1,2-Dichloroethane-d4 (S)	92	%	81-122	1		03/27/23 19:43	17060-07-0		
4-Bromofluorobenzene (S)	102	%	79-118	1		03/27/23 19:43	460-00-4		
Toluene-d8 (S)	96	%	82-122	1		03/27/23 19:43	2037-26-5		

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ANALYTICAL RESULTS

Project: MIN1001/MINMILT 3/22

Pace Project No.: 70250116

Sample: MAG		Lab ID: 70250116004		Collected: 03/22/23 09:15		Received: 03/22/23 09:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.7	Std. Units	0.10	1		03/28/23 18:37			H1,H6, N3
Temperature, Water (C)	20.1	deg C	0.10	1		03/28/23 18:37			H1,H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MIN1001/MINMILT 3/22

Pace Project No.: 70250116

QC Batch: 298340

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: 70250116001, 70250116002, 70250116003, 70250116004

METHOD BLANK: 1509797

Matrix: Water

Associated Lab Samples: 70250116001, 70250116002, 70250116003, 70250116004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	03/24/23 13:45	

LABORATORY CONTROL SAMPLE: 1509798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12700	102	85-115	

MATRIX SPIKE SAMPLE: 1510204

Parameter	Units	70249823001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	581	5000	5670	102	70-130	

MATRIX SPIKE SAMPLE: 1510206

Parameter	Units	70249978001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	5000	5160	103	70-130	

SAMPLE DUPLICATE: 1510203

Parameter	Units	70249823001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	581	587	1	

SAMPLE DUPLICATE: 1510205

Parameter	Units	70249978001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

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QUALITY CONTROL DATA

Project: MIN1001/MINMILT 3/22

Pace Project No.: 70250116

QC Batch: 298798

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70250116001, 70250116002, 70250116003, 70250116004

METHOD BLANK: 1512493

Matrix: Water

Associated Lab Samples: 70250116001, 70250116002, 70250116003, 70250116004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	03/27/23 17:24	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	03/27/23 17:24	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	03/27/23 17:24	
1,1-Dichloroethane	ug/L	<1.0	1.0	03/27/23 17:24	
1,1-Dichloroethene	ug/L	<1.0	1.0	03/27/23 17:24	v3
1,2-Dichloroethane	ug/L	<1.0	1.0	03/27/23 17:24	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	03/27/23 17:24	
1,2-Dichloropropane	ug/L	<1.0	1.0	03/27/23 17:24	
2-Butanone (MEK)	ug/L	<5.0	5.0	03/27/23 17:24	
2-Hexanone	ug/L	<5.0	5.0	03/27/23 17:24	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	03/27/23 17:24	
Acetone	ug/L	<5.0	5.0	03/27/23 17:24	IL
Benzene	ug/L	<0.70	0.70	03/27/23 17:24	
Bromodichloromethane	ug/L	<1.0	1.0	03/27/23 17:24	
Bromoform	ug/L	<1.0	1.0	03/27/23 17:24	
Bromomethane	ug/L	<1.0	1.0	03/27/23 17:24	
Carbon disulfide	ug/L	<1.0	1.0	03/27/23 17:24	v3
Carbon tetrachloride	ug/L	<1.0	1.0	03/27/23 17:24	
Chlorobenzene	ug/L	<1.0	1.0	03/27/23 17:24	
Chloroethane	ug/L	<1.0	1.0	03/27/23 17:24	
Chloroform	ug/L	<1.0	1.0	03/27/23 17:24	
Chloromethane	ug/L	<1.0	1.0	03/27/23 17:24	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	03/27/23 17:24	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	03/27/23 17:24	
Dibromochloromethane	ug/L	<1.0	1.0	03/27/23 17:24	
Ethylbenzene	ug/L	<1.0	1.0	03/27/23 17:24	
Methylene Chloride	ug/L	<1.0	1.0	03/27/23 17:24	v3
Styrene	ug/L	<1.0	1.0	03/27/23 17:24	
Tetrachloroethene	ug/L	<1.0	1.0	03/27/23 17:24	
Toluene	ug/L	<1.0	1.0	03/27/23 17:24	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	03/27/23 17:24	v3
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	03/27/23 17:24	IC
Trichloroethene	ug/L	<1.0	1.0	03/27/23 17:24	
Vinyl chloride	ug/L	<1.0	1.0	03/27/23 17:24	
Xylene (Total)	ug/L	<3.0	3.0	03/27/23 17:24	
1,2-Dichloroethane-d4 (S)	%	93	81-122	03/27/23 17:24	
4-Bromofluorobenzene (S)	%	108	79-118	03/27/23 17:24	
Toluene-d8 (S)	%	100	82-122	03/27/23 17:24	

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QUALITY CONTROL DATA

Project: MIN1001/MINMILT 3/22

Pace Project No.: 70250116

LABORATORY CONTROL SAMPLE: 1512494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.0	110	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	47.5	95	70-127	
1,1,2-Trichloroethane	ug/L	50	50.4	101	81-119	
1,1-Dichloroethane	ug/L	50	41.9	84	72-126	
1,1-Dichloroethene	ug/L	50	35.4	71	66-133	v3
1,2-Dichloroethane	ug/L	50	48.6	97	69-134	
1,2-Dichloroethene (Total)	ug/L	100	89.5	89	69-123	
1,2-Dichloropropane	ug/L	50	47.9	96	75-125	
2-Butanone (MEK)	ug/L	50	38.8	78	33-165	
2-Hexanone	ug/L	50	40.6	81	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.4	95	62-131	
Acetone	ug/L	50	23.5	47	14-156	IL
Benzene	ug/L	50	48.8	98	78-117	
Bromodichloromethane	ug/L	50	51.9	104	80-123	
Bromoform	ug/L	50	62.2	124	49-138	
Bromomethane	ug/L	50	42.6	85	10-143	
Carbon disulfide	ug/L	50	41.9	84	66-133	v3
Carbon tetrachloride	ug/L	50	58.5	117	64-135	
Chlorobenzene	ug/L	50	53.8	108	79-117	
Chloroethane	ug/L	50	44.8	90	31-156	
Chloroform	ug/L	50	46.4	93	79-123	
Chloromethane	ug/L	50	52.1	104	39-116	IH
cis-1,2-Dichloroethene	ug/L	50	44.6	89	77-125	
cis-1,3-Dichloropropene	ug/L	50	50.8	102	78-131	
Dibromochloromethane	ug/L	50	61.1	122	65-123	
Ethylbenzene	ug/L	50	54.3	109	79-115	
Methylene Chloride	ug/L	50	41.9	84	67-123	v3
Styrene	ug/L	50	53.8	108	82-121	
Tetrachloroethene	ug/L	50	53.5	107	65-120	
Toluene	ug/L	50	51.3	103	80-114	
trans-1,2-Dichloroethene	ug/L	50	44.9	90	74-123	v3
trans-1,3-Dichloropropene	ug/L	50	59.3	119	73-135	IC,v1
Trichloroethene	ug/L	50	52.7	105	79-115	
Vinyl chloride	ug/L	50	42.5	85	49-118	
Xylene (Total)	ug/L	150	159	106	80-118	
1,2-Dichloroethane-d4 (S)	%			94	81-122	
4-Bromofluorobenzene (S)	%			107	79-118	
Toluene-d8 (S)	%			98	82-122	

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 3/22

Pace Project No.: 70250116

QC Batch:	298949	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: 70250116001, 70250116002, 70250116003, 70250116004

SAMPLE DUPLICATE: 1513387

Parameter	Units	70249852001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.9	6.9		0 H3,H6,N3
Temperature, Water (C)	deg C	11.5	11.8		3 H3,H6

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QUALIFIERS

Project: MIN1001/MINMILT 3/22

Pace Project No.: 70250116

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.
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.
IL	This analyte exceeded secondary source verification criteria low 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 3/22

Pace Project No.: 70250116

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70250116001	SYS-EFF	EPA 200.7	298340	EPA 200.7	298435
70250116002	SYS-INF	EPA 200.7	298340	EPA 200.7	298435
70250116003	UG	EPA 200.7	298340	EPA 200.7	298435
70250116004	MAG	EPA 200.7	298340	EPA 200.7	298435
70250116001	SYS-EFF	EPA 8260C/5030C	298798		
70250116002	SYS-INF	EPA 8260C/5030C	298798		
70250116003	UG	EPA 8260C/5030C	298798		
70250116004	MAG	EPA 8260C/5030C	298798		
70250116001	SYS-EFF	SM22 4500-H+B	298949		
70250116002	SYS-INF	SM22 4500-H+B	298949		
70250116003	UG	SM22 4500-H+B	298949		
70250116004	MAG	SM22 4500-H+B	298949		

REPORT OF LABORATORY ANALYSIS

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Notes

Container Loads

Dated: 09/08/2021

April 24, 2023

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

RE: Project: MIN1001 / MINMILT 4/17
Pace Project No.: 70253009

Dear Kaitlyn Crosby:

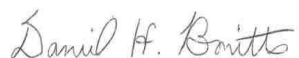
Enclosed are the analytical results for sample(s) received by the laboratory on April 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



Daniel H. Bonitto
daniel.bonitto@pacelabs.com
(631)694-3040
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MIN1001 / MINMILT 4/17

Pace Project No.: 70253009

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001 / MINMILT 4/17

Pace Project No.: 70253009

Sample: SYS-EFF		Lab ID: 70253009001		Collected: 04/17/23 09:10		Received: 04/17/23 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	624	ug/L	100	1	04/18/23 09:10	04/19/23 12:51	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		04/17/23 23:09	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		04/17/23 23:09	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		04/17/23 23:09	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		04/17/23 23:09	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		04/17/23 23:09	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		04/17/23 23:09	107-06-2		
1,2-Dichloroethene (Total)	5.1	ug/L	2.0	1		04/17/23 23:09	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		04/17/23 23:09	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		04/17/23 23:09	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		04/17/23 23:09	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		04/17/23 23:09	108-10-1		
Acetone	<5.0	ug/L	5.0	1		04/17/23 23:09	67-64-1	v1	
Benzene	<0.70	ug/L	0.70	1		04/17/23 23:09	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		04/17/23 23:09	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		04/17/23 23:09	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		04/17/23 23:09	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		04/17/23 23:09	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		04/17/23 23:09	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		04/17/23 23:09	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		04/17/23 23:09	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		04/17/23 23:09	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		04/17/23 23:09	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		04/17/23 23:09	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		04/17/23 23:09	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		04/17/23 23:09	75-09-2		
Styrene	<1.0	ug/L	1.0	1		04/17/23 23:09	100-42-5		
Tetrachloroethene	1.2	ug/L	1.0	1		04/17/23 23:09	127-18-4		
Toluene	<1.0	ug/L	1.0	1		04/17/23 23:09	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		04/17/23 23:09	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		04/17/23 23:09	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		04/17/23 23:09	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		04/17/23 23:09	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		04/17/23 23:09	10061-02-6	IC	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		04/17/23 23:09	17060-07-0		
4-Bromofluorobenzene (S)	99	%	79-118	1		04/17/23 23:09	460-00-4		
Toluene-d8 (S)	99	%	82-122	1		04/17/23 23:09	2037-26-5		
4500H+ pH, Electrometric									
Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville									
pH	7.5	Std. Units	0.10	1		04/22/23 10:28		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001 / MINMILT 4/17

Pace Project No.: 70253009

Sample: SYS-EFF		Lab ID: 70253009001	Collected: 04/17/23 09:10	Received: 04/17/23 09:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	11.1	deg C	0.10	1		04/22/23 10:28		H3,H6

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ANALYTICAL RESULTS

Project: MIN1001 / MINMILT 4/17

Pace Project No.: 70253009

Sample: SYS-INF		Lab ID: 70253009002		Collected: 04/17/23 09:20		Received: 04/17/23 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	1560	ug/L	100	1	04/18/23 09:10	04/19/23 12:54	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		04/17/23 23:29	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		04/17/23 23:29	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		04/17/23 23:29	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		04/17/23 23:29	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		04/17/23 23:29	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		04/17/23 23:29	107-06-2		
1,2-Dichloroethene (Total)	510	ug/L	20.0	10		04/18/23 18:02	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		04/17/23 23:29	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		04/17/23 23:29	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		04/17/23 23:29	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		04/17/23 23:29	108-10-1		
Acetone	<5.0	ug/L	5.0	1		04/17/23 23:29	67-64-1		
Benzene	<0.70	ug/L	0.70	1		04/17/23 23:29	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		04/17/23 23:29	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		04/17/23 23:29	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		04/17/23 23:29	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		04/17/23 23:29	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		04/17/23 23:29	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		04/17/23 23:29	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		04/17/23 23:29	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		04/17/23 23:29	67-66-3		
Chloromethane	1.4	ug/L	1.0	1		04/17/23 23:29	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		04/17/23 23:29	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		04/17/23 23:29	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		04/17/23 23:29	75-09-2		
Styrene	<1.0	ug/L	1.0	1		04/17/23 23:29	100-42-5		
Tetrachloroethene	766	ug/L	10.0	10		04/18/23 18:02	127-18-4		
Toluene	<1.0	ug/L	1.0	1		04/17/23 23:29	108-88-3		
Trichloroethene	56.0	ug/L	1.0	1		04/17/23 23:29	79-01-6		
Vinyl chloride	29.6	ug/L	1.0	1		04/17/23 23:29	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		04/17/23 23:29	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		04/17/23 23:29	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		04/17/23 23:29	10061-02-6	IC	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		04/17/23 23:29	17060-07-0		
4-Bromofluorobenzene (S)	101	%	79-118	1		04/17/23 23:29	460-00-4		
Toluene-d8 (S)	99	%	82-122	1		04/17/23 23:29	2037-26-5		
4500H+ pH, Electrometric									
Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville									
pH	6.3	Std. Units	0.10	1		04/22/23 10:29		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001 / MINMILT 4/17

Pace Project No.: 70253009

Sample: SYS-INF		Lab ID: 70253009002		Collected: 04/17/23 09:20		Received: 04/17/23 09:40		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)		12.1	deg C	0.10	1		04/22/23 10:29		H3,H6

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QUALITY CONTROL DATA

Project: MIN1001 / MINMILT 4/17

Pace Project No.: 70253009

QC Batch:	301449	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: 70253009001, 70253009002

METHOD BLANK: 1527434 Matrix: Water

Associated Lab Samples: 70253009001, 70253009002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	04/19/23 11:13	

LABORATORY CONTROL SAMPLE: 1527435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12100	97	85-115	

MATRIX SPIKE SAMPLE: 1527439

Parameter	Units	70252906003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	14000	5000	19100	102	70-130	

MATRIX SPIKE SAMPLE: 1527737

Parameter	Units	70252895003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1660	5000	6100	89	70-130	

SAMPLE DUPLICATE: 1527438

Parameter	Units	70252906003 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	14000	13500	4	

SAMPLE DUPLICATE: 1527736

Parameter	Units	70252895003 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1660	1610	3	

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QUALITY CONTROL DATA

Project: MIN1001 / MINMILT 4/17

Pace Project No.: 70253009

QC Batch: 301380

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70253009001, 70253009002

METHOD BLANK: 1527060

Matrix: Water

Associated Lab Samples: 70253009001, 70253009002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	04/17/23 15:03	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	04/17/23 15:03	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	04/17/23 15:03	
1,1-Dichloroethane	ug/L	<1.0	1.0	04/17/23 15:03	
1,1-Dichloroethene	ug/L	<1.0	1.0	04/17/23 15:03	
1,2-Dichloroethane	ug/L	<1.0	1.0	04/17/23 15:03	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	04/17/23 15:03	
1,2-Dichloropropane	ug/L	<1.0	1.0	04/17/23 15:03	
2-Butanone (MEK)	ug/L	<5.0	5.0	04/17/23 15:03	
2-Hexanone	ug/L	<5.0	5.0	04/17/23 15:03	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	04/17/23 15:03	
Acetone	ug/L	<5.0	5.0	04/17/23 15:03	
Benzene	ug/L	<0.70	0.70	04/17/23 15:03	
Bromodichloromethane	ug/L	<1.0	1.0	04/17/23 15:03	
Bromoform	ug/L	<1.0	1.0	04/17/23 15:03	
Bromomethane	ug/L	<1.0	1.0	04/17/23 15:03	v3
Carbon disulfide	ug/L	<1.0	1.0	04/17/23 15:03	
Carbon tetrachloride	ug/L	<1.0	1.0	04/17/23 15:03	
Chlorobenzene	ug/L	<1.0	1.0	04/17/23 15:03	
Chloroethane	ug/L	<1.0	1.0	04/17/23 15:03	
Chloroform	ug/L	<1.0	1.0	04/17/23 15:03	
Chloromethane	ug/L	<1.0	1.0	04/17/23 15:03	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	04/17/23 15:03	
Dibromochloromethane	ug/L	<1.0	1.0	04/17/23 15:03	
Ethylbenzene	ug/L	<1.0	1.0	04/17/23 15:03	
Methylene Chloride	ug/L	<1.0	1.0	04/17/23 15:03	
Styrene	ug/L	<1.0	1.0	04/17/23 15:03	
Tetrachloroethene	ug/L	<1.0	1.0	04/17/23 15:03	
Toluene	ug/L	<1.0	1.0	04/17/23 15:03	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	04/17/23 15:03	IC
Trichloroethene	ug/L	<1.0	1.0	04/17/23 15:03	
Vinyl chloride	ug/L	<1.0	1.0	04/17/23 15:03	
Xylene (Total)	ug/L	<3.0	3.0	04/17/23 15:03	
1,2-Dichloroethane-d4 (S)	%	99	81-122	04/17/23 15:03	
4-Bromofluorobenzene (S)	%	100	79-118	04/17/23 15:03	
Toluene-d8 (S)	%	99	82-122	04/17/23 15:03	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MIN1001 / MINMILT 4/17

Pace Project No.: 70253009

LABORATORY CONTROL SAMPLE: 1527061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.9	106	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	46.7	93	70-127	
1,1,2-Trichloroethane	ug/L	50	46.8	94	81-119	
1,1-Dichloroethane	ug/L	50	43.5	87	72-126	
1,1-Dichloroethene	ug/L	50	50.6	101	66-133	
1,2-Dichloroethane	ug/L	50	43.6	87	69-134	
1,2-Dichloroethene (Total)	ug/L	100	93.2	93	69-123	
1,2-Dichloropropane	ug/L	50	47.2	94	75-125	
2-Butanone (MEK)	ug/L	50	62.6	125	33-165 v1	
2-Hexanone	ug/L	50	52.8	106	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	49.7	99	62-131	
Acetone	ug/L	50	59.0	118	14-156 v1	
Benzene	ug/L	50	46.1	92	78-117	
Bromodichloromethane	ug/L	50	45.3	91	80-123	
Bromoform	ug/L	50	44.9	90	49-138	
Bromomethane	ug/L	50	23.0	46	10-143 v3	
Carbon disulfide	ug/L	50	49.5	99	66-133	
Carbon tetrachloride	ug/L	50	42.5	85	64-135	
Chlorobenzene	ug/L	50	44.0	88	79-117	
Chloroethane	ug/L	50	50.9	102	31-156	
Chloroform	ug/L	50	43.5	87	79-123	
Chloromethane	ug/L	50	38.3	77	39-116	
cis-1,3-Dichloropropene	ug/L	50	63.0	126	78-131 v1	
Dibromochloromethane	ug/L	50	44.8	90	65-123	
Ethylbenzene	ug/L	50	44.8	90	79-115	
Methylene Chloride	ug/L	50	50.5	101	67-123	
Styrene	ug/L	50	46.1	92	82-121	
Tetrachloroethene	ug/L	50	45.4	91	65-120	
Toluene	ug/L	50	45.7	91	80-114	
trans-1,3-Dichloropropene	ug/L	50	67.6	135	73-135 IC,IH,v1	
Trichloroethene	ug/L	50	45.2	90	79-115	
Vinyl chloride	ug/L	50	46.0	92	49-118	
Xylene (Total)	ug/L	150	137	91	80-118	
1,2-Dichloroethane-d4 (S)	%			96	81-122	
4-Bromofluorobenzene (S)	%			101	79-118	
Toluene-d8 (S)	%			99	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1527792 1527793

Parameter	Units	70252904001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	42.7	47.2	85	94	72-123	10	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	40.8	44.7	82	89	64-133	9	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	43.8	44.5	88	89	78-120	1	
1,1-Dichloroethane	ug/L	<1.0	50	50	48.9	45.7	98	91	70-124	7	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MIN1001 / MINMILT 4/17

Pace Project No.: 70253009

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1527792 1527793											
Parameter	Units	70252904001		MS	MSD	MSD		MS	MSD	% Rec	Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	
1,1-Dichloroethene	ug/L	<1.0	50	50	50	53.8	53.8	111	108	61-139	3
1,2-Dichloroethane	ug/L	<1.0	50	50	46.5	44.7	93	89	58-138	4	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	99.7	96.1	100	96	59-133	4	
1,2-Dichloropropane	ug/L	<1.0	50	50	46.6	45.8	93	92	74-122	2	
2-Butanone (MEK)	ug/L	<5.0	50	50	54.7	59.0	109	118	33-148	8 v1	
2-Hexanone	ug/L	<5.0	50	50	48.5	51.6	97	103	49-124	6	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	46.4	50.4	93	101	60-136	8	
Acetone	ug/L	<5.0	50	50	55.7	58.6	111	117	35-112	5 M1,v1	
Benzene	ug/L	<1.0	50	50	48.4	46.8	97	94	70-130	3	
Bromodichloromethane	ug/L	<1.0	50	50	32.1	36.3	64	73	74-122	12 M1	
Bromoform	ug/L	<1.0	50	50	28.6	33.2	57	66	39-139	15	
Bromomethane	ug/L	<1.0	50	50	18.9	18.1	38	36	10-130	4 v3	
Carbon disulfide	ug/L	<1.0	50	50	52.6	50.1	105	100	60-129	5	
Carbon tetrachloride	ug/L	<1.0	50	50	30.8	35.3	62	71	56-143	14	
Chlorobenzene	ug/L	<1.0	50	50	46.0	45.0	92	90	74-122	2	
Chloroethane	ug/L	<1.0	50	50	56.0	52.2	112	104	35-146	7	
Chloroform	ug/L	<1.0	50	50	46.2	44.1	92	88	71-129	5	
Chloromethane	ug/L	<1.0	50	50	38.4	37.0	77	74	29-112	4	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	47.2	52.5	94	105	67-130	11 v1	
Dibromochloromethane	ug/L	<1.0	50	50	27.3	31.9	55	64	55-126	16	
Ethylbenzene	ug/L	<1.0	50	50	47.8	45.9	96	92	70-126	4	
Methylene Chloride	ug/L	<1.0	50	50	52.8	46.7	106	93	69-117	12	
Styrene	ug/L	<1.0	50	50	47.7	45.9	95	92	79-123	4	
Tetrachloroethene	ug/L	<1.0	50	50	50.5	47.9	101	96	64-124	5	
Toluene	ug/L	<1.0	50	50	48.3	46.5	97	93	76-123	4	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	45.7	52.5	91	105	61-130	14 IC,IH,v1	
Trichloroethene	ug/L	<1.0	50	50	47.9	46.3	96	93	73-125	3	
Vinyl chloride	ug/L	<1.0	50	50	52.4	48.2	105	96	33-127	8	
Xylene (Total)	ug/L	<3.0	150	150	144	140	96	93	78-123	3	
1,2-Dichloroethane-d4 (S)	%							96	98	81-122	
4-Bromofluorobenzene (S)	%							101	102	79-118	
Toluene-d8 (S)	%							99	99	82-122	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MIN1001 / MINMILT 4/17

Pace Project No.: 70253009

QC Batch: 302189

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: 70253009001, 70253009002

SAMPLE DUPLICATE: 1531125

Parameter	Units	70253267002 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.0	7.1	0	H3,H6,N3
Temperature, Water (C)	deg C	10.9	10.9	0	H3,H6

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QUALIFIERS

Project: MIN1001 / MINMILT 4/17

Pace Project No.: 70253009

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.
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 4/17

Pace Project No.: 70253009

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70253009001	SYS-EFF	EPA 200.7	301449	EPA 200.7	301519
70253009002	SYS-INF	EPA 200.7	301449	EPA 200.7	301519
70253009001	SYS-EFF	EPA 8260C/5030C	301380		
70253009002	SYS-INF	EPA 8260C/5030C	301380		
70253009001	SYS-EFF	SM22 4500-H+B	302189		
70253009002	SYS-INF	SM22 4500-H+B	302189		

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 Grosser Consulting
Address: 630 Johnson Ave, Bohemia, NY 11716

Billing Information:
Same as Client

Report To: Kaitlyn Crosby

Email To: Kcrosby@pwgrosser.com

Copy To:

Site Collection Info/Address: 540 Smith Street

Customer Project Name/Number: MIN1001/MinMilt

State: County/City: Time Zone Collected:
NY / Farmingdale [] PT [] JMT [] JCT [] X [] JET

Phone: 631-589-6333

Email: kcrosby@pwgrosser.com

Collected By (print): Kaitlyn Crosby

Quote #:

Turnaround Date Required: Standard

Sample Disposal:

[X] Dispose as appropriate
[] Return
[] Archive:
[] Hold:

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

Time

Composite End

Date

Time

Res

Cl

of Ctns

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

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Packing Material Used:

Wet Blue Dry None

Radchem sample(s) screened (<500 cpm):

Y N NA

Relinquished by/Company (Signature)

Date/Time:

Relinquished by/Company (Signature)

Date/Time:

Relinquished by/Company (Signature)

Date/Time:

Received by/Company (Signature)

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Date/Time:

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Date/Time:

WO#: 70253009



70253009

LAB USE

AI

Container Identification Type

310

** 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: Y N NA
Sample pH Acceptable: Y N NA
pH Strips: HCA3085 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#: 4418
Cooler 1 Temp Upon Receipt: 6.4°C
Cooler 1 Therm Corr. Factor: 0.6°C
Cooler 1 Corrected Temp: 6.1°C
Comments:

SHORT HOLDS PRESENT (<72 hours):

N N/A

Lab Tracking #:

Samples received via:

FEDEX UPS Client

Courier

Pace Courier

Table #:

Accnum:

Template:

Prelogin:

PM:

PB:

Table #:

Accnum:

Template:

Prelogin:

PM:

PB:

Table #:

Accnum:

Template:

Prelogin:

PM:

PB:

Table #:

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PB:

Received by/Company (Signature)

Date/Time:

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Accnum:

Template:

Prelogin:

Received by/Company (Signature)

Date/Time:

Received by/Company (Signature)

WO#: 70253009

PM: DHB
CLIENT: PWG
Due Date: 05/01/23

Use Point Number Spreadsheets

Profile #

Client:

Notes

WORK ORDER:

[illegible]

Container Loads

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium
AG2U	500mL unpres amber

* Can also be a BP4N

SOC	
DG9T	40mL Na Thio amber
DG9A	40mL Ascorbic acid
DG9Y	Citrate/Na Thiosulfate
DG6T	Na Thiosulfate 60mL vial
AG3U	250mL unpres amber
AG3T	Na Thiosulfate 250mL
BP1B	Na Thiosulfate Amber
AG1T	Na Thiosulfate 1L
AG1A	(NH ₄ CN)

Glass		Plastic		Misc.
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber	SP5T
VG9C	40mL Ascorbic-HCl	AG3U	250mL unpres amber	R
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber	WG2U
VG9S	40mL Sulfuric clear vial	AG1U	10mL unpreserved plastic	WG2U
DG9T	40mL Na Thiosulfate vial	AG34	1l unpreserved plastic	WG2U
DG9Y	40mL Na Thiosulfate vial	AG34	1l unpreserved plastic	WG2U
DG9Y	40mL Citrate-Na	AG3S	250mL H2SO4 amber	WG2U
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber	ZPLC
DG9A	40mL Ascorbic/Maleic Acid	AG3T	250mL Na Thio amber	TEDL
DG9G	40mL Ascorbic/Maleic Acid	AG3T	250mL Na Thio amber	TEDL
DG9T	Na Thio 60mL vial	AG2R	Na Sulfite 500mL (blue)	1L HCl. Clear Glass
DG9S	Ammonium Cl/CUSO4	AG1T	Na Thiosulfate 1L bottle	GN
DG9G	Ammonium Cl/CUSO4	AG1T	Na Thiosulfate 1L bottle	GN
DG9U	1L Unpres Jar (Con Ed)	BP3T	250mL Trizma	General
DG9U	1L Unpres Jar (Con Ed)	BP3T	250mL Trizma	Wipe

		AG1A	1L Ammonium Chloride	BP35	250mL Ammonium
				BP3R	250mL NH4SO4-
WG90	8oz clear soil jar			BP1Z	1L NaOH, Zn Acetate
WG40	4oz clear soil jar			BP1N	1L HNO3 plastic
				BP1B	Na Thiosulfate Amber

Additional Comments

May 31, 2023

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

RE: Project: MIN1001/MINMILP 5/24
Pace Project No.: 70257501

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 2023. 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,



Daniel H. Bonitto
daniel.bonitto@pacelabs.com
(631)694-3040
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MIN1001/MINMILP 5/24

Pace Project No.: 70257501

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/MINMILP 5/24

Pace Project No.: 70257501

Sample: SYS-EFF		Lab ID: 70257501001		Collected: 05/24/23 10:00		Received: 05/24/23 11:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	878	ug/L	100	1	05/30/23 09:34	05/31/23 12:14	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/26/23 17:53	71-55-6	L1	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		05/26/23 17:53	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		05/26/23 17:53	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/26/23 17:53	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/26/23 17:53	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/26/23 17:53	107-06-2		
1,2-Dichloroethene (Total)	2.9	ug/L	2.0	1		05/26/23 17:53	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/26/23 17:53	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		05/26/23 17:53	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		05/26/23 17:53	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		05/26/23 17:53	108-10-1		
Acetone	<5.0	ug/L	5.0	1		05/26/23 17:53	67-64-1	IL	
Benzene	<0.70	ug/L	0.70	1		05/26/23 17:53	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		05/26/23 17:53	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		05/26/23 17:53	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		05/26/23 17:53	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		05/26/23 17:53	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/26/23 17:53	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		05/26/23 17:53	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		05/26/23 17:53	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		05/26/23 17:53	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		05/26/23 17:53	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		05/26/23 17:53	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		05/26/23 17:53	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		05/26/23 17:53	75-09-2		
Styrene	<1.0	ug/L	1.0	1		05/26/23 17:53	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		05/26/23 17:53	127-18-4	v3	
Toluene	<1.0	ug/L	1.0	1		05/26/23 17:53	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		05/26/23 17:53	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		05/26/23 17:53	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		05/26/23 17:53	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/26/23 17:53	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/26/23 17:53	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		05/26/23 17:53	17060-07-0		
4-Bromofluorobenzene (S)	99	%	73-122	1		05/26/23 17:53	460-00-4		
Toluene-d8 (S)	94	%	75-122	1		05/26/23 17:53	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	7.5	Std. Units	0.10	1		05/24/23 21:03		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/MINMILP 5/24

Pace Project No.: 70257501

Sample: SYS-EFF		Lab ID: 70257501001	Collected: 05/24/23 10:00	Received: 05/24/23 11:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville						
Temperature, Water (C)	12.2	deg C	0.10	1		05/24/23 21:03		H3,H6

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ANALYTICAL RESULTS

Project: MIN1001/MINMILP 5/24

Pace Project No.: 70257501

Sample: SYS-INF		Lab ID: 70257501002		Collected: 05/24/23 10:10		Received: 05/24/23 11:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	1300	ug/L	100	1	05/30/23 09:34	05/31/23 12:17	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		05/26/23 21:54	71-55-6	L1	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		05/26/23 21:54	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		05/26/23 21:54	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		05/26/23 21:54	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		05/26/23 21:54	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		05/26/23 21:54	107-06-2		
1,2-Dichloroethene (Total)	366	ug/L	40.0	20		05/26/23 22:15	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		05/26/23 21:54	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		05/26/23 21:54	78-93-3		IL
2-Hexanone	<5.0	ug/L	5.0	1		05/26/23 21:54	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		05/26/23 21:54	108-10-1		
Acetone	15.8	ug/L	5.0	1		05/26/23 21:54	67-64-1		
Benzene	<0.70	ug/L	0.70	1		05/26/23 21:54	71-43-2		v3
Bromodichloromethane	<1.0	ug/L	1.0	1		05/26/23 21:54	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		05/26/23 21:54	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		05/26/23 21:54	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		05/26/23 21:54	75-15-0		v3
Carbon tetrachloride	<1.0	ug/L	1.0	1		05/26/23 21:54	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		05/26/23 21:54	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		05/26/23 21:54	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		05/26/23 21:54	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		05/26/23 21:54	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		05/26/23 21:54	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		05/26/23 21:54	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		05/26/23 21:54	75-09-2		
Styrene	<1.0	ug/L	1.0	1		05/26/23 21:54	100-42-5		
Tetrachloroethene	292	ug/L	20.0	20		05/26/23 22:15	127-18-4		
Toluene	<1.0	ug/L	1.0	1		05/26/23 21:54	108-88-3		
Trichloroethene	29.7	ug/L	1.0	1		05/26/23 21:54	79-01-6		
Vinyl chloride	22.6	ug/L	1.0	1		05/26/23 21:54	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		05/26/23 21:54	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/26/23 21:54	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		05/26/23 21:54	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		05/26/23 21:54	17060-07-0		
4-Bromofluorobenzene (S)	99	%	73-122	1		05/26/23 21:54	460-00-4		
Toluene-d8 (S)	94	%	75-122	1		05/26/23 21:54	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.3	Std. Units	0.10	1		05/24/23 21:04		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MIN1001/MINMILP 5/24

Pace Project No.: 70257501

Sample: SYS-INF		Lab ID: 70257501002		Collected: 05/24/23 10:10		Received: 05/24/23 11:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	13.5	deg C	0.10	1		05/24/23 21:04		H3,H6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MIN1001/MINMILP 5/24

Pace Project No.: 70257501

QC Batch: 306874

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: 70257501001, 70257501002

METHOD BLANK: 1555073

Matrix: Water

Associated Lab Samples: 70257501001, 70257501002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	05/31/23 10:33	

LABORATORY CONTROL SAMPLE: 1555074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	13200	106	85-115	

MATRIX SPIKE SAMPLE: 1555076

Parameter	Units	70257486002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	5000	4890	97	70-130	

MATRIX SPIKE SAMPLE: 1555078

Parameter	Units	70257408001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2.6 mg/L	5000	7960	108	70-130	

SAMPLE DUPLICATE: 1555075

Parameter	Units	70257486002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 1555077

Parameter	Units	70257408001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	2.6 mg/L	2660	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MIN1001/MINMILP 5/24

Pace Project No.: 70257501

QC Batch: 306764

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70257501001, 70257501002

METHOD BLANK: 1554459

Matrix: Water

Associated Lab Samples: 70257501001, 70257501002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/26/23 14:59	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/26/23 14:59	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/26/23 14:59	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/26/23 14:59	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/26/23 14:59	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/26/23 14:59	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	05/26/23 14:59	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/26/23 14:59	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/26/23 14:59	
2-Hexanone	ug/L	<5.0	5.0	05/26/23 14:59	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/26/23 14:59	
Acetone	ug/L	<5.0	5.0	05/26/23 14:59	IL
Benzene	ug/L	<0.70	0.70	05/26/23 14:59	
Bromodichloromethane	ug/L	<1.0	1.0	05/26/23 14:59	
Bromoform	ug/L	<1.0	1.0	05/26/23 14:59	
Bromomethane	ug/L	<1.0	1.0	05/26/23 14:59	
Carbon disulfide	ug/L	<1.0	1.0	05/26/23 14:59	
Carbon tetrachloride	ug/L	<1.0	1.0	05/26/23 14:59	
Chlorobenzene	ug/L	<1.0	1.0	05/26/23 14:59	
Chloroethane	ug/L	<1.0	1.0	05/26/23 14:59	
Chloroform	ug/L	<1.0	1.0	05/26/23 14:59	
Chloromethane	ug/L	<1.0	1.0	05/26/23 14:59	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/26/23 14:59	
Dibromochloromethane	ug/L	<1.0	1.0	05/26/23 14:59	
Ethylbenzene	ug/L	<1.0	1.0	05/26/23 14:59	
Methylene Chloride	ug/L	<1.0	1.0	05/26/23 14:59	
Styrene	ug/L	<1.0	1.0	05/26/23 14:59	
Tetrachloroethene	ug/L	<1.0	1.0	05/26/23 14:59	v3
Toluene	ug/L	<1.0	1.0	05/26/23 14:59	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/26/23 14:59	
Trichloroethene	ug/L	<1.0	1.0	05/26/23 14:59	
Vinyl chloride	ug/L	<1.0	1.0	05/26/23 14:59	
Xylene (Total)	ug/L	<3.0	3.0	05/26/23 14:59	
1,2-Dichloroethane-d4 (S)	%	103	80-120	05/26/23 14:59	
4-Bromofluorobenzene (S)	%	98	73-122	05/26/23 14:59	
Toluene-d8 (S)	%	94	75-122	05/26/23 14:59	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MIN1001/MINMILP 5/24

Pace Project No.: 70257501

LABORATORY CONTROL SAMPLE: 1554460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.0	102	66-121	
1,1,2,2-Tetrachloroethane	ug/L	50	62.2	124	75-119	L1,v1
1,1,2-Trichloroethane	ug/L	50	47.2	94	81-120	
1,1-Dichloroethane	ug/L	50	56.6	113	61-127	
1,1-Dichloroethene	ug/L	50	56.0	112	51-133	
1,2-Dichloroethane	ug/L	50	60.2	120	70-127	
1,2-Dichloroethene (Total)	ug/L	100	112	112	67-134	
1,2-Dichloropropane	ug/L	50	47.5	95	73-121	
2-Butanone (MEK)	ug/L	50	52.7	105	46-183	
2-Hexanone	ug/L	50	48.9	98	53-145	
4-Methyl-2-pentanone (MIBK)	ug/L	50	51.8	104	64-131	
Acetone	ug/L	50	47.0	94	21-195	IL
Benzene	ug/L	50	47.6	95	72-122	
Bromodichloromethane	ug/L	50	53.3	107	79-118	
Bromoform	ug/L	50	49.7	99	61-139	
Bromomethane	ug/L	50	47.4	95	25-144	
Carbon disulfide	ug/L	50	54.3	109	50-126	
Carbon tetrachloride	ug/L	50	48.4	97	57-124	
Chlorobenzene	ug/L	50	45.7	91	72-125	
Chloroethane	ug/L	50	53.3	107	51-136	
Chloroform	ug/L	50	59.5	119	69-124	
Chloromethane	ug/L	50	36.4	73	18-160	v3
cis-1,3-Dichloropropene	ug/L	50	53.0	106	70-127	
Dibromochloromethane	ug/L	50	47.7	95	72-134	
Ethylbenzene	ug/L	50	45.0	90	72-120	
Methylene Chloride	ug/L	50	56.8	114	59-127	
Styrene	ug/L	50	47.2	94	77-128	
Tetrachloroethene	ug/L	50	33.1	66	60-134	v3
Toluene	ug/L	50	47.7	95	75-120	
trans-1,3-Dichloropropene	ug/L	50	54.2	108	62-136	
Trichloroethene	ug/L	50	48.0	96	74-118	
Vinyl chloride	ug/L	50	46.2	92	39-127	
Xylene (Total)	ug/L	150	135	90	70-121	
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			101	73-122	
Toluene-d8 (S)	%			95	75-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1554675 1554676

Parameter	Units	70257507001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	52.2	51.3	104	103	68-134	2	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	57.8	57.3	116	115	64-126	1	v1
1,1,2-Trichloroethane	ug/L	<1.0	50	50	46.2	46.0	92	92	68-131	1	
1,1-Dichloroethane	ug/L	<1.0	50	50	58.0	55.5	116	111	54-145	4	

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QUALITY CONTROL DATA

Project: MIN1001/MINMILP 5/24

Pace Project No.: 70257501

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1554675 1554676											
Parameter	Units	70257507001		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD
		Result	Conc.	Spike	Spike						
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	Qual
1,1-Dichloroethene	ug/L	<1.0	50	50	50	57.8	56.2	116	112	53-147	3
1,2-Dichloroethane	ug/L	<1.0	50	50	50	58.8	57.6	118	115	58-141	2
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	100	116	112	116	112	57-152	4
1,2-Dichloropropane	ug/L	<1.0	50	50	50	47.9	46.8	96	94	64-136	2
2-Butanone (MEK)	ug/L	<5.0	50	50	50	45.6	44.9	91	90	23-184	2
2-Hexanone	ug/L	<5.0	50	50	50	41.0	40.3	82	81	49-129	2
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	50	46.3	47.0	93	94	52-141	2
Acetone	ug/L	<5.0	50	50	50	29.8	30.5	60	61	20-139	2 IL
Benzene	ug/L	<1.0	50	50	50	48.7	47.1	97	94	67-139	3
Bromodichloromethane	ug/L	<1.0	50	50	50	51.3	51.5	103	103	70-127	0
Bromoform	ug/L	<1.0	50	50	50	41.8	42.8	84	86	47-138	2
Bromomethane	ug/L	<1.0	50	50	50	45.6	49.4	91	99	10-148	8
Carbon disulfide	ug/L	<1.0	50	50	50	58.7	53.9	117	108	51-135	9
Carbon tetrachloride	ug/L	<1.0	50	50	50	48.7	48.4	97	97	61-136	1
Chlorobenzene	ug/L	<1.0	50	50	50	45.9	44.1	92	88	73-130	4
Chloroethane	ug/L	<1.0	50	50	50	53.8	52.9	108	106	48-152	2
Chloroform	ug/L	<1.0	50	50	50	59.3	58.5	119	117	58-143	1
Chloromethane	ug/L	<1.0	50	50	50	34.2	34.9	68	70	17-167	2 v3
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	50	51.6	51.6	103	103	59-134	0
Dibromochloromethane	ug/L	<1.0	50	50	50	44.7	44.6	89	89	65-133	0
Ethylbenzene	ug/L	<1.0	50	50	50	46.1	44.5	92	89	63-139	4
Methylene Chloride	ug/L	<1.0	50	50	50	56.8	56.0	114	112	47-142	1
Styrene	ug/L	<1.0	50	50	50	47.3	45.7	95	91	72-134	3
Tetrachloroethene	ug/L	4.9	50	50	50	39.8	38.3	70	67	64-144	4 v3
Toluene	ug/L	<1.0	50	50	50	48.8	47.9	98	96	72-136	2
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	50	50.9	51.1	102	102	53-139	0
Trichloroethene	ug/L	<1.0	50	50	50	50.6	49.0	101	98	76-130	3
Vinyl chloride	ug/L	<1.0	50	50	50	45.5	44.3	91	89	43-135	3
Xylene (Total)	ug/L	<3.0	150	150	150	137	133	91	88	63-136	3
1,2-Dichloroethane-d4 (S)	%							99	104	80-120	
4-Bromofluorobenzene (S)	%							100	100	73-122	
Toluene-d8 (S)	%							94	93	75-122	

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/MINMILP 5/24

Pace Project No.: 70257501

QC Batch: 306447

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: 70257501001, 70257501002

SAMPLE DUPLICATE: 1553036

Parameter	Units	70256931001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.7	6.7	0	H3,H6,N3
Temperature, Water (C)	deg C	8.4	8.4	0	H3,H6

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MIN1001/MINMILP 5/24

Pace Project No.: 70257501

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.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
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/MINMILP 5/24

Pace Project No.: 70257501

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70257501001	SYS-EFF	EPA 200.7	306874	EPA 200.7	306964
70257501002	SYS-INF	EPA 200.7	306874	EPA 200.7	306964
70257501001	SYS-EFF	EPA 8260C/5030C	306764		
70257501002	SYS-INF	EPA 8260C/5030C	306764		
70257501001	SYS-EFF	SM22 4500-H+B	306447		
70257501002	SYS-INF	SM22 4500-H+B	306447		

REPORT OF LABORATORY ANALYSIS

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WO#: 70257501



CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

st Pace Workorder Number or

Company: PWG-Grosser Consulting

Billing Information:

Address: 630 Sonson Ave, Bohemia, NY

Same as Client

Report To: Kaitlyn Crosby

Email To: Kerosby@pwg-grosser.com

Copy To:

Site Collection Info/Address: 540 Smith Street

Customer Project Name/Number: MTN1001 / Min Mill

State: NY / Farmingdale

Phone: 631-589-6353

Time Zone Collected: [] PT [] MT [] CT [] ET

Email: Kerosby@pwg-grosser.com

Compliance Monitoring: [] Yes [] No

Collected By (print): K. Crosby

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

Collected By (signature): [Signature]

Turnaround Date Required: Standard

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

Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day

* 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)

Analysis: [] Yes [] No

Customer Sample ID

Matrix #

Comp / Grab

Collected (or Composite Start) Date Time

Composite End Date Time

Res CI

of Ctns

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: [] Wet [] Dry [] None

Packing Material Used:

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

Date/Time: 5-24-23 10:54

Received by/Company: (Signature) [Signature]

Date/Time: 5-24-23 10:00

Received by/Company: (Signature) [Signature]

Date/Time: 5-24-23 10:00

Received by/Company: (Signature) [Signature]

Date/Time: 5-24-23 10:00

Received by/Company: (Signature) [Signature]

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Date/Time: 5-24-23 10:00

Received by/Company: (Signature) [Signature]

Date/Time: 5-24-23 10:00

Received by/Company: (Signature) [Signature]

AB USE ONLY

Lab Project Manager:

** 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: H202030
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:

Lab Sample Temperature Info:

Temp Blank Received: Y N NA
Therm ID#: TH148
Cooler 1 Temp Upon Receipt: 13.6 oC
Cooler 1 Therm Corr. Factor: -0.3 oC
Cooler 1 Corrected Temp: 13.3 oC
Comments:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

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



August 10, 2023

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

RE: Project: MINMILT MONTHLY 7/27
Pace Project No.: 70264721

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on July 27, 2023. 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,

A handwritten signature in cursive script that reads "Daniel H. Bonitto".

Daniel H. Bonitto
daniel.bonitto@pacelabs.com
(631)694-3040
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

Sample: SYS-EFF		Lab ID: 70264721001		Collected: 07/27/23 10:10		Received: 07/27/23 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	1880	ug/L	100	1	07/31/23 08:17	08/01/23 11:56	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/27/23 19:49	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/27/23 19:49	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/27/23 19:49	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/27/23 19:49	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/27/23 19:49	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/27/23 19:49	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		07/27/23 19:49	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/27/23 19:49	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		07/27/23 19:49	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		07/27/23 19:49	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		07/27/23 19:49	108-10-1		
Acetone	<5.0	ug/L	5.0	1		07/27/23 19:49	67-64-1		
Benzene	<0.70	ug/L	0.70	1		07/27/23 19:49	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/27/23 19:49	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/27/23 19:49	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/27/23 19:49	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		07/27/23 19:49	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/27/23 19:49	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/27/23 19:49	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/27/23 19:49	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		07/27/23 19:49	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/27/23 19:49	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		07/27/23 19:49	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		07/27/23 19:49	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/27/23 19:49	75-09-2		
Styrene	<1.0	ug/L	1.0	1		07/27/23 19:49	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		07/27/23 19:49	127-18-4	v3	
Toluene	<1.0	ug/L	1.0	1		07/27/23 19:49	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		07/27/23 19:49	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		07/27/23 19:49	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		07/27/23 19:49	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/27/23 19:49	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/27/23 19:49	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	90	%	80-120	1		07/27/23 19:49	17060-07-0		
4-Bromofluorobenzene (S)	100	%	73-122	1		07/27/23 19:49	460-00-4		
Toluene-d8 (S)	99	%	75-122	1		07/27/23 19:49	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	7.2	Std. Units	0.10	1		08/10/23 10:35		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

Sample: SYS-EFF		Lab ID: 70264721001		Collected: 07/27/23 10:10		Received: 07/27/23 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	6.3	deg C	0.10	1		08/10/23 10:35		H3,H6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

Sample: SYS-INF		Lab ID: 70264721002		Collected: 07/27/23 10:00		Received: 07/27/23 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	4060	ug/L	100	1	07/31/23 08:17	08/01/23 11:59	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		07/27/23 18:15	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		07/27/23 18:15	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		07/27/23 18:15	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		07/27/23 18:15	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		07/27/23 18:15	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		07/27/23 18:15	107-06-2		
1,2-Dichloroethene (Total)	106	ug/L	2.0	1		07/27/23 18:15	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		07/27/23 18:15	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		07/27/23 18:15	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		07/27/23 18:15	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		07/27/23 18:15	108-10-1		
Acetone	<5.0	ug/L	5.0	1		07/27/23 18:15	67-64-1		
Benzene	<0.70	ug/L	0.70	1		07/27/23 18:15	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		07/27/23 18:15	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		07/27/23 18:15	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		07/27/23 18:15	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		07/27/23 18:15	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		07/27/23 18:15	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		07/27/23 18:15	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		07/27/23 18:15	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		07/27/23 18:15	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		07/27/23 18:15	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		07/27/23 18:15	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		07/27/23 18:15	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		07/27/23 18:15	75-09-2		
Styrene	<1.0	ug/L	1.0	1		07/27/23 18:15	100-42-5		
Tetrachloroethene	1320	ug/L	10.0	10		07/27/23 18:42	127-18-4	v3	
Toluene	<1.0	ug/L	1.0	1		07/27/23 18:15	108-88-3		
Trichloroethene	21.3	ug/L	1.0	1		07/27/23 18:15	79-01-6		
Vinyl chloride	2.8	ug/L	1.0	1		07/27/23 18:15	75-01-4		
Xylene (Total)	3.9	ug/L	3.0	1		07/27/23 18:15	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/27/23 18:15	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		07/27/23 18:15	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	90	%	80-120	1		07/27/23 18:15	17060-07-0		
4-Bromofluorobenzene (S)	101	%	73-122	1		07/27/23 18:15	460-00-4		
Toluene-d8 (S)	101	%	75-122	1		07/27/23 18:15	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.2	Std. Units	0.10	1		08/10/23 10:32		H3,H6, N3	

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

Sample: SYS-INF		Lab ID: 70264721002		Collected: 07/27/23 10:00		Received: 07/27/23 11:15		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)		6.9	deg C	0.10	1		08/10/23 10:32		H3,H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

QC Batch: 314305

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: 70264721001, 70264721002

METHOD BLANK: 1598502

Matrix: Water

Associated Lab Samples: 70264721001, 70264721002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	08/01/23 10:05	

LABORATORY CONTROL SAMPLE: 1598503

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

MATRIX SPIKE SAMPLE: 1598505

Parameter	Units	70264694001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	5000	4660	92	70-130	

MATRIX SPIKE SAMPLE: 1598507

Parameter	Units	70264701001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1080	5000	6220	103	70-130	

SAMPLE DUPLICATE: 1598504

Parameter	Units	70264694001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 1598506

Parameter	Units	70264701001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1080	1070	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

QC Batch: 314065

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70264721001, 70264721002

METHOD BLANK: 1596774

Matrix: Water

Associated Lab Samples: 70264721001, 70264721002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	07/27/23 13:31	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	07/27/23 13:31	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	07/27/23 13:31	
1,1-Dichloroethane	ug/L	<1.0	1.0	07/27/23 13:31	
1,1-Dichloroethene	ug/L	<1.0	1.0	07/27/23 13:31	
1,2-Dichloroethane	ug/L	<1.0	1.0	07/27/23 13:31	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	07/27/23 13:31	
1,2-Dichloropropane	ug/L	<1.0	1.0	07/27/23 13:31	
2-Butanone (MEK)	ug/L	<5.0	5.0	07/27/23 13:31	
2-Hexanone	ug/L	<5.0	5.0	07/27/23 13:31	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	07/27/23 13:31	
Acetone	ug/L	<5.0	5.0	07/27/23 13:31	
Benzene	ug/L	<0.70	0.70	07/27/23 13:31	
Bromodichloromethane	ug/L	<1.0	1.0	07/27/23 13:31	
Bromoform	ug/L	<1.0	1.0	07/27/23 13:31	
Bromomethane	ug/L	<1.0	1.0	07/27/23 13:31	v3
Carbon disulfide	ug/L	<1.0	1.0	07/27/23 13:31	
Carbon tetrachloride	ug/L	<1.0	1.0	07/27/23 13:31	
Chlorobenzene	ug/L	<1.0	1.0	07/27/23 13:31	
Chloroethane	ug/L	<1.0	1.0	07/27/23 13:31	
Chloroform	ug/L	<1.0	1.0	07/27/23 13:31	
Chloromethane	ug/L	<1.0	1.0	07/27/23 13:31	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	07/27/23 13:31	
Dibromochloromethane	ug/L	<1.0	1.0	07/27/23 13:31	
Ethylbenzene	ug/L	<1.0	1.0	07/27/23 13:31	
Methylene Chloride	ug/L	<1.0	1.0	07/27/23 13:31	
Styrene	ug/L	<1.0	1.0	07/27/23 13:31	
Tetrachloroethene	ug/L	<1.0	1.0	07/27/23 13:31	v3
Toluene	ug/L	<1.0	1.0	07/27/23 13:31	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	07/27/23 13:31	
Trichloroethene	ug/L	<1.0	1.0	07/27/23 13:31	
Vinyl chloride	ug/L	<1.0	1.0	07/27/23 13:31	
Xylene (Total)	ug/L	<3.0	3.0	07/27/23 13:31	
1,2-Dichloroethane-d4 (S)	%	95	80-120	07/27/23 13:31	
4-Bromofluorobenzene (S)	%	104	73-122	07/27/23 13:31	
Toluene-d8 (S)	%	103	75-122	07/27/23 13:31	

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

LABORATORY CONTROL SAMPLE: 1596775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.1	96	66-121	
1,1,2,2-Tetrachloroethane	ug/L	50	50.1	100	75-119	
1,1,2-Trichloroethane	ug/L	50	50.3	101	81-120	
1,1-Dichloroethane	ug/L	50	47.8	96	61-127	
1,1-Dichloroethene	ug/L	50	45.4	91	51-133	
1,2-Dichloroethane	ug/L	50	49.0	98	70-127	
1,2-Dichloroethene (Total)	ug/L	100	105	105	67-134	
1,2-Dichloropropane	ug/L	50	48.6	97	73-121	
2-Butanone (MEK)	ug/L	50	52.1	104	46-183	
2-Hexanone	ug/L	50	56.2	112	53-145	IH
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.6	101	64-131	
Acetone	ug/L	50	73.9	148	21-195	IH,v1
Benzene	ug/L	50	49.3	99	72-122	
Bromodichloromethane	ug/L	50	48.8	98	79-118	
Bromoform	ug/L	50	57.1	114	61-139	
Bromomethane	ug/L	50	28.0	56	25-144	IH,v3
Carbon disulfide	ug/L	50	46.7	93	50-126	
Carbon tetrachloride	ug/L	50	47.6	95	57-124	
Chlorobenzene	ug/L	50	53.0	106	72-125	
Chloroethane	ug/L	50	42.9	86	51-136	
Chloroform	ug/L	50	49.4	99	69-124	
Chloromethane	ug/L	50	33.5	67	18-160	v3
cis-1,3-Dichloropropene	ug/L	50	47.9	96	70-127	
Dibromochloromethane	ug/L	50	53.6	107	72-134	
Ethylbenzene	ug/L	50	52.4	105	72-120	
Methylene Chloride	ug/L	50	53.3	107	59-127	
Styrene	ug/L	50	53.5	107	77-128	
Tetrachloroethene	ug/L	50	45.1	90	60-134	v3
Toluene	ug/L	50	51.3	103	75-120	
trans-1,3-Dichloropropene	ug/L	50	47.9	96	62-136	
Trichloroethene	ug/L	50	49.1	98	74-118	
Vinyl chloride	ug/L	50	38.6	77	39-127	
Xylene (Total)	ug/L	150	161	107	70-121	
1,2-Dichloroethane-d4 (S)	%			94	80-120	
4-Bromofluorobenzene (S)	%			101	73-122	
Toluene-d8 (S)	%			102	75-122	

MATRIX SPIKE SAMPLE: 1597643

Parameter	Units	70264712001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	46.6	93	68-134	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	47.4	95	64-126	
1,1,2-Trichloroethane	ug/L	<1.0	50	47.0	94	68-131	
1,1-Dichloroethane	ug/L	<1.0	50	46.3	93	54-145	
1,1-Dichloroethene	ug/L	<1.0	50	44.2	88	53-147	

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

MATRIX SPIKE SAMPLE: 1597643		70264712001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	46.3	93	58-141	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	104	104	57-152	
1,2-Dichloropropane	ug/L	<1.0	50	45.5	91	64-136	
2-Butanone (MEK)	ug/L	<5.0	50	43.1	86	23-184	
2-Hexanone	ug/L	<5.0	50	46.3	93	49-129	IH
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	46.7	93	52-141	
Acetone	ug/L	<5.0	50	41.5	83	20-139	IH,v1
Benzene	ug/L	<1.0	50	47.5	95	67-139	
Bromodichloromethane	ug/L	<1.0	50	45.5	91	70-127	
Bromoform	ug/L	<1.0	50	50.7	101	47-138	
Bromomethane	ug/L	<1.0	50	20.7	41	10-148	IH,v3
Carbon disulfide	ug/L	<1.0	50	44.1	88	51-135	
Carbon tetrachloride	ug/L	<1.0	50	46.3	93	61-136	
Chlorobenzene	ug/L	<1.0	50	51.1	102	73-130	
Chloroethane	ug/L	<1.0	50	41.3	83	48-152	
Chloroform	ug/L	<1.0	50	49.2	98	58-143	
Chloromethane	ug/L	<1.0	50	27.3	55	17-167	v3
cis-1,3-Dichloropropene	ug/L	<1.0	50	45.2	90	59-134	
Dibromochloromethane	ug/L	<1.0	50	48.9	98	65-133	
Ethylbenzene	ug/L	<1.0	50	50.5	101	63-139	
Methylene Chloride	ug/L	<1.0	50	52.0	104	47-142	
Styrene	ug/L	<1.0	50	51.8	104	72-134	
Tetrachloroethene	ug/L	<1.0	50	45.8	92	64-144	v3
Toluene	ug/L	<1.0	50	50.0	100	72-136	
trans-1,3-Dichloropropene	ug/L	<1.0	50	44.5	89	53-139	
Trichloroethene	ug/L	<1.0	50	49.6	99	76-130	
Vinyl chloride	ug/L	<1.0	50	35.7	71	43-135	
Xylene (Total)	ug/L	<3.0	150	154	102	63-136	
1,2-Dichloroethane-d4 (S)	%				90	80-120	
4-Bromofluorobenzene (S)	%				99	73-122	
Toluene-d8 (S)	%				101	75-122	

SAMPLE DUPLICATE: 1597644

Parameter	Units	70264721001	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	<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: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

SAMPLE DUPLICATE: 1597644

Parameter	Units	70264721001 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	<1.0	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)	%	90	90		
4-Bromofluorobenzene (S)	%	100	102		
Toluene-d8 (S)	%	99	102		

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

QC Batch: 315776

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: 70264721001, 70264721002

SAMPLE DUPLICATE: 1607301

Parameter	Units	70264740001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.1	7.1	0	H3,H6,N3
Temperature, Water (C)	deg C	7.1	7.1	0	H3,H6

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QUALIFIERS

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MINMILT MONTHLY 7/27

Pace Project No.: 70264721

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70264721001	SYS-EFF	EPA 200.7	314305	EPA 200.7	314389
70264721002	SYS-INF	EPA 200.7	314305	EPA 200.7	314389
70264721001	SYS-EFF	EPA 8260C/5030C	314065		
70264721002	SYS-INF	EPA 8260C/5030C	314065		
70264721001	SYS-EFF	SM22 4500-H+B	315776		
70264721002	SYS-INF	SM22 4500-H+B	315776		

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CHAIN-OF-CUSTODY / Analytical Request
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant information submitted via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://www.pace.com/terms-conditions

WO#: 70264721



Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	P W. Grosser Engineer & Hydrogeologist	Report To:	Kaitlyn Crosby	Attention:	
Address:	630 Johnson Ave Suite 7, Bohemia, NY 11716	Copy To:	Kyan Horley	Company Name:	
Email:	krcrosby@pwgrosser.com / Ryanm@pwgrosser.com	Purchase Order #:		Address:	
Phone:	(631) 589-6353	Project Name:	MINIMILT MONTHLY	Pace Quote:	
Requested Due Date		Project #:		Pace Project Manager:	daniel.bonitto@pacelabs.com,
				Pace Profile #:	5392
				State / Location	NY
				Regulatory Agency	

ITEM #	MATRIX	CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
				START	END			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			200.7 ICP Metals	4500H+B pH	8260 Full List																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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1	SYS-EFF	WT		07/27/10	10:10		4	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on	Ice (Y/N)	Custody (Y/N)	Sealed (Y/N)	Samples Intact (Y/N)
Kylie Berry TWIC		Kylie Berry TWIC	07/27/10	11:15	07/27/10	11:15	11:15	14.7	14.7	N	N	N	N
SAMPLER NAME AND SIGNATURE													
PRINT Name of SAMPLER:													
SIGNATURE of SAMPLER:													
DATE Signed:													

Multiday Project

Add SCLOGFD to first sample for field charge

Container Codes

- Can also be a BP4N

Sender Initials

Additional Comments

CLIENT: PWG

WO#: 70264721

Client Name:

Project #

PM: DHB

Due Date: 08/10/23

CLIENT: PWC

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ None

Thermometer Used: TH196 Correction Factor: -0.4 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 14.7 Cooler Temperature Corrected (°C): 14.3 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

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

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 (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

SH 7/27/20

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☐ Yes ☒ No	6.
Rush Turn Around Time Requested ☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	
Containers Intact: ☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests ☐ Yes ☐ No ☒ N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: ☐ Yes ☒ No	12.
-Includes date/time/ID/Analysis: Matrix: SL ☒ WT ☐ OIL ☐ OTHER	

Date and Initials of person checking preservation:

SH 7/27/20

All containers needing preservation have been ☒ Yes ☐ No ☐ N/A pH paper Lot # <u>109DHO431</u>	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, ☒ Yes ☐ No ☐ N/A NAOH > 12 Cyanide)	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	14.
KI starch test strips Lot #	Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #	15.
SM 4500 CN samples checked for sulfide: ☐ Yes ☐ No ☒ N/A	Positive for Sulfide? Y N
Lead Acetate Strips Lot #	16.
Headspace in VOA Vials (>6mm): ☐ Yes ☒ No ☐ N/A	17.
Trip Blank Present: ☐ Yes ☒ No ☐ N/A	
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

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



October 09, 2023

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

RE: Project: MINMILT MONTHLY 9/27
Pace Project No.: 70272034

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2023. 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,

A handwritten signature in black ink that reads 'Daniel H. Bonitto'.

Daniel H. Bonitto
daniel.bonitto@pacelabs.com
516-370-6000
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

Sample: SYS-INF-MUG		Lab ID: 70272034001		Collected: 09/27/23 13:05		Received: 09/27/23 14:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	290	ug/L	100	1	10/02/23 07:35	10/02/23 13:39	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/02/23 13:30	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/02/23 13:30	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/02/23 13:30	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/02/23 13:30	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/02/23 13:30	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/02/23 13:30	107-06-2		
1,2-Dichloroethene (Total)	241	ug/L	20.0	10		10/05/23 17:28	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/02/23 13:30	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/02/23 13:30	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		10/02/23 13:30	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/02/23 13:30	108-10-1		
Acetone	<5.0	ug/L	5.0	1		10/02/23 13:30	67-64-1		
Benzene	<0.70	ug/L	0.70	1		10/02/23 13:30	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		10/02/23 13:30	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		10/02/23 13:30	75-25-2	v3	
Bromomethane	<1.0	ug/L	1.0	1		10/02/23 13:30	74-83-9	IC,v3	
Carbon disulfide	<1.0	ug/L	1.0	1		10/02/23 13:30	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/02/23 13:30	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		10/02/23 13:30	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		10/02/23 13:30	75-00-3		
Chloroform	1.3	ug/L	1.0	1		10/02/23 13:30	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		10/02/23 13:30	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		10/02/23 13:30	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		10/02/23 13:30	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		10/02/23 13:30	75-09-2		
Styrene	<1.0	ug/L	1.0	1		10/02/23 13:30	100-42-5		
Tetrachloroethene	946	ug/L	10.0	10		10/05/23 17:28	127-18-4		
Toluene	<1.0	ug/L	1.0	1		10/02/23 13:30	108-88-3		
Trichloroethene	40.5	ug/L	1.0	1		10/02/23 13:30	79-01-6		
Vinyl chloride	14.7	ug/L	1.0	1		10/02/23 13:30	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		10/02/23 13:30	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/02/23 13:30	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/02/23 13:30	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		10/02/23 13:30	17060-07-0		
4-Bromofluorobenzene (S)	105	%	73-122	1		10/02/23 13:30	460-00-4		
Toluene-d8 (S)	99	%	75-122	1		10/02/23 13:30	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.0	Std. Units	0.10	1		10/05/23 23:58		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

Sample: SYS-INF-MUG		Lab ID: 70272034001		Collected: 09/27/23 13:05		Received: 09/27/23 14:23		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)		17.2	deg C	0.10	1		10/05/23 23:58		H3,H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

Sample: SYS-INF-UG		Lab ID: 70272034002		Collected: 09/27/23 12:45		Received: 09/27/23 14:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	5350	ug/L	100	1	10/02/23 07:35	10/02/23 13:42	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/02/23 13:51	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/02/23 13:51	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/02/23 13:51	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/02/23 13:51	75-34-3		
1,1-Dichloroethene	3.0	ug/L	1.0	1		10/02/23 13:51	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/02/23 13:51	107-06-2		
1,2-Dichloroethene (Total)	1180	ug/L	20.0	10		10/05/23 18:31	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/02/23 13:51	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/02/23 13:51	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		10/02/23 13:51	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/02/23 13:51	108-10-1		
Acetone	<5.0	ug/L	5.0	1		10/02/23 13:51	67-64-1		
Benzene	<0.70	ug/L	0.70	1		10/02/23 13:51	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		10/02/23 13:51	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		10/02/23 13:51	75-25-2	v3	
Bromomethane	<1.0	ug/L	1.0	1		10/02/23 13:51	74-83-9	IC,v3	
Carbon disulfide	<1.0	ug/L	1.0	1		10/02/23 13:51	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/02/23 13:51	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		10/02/23 13:51	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		10/02/23 13:51	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		10/02/23 13:51	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		10/02/23 13:51	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		10/02/23 13:51	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		10/02/23 13:51	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		10/02/23 13:51	75-09-2		
Styrene	<1.0	ug/L	1.0	1		10/02/23 13:51	100-42-5		
Tetrachloroethene	350	ug/L	10.0	10		10/05/23 18:31	127-18-4		
Toluene	<1.0	ug/L	1.0	1		10/02/23 13:51	108-88-3		
Trichloroethene	137	ug/L	1.0	1		10/02/23 13:51	79-01-6		
Vinyl chloride	100	ug/L	1.0	1		10/02/23 13:51	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		10/02/23 13:51	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/02/23 13:51	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/02/23 13:51	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		10/02/23 13:51	17060-07-0		
4-Bromofluorobenzene (S)	104	%	73-122	1		10/02/23 13:51	460-00-4		
Toluene-d8 (S)	100	%	75-122	1		10/02/23 13:51	2037-26-5		
4500H+ pH, Electrometric									
Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville									
pH	6.2	Std. Units	0.10	1		10/05/23 23:56		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

Sample: SYS-INF-UG		Lab ID: 70272034002		Collected: 09/27/23 12:45		Received: 09/27/23 14:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	17.4	deg C	0.10	1		10/05/23 23:56		H3,H6	

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

Sample: SYS-EFF		Lab ID: 70272034003		Collected: 09/27/23 11:45		Received: 09/27/23 14:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	809	ug/L	100	1	10/02/23 07:35	10/02/23 13:45	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/02/23 14:53	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/02/23 14:53	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/02/23 14:53	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/02/23 14:53	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/02/23 14:53	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/02/23 14:53	107-06-2		
1,2-Dichloroethene (Total)	18.0	ug/L	2.0	1		10/02/23 14:53	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/02/23 14:53	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/02/23 14:53	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		10/02/23 14:53	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/02/23 14:53	108-10-1		
Acetone	<5.0	ug/L	5.0	1		10/02/23 14:53	67-64-1		
Benzene	<0.70	ug/L	0.70	1		10/02/23 14:53	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		10/02/23 14:53	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		10/02/23 14:53	75-25-2	v3	
Bromomethane	<1.0	ug/L	1.0	1		10/02/23 14:53	74-83-9	IC,v3	
Carbon disulfide	<1.0	ug/L	1.0	1		10/02/23 14:53	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/02/23 14:53	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		10/02/23 14:53	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		10/02/23 14:53	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		10/02/23 14:53	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		10/02/23 14:53	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		10/02/23 14:53	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		10/02/23 14:53	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		10/02/23 14:53	75-09-2		
Styrene	<1.0	ug/L	1.0	1		10/02/23 14:53	100-42-5		
Tetrachloroethene	2.5	ug/L	1.0	1		10/02/23 14:53	127-18-4		
Toluene	<1.0	ug/L	1.0	1		10/02/23 14:53	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		10/02/23 14:53	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		10/02/23 14:53	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		10/02/23 14:53	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/02/23 14:53	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/02/23 14:53	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		10/02/23 14:53	17060-07-0		
4-Bromofluorobenzene (S)	106	%	73-122	1		10/02/23 14:53	460-00-4		
Toluene-d8 (S)	102	%	75-122	1		10/02/23 14:53	2037-26-5		
4500H+ pH, Electrometric									
Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville									
pH	7.4	Std. Units	0.10	1		10/05/23 23:52		H3,H6, N3	

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

Sample: SYS-EFF		Lab ID: 70272034003		Collected: 09/27/23 11:45		Received: 09/27/23 14:23		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	17.9	deg C	0.10	1		10/05/23 23:52		H3,H6	

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

Sample: SYS-INF		Lab ID: 70272034004		Collected: 09/27/23 11:30		Received: 09/27/23 14:23		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	1480	ug/L	100	1	10/02/23 07:35	10/02/23 14:04	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/02/23 14:12	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/02/23 14:12	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/02/23 14:12	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/02/23 14:12	75-34-3		
1,1-Dichloroethene	1.4	ug/L	1.0	1		10/02/23 14:12	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/02/23 14:12	107-06-2		
1,2-Dichloroethene (Total)	752	ug/L	20.0	10		10/05/23 18:10	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/02/23 14:12	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/02/23 14:12	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		10/02/23 14:12	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/02/23 14:12	108-10-1		
Acetone	<5.0	ug/L	5.0	1		10/02/23 14:12	67-64-1		
Benzene	<0.70	ug/L	0.70	1		10/02/23 14:12	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		10/02/23 14:12	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		10/02/23 14:12	75-25-2		v3
Bromomethane	<1.0	ug/L	1.0	1		10/02/23 14:12	74-83-9		v3
Carbon disulfide	<1.0	ug/L	1.0	1		10/02/23 14:12	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/02/23 14:12	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		10/02/23 14:12	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		10/02/23 14:12	75-00-3		
Chloroform	1.1	ug/L	1.0	1		10/02/23 14:12	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		10/02/23 14:12	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		10/02/23 14:12	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		10/02/23 14:12	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		10/02/23 14:12	75-09-2		
Styrene	<1.0	ug/L	1.0	1		10/02/23 14:12	100-42-5		
Tetrachloroethene	786	ug/L	10.0	10		10/05/23 18:10	127-18-4		
Toluene	<1.0	ug/L	1.0	1		10/02/23 14:12	108-88-3		
Trichloroethene	69.7	ug/L	1.0	1		10/02/23 14:12	79-01-6		
Vinyl chloride	39.5	ug/L	1.0	1		10/02/23 14:12	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		10/02/23 14:12	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/02/23 14:12	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/02/23 14:12	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		10/02/23 14:12	17060-07-0		
4-Bromofluorobenzene (S)	106	%	73-122	1		10/02/23 14:12	460-00-4		
Toluene-d8 (S)	99	%	75-122	1		10/02/23 14:12	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.2	Std. Units	0.10	1		10/05/23 23:43			H3,H6, N3

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

Sample: SYS-INF		Lab ID: 70272034004		Collected: 09/27/23 11:30		Received: 09/27/23 14:23		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)		16.6	deg C	0.10	1		10/05/23 23:43		H3,H6

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

QC Batch: 322261

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: 70272034001, 70272034002, 70272034003, 70272034004

METHOD BLANK: 1643898

Matrix: Water

Associated Lab Samples: 70272034001, 70272034002, 70272034003, 70272034004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	10/02/23 13:12	

LABORATORY CONTROL SAMPLE: 1643899

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

MATRIX SPIKE SAMPLE: 1643901

Parameter	Units	70272034003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	809	5000	5870	101	70-130	

SAMPLE DUPLICATE: 1643900

Parameter	Units	70272034003 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	809	810	0	

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

QC Batch: 322302

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70272034001, 70272034002, 70272034003, 70272034004

METHOD BLANK: 1644008

Matrix: Water

Associated Lab Samples: 70272034001, 70272034002, 70272034003, 70272034004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/02/23 10:23	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	10/02/23 10:23	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	10/02/23 10:23	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/02/23 10:23	
1,1-Dichloroethene	ug/L	<1.0	1.0	10/02/23 10:23	
1,2-Dichloroethane	ug/L	<1.0	1.0	10/02/23 10:23	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	10/02/23 10:23	
1,2-Dichloropropane	ug/L	<1.0	1.0	10/02/23 10:23	
2-Butanone (MEK)	ug/L	<5.0	5.0	10/02/23 10:23	
2-Hexanone	ug/L	<5.0	5.0	10/02/23 10:23	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	10/02/23 10:23	
Acetone	ug/L	<5.0	5.0	10/02/23 10:23	
Benzene	ug/L	<0.70	0.70	10/02/23 10:23	
Bromodichloromethane	ug/L	<1.0	1.0	10/02/23 10:23	
Bromoform	ug/L	<1.0	1.0	10/02/23 10:23	v3
Bromomethane	ug/L	<1.0	1.0	10/02/23 10:23	IC,v3
Carbon disulfide	ug/L	<1.0	1.0	10/02/23 10:23	
Carbon tetrachloride	ug/L	<1.0	1.0	10/02/23 10:23	
Chlorobenzene	ug/L	<1.0	1.0	10/02/23 10:23	
Chloroethane	ug/L	<1.0	1.0	10/02/23 10:23	
Chloroform	ug/L	<1.0	1.0	10/02/23 10:23	
Chloromethane	ug/L	<1.0	1.0	10/02/23 10:23	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	10/02/23 10:23	
Dibromochloromethane	ug/L	<1.0	1.0	10/02/23 10:23	
Ethylbenzene	ug/L	<1.0	1.0	10/02/23 10:23	
Methylene Chloride	ug/L	<1.0	1.0	10/02/23 10:23	
Styrene	ug/L	<1.0	1.0	10/02/23 10:23	
Tetrachloroethene	ug/L	<1.0	1.0	10/02/23 10:23	
Toluene	ug/L	<1.0	1.0	10/02/23 10:23	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	10/02/23 10:23	
Trichloroethene	ug/L	<1.0	1.0	10/02/23 10:23	
Vinyl chloride	ug/L	<1.0	1.0	10/02/23 10:23	
Xylene (Total)	ug/L	<3.0	3.0	10/02/23 10:23	
1,2-Dichloroethane-d4 (S)	%	99	80-120	10/02/23 10:23	
4-Bromofluorobenzene (S)	%	111	73-122	10/02/23 10:23	
Toluene-d8 (S)	%	106	75-122	10/02/23 10:23	

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

LABORATORY CONTROL SAMPLE: 1644009

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.1	96	66-121	
1,1,2,2-Tetrachloroethane	ug/L	50	47.6	95	75-119	
1,1,2-Trichloroethane	ug/L	50	48.8	98	81-120	
1,1-Dichloroethane	ug/L	50	56.2	112	61-127	
1,1-Dichloroethene	ug/L	50	47.4	95	51-133	
1,2-Dichloroethane	ug/L	50	51.1	102	70-127	
1,2-Dichloroethene (Total)	ug/L	100	115	115	67-134	
1,2-Dichloropropane	ug/L	50	54.5	109	73-121	
2-Butanone (MEK)	ug/L	50	51.6	103	46-183	
2-Hexanone	ug/L	50	48.0	96	53-145	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.9	92	64-131	
Acetone	ug/L	50	62.5	125	21-195	IH
Benzene	ug/L	50	56.0	112	72-122	
Bromodichloromethane	ug/L	50	43.5	87	79-118	
Bromoform	ug/L	50	34.8	70	61-139	v3
Bromomethane	ug/L	50	33.4	67	25-144	IC,v3
Carbon disulfide	ug/L	50	46.8	94	50-126	
Carbon tetrachloride	ug/L	50	47.8	96	57-124	
Chlorobenzene	ug/L	50	51.5	103	72-125	
Chloroethane	ug/L	50	49.4	99	51-136	
Chloroform	ug/L	50	57.2	114	69-124	
Chloromethane	ug/L	50	45.5	91	18-160	
cis-1,3-Dichloropropene	ug/L	50	48.8	98	70-127	
Dibromochloromethane	ug/L	50	42.1	84	72-134	
Ethylbenzene	ug/L	50	50.2	100	72-120	
Methylene Chloride	ug/L	50	52.6	105	59-127	
Styrene	ug/L	50	50.8	102	77-128	
Tetrachloroethene	ug/L	50	47.3	95	60-134	
Toluene	ug/L	50	51.7	103	75-120	
trans-1,3-Dichloropropene	ug/L	50	45.0	90	62-136	
Trichloroethene	ug/L	50	54.2	108	74-118	
Vinyl chloride	ug/L	50	44.1	88	39-127	
Xylene (Total)	ug/L	150	155	103	70-121	
1,2-Dichloroethane-d4 (S)	%			93	80-120	
4-Bromofluorobenzene (S)	%			111	73-122	
Toluene-d8 (S)	%			103	75-122	

MATRIX SPIKE SAMPLE: 1645213

Parameter	Units	70272054002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	48.6	97	68-134	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	46.9	94	64-126	
1,1,2-Trichloroethane	ug/L	<1.0	50	48.9	98	68-131	
1,1-Dichloroethane	ug/L	<1.0	50	57.1	114	54-145	
1,1-Dichloroethene	ug/L	<1.0	50	56.7	113	53-147	

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

MATRIX SPIKE SAMPLE: 1645213		70272054002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	50.5	101	58-141	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	112	112	57-152	
1,2-Dichloropropane	ug/L	<1.0	50	52.5	105	64-136	
2-Butanone (MEK)	ug/L	<5.0	50	42.3	85	23-184	
2-Hexanone	ug/L	<5.0	50	39.7	79	49-129	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	44.3	89	52-141	
Acetone	ug/L	8.9	50	46.7	75	20-139	IH
Benzene	ug/L	<1.0	50	54.1	108	67-139	
Bromodichloromethane	ug/L	<1.0	50	40.8	82	70-127	
Bromoform	ug/L	<1.0	50	29.7	59	47-138	v3
Bromomethane	ug/L	<1.0	50	37.0	74	10-148	IC,v3
Carbon disulfide	ug/L	<1.0	50	48.4	97	51-135	
Carbon tetrachloride	ug/L	<1.0	50	47.1	94	61-136	
Chlorobenzene	ug/L	<1.0	50	47.6	95	73-130	
Chloroethane	ug/L	<1.0	50	48.0	96	48-152	
Chloroform	ug/L	2.3	50	58.3	112	58-143	
Chloromethane	ug/L	<1.0	50	41.7	83	17-167	
cis-1,3-Dichloropropene	ug/L	<1.0	50	46.3	93	59-134	
Dibromochloromethane	ug/L	<1.0	50	36.7	73	65-133	
Ethylbenzene	ug/L	<1.0	50	47.8	96	63-139	
Methylene Chloride	ug/L	<1.0	50	53.3	107	47-142	
Styrene	ug/L	<1.0	50	47.9	96	72-134	
Tetrachloroethene	ug/L	<1.0	50	44.8	90	64-144	
Toluene	ug/L	<1.0	50	51.7	103	72-136	
trans-1,3-Dichloropropene	ug/L	<1.0	50	41.8	84	53-139	
Trichloroethene	ug/L	<1.0	50	53.1	106	76-130	
Vinyl chloride	ug/L	<1.0	50	42.8	86	43-135	
Xylene (Total)	ug/L	<3.0	150	145	97	63-136	
1,2-Dichloroethane-d4 (S)	%				99	80-120	
4-Bromofluorobenzene (S)	%				108	73-122	
Toluene-d8 (S)	%				102	75-122	

SAMPLE DUPLICATE: 1645212

Parameter	Units	70272054001	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	<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: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

SAMPLE DUPLICATE: 1645212

Parameter	Units	70272054001 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	45.5	49.7	9	IH
Benzene	ug/L	<1.0	<0.70		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		v3
Bromomethane	ug/L	<1.0	<1.0		IC,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	9.4	9.0	4	
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)	%	98	98		
4-Bromofluorobenzene (S)	%	109	109		
Toluene-d8 (S)	%	104	103		

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

QC Batch:	322900	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: 70272034001, 70272034002, 70272034003, 70272034004

SAMPLE DUPLICATE: 1647987

Parameter	Units	70272040001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.9	6.9		0 H3,H6,N3
Temperature, Water (C)	deg C	17.6	17.8		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.

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QUALIFIERS

Project: MINMILT MONTHLY 9/27

Pace Project No.: 70272034

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.

BATCH QUALIFIERS

Batch: 322266

- [1] The post digestion spike for sample 70272034003 (PDS 1643913) did not meet acceptance criteria for Silver.
- [2] The serial dilution for sample 70272034003 (SD 1643914) did not meet acceptance criteria for Silver, Chromium, Copper and Nickel.

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.
- 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 MONTHLY 9/27

Pace Project No.: 70272034

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70272034001	SYS-INF-MUG	EPA 200.7	322261	EPA 200.7	322266
70272034002	SYS-INF-UG	EPA 200.7	322261	EPA 200.7	322266
70272034003	SYS-EFF	EPA 200.7	322261	EPA 200.7	322266
70272034004	SYS-INF	EPA 200.7	322261	EPA 200.7	322266
70272034001	SYS-INF-MUG	EPA 8260C/5030C	322302		
70272034002	SYS-INF-UG	EPA 8260C/5030C	322302		
70272034003	SYS-EFF	EPA 8260C/5030C	322302		
70272034004	SYS-INF	EPA 8260C/5030C	322302		
70272034001	SYS-INF-MUG	SM22 4500-H+B	322900		
70272034002	SYS-INF-UG	SM22 4500-H+B	322900		
70272034003	SYS-EFF	SM22 4500-H+B	322900		
70272034004	SYS-INF	SM22 4500-H+B	322900		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

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

Company Name:	P.W. Grosser Engineer & Hydrogeologist	Contact/Report To:	Kevin Ryan Harley
Street Address:	630 Johnson Ave., Bohemia, NY 11716	Phone #:	(631) 589-6353
		E-Mail:	kyass@pwgrosser.com
		Cc E-Mail:	
Customer Project #:		Invoice To:	Brienne Phillips
Project Name:	MINIMULT MONTHLY	Invoice E-Mail:	ar@pwgrosser.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [] AK [] PT [] MT [] CT		County / State origin of sample(s): New York						
Data Deliverables:								
☒ Level II ☐ Level III ☐ Level IV ☐ EQUIS ☐ Other _____		Regulatory Program (DW, RCRA, etc.) as applicable: DW PWSID # or WW Permit # as applicable:						
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk		Rush (Pre-approval required): [] 1 Day [] 3 day [] 5 day [] Other _____ Date Results Requested: _____ Analysis: Field Filtered (if applicable): [] Yes [] No						
Matrix *	Customer Sample ID	Comp / Grab	Collected (or Composite Start)		Composite End		Res. CL	Number & Type of Containers Plastic Glass
			Date	Time	Date	Time		
MMS	SYS-INF-HUG	X	9/27/23	13:05				2 2
ML-1A		WT						
ML-1B		WT						
ML-1F		WT						
ML-1G		WT						
MW-8		WT						
MW-9		WT						
SYS-EFF		X	9/27/23	11:45				2 2
SYS-INF		X		11:30				2 2
	SYS-INF-HUG	X		13:45				2 2

Customer Remarks / Special Conditions / Possible Hazards:	Collected By:	Printed Name:	Signature:	Received by/Company: (Signature)	Date/Time:
	Ryan Horkey				9/27/23 14:23

Specify Container Size **									
Identify Container Preservative Type ***									
Analysis Requested									
200.7 ICP Metals	X	X	X	X	X	X	X	X	X
4500H+B pH	X	X	X	X	X	X	X	X	X
8260 Full List	X	X	X	X	X	X	X	X	X
Proj. Mgr: Daniel Bonitto AcctNum / Client ID: Table #: Profile / Template: 5392 Prelog / Bottle Ord. ID: 1092911 Sample Comment Preservation non-conformance identified for sample									

Use Point Number Spreadsheet	Multiday Project

Use Point Number Spreadsheet

Add SCLOGFD to first sample for field charge

Profile #:

COC Page

Client:

Work ID:

of

☐ Add SCLUGFD to first

Add SCSLQFD to first sample for field change

Use Point Number Spreadsheet

Add SCLOGFD to first sample for field charge

Project

WO#: 70272034
PM: DHB
CLIENT: PWG
Due Date: 10/12/23

PM: DHB

CLIENT: PWG

Due Date: 10/12/23

[illegible]

Glass		Plastic		Misc.
VG5U	40mL unpres clear vial	AG4U	BP4U	SP5T
VG3C	40mL Ascorbic-HCl clear vial	AG3U	BP3U	R
VG9H	40mL HCl clear vial	AG2U	BP2U	Terracone Kit
VG9S	40mL Sulfuric clear vial	AG1U	BP1U	WG2U
DG3T	40mL Na Thiosulfate vial	AG3A	BP4N	10z Unpreserved Jar
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	BP3N	40z Unpreserved Jar
DG9A	40mL amber vial - TSP	AG4E	BP2N	WGKU
DG3P	Ascorbic/Maleic Acid 40mL	AG3T	BP3S	80z Unpreserved Jar
DG8T	Na Thio 60mL Vial	AG2R	BP2S	16oz Unpreserved Jar
DG8S	Ammonium Cl/CuSO4 40mL	AG1T	BP3C	ZPLC
CG1U	1L Unpres Jar (Con Ed)	AG1H	BP3T	TEDL
		AG1A	BP35	1L HCl Clear Glass
WG9O	8oz clear soil jar		BP3S	GN
WG4O	4oz clear soil jar		BP1Z	General
			BP1N	WP
			BP1R	Wipe

IOC	
BP1U	1L unreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	Oil
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	Monocitric/Na Thio 60mL
AG3U	250mL unresps amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	SOC 2/Chemical Element

Sender Initials

Additional Comments

only 2 locations

WO#: 70272034

PM: DHB

Due Date: 10/12/23

CLIENT: PWG

Client Name:

Project

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

Tracking #:

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

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

Thermometer Used: +H196 Correction Factor: 0.4 ☒ Samples on ice, cooling process has begun

Cooler Temperature (°C): 5.4 Cooler Temperature Corrected (°C): 5.0 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

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

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 (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No	6.
Rush Turn Around Time Requested ☒ Yes ☐ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	10.
Containers Intact: ☒ Yes ☐ No	11.
Filtered volume received for Dissolved tests ☒ Yes ☐ No ☒ N/A	Note: if sediment is visible in the dissolved container.
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis: Matrix: ☒ SL ☒ OIL OTHER	

Date and Initials of person checking preservation:

All containers needing preservation have been pH paper Lot # <u>H1210330</u> ☒ Yes ☐ No ☐ N/A	13.	☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, ☒ Yes ☐ No ☐ N/A NAOH > 12 Cyanide)	Sample #	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	Initial when completed:	Lot # of added preservative:
Per Method, VOA pH is checked after analysis	Date/Time preservative added:	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	14.	
KI starch test strips Lot #	Positive for Res. Chlorine? Y N	
Residual chlorine strips Lot #	15.	
SM 4500 CN samples checked for sul ☐ Yes ☐ No ☒ N/A	Positive for Sulfide? Y N	
Lead Acetate Strips Lot #	16.	
Headspace in VOA Vials (>6mm): ☐ Yes ☒ No ☐ N/A	17.	
Trip Blank Present: ☐ Yes ☐ No ☒ N/A		
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

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



October 24, 2023

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

RE: Project: MINMILT MONTHLY 10/11
Pace Project No.: 70273692

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2023. 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,

Daniel H. Bonitto
daniel.bonitto@pacelabs.com
516-370-6000
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

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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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

Sample: SYS-EFF		Lab ID: 70273692001		Collected: 10/11/23 12:40		Received: 10/11/23 13:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	2450	ug/L	100	1	10/16/23 08:24	10/16/23 16:41	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/12/23 15:11	71-55-6	IC,L1	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/12/23 15:11	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/12/23 15:11	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/12/23 15:11	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/12/23 15:11	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/12/23 15:11	107-06-2		
1,2-Dichloroethene (Total)	16.7	ug/L	2.0	1		10/12/23 15:11	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/12/23 15:11	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/12/23 15:11	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		10/12/23 15:11	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/12/23 15:11	108-10-1		
Acetone	<5.0	ug/L	5.0	1		10/12/23 15:11	67-64-1		
Benzene	<0.70	ug/L	0.70	1		10/12/23 15:11	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		10/12/23 15:11	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		10/12/23 15:11	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		10/12/23 15:11	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		10/12/23 15:11	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/12/23 15:11	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		10/12/23 15:11	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		10/12/23 15:11	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		10/12/23 15:11	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		10/12/23 15:11	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		10/12/23 15:11	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		10/12/23 15:11	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		10/12/23 15:11	75-09-2		
Styrene	<1.0	ug/L	1.0	1		10/12/23 15:11	100-42-5		
Tetrachloroethene	2.4	ug/L	1.0	1		10/12/23 15:11	127-18-4		
Toluene	<1.0	ug/L	1.0	1		10/12/23 15:11	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		10/12/23 15:11	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		10/12/23 15:11	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		10/12/23 15:11	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/12/23 15:11	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/12/23 15:11	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	80-120	1		10/12/23 15:11	17060-07-0		
4-Bromofluorobenzene (S)	95	%	73-122	1		10/12/23 15:11	460-00-4		
Toluene-d8 (S)	99	%	75-122	1		10/12/23 15:11	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	7.2	Std. Units	0.10	1		10/24/23 10:29		H3,H6, N3	

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

Sample: SYS-EFF		Lab ID: 70273692001		Collected: 10/11/23 12:40		Received: 10/11/23 13:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	21.7	deg C	0.10	1		10/24/23 10:29		H3,H6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

Sample: SYS-INF		Lab ID: 70273692002		Collected: 10/11/23 12:30		Received: 10/11/23 13:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	2280	ug/L	100	1	10/16/23 08:24	10/16/23 16:44	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/12/23 19:47	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/12/23 19:47	79-34-5		
1,1,2-Trichloroethane	24.6	ug/L	1.0	1		10/12/23 19:47	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/12/23 19:47	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/12/23 19:47	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/12/23 19:47	107-06-2		
1,2-Dichloroethene (Total)	577	ug/L	20.0	10		10/13/23 14:26	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/12/23 19:47	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/12/23 19:47	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		10/12/23 19:47	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/12/23 19:47	108-10-1		
Acetone	<5.0	ug/L	5.0	1		10/12/23 19:47	67-64-1	v1	
Benzene	<0.70	ug/L	0.70	1		10/12/23 19:47	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		10/12/23 19:47	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		10/12/23 19:47	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		10/12/23 19:47	74-83-9	IC,L1	
Carbon disulfide	<1.0	ug/L	1.0	1		10/12/23 19:47	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/12/23 19:47	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		10/12/23 19:47	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		10/12/23 19:47	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		10/12/23 19:47	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		10/12/23 19:47	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		10/12/23 19:47	124-48-1		
Ethylbenzene	1.0	ug/L	1.0	1		10/12/23 19:47	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		10/12/23 19:47	75-09-2		
Styrene	<1.0	ug/L	1.0	1		10/12/23 19:47	100-42-5		
Tetrachloroethene	665	ug/L	10.0	10		10/13/23 14:26	127-18-4		
Toluene	<1.0	ug/L	1.0	1		10/12/23 19:47	108-88-3		
Trichloroethene	51.8	ug/L	1.0	1		10/12/23 19:47	79-01-6		
Vinyl chloride	36.0	ug/L	1.0	1		10/12/23 19:47	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		10/12/23 19:47	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/12/23 19:47	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/12/23 19:47	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		10/12/23 19:47	17060-07-0		
4-Bromofluorobenzene (S)	94	%	73-122	1		10/12/23 19:47	460-00-4		
Toluene-d8 (S)	97	%	75-122	1		10/12/23 19:47	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.2	Std. Units	0.10	1		10/24/23 10:28		H3,H6, N3	

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ANALYTICAL RESULTS

Project: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

Sample: SYS-INF		Lab ID: 70273692002		Collected: 10/11/23 12:30		Received: 10/11/23 13:07		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	21.3	deg C	0.10	1		10/24/23 10:28		H3,H6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

QC Batch: 323992

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: 70273692001, 70273692002

METHOD BLANK: 1654481

Matrix: Water

Associated Lab Samples: 70273692001, 70273692002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	10/16/23 14:57	

LABORATORY CONTROL SAMPLE: 1654482

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

MATRIX SPIKE SAMPLE: 1654484

Parameter	Units	70273691003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	5000	4630	93	70-130	

MATRIX SPIKE SAMPLE: 1654486

Parameter	Units	70273757001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	275	5000	4870	92	70-130	

SAMPLE DUPLICATE: 1654483

Parameter	Units	70273691003 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 1654485

Parameter	Units	70273757001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	275	282	3	

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

QC Batch: 323686

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70273692001, 70273692002

METHOD BLANK: 1652591

Matrix: Water

Associated Lab Samples: 70273692001, 70273692002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/12/23 13:10	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	10/12/23 13:10	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	10/12/23 13:10	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/12/23 13:10	
1,1-Dichloroethene	ug/L	<1.0	1.0	10/12/23 13:10	
1,2-Dichloroethane	ug/L	<1.0	1.0	10/12/23 13:10	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	10/12/23 13:10	
1,2-Dichloropropane	ug/L	<1.0	1.0	10/12/23 13:10	
2-Butanone (MEK)	ug/L	<5.0	5.0	10/12/23 13:10	
2-Hexanone	ug/L	<5.0	5.0	10/12/23 13:10	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	10/12/23 13:10	
Acetone	ug/L	<5.0	5.0	10/12/23 13:10	
Benzene	ug/L	<0.70	0.70	10/12/23 13:10	
Bromodichloromethane	ug/L	<1.0	1.0	10/12/23 13:10	
Bromoform	ug/L	<1.0	1.0	10/12/23 13:10	
Bromomethane	ug/L	<1.0	1.0	10/12/23 13:10	IC
Carbon disulfide	ug/L	<1.0	1.0	10/12/23 13:10	
Carbon tetrachloride	ug/L	<1.0	1.0	10/12/23 13:10	
Chlorobenzene	ug/L	<1.0	1.0	10/12/23 13:10	
Chloroethane	ug/L	<1.0	1.0	10/12/23 13:10	
Chloroform	ug/L	<1.0	1.0	10/12/23 13:10	
Chloromethane	ug/L	<1.0	1.0	10/12/23 13:10	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	10/12/23 13:10	
Dibromochloromethane	ug/L	<1.0	1.0	10/12/23 13:10	
Ethylbenzene	ug/L	<1.0	1.0	10/12/23 13:10	
Methylene Chloride	ug/L	<1.0	1.0	10/12/23 13:10	
Styrene	ug/L	<1.0	1.0	10/12/23 13:10	
Tetrachloroethene	ug/L	<1.0	1.0	10/12/23 13:10	
Toluene	ug/L	<1.0	1.0	10/12/23 13:10	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	10/12/23 13:10	
Trichloroethene	ug/L	<1.0	1.0	10/12/23 13:10	
Vinyl chloride	ug/L	<1.0	1.0	10/12/23 13:10	
Xylene (Total)	ug/L	<3.0	3.0	10/12/23 13:10	
1,2-Dichloroethane-d4 (S)	%	104	80-120	10/12/23 13:10	
4-Bromofluorobenzene (S)	%	97	73-122	10/12/23 13:10	
Toluene-d8 (S)	%	98	75-122	10/12/23 13:10	

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

LABORATORY CONTROL SAMPLE: 1652592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.7	89	66-121	
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	75-119	
1,1,2-Trichloroethane	ug/L	50	49.3	99	81-120	
1,1-Dichloroethane	ug/L	50	50.5	101	61-127	
1,1-Dichloroethene	ug/L	50	48.5	97	51-133	
1,2-Dichloroethane	ug/L	50	46.9	94	70-127	
1,2-Dichloroethene (Total)	ug/L	100	100	100	67-134	
1,2-Dichloropropane	ug/L	50	46.9	94	73-121	
2-Butanone (MEK)	ug/L	50	61.6	123	46-183 v1	
2-Hexanone	ug/L	50	55.4	111	53-145	
4-Methyl-2-pentanone (MIBK)	ug/L	50	57.4	115	64-131	
Acetone	ug/L	50	65.0	130	21-195 v1	
Benzene	ug/L	50	46.7	93	72-122	
Bromodichloromethane	ug/L	50	44.4	89	79-118	
Bromoform	ug/L	50	43.7	87	61-139	
Bromomethane	ug/L	50	79.9	160	25-144 IC,L1,v1	
Carbon disulfide	ug/L	50	45.6	91	50-126	
Carbon tetrachloride	ug/L	50	43.4	87	57-124	
Chlorobenzene	ug/L	50	43.2	86	72-125	
Chloroethane	ug/L	50	48.2	96	51-136	
Chloroform	ug/L	50	50.0	100	69-124	
Chloromethane	ug/L	50	44.4	89	18-160	
cis-1,3-Dichloropropene	ug/L	50	44.2	88	70-127	
Dibromochloromethane	ug/L	50	42.8	86	72-134	
Ethylbenzene	ug/L	50	44.3	89	72-120	
Methylene Chloride	ug/L	50	47.9	96	59-127	
Styrene	ug/L	50	43.2	86	77-128	
Tetrachloroethene	ug/L	50	42.8	86	60-134	
Toluene	ug/L	50	47.4	95	75-120	
trans-1,3-Dichloropropene	ug/L	50	43.3	87	62-136	
Trichloroethene	ug/L	50	48.3	97	74-118	
Vinyl chloride	ug/L	50	45.6	91	39-127	
Xylene (Total)	ug/L	150	130	87	70-121	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			95	73-122	
Toluene-d8 (S)	%			97	75-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1653522 1653523

Parameter	Units	70273696001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	50.0	48.2	100	96	68-134	4	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	50.3	50.0	101	100	64-126	1	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	52.2	51.7	104	103	68-131	1	
1,1-Dichloroethane	ug/L	<1.0	50	50	55.5	54.1	111	108	54-145	2	

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1653522 1653523											
Parameter	Units	70273696001		MS	MSD	MS		MSD	% Rec		Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	
1,1-Dichloroethene	ug/L	<1.0	50	50	50	54.5	53.5	109	107	53-147	2
1,2-Dichloroethane	ug/L	<1.0	50	50	50	51.0	50.2	102	100	58-141	2
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	100	112	108	112	108	57-152	3
1,2-Dichloropropane	ug/L	<1.0	50	50	50	52.0	51.1	104	102	64-136	2
2-Butanone (MEK)	ug/L	<5.0	50	50	50	58.3	58.3	117	117	23-184	0 v1
2-Hexanone	ug/L	<5.0	50	50	50	55.8	56.5	112	113	49-129	1
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	50	59.0	59.4	118	119	52-141	1
Acetone	ug/L	8.8	50	50	50	65.0	67.6	112	118	20-139	4 v1
Benzene	ug/L	<1.0	50	50	50	52.0	50.2	104	100	67-139	3
Bromodichloromethane	ug/L	<1.0	50	50	50	48.2	47.4	96	95	70-127	2
Bromoform	ug/L	<1.0	50	50	50	45.3	46.2	91	92	47-138	2
Bromomethane	ug/L	<1.0	50	50	50	68.5	72.5	137	145	10-148	6 IC,v1
Carbon disulfide	ug/L	<1.0	50	50	50	53.2	48.8	106	98	51-135	9
Carbon tetrachloride	ug/L	<1.0	50	50	50	47.7	46.4	95	93	61-136	3
Chlorobenzene	ug/L	<1.0	50	50	50	47.8	47.1	96	94	73-130	1
Chloroethane	ug/L	<1.0	50	50	50	53.8	51.4	108	103	48-152	5
Chloroform	ug/L	<1.0	50	50	50	54.6	53.8	109	108	58-143	2
Chloromethane	ug/L	<1.0	50	50	50	47.8	42.2	96	84	17-167	13
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	50	47.7	47.1	95	94	59-134	1
Dibromochloromethane	ug/L	<1.0	50	50	50	45.3	46.1	91	92	65-133	2
Ethylbenzene	ug/L	<1.0	50	50	50	49.1	48.9	98	98	63-139	0
Methylene Chloride	ug/L	<1.0	50	50	50	52.0	51.2	104	102	47-142	2
Styrene	ug/L	<1.0	50	50	50	47.7	47.9	95	96	72-134	0
Tetrachloroethene	ug/L	<1.0	50	50	50	46.4	45.2	93	90	64-144	3
Toluene	ug/L	<1.0	50	50	50	52.1	50.6	104	101	72-136	3
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	50	45.6	45.9	91	92	53-139	1
Trichloroethene	ug/L	<1.0	50	50	50	53.8	50.9	108	102	76-130	6
Vinyl chloride	ug/L	<1.0	50	50	50	52.0	49.2	104	98	43-135	6
Xylene (Total)	ug/L	<3.0	150	150	150	145	143	97	95	63-136	2
1,2-Dichloroethane-d4 (S)	%							104	104	80-120	
4-Bromofluorobenzene (S)	%							97	98	73-122	
Toluene-d8 (S)	%							99	100	75-122	

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QUALITY CONTROL DATA

Project: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

QC Batch: 325016

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: 70273692001, 70273692002

SAMPLE DUPLICATE: 1660112

Parameter	Units	70273540001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.1	7.1		1 H3,H6,N3
Temperature, Water (C)	deg C	21.7	21.7		0 H3,H6

SAMPLE DUPLICATE: 1660113

Parameter	Units	70273540002 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.2	7.1		0 H3,H6,N3
Temperature, Water (C)	deg C	21.4	21.6		1 H3,H6

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QUALIFIERS

Project: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

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.

BATCH QUALIFIERS

Batch: 324042

- [1] The post digestion spike for sample 70273691003 (PDS 1654586) did not meet acceptance criteria for Silver.
- [2] The serial dilution for sample 70273691003 (SD 1654587) did not meet acceptance criteria for Silver, Aluminum, Arsenic, Potassium, Molybdenum, Lead and Selenium.
- [3] The post digestion spike for sample 70273757001 (PDS 1654588) did not meet acceptance criteria for Sodium and Silver.
- [4] The serial dilution for sample 70273757001 (SD 1654589) did not meet acceptance criteria for Arsenic, Barium, Cadmium, Chromium, Iron, Molybdenum, Nickel, Lead, Selenium, and Zinc.

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.
- 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.
- 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: MINMILT MONTHLY 10/11

Pace Project No.: 70273692

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70273692001	SYS-EFF	EPA 200.7	323992	EPA 200.7	324042
70273692002	SYS-INF	EPA 200.7	323992	EPA 200.7	324042
70273692001	SYS-EFF	EPA 8260C/5030C	323686		
70273692002	SYS-INF	EPA 8260C/5030C	323686		
70273692001	SYS-EFF	SM22 4500-H+B	325016		
70273692002	SYS-INF	SM22 4500-H+B	325016		

REPORT OF LABORATORY ANALYSIS

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WO#: 70273692

PM: DHB

Due Date: 10/25/23

CLIENT: PWG

Client Name:

PWG

Project #:

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

Tracking #:

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

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

Thermometer Used: TH198 Correction Factor: +0.3 8.4 ☐ Samples on ice, cooling process has begun

Cooler Temperature ("C): 8.1 Cooler Temperature Corrected ("C): 8.4 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6 °C

USDA Regulated Soil ☒ N/A, water sample)

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 (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No	6.
Rush Turn Around Time Requested ☒ Yes ☐ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	10.
Containers Intact: ☒ Yes ☐ No	11.
Filtered volume received for Dissolved tests ☒ Yes ☐ No ☐ N/A	Note: if sediment is visible in the dissolved container.
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis: Matrix: SL ☒ WT ☐ OIL ☐ OTHER	

Date and Initials of person checking preservation:

All containers needing preservation have been pH paper Lot #	13.	☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☒ Yes ☐ No ☐ N/A	Sample #	
NAOH>12 Cyanide)		
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	Initial when completed:	Lot # of added preservative:
Per Method, VOA pH is checked after analysis	Date/Time preservative added:	
Samples checked for dechlorination: ☒ Yes ☐ No ☐ N/A	14.	
KI starch test strips Lot #		
Residual chlorine strips Lot #	Positive for Res., Chlorine? Y N	
SM 4500 CN samples checked for sul ☒ Yes ☐ No ☐ N/A	15.	
Lead Acetate Strips Lot #	Positive for Sulfide? Y N	
Headspace in VOA Vials (>6mm): ☒ Yes ☐ No ☐ N/A	16.	
Trip Blank Present: ☒ Yes ☐ No ☐ N/A	17.	
Trip Blank Custody Seals Present ☒ Yes ☐ No ☐ N/A		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

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



December 11, 2023

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

RE: Project: MINMILT MONTHKY 11/30
Pace Project No.: 70279193

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on November 30, 2023. 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,

Daniel H. Bonitto
daniel.bonitto@pacelabs.com
516-370-6000
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MINMILT MONTHKY 11/30

Pace Project No.: 70279193

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT MONTHKY 11/30

Pace Project No.: 70279193

Sample: SYS-EFF		Lab ID: 70279193001		Collected: 11/30/23 09:45		Received: 11/30/23 09:58		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	1060	ug/L	100	1	12/05/23 06:55	12/06/23 12:51	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/01/23 16:54	71-55-6	IC	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/01/23 16:54	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/01/23 16:54	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/01/23 16:54	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/01/23 16:54	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/01/23 16:54	107-06-2		
1,2-Dichloroethene (Total)	37.4	ug/L	2.0	1		12/01/23 16:54	540-59-0	IL	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/01/23 16:54	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/01/23 16:54	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/01/23 16:54	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/01/23 16:54	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/01/23 16:54	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/01/23 16:54	71-43-2	IC,v3	
Bromodichloromethane	<1.0	ug/L	1.0	1		12/01/23 16:54	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/01/23 16:54	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/01/23 16:54	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		12/01/23 16:54	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/01/23 16:54	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/01/23 16:54	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/01/23 16:54	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/01/23 16:54	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/01/23 16:54	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/01/23 16:54	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/01/23 16:54	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/01/23 16:54	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/01/23 16:54	100-42-5		
Tetrachloroethene	4.6	ug/L	1.0	1		12/01/23 16:54	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/01/23 16:54	108-88-3		
Trichloroethene	2.0	ug/L	1.0	1		12/01/23 16:54	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/01/23 16:54	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/01/23 16:54	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/01/23 16:54	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/01/23 16:54	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		12/01/23 16:54	17060-07-0		
4-Bromofluorobenzene (S)	99	%	73-122	1		12/01/23 16:54	460-00-4		
Toluene-d8 (S)	99	%	75-122	1		12/01/23 16:54	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.9	Std. Units	0.10	1		12/11/23 11:04		H1,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT MONTHKY 11/30

Pace Project No.: 70279193

Sample: SYS-EFF		Lab ID: 70279193001		Collected: 11/30/23 09:45		Received: 11/30/23 09:58		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	5.2	deg C	0.10	1		12/11/23 11:04		H1,H6	

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ANALYTICAL RESULTS

Project: MINMILT MONTHKY 11/30

Pace Project No.: 70279193

Sample: SYS-INF		Lab ID: 70279193002		Collected: 11/30/23 09:40		Received: 11/30/23 09:58		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	6130	ug/L	100	1	12/05/23 06:55	12/06/23 12:53	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/01/23 19:53	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/01/23 19:53	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/01/23 19:53	79-00-5		IC
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/01/23 19:53	75-34-3		
1,1-Dichloroethene	1.3	ug/L	1.0	1		12/01/23 19:53	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/01/23 19:53	107-06-2		
1,2-Dichloroethene (Total)	928	ug/L	20.0	10		12/04/23 17:21	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/01/23 19:53	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/01/23 19:53	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/01/23 19:53	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/01/23 19:53	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/01/23 19:53	67-64-1		IL
Benzene	<0.70	ug/L	0.70	1		12/01/23 19:53	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/01/23 19:53	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/01/23 19:53	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/01/23 19:53	74-83-9		IC,v3
Carbon disulfide	<1.0	ug/L	1.0	1		12/01/23 19:53	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/01/23 19:53	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/01/23 19:53	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/01/23 19:53	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/01/23 19:53	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/01/23 19:53	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/01/23 19:53	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/01/23 19:53	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/01/23 19:53	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/01/23 19:53	100-42-5		
Tetrachloroethene	728	ug/L	10.0	10		12/04/23 17:21	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/01/23 19:53	108-88-3		
Trichloroethene	163	ug/L	1.0	1		12/01/23 19:53	79-01-6		
Vinyl chloride	46.7	ug/L	1.0	1		12/01/23 19:53	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/01/23 19:53	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/01/23 19:53	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/01/23 19:53	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		12/01/23 19:53	17060-07-0		
4-Bromofluorobenzene (S)	99	%	73-122	1		12/01/23 19:53	460-00-4		
Toluene-d8 (S)	98	%	75-122	1		12/01/23 19:53	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.1	Std. Units	0.10	1		12/11/23 11:02			H3,H6, N3

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ANALYTICAL RESULTS

Project: MINMILT MONTHKY 11/30

Pace Project No.: 70279193

Sample: SYS-INF		Lab ID: 70279193002		Collected: 11/30/23 09:40		Received: 11/30/23 09:58		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	5.5	deg C	0.10	1		12/11/23 11:02		H3,H6	

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QUALITY CONTROL DATA

Project: MINMILT MONTHKY 11/30

Pace Project No.: 70279193

QC Batch: 329640

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: 70279193001, 70279193002

METHOD BLANK: 1687681

Matrix: Water

Associated Lab Samples: 70279193001, 70279193002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	12/06/23 12:02	

LABORATORY CONTROL SAMPLE: 1687682

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

MATRIX SPIKE SAMPLE: 1687684

Parameter	Units	70279433004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	5000	4990	99	70-130	

MATRIX SPIKE SAMPLE: 1687686

Parameter	Units	70279433005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	140	5000	4880	95	70-130	

SAMPLE DUPLICATE: 1687683

Parameter	Units	70279433004 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 1687685

Parameter	Units	70279433005 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	140	134	4	

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QUALITY CONTROL DATA

Project: MINMILT MONTHKY 11/30

Pace Project No.: 70279193

QC Batch: 329396

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70279193001, 70279193002

METHOD BLANK: 1685821

Matrix: Water

Associated Lab Samples: 70279193001, 70279193002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/01/23 12:19	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	12/01/23 12:19	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	12/01/23 12:19	IC
1,1-Dichloroethane	ug/L	<1.0	1.0	12/01/23 12:19	
1,1-Dichloroethene	ug/L	<1.0	1.0	12/01/23 12:19	
1,2-Dichloroethane	ug/L	<1.0	1.0	12/01/23 12:19	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	12/01/23 12:19	
1,2-Dichloropropane	ug/L	<1.0	1.0	12/01/23 12:19	
2-Butanone (MEK)	ug/L	<5.0	5.0	12/01/23 12:19	
2-Hexanone	ug/L	<5.0	5.0	12/01/23 12:19	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	12/01/23 12:19	
Acetone	ug/L	<5.0	5.0	12/01/23 12:19	IL
Benzene	ug/L	<0.70	0.70	12/01/23 12:19	
Bromodichloromethane	ug/L	<1.0	1.0	12/01/23 12:19	
Bromoform	ug/L	<1.0	1.0	12/01/23 12:19	
Bromomethane	ug/L	<1.0	1.0	12/01/23 12:19	IC,v3
Carbon disulfide	ug/L	<1.0	1.0	12/01/23 12:19	
Carbon tetrachloride	ug/L	<1.0	1.0	12/01/23 12:19	
Chlorobenzene	ug/L	<1.0	1.0	12/01/23 12:19	
Chloroethane	ug/L	<1.0	1.0	12/01/23 12:19	
Chloroform	ug/L	<1.0	1.0	12/01/23 12:19	
Chloromethane	ug/L	<1.0	1.0	12/01/23 12:19	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	12/01/23 12:19	
Dibromochloromethane	ug/L	<1.0	1.0	12/01/23 12:19	
Ethylbenzene	ug/L	<1.0	1.0	12/01/23 12:19	
Methylene Chloride	ug/L	<1.0	1.0	12/01/23 12:19	
Styrene	ug/L	<1.0	1.0	12/01/23 12:19	
Tetrachloroethene	ug/L	<1.0	1.0	12/01/23 12:19	
Toluene	ug/L	<1.0	1.0	12/01/23 12:19	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	12/01/23 12:19	
Trichloroethene	ug/L	<1.0	1.0	12/01/23 12:19	
Vinyl chloride	ug/L	<1.0	1.0	12/01/23 12:19	
Xylene (Total)	ug/L	<3.0	3.0	12/01/23 12:19	
1,2-Dichloroethane-d4 (S)	%	99	80-120	12/01/23 12:19	
4-Bromofluorobenzene (S)	%	102	73-122	12/01/23 12:19	
Toluene-d8 (S)	%	99	75-122	12/01/23 12:19	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT MONTHKY 11/30

Pace Project No.: 70279193

LABORATORY CONTROL SAMPLE: 1685822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.4	103	66-121	
1,1,2,2-Tetrachloroethane	ug/L	50	47.5	95	75-119	
1,1,2-Trichloroethane	ug/L	50	50.0	100	81-120	IC
1,1-Dichloroethane	ug/L	50	47.4	95	61-127	
1,1-Dichloroethene	ug/L	50	49.9	100	51-133	
1,2-Dichloroethane	ug/L	50	44.4	89	70-127	
1,2-Dichloroethene (Total)	ug/L	100	96.3	96	67-134	
1,2-Dichloropropane	ug/L	50	47.6	95	73-121	
2-Butanone (MEK)	ug/L	50	50.3	101	46-183	
2-Hexanone	ug/L	50	42.9	86	53-145	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.7	91	64-131	
Acetone	ug/L	50	36.7	73	21-195	IL
Benzene	ug/L	50	48.7	97	72-122	
Bromodichloromethane	ug/L	50	50.0	100	79-118	
Bromoform	ug/L	50	55.1	110	61-139	
Bromomethane	ug/L	50	42.8	86	25-144	IC,v3
Carbon disulfide	ug/L	50	49.7	99	50-126	
Carbon tetrachloride	ug/L	50	52.6	105	57-124	
Chlorobenzene	ug/L	50	49.7	99	72-125	
Chloroethane	ug/L	50	50.5	101	51-136	
Chloroform	ug/L	50	48.4	97	69-124	
Chloromethane	ug/L	50	42.6	85	18-160	
cis-1,3-Dichloropropene	ug/L	50	50.6	101	70-127	
Dibromochloromethane	ug/L	50	53.9	108	72-134	
Ethylbenzene	ug/L	50	48.8	98	72-120	
Methylene Chloride	ug/L	50	46.7	93	59-127	
Styrene	ug/L	50	50.4	101	77-128	
Tetrachloroethene	ug/L	50	52.0	104	60-134	
Toluene	ug/L	50	48.8	98	75-120	
trans-1,3-Dichloropropene	ug/L	50	50.6	101	62-136	
Trichloroethene	ug/L	50	52.4	105	74-118	
Vinyl chloride	ug/L	50	51.0	102	39-127	
Xylene (Total)	ug/L	150	147	98	70-121	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			100	73-122	
Toluene-d8 (S)	%			99	75-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1686550 1686551

Parameter	Units	70278983017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	57.3	54.7	115	109	68-134	5	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	46.4	46.6	93	93	64-126	0	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	51.7	49.9	103	100	68-131	4	IC
1,1-Dichloroethane	ug/L	<1.0	50	50	52.1	50.4	104	101	54-145	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT MONTHKY 11/30

Pace Project No.: 70279193

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1686550 1686551											
Parameter	Units	70278983017		MS	MSD	MS		MSD	% Rec	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec		
1,1-Dichloroethene	ug/L	<1.0	50	50	50	54.9	117	110	53-147	6	
1,2-Dichloroethane	ug/L	<1.0	50	50	46.9	44.5	94	89	58-141	5	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	110	103	110	103	57-152	6	
1,2-Dichloropropane	ug/L	<1.0	50	50	50.9	48.4	102	97	64-136	5	
2-Butanone (MEK)	ug/L	<5.0	50	50	48.9	46.7	98	93	23-184	5	
2-Hexanone	ug/L	<5.0	50	50	42.9	40.6	86	81	49-129	5	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	47.2	43.8	94	88	52-141	7	
Acetone	ug/L	<5.0	50	50	34.0	33.1	68	66	20-139	3	IL
Benzene	ug/L	<1.0	50	50	53.8	50.8	108	102	67-139	6	
Bromodichloromethane	ug/L	<1.0	50	50	52.7	51.0	105	102	70-127	3	
Bromoform	ug/L	<1.0	50	50	54.2	53.3	108	107	47-138	2	
Bromomethane	ug/L	<1.0	50	50	50.2	52.1	100	104	10-148	4	IC,v3
Carbon disulfide	ug/L	<1.0	50	50	60.9	53.1	122	106	51-135	14	
Carbon tetrachloride	ug/L	<1.0	50	50	59.3	56.7	119	113	61-136	4	
Chlorobenzene	ug/L	<1.0	50	50	53.2	51.8	106	104	73-130	3	
Chloroethane	ug/L	<1.0	50	50	56.4	53.9	113	108	48-152	4	
Chloroform	ug/L	<1.0	50	50	53.6	51.0	107	102	58-143	5	
Chloromethane	ug/L	<1.0	50	50	50.8	46.3	102	93	17-167	9	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	53.3	51.3	107	103	59-134	4	
Dibromochloromethane	ug/L	<1.0	50	50	54.1	54.3	108	109	65-133	0	
Ethylbenzene	ug/L	<1.0	50	50	53.1	53.0	106	106	63-139	0	
Methylene Chloride	ug/L	<1.0	50	50	52.6	48.4	105	97	47-142	8	
Styrene	ug/L	<1.0	50	50	52.7	51.6	105	103	72-134	2	
Tetrachloroethene	ug/L	<1.0	50	50	56.1	55.1	112	110	64-144	2	
Toluene	ug/L	<1.0	50	50	54.0	51.7	108	103	72-136	4	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	50.8	49.2	102	98	53-139	3	
Trichloroethene	ug/L	<1.0	50	50	57.2	53.0	114	106	76-130	8	
Vinyl chloride	ug/L	<1.0	50	50	58.9	54.7	118	109	43-135	7	
Xylene (Total)	ug/L	<3.0	150	150	159	155	106	103	63-136	2	
1,2-Dichloroethane-d4 (S)	%						98	94	80-120		
4-Bromofluorobenzene (S)	%						102	103	73-122		
Toluene-d8 (S)	%						101	100	75-122		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT MONTHKY 11/30

Pace Project No.: 70279193

QC Batch: 330318

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: 70279193001, 70279193002

SAMPLE DUPLICATE: 1691765

Parameter	Units	70278704002 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.0	6.9	1	H3,H6,N3
Temperature, Water (C)	deg C	7.8	7.8	0	H3,H6

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QUALIFIERS

Project: MINMILT MONTHKY 11/30

Pace Project No.: 70279193

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.

BATCH QUALIFIERS

Batch: 329675

- [1] The post digestion spike for sample 70279433004 (PDS 1687818) did not meet acceptance criteria for Silver and Sodium.
- [2] The serial dilution for sample 70279433004 (SD 1687819) did not meet acceptance criteria for Boron, Copper, Iron, Molybdenum, Nickel and Zinc.
- [3] The post digestion spike for sample 70279433005 (PDS 1687820) did not meet acceptance criteria for Silver and Sodium.
- [4] The serial dilution for sample 70279433005 (SD 1687821) did not meet acceptance criteria for Boron, Copper, Molybdenum, Nickel and Zinc.

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.
- IC The initial calibration for this compound was outside of method control limits. The result is estimated.
- IL This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
- 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 MONTHKY 11/30

Pace Project No.: 70279193

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70279193001	SYS-EFF	EPA 200.7	329640	EPA 200.7	329675
70279193002	SYS-INF	EPA 200.7	329640	EPA 200.7	329675
70279193001	SYS-EFF	EPA 8260C/5030C	329396		
70279193002	SYS-INF	EPA 8260C/5030C	329396		
70279193001	SYS-EFF	SM22 4500-H+B	330318		
70279193002	SYS-INF	SM22 4500-H+B	330318		

REPORT OF LABORATORY ANALYSIS

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Effective Date: 10/13/2023

WO#: 70279193

Client Name:

DHB

Project #

PM: DHB**Due Date: 12/14/23**Courier: ☐ Fed Ex ☐ UPS ☒ USPS ☐ Client ☐ Commercial ☐ Pack ☐ Other**CLIENT: PWG**

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☐ None ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ NoneThermometer Used: **TH211** Correction Factor: **+0.4** ☐ Samples on ice, cooling process has begunCooler Temperature(°C): **1.3** Cooler Temperature Corrected(°C): **1.7** Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)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 ☒ NoDid samples originate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

wk 11/30/23

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No	6.
Rush Turn Around Time Requested: ☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	10.
Containers Intact: ☒ Yes ☐ No	11.
Filtered volume received for Dissolved tests: ☒ Yes ☐ No ☐ N/A	Note: if sediment is visible in the dissolved container,
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	

Date and Initials of person checking preservation:

wk 11/30/23

All containers needing preservation have been ☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # HL208072	Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	
Per Method, VOA pH is checked after analysis	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added:
KI starch test strips Lot #	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #	15. Positive for Sulfide? Y N
SM 4500 CN samples checked for sul ☒ Yes ☐ No ☐ N/A	16.
Lead Acetate Strips Lot #	17.
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A	
Trip Blank Present: ☐ Yes ☐ No ☒ N/A	
Trip Blank Custody Seals Present: ☐ Yes ☐ No ☒ N/A	

DATE AND INITIALS OF PERSON COMPLETING SECOND REVIEW:

wk 11/30/23

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

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

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)

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)

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)

PCE: 919 ppb (58.5%)
TCE: 90.3 ppb (5.7%)
1,2-DCE: 552 ppb (35.1%)

October 20, 2022 - TVOC: 1,721 ppb (759 Days since injections)

PCE: 1,110 ppb (64.5%)
TCE: 76.9 ppb (4.5%)
1,2-DCE: 522 ppb (30.3%)

November 21, 2022 - TVOC: 1,985 ppb (791 Days since injections)

PCE: 751 ppb (37.8%)
TCE: 180 ppb (9.1%)
1,2-DCE: 934 ppb (47.1%)

December 9, 2022 - TVOC: 1,726 ppb (809 Days since injections)

PCE: 920 ppb (53.3%)
TCE: 164 ppb (9.5%)
1,2-DCE: 623 ppb (36.1%)

January 24, 2023 - TVOC: 1,802 ppb (855 Days since injections)

PCE: 1,010 ppb (56%)
TCE: 59.7 ppb (3.3%)
1,2-DCE: 670 ppb (37.2%)

February 10, 2023 - TVOC: 1,525 ppb (872 Days since injections)

PCE: 704 ppb (46.2%)
TCE: 97.9 ppb (6.4%)
1,2-DCE: 696 ppb (45.6%)

March 22, 2023 - TVOC: 1,282 ppb (912 Days since injections)

PCE: 728 ppb (56.8%)
TCE: 56.1 ppb (4.4%)
1,2-DCE: 473 ppb (36.9%)
VC: 24.5 ppb (1.9%)

April 24, 2023 - TVOC: 1,363 ppb (945 Days since injections)

PCE: 766 ppb (56.2%)
TCE: 56 ppb (4.1%)
1,2-DCE: 510 ppb (37.4%)
VC: 29.6 ppb (2.2%)

May 24, 2023 - TVOC: 710 ppb (982 Days since injections)

PCE: 292 ppb (41.1%)
TCE: 30 ppb (4.2%)
1,2-DCE: 366 ppb (51.5%)
VC: 23 ppb (3.2%)

September 27, 2023 - TVOC: 1,650 ppb (1,110 Days since injections)

PCE: 786 ppb (47.6%)
TCE: 69.7 ppb (4.2%)
1,2-DCE: 752 ppb (45.6%)
VC: 39.5 ppb (3%)

October 8, 2023 - TVOC: 1,330 ppb (1,121 Days since injections)

PCE: 665 ppb (50%)
TCE: 51.8 ppb (3.9%)
1,2-DCE: 577 ppb (43.4%)
VC: 36 ppb (2.7%)

November 30, 2023 - TVOC: 1,867 ppb (1,174 Days since injections)

PCE: 728 ppb (39%)
TCE: 163 ppb (8.7%)
1,2-DCE: 928 ppb (49.7%)
VC: 46.7 ppb (2.5%)

December 20, 2023 - TVOC: 1,694 ppb (1,194 Days since injections)

PCE: 983 ppb (58%)
TCE: 94.6 ppb (5.6%)
1,2-DCE: 579 ppb (34.2%)
VC: 35.9 ppb (2.1%)

APPENDIX D



Manmilt
CLEAR FLO TECHNOLOGIES, INC.
1110 Rte. 109
N. Lindenhurst, N.Y. 11757
Tel: (631) 956-7600
Fax: (631) 956-7020

8840

MANIFEST NUMBER		
Part 1	Part 2	Part 3
11/8/23	205 PM	
Date of Pick-Up (Use 2 Digit Numbers) Example 040103	Time of Pick-Up (Military Time)	Chronological Number /Also Used as Sample # (Assigned at Clear Flo- Receiving Station)

LIQUID WASTE DISCHARGE MANIFEST

1. WASTEWATER STREAM IDENTIFICATION (Sections 1A, 1B, & 1C must be completed by generator or hauler)

A. Volume:	Gallons: 4000	Wt. In:		Wt. Out:	
B. Type:	☐ Condensate Water	☐ Decant Grease	☐ Grease	☐ Industrial Rinse	☐ Leachate
	☐ Leachate Pool	☐ Pharmaceutical	☐ Septic/Septage	☐ Sludge	☐ Storm Water
	☐ STP Effluent	☐ Transfer Leachate	Other:		
C. Source	☐ Home/Apt.	☐ Office/Commercial	☐ Municipal	☐ Industrial	☐ Other

Description of Other and special handling instructions, if any

2. GENERATOR OF WASTEWATER (Sections 2A, 2B, & 2C must be completed by generator or hauler)

A. Complete Name (print or type): *NYSDEC / minimilt site (1-52-147)* B. Tel. No: _____

C. Complete Pickup Address: *540 Smith Street, E. Farmingdale, NY 11735*

**ALL WASTEWATERS ARE SUBJECT TO THE TERMS AND
CONDITIONS CONTAINED IN THE DISCHARGE PERMIT**

The undersigned, being duly authorized, does hereby certify to the best of their knowledge to the accuracy of the source and type of wastewater identified and subject to this manifest. **SECTION D GENERATOR SIGNATURE REQUIRED**

D. Signature of Generator or Agent: *[Signature]* Date: *11/8/23*

3. HAULER OF LIQUID WASTE (Sections 3A, 3B, 3C, 3D and 3E must be completed by hauler)

A. Company name (print or type): *Eastern Env Solutions*
B. SCDPW Permit No.: *33688* C. Vehicle License No.: *62373* D. Pump Out Date: *11/8/23*
E. NYS DEC Permit No.: _____

The above described liquid waste was picked up and hauled by me to the disposal facility named below and was discharged. I certify under penalty of perjury that the foregoing is true and correct.

F. Signature of authorized agent and title: *[Signature]*

4. ACCEPTANCE BY CLEAR FLO TECHNOLOGIES, INC. (must be completed by disposer)

The above hauler delivered the described wastewater to the disposal facility and it was accepted.

Disposal Date: _____ Sample ID No.: _____

Signature of authorized agent and title: _____

PINK-GENERATOR YELLOW-TRANSPORTER WHITE DISPOSAL FACILITY GOLD-FILE

APPENDIX E



January 06, 2023

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

RE: Project: MINMILT/MIN1001
Pace Project No.: 70240888

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on December 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.

ANALYSIS REQUESTED

Requested Turnaround Time	
7-Day ☐	10-Day ☐
Due Date: <i>Standard</i>	
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 #: _____	

ANALYTICAL LABORATORY

Fax: 413-525-6405
Email: info@contestlabs.com

Company Name: PW Grosser Consulting
Address: 630 Johnson Ave, Borenia, NY
Phone: 631-589-6353
Project Name: min/MH / MIN1001
Project Location: 540 Smith St, Farmingdale, NY
Project Number: MIN1001
Project Manager: Kaitlyn Crosby
Con-Test Quote Number:
Invoice Recipient: Same as Client
Sampled By: Kaitlyn Crosby

[illegible]

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:	
Relinquished by: (signature)	12-21-22 1125	MA	MA MCP Required	SG = SOIL GAS IA = INDOOR AIR AMB = AMBIENT SS = SUB SLAB D = DUP BL = BLANK O = Other	
Received by: (signature)	12-21-22 1125		MCP Certification Form Required	 www.contestlabs.com	
Relinquished by: (signature)		CT	CT RCP Required		
Received by: (signature)		Other:	Other		
Relinquished by: (signature)		NEIAC and AIHA-LAP, LLC Accredited		PCB ONLY	
Received by: (signature)		Project Entity		Other	
		☐ Government ☐ Federal ☐ City	☐ Municipality ☐ 21 J ☐ Brownfield	☐ MWRA ☐ School ☐ MBTA	☐ Chromatogram ☐ AIHA-LAP, LLC
Relinquished by: (signature)				Soxhlet	
Received by: (signature)				Non Soxhlet	



Sample Condition Upon Re

WO#: 70240888

Client Name:

PWG

Proj

PM: GFD

Due Date: 01/06/23

CLIENT: PWG

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No ☒ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: T/H148

Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature (°C):

Cooler Temperature Corrected (°C):

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 12/1/23

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 ☐ NoDid 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:	☐ Yes	☐ No		1.
Chain of Custody Filled Out:	☐ Yes	☐ No		2.
Chain of Custody Relinquished:	☐ Yes	☐ No		3.
Sampler Name & Signature on COC:	☐ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☐ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume: (Triple volume provided for)	☒ Yes	☐ No		8.
Correct Containers Used:	☒ Yes	☐ No		9.
-Pace Containers Used:	☒ Yes	☐ No		
Containers Intact:	☒ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL WT OIL <u>HR</u>				
All containers needing preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with method recommendation?				Sample #
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				
Per Method, VOA pH is checked after analysis				Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination:	☒ Yes	☐ No	☒ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☒ N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☒ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☒ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

January 6, 2023

Giovanna Deloca
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: MINMILT/MIN1001
Client Job Number:
Project Number: 70240888
Laboratory Work Order Number: 22L3665

Enclosed are results of analyses for samples as received by the laboratory on December 28, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
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: Giovanna Deloca

REPORT DATE: 1/6/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70240888

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22L3665

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

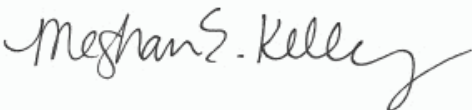
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE-INF	22L3665-01	Soil Gas		EPA TO-15	

CASE NARRATIVE SUMMARY

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

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.



Meghan E. Kelley
Reporting Specialist

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

ANALYTICAL RESULTS

Project Location: MINMILT/MIN1001
Date Received: 12/28/2022
Field Sample #: SVE-INF
Sample ID: 22L3665-01
Sample Matrix: Soil Gas
Sampled: 12/21/2022 10:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2751
Canister Size: 3 liter
Flow Controller ID: 4717
Sample Type: 15 min

Work Order: 22L3665
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -1.4
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	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	ND	8.0		ND	19	4	1/6/23 2:50	CMR
Benzene	ND	0.20		ND	0.64	4	1/6/23 2:50	CMR
Benzyl chloride	ND	0.20		ND	1.0	4	1/6/23 2:50	CMR
Bromodichloromethane	ND	0.20		ND	1.3	4	1/6/23 2:50	CMR
Bromoform	ND	0.20		ND	2.1	4	1/6/23 2:50	CMR
Bromomethane	ND	0.20		ND	0.78	4	1/6/23 2:50	CMR
1,3-Butadiene	ND	0.20		ND	0.44	4	1/6/23 2:50	CMR
2-Butanone (MEK)	ND	8.0		ND	24	4	1/6/23 2:50	CMR
Carbon Disulfide	ND	2.0		ND	6.2	4	1/6/23 2:50	CMR
Carbon Tetrachloride	ND	0.20		ND	1.3	4	1/6/23 2:50	CMR
Chlorobenzene	ND	0.20		ND	0.92	4	1/6/23 2:50	CMR
Chloroethane	0.26	0.20		0.68	0.53	4	1/6/23 2:50	CMR
Chloroform	0.48	0.20		2.3	0.98	4	1/6/23 2:50	CMR
Chloromethane	ND	0.40		ND	0.83	4	1/6/23 2:50	CMR
Cyclohexane	ND	0.20		ND	0.69	4	1/6/23 2:50	CMR
Dibromochloromethane	ND	0.20		ND	1.7	4	1/6/23 2:50	CMR
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	1/6/23 2:50	CMR
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	1/6/23 2:50	CMR
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	1/6/23 2:50	CMR
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	1/6/23 2:50	CMR
Dichlorodifluoromethane (Freon 12)	1.4	0.20		7.1	0.99	4	1/6/23 2:50	CMR
1,1-Dichloroethane	8.2	0.20		33	0.81	4	1/6/23 2:50	CMR
1,2-Dichloroethane	ND	0.20		ND	0.81	4	1/6/23 2:50	CMR
1,1-Dichloroethylene	0.30	0.20		1.2	0.79	4	1/6/23 2:50	CMR
cis-1,2-Dichloroethylene	140	0.20		550	0.79	4	1/6/23 2:50	CMR
trans-1,2-Dichloroethylene	2.0	0.20		8.1	0.79	4	1/6/23 2:50	CMR
1,2-Dichloropropane	0.46	0.20		2.1	0.92	4	1/6/23 2:50	CMR
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	1/6/23 2:50	CMR
trans-1,3-Dichloropropene	ND	0.20		ND	0.91	4	1/6/23 2:50	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20		ND	1.4	4	1/6/23 2:50	CMR
1,4-Dioxane	ND	2.0		ND	7.2	4	1/6/23 2:50	CMR
Ethanol	ND	8.0		ND	15	4	1/6/23 2:50	CMR
Ethyl Acetate	ND	2.0		ND	7.2	4	1/6/23 2:50	CMR
Ethylbenzene	ND	0.20		ND	0.87	4	1/6/23 2:50	CMR
4-Ethyltoluene	ND	0.20		ND	0.98	4	1/6/23 2:50	CMR
Heptane	ND	0.20		ND	0.82	4	1/6/23 2:50	CMR
Hexachlorobutadiene	ND	0.20		ND	2.1	4	1/6/23 2:50	CMR

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

ANALYTICAL RESULTS

Project Location: MINMILT/MIN1001
Date Received: 12/28/2022
Field Sample #: SVE-INF
Sample ID: 22L3665-01
Sample Matrix: Soil Gas
Sampled: 12/21/2022 10:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2751
Canister Size: 3 liter
Flow Controller ID: 4717
Sample Type: 15 min

Work Order: 22L3665
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -1.4
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	1/6/23	2:50	CMR
2-Hexanone (MBK)	ND	0.20		ND	0.82	4	1/6/23	2:50	CMR
Isopropanol	ND	8.0		ND	20	4	1/6/23	2:50	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	1/6/23	2:50	CMR
Methylene Chloride	ND	2.0		ND	6.9	4	1/6/23	2:50	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.20		ND	0.82	4	1/6/23	2:50	CMR
Naphthalene	ND	0.20		ND	1.0	4	1/6/23	2:50	CMR
Propene	ND	8.0		ND	14	4	1/6/23	2:50	CMR
Styrene	ND	0.20		ND	0.85	4	1/6/23	2:50	CMR
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	1/6/23	2:50	CMR
Tetrachloroethylene	180	0.20		1200	1.4	4	1/6/23	2:50	CMR
Tetrahydrofuran	ND	2.0		ND	5.9	4	1/6/23	2:50	CMR
Toluene	ND	0.20		ND	0.75	4	1/6/23	2:50	CMR
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	4	1/6/23	2:50	CMR
1,1,1-Trichloroethane	1.3	0.20		7.4	1.1	4	1/6/23	2:50	CMR
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	1/6/23	2:50	CMR
Trichloroethylene	16	0.20		85	1.1	4	1/6/23	2:50	CMR
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	1/6/23	2:50	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	1/6/23	2:50	CMR
1,2,4-Trimethylbenzene	ND	0.20		ND	0.98	4	1/6/23	2:50	CMR
1,3,5-Trimethylbenzene	ND	0.20		ND	0.98	4	1/6/23	2:50	CMR
Vinyl Acetate	ND	4.0		ND	14	4	1/6/23	2:50	CMR
Vinyl Chloride	ND	0.20		ND	0.51	4	1/6/23	2:50	CMR
m&p-Xylene	ND	0.40		ND	1.7	4	1/6/23	2:50	CMR
o-Xylene	ND	0.20		ND	0.87	4	1/6/23	2:50	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	112	70-130	1/6/23 2:50

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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
22L3665-01 [SVE-INF]	B327886	1.5	1	N/A	1000	400	150	01/05/23

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	%REC	Limits	RPD	Limit	

Batch B327886 - TO-15 Prep

Blank (B327886-BLK1)						Prepared & Analyzed: 01/05/23					
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									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.35									
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									
Isopropanol	ND	1.4									
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									
Propene	ND	1.4									
Styrene	ND	0.035									

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	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B327886 - TO-15 Prep
Blank (B327886-BLK1)

Prepared & Analyzed: 01/05/23

1,1,2,2-Tetrachloroethane	ND	0.035
Tetrachloroethylene	ND	0.035
Tetrahydrofuran	ND	0.35
Toluene	ND	0.035
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>	<i>8.88</i>	<i>8.00</i>	<i>111</i>	<i>70-130</i>
--	-------------	-------------	------------	---------------

LCS (B327886-BS1)

Prepared & Analyzed: 01/05/23

Acetone	5.45	5.00	109	70-130
Benzene	4.61	5.00	92.3	70-130
Benzyl chloride	5.08	5.00	102	70-130
Bromodichloromethane	4.50	5.00	90.1	70-130
Bromoform	5.44	5.00	109	70-130
Bromomethane	5.88	5.00	118	70-130
1,3-Butadiene	5.53	5.00	111	70-130
2-Butanone (MEK)	4.65	5.00	93.0	70-130
Carbon Disulfide	4.96	5.00	99.1	70-130
Carbon Tetrachloride	4.64	5.00	92.8	70-130
Chlorobenzene	4.66	5.00	93.3	70-130
Chloroethane	5.95	5.00	119	70-130
Chloroform	5.07	5.00	101	70-130
Chloromethane	5.12	5.00	102	70-130
Cyclohexane	4.69	5.00	93.8	70-130
Dibromochloromethane	4.91	5.00	98.1	70-130
1,2-Dibromoethane (EDB)	4.60	5.00	91.9	70-130
1,2-Dichlorobenzene	5.37	5.00	107	70-130
1,3-Dichlorobenzene	5.56	5.00	111	70-130
1,4-Dichlorobenzene	5.56	5.00	111	70-130
Dichlorodifluoromethane (Freon 12)	5.22	5.00	104	70-130
1,1-Dichloroethane	5.00	5.00	99.9	70-130
1,2-Dichloroethane	5.24	5.00	105	70-130
1,1-Dichloroethylene	5.58	5.00	112	70-130
cis-1,2-Dichloroethylene	5.03	5.00	101	70-130
trans-1,2-Dichloroethylene	4.97	5.00	99.5	70-130
1,2-Dichloropropane	4.55	5.00	91.0	70-130

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	%REC	Limits	RPD	Limit	
Batch B327886 - TO-15 Prep											
LCS (B327886-BS1)					Prepared & Analyzed: 01/05/23						
cis-1,3-Dichloropropene	4.56				5.00		91.2	70-130			
trans-1,3-Dichloropropene	4.66				5.00		93.1	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.44				5.00		109	70-130			
1,4-Dioxane	4.51				5.00		90.1	70-130			
Ethanol	4.22				5.00		84.5	70-130			
Ethyl Acetate	4.97				5.00		99.4	70-130			
Ethylbenzene	4.88				5.00		97.6	70-130			
4-Ethyltoluene	5.29				5.00		106	70-130			
Heptane	4.83				5.00		96.5	70-130			
Hexachlorobutadiene	4.77				5.00		95.5	70-130			
Hexane	5.33				5.00		107	70-130			
2-Hexanone (MBK)	4.43				5.00		88.6	70-130			
Isopropanol	4.46				5.00		89.2	70-130			
Methyl tert-Butyl Ether (MTBE)	4.91				5.00		98.2	70-130			
Methylene Chloride	4.46				5.00		89.2	70-130			
4-Methyl-2-pentanone (MIBK)	4.48				5.00		89.5	70-130			
Naphthalene	5.31				5.00		106	70-130			
Propene	3.75				5.00		74.9	70-130			
Styrene	5.26				5.00		105	70-130			
1,1,2,2-Tetrachloroethane	4.56				5.00		91.2	70-130			
Tetrachloroethylene	4.90				5.00		98.1	70-130			
Tetrahydrofuran	5.06				5.00		101	70-130			
Toluene	4.68				5.00		93.7	70-130			
1,2,4-Trichlorobenzene	4.78				5.00		95.7	70-130			
1,1,1-Trichloroethane	4.39				5.00		87.8	70-130			
1,1,2-Trichloroethane	4.39				5.00		87.7	70-130			
Trichloroethylene	4.70				5.00		93.9	70-130			
Trichlorofluoromethane (Freon 11)	5.96				5.00		119	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.98				5.00		99.6	70-130			
1,2,4-Trimethylbenzene	5.31				5.00		106	70-130			
1,3,5-Trimethylbenzene	5.35				5.00		107	70-130			
Vinyl Acetate	3.94				5.00		78.7	70-130			
Vinyl Chloride	5.92				5.00		118	70-130			
m&p-Xylene	10.2				10.0		102	70-130			
o-Xylene	5.23				5.00		105	70-130			
Surrogate: 4-Bromofluorobenzene (1)	9.31				8.00		116	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	%REC	Limits	RPD	Limit	
Batch B327886 - TO-15 Prep											
Duplicate (B327886-DUP1)		Source: 22L3665-01			Prepared: 01/05/23 Analyzed: 01/06/23						
Acetone	ND	8.0	ND	19		ND				25	
Benzene	ND	0.20	ND	0.64		ND				25	
Benzyl chloride	ND	0.20	ND	1.0		ND				25	
Bromodichloromethane	ND	0.20	ND	1.3		ND				25	
Bromoform	ND	0.20	ND	2.1		ND				25	
Bromomethane	ND	0.20	ND	0.78		ND				25	
1,3-Butadiene	ND	0.20	ND	0.44		ND				25	
2-Butanone (MEK)	ND	8.0	ND	24		ND				25	
Carbon Disulfide	0.20	2.0	0.61	6.2		0.19			4.17	25	
Carbon Tetrachloride	ND	0.20	ND	1.3		ND				25	
Chlorobenzene	ND	0.20	ND	0.92		ND				25	
Chloroethane	0.27	0.20	0.71	0.53		0.26			4.58	25	
Chloroform	0.51	0.20	2.5	0.98		0.48			6.45	25	
Chloromethane	0.34	0.40	0.71	0.83		0.33			4.76	25	
Cyclohexane	ND	0.20	ND	0.69		ND				25	
Dibromochloromethane	ND	0.20	ND	1.7		ND				25	
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5		ND				25	
1,2-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
1,3-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
1,4-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
Dichlorodifluoromethane (Freon 12)	1.5	0.20	7.5	0.99		1.4			6.24	25	
1,1-Dichloroethane	8.6	0.20	35	0.81		8.2			4.14	25	
1,2-Dichloroethane	ND	0.20	ND	0.81		ND				25	
1,1-Dichloroethylene	0.31	0.20	1.2	0.79		0.30			5.26	25	
cis-1,2-Dichloroethylene	140	0.20	550	0.79		140			0.232	25	
trans-1,2-Dichloroethylene	2.1	0.20	8.5	0.79		2.0			4.39	25	
1,2-Dichloropropane	0.46	0.20	2.1	0.92		0.46			0.873	25	
cis-1,3-Dichloropropene	ND	0.20	ND	0.91		ND				25	
trans-1,3-Dichloropropene	ND	0.20	ND	0.91		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	ND	1.4		ND				25	
1,4-Dioxane	ND	2.0	ND	7.2		ND				25	
Ethanol	ND	8.0	ND	15		ND				25	
Ethyl Acetate	ND	2.0	ND	7.2		ND				25	
Ethylbenzene	ND	0.20	ND	0.87		ND				25	
4-Ethyltoluene	ND	0.20	ND	0.98		ND				25	
Heptane	ND	0.20	ND	0.82		ND				25	
Hexachlorobutadiene	ND	0.20	ND	2.1		ND				25	
Hexane	ND	8.0	ND	28		ND				25	
2-Hexanone (MBK)	ND	0.20	ND	0.82		ND				25	
Isopropanol	2.9	8.0	7.1	20		3.0			5.25	25	
Methyl tert-Butyl Ether (MTBE)	ND	0.20	ND	0.72		ND				25	
Methylene Chloride	ND	2.0	ND	6.9		ND				25	
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82		ND				25	
Naphthalene	ND	0.20	ND	1.0		ND				25	
Propene	ND	8.0	ND	14		ND				25	
Styrene	ND	0.20	ND	0.85		ND				25	

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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	%REC	Limits	RPD	Limit	
Batch B327886 - TO-15 Prep											
Duplicate (B327886-DUP1)	Source: 22L3665-01				Prepared: 01/05/23 Analyzed: 01/06/23						
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4		ND				25	
Tetrachloroethylene	170	0.20	1200	1.4		180			3.85	25	
Tetrahydrofuran	ND	2.0	ND	5.9		ND				25	
Toluene	ND	0.20	ND	0.75		ND				25	
1,2,4-Trichlorobenzene	ND	0.20	ND	1.5		ND				25	
1,1,1-Trichloroethane	1.4	0.20	7.4	1.1		1.3			0.296	25	
1,1,2-Trichloroethane	ND	0.20	ND	1.1		ND				25	
Trichloroethylene	16	0.20	85	1.1		16			0.455	25	
Trichlorofluoromethane (Freon 11)	0.60	0.80	3.4	4.5		0.64			6.45	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	ND	6.1		ND				25	
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98		ND				25	
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98		ND				25	
Vinyl Acetate	ND	4.0	ND	14		ND				25	
Vinyl Chloride	ND	0.20	ND	0.51		ND				25	
m&p-Xylene	ND	0.40	ND	1.7		ND				25	
o-Xylene	ND	0.20	ND	0.87		ND				25	
Surrogate: 4-Bromofluorobenzene (1)	9.11				8.00		114	70-130			

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

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.	

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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
Initial Cal Check (S076501-ICV1)			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1123386	8.307	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2650535	10.081	104	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2407851	14.446	103	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
Calibration Check (S081599-CCV1)			Lab File ID: G23A005004.D			Analyzed: 01/05/23 13:28			
Bromochloromethane (1)	829238	8.307	1123386	8.307	74	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2112866	10.075	2650535	10.081	80	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1925458	14.44	2407851	14.446	80	60 - 140	-0.0060	+/-0.50	
LCS (B327886-BS1)			Lab File ID: G23A005005.D			Analyzed: 01/05/23 14:07			
Bromochloromethane (1)	848023	8.307	829238	8.307	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2197412	10.081	2112866	10.075	104	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2060825	14.446	1925458	14.44	107	60 - 140	0.0060	+/-0.50	
Blank (B327886-BLK1)			Lab File ID: G23A005008.D			Analyzed: 01/05/23 16:15			
Bromochloromethane (1)	824376	8.313	829238	8.307	99	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2115479	10.081	2112866	10.075	100	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1975253	14.446	1925458	14.44	103	60 - 140	0.0060	+/-0.50	
SVE-INF (22L3665-01)			Lab File ID: G23A005022.D			Analyzed: 01/06/23 02:50			
Bromochloromethane (1)	812409	8.307	829238	8.307	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2051537	10.075	2112866	10.075	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1934472	14.44	1925458	14.44	100	60 - 140	0.0000	+/-0.50	
Duplicate (B327886-DUP1)			Lab File ID: G23A005023.D			Analyzed: 01/06/23 03:30			
Bromochloromethane (1)	909782	8.307	829238	8.307	110	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2436221	10.075	2112866	10.075	115	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2241982	14.44	1925458	14.44	116	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S081599-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.21	1.084004	1.130007		4.2	30
Benzene	A	5.00	4.21	0.9129288	0.7692376		-15.7	30
Benzyl chloride	A	5.00	4.96	1.030942	1.021777		-0.9	30
Bromodichloromethane	A	5.00	4.19	0.6953811	0.5832752		-16.1	30
Bromoform	A	5.00	5.13	0.5656468	0.5804342		2.6	30
Bromomethane	A	5.00	5.45	0.6009459	0.654793		9.0	30
1,3-Butadiene	A	5.00	5.28	0.5443004	0.5743663		5.5	30
2-Butanone (MEK)	A	5.00	4.27	1.507683	1.286341		-14.7	30
Carbon Disulfide	A	5.00	4.41	2.02748	1.788943		-11.8	30
Carbon Tetrachloride	A	5.00	4.36	0.5479998	0.4775981		-12.8	30
Chlorobenzene	A	5.00	4.46	0.8809329	0.7852694		-10.9	30
Chloroethane	A	5.00	5.28	0.3452967	0.364622		5.6	30
Chloroform	A	5.00	4.51	1.561184	1.4084		-9.8	30
Chloromethane	A	5.00	5.03	0.6821899	0.6862628		0.6	30
Cyclohexane	A	5.00	4.26	0.3600845	0.3068605		-14.8	30
Dibromochloromethane	A	5.00	4.68	0.6396581	0.5991451		-6.3	30
1,2-Dibromoethane (EDB)	A	5.00	4.41	0.6171207	0.544768		-11.7	30
1,2-Dichlorobenzene	A	5.00	5.09	0.6937094	0.7057222		1.7	30
1,3-Dichlorobenzene	A	5.00	5.41	0.7409581	0.8013204		8.1	30
1,4-Dichlorobenzene	A	5.00	5.38	0.7218155	0.7772763		7.7	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.11	1.62808	1.663906		2.2	30
1,1-Dichloroethane	A	5.00	4.43	1.342742	1.190566		-11.3	30
1,2-Dichloroethane	A	5.00	4.68	0.9627523	0.9011917		-6.4	30
1,1-Dichloroethylene	A	5.00	5.06	1.140142	1.153448		1.2	30
cis-1,2-Dichloroethylene	A	5.00	4.52	0.9670963	0.8739127		-9.6	30
trans-1,2-Dichloroethylene	A	5.00	4.53	1.001825	0.9071326		-9.5	30
1,2-Dichloropropane	A	5.00	4.13	0.3567989	0.2947405		-17.4	30
cis-1,3-Dichloropropene	A	5.00	4.30	0.5092852	0.4381567		-14.0	30
trans-1,3-Dichloropropene	A	5.00	4.24	0.4570981	0.3879205		-15.1	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.35	1.73998	1.86295		7.1	30
1,4-Dioxane	A	5.00	4.22	0.1857641	0.1566312		-15.7	30
Ethanol	A	5.00	4.23	0.2343264	0.1982041		-15.4	30
Ethyl Acetate	A	5.00	4.80	0.2308163	0.2215721		-4.0	30
Ethylbenzene	A	5.00	4.70	1.455024	1.367439		-6.0	30
4-Ethyltoluene	A	5.00	5.13	1.413771	1.450871		2.6	30
Heptane	A	5.00	4.40	0.2850308	0.2508335		-12.0	30
Hexachlorobutadiene	A	5.00	4.76	0.4677459	0.4457944		-4.7	30
Hexane	A	5.00	4.83	0.8985394	0.8152776		-3.4	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S081599-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.30	0.7712864	0.6633161		-14.0	30
Isopropanol	A	5.00	5.01	1.338902	1.342194		0.2	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.54	1.834723	1.665834		-9.2	30
Methylene Chloride	A	5.00	4.13	0.9597215	0.7931465		-17.4	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.23	0.7726854	0.6543635		-15.3	30
Naphthalene	A	5.00	4.90	1.092246	1.070604		-2.0	30
Propene	A	5.00	3.58	0.5941328	0.4249009		-28.5	30
Styrene	A	5.00	5.06	0.7890752	0.7985217		1.2	30
1,1,2,2-Tetrachloroethane	A	5.00	4.54	0.9851261	0.8944307		-9.2	30
Tetrachloroethylene	A	5.00	4.61	0.457194	0.421791		-7.7	30
Tetrahydrofuran	A	5.00	4.46	0.2957092	0.2639821		-10.7	30
Toluene	A	5.00	4.41	1.15399	1.017287		-11.8	30
1,2,4-Trichlorobenzene	A	5.00	4.62	0.4973623	0.4594298		-7.6	30
1,1,1-Trichloroethane	A	5.00	4.19	0.5975698	0.5004168		-16.3	30
1,1,2-Trichloroethane	A	5.00	4.10	0.4162703	0.3413688		-18.0	30
Trichloroethylene	A	5.00	4.20	0.3947958	0.3317837		-16.0	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.66	1.463327	1.655455		13.1	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.62	1.432547	1.325184		-7.5	30
1,2,4-Trimethylbenzene	A	5.00	5.15	1.156019	1.190457		3.0	30
1,3,5-Trimethylbenzene	A	5.00	5.20	1.190388	1.236911		3.9	30
Vinyl Acetate	A	5.00	3.85	1.986739	1.53131		-22.9	30
Vinyl Chloride	A	5.00	5.46	0.7142115	0.7793295		9.1	30
m&p-Xylene	A	10.0	9.90	1.129066	1.118296		-1.0	30
o-Xylene	A	5.00	5.04	1.138955	1.14726		0.7	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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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

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

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 - ISO 17025:2017	100033	03/1/2024
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

2263665



State Of Origin: NY

Cert. Needed: ☐ Yes ☐ No

Owner Received Date: 12/21/2022 **Results Requested By:** 1/6/2023

Requested Analysis

Pace New England
39 Spruce St.
East Longmeadow, MA 01028
Phone (413)525-2332

***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.

Page 20 of 22

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SUBMIT



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 PW Grosser Consulting

Received By	<u>CH</u>	Date	<u>12/28/22</u>	Time	<u>10:43</u>
How Were the samples received?	In Cooler	On Ice	No Ice		
	In Box	Ambient	Melted Ice		
Were samples within Temperature Compliance?	Within 2-6°C	By Gun #	Actual Temp -		
	<u>NH</u>	By Blank #	Actual Temp -		
Was Custody Seal In tact?	<u>NH</u>	Were Samples Tampered with?	<u>NH</u>		
Was COC Relinquished?	<u>T</u>	Does Chain Agree With Samples?	<u>T</u>		
Are there any loose caps/valves on any samples?	<u>F</u>				
Is COC in ink/ Legible?	<u>T</u>	Were samples received within holding time?			
Did COC Include all Pertinent Information?	Client?	Analysis?	Sampler Name?		
	Project?	ID's?	Collection Dates/Times?		
Are Sample Labels filled out and legible?					
Are there Rushes?	<u>F</u>	Who was notified?			
Samples are received within holding time?	<u>T</u>				
Proper Media Used?	<u>T</u>	Individually Certified Cans?	<u>F</u>		
Are there Trip Blanks?	<u>F</u>	Is there enough Volume?	<u>T</u>		

Containers:	#	Size	Regulator	Duration	Accessories:			
Summa Cans	1	3 Liter	1	15 min	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/TO-11s					Tedlar			

[illegible]**Comments:**



ANALYTICAL REPORT

Lab Number:	L2335691
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Ryan Morley
Phone:	(631) 589-6353
Project Name:	MINMILT/MIN1001
Project Number:	MIN1001
Report Date:	07/06/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: MINMILT/MIN1001
Project Number: MIN1001

Lab Number: L2335691
Report Date: 07/06/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2335691-01	SVE-INF	SOIL_VAPOR	540 SMITH ST. FARMINGDALE NY	06/21/23 10:00	06/21/23

Project Name: MINMILT/MIN1001
Project Number: MIN1001

Lab Number: L2335691
Report Date: 07/06/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MINMILT/MIN1001**Lab Number:** L2335691**Project Number:** MIN1001**Report Date:** 07/06/23**Case Narrative (continued)**

Volatile Organics in Air

L2335691-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 07/06/23

AIR

Project Name: MINMILT/MIN1001**Lab Number:** L2335691**Project Number:** MIN1001**Report Date:** 07/06/23**SAMPLE RESULTS**

Lab ID: L2335691-01 D
 Client ID: SVE-INF
 Sample Location: 540 SMITH ST. FARMINGDALE NY

Date Collected: 06/21/23 10:00
 Date Received: 06/21/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/04/23 05:37
 Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.920	0.256	--	4.55	1.27	--		1.282
Chloromethane	ND	0.256	--	ND	0.529	--		1.282
Freon-114	ND	0.256	--	ND	1.79	--		1.282
Vinyl chloride	ND	0.256	--	ND	0.654	--		1.282
1,3-Butadiene	ND	0.256	--	ND	0.566	--		1.282
Bromomethane	ND	0.256	--	ND	0.994	--		1.282
Chloroethane	ND	0.256	--	ND	0.676	--		1.282
Ethanol	ND	6.41	--	ND	12.1	--		1.282
Vinyl bromide	ND	0.256	--	ND	1.12	--		1.282
Acetone	9.74	1.28	--	23.1	3.04	--		1.282
Trichlorofluoromethane	0.356	0.256	--	2.00	1.44	--		1.282
Isopropanol	1.91	0.641	--	4.69	1.58	--		1.282
1,1-Dichloroethene	ND	0.256	--	ND	1.01	--		1.282
Tertiary butyl Alcohol	ND	0.641	--	ND	1.94	--		1.282
Methylene chloride	4.87	0.641	--	16.9	2.23	--		1.282
3-Chloropropene	ND	0.256	--	ND	0.801	--		1.282
Carbon disulfide	ND	0.256	--	ND	0.797	--		1.282
Freon-113	ND	0.256	--	ND	1.96	--		1.282
trans-1,2-Dichloroethene	0.350	0.256	--	1.39	1.01	--		1.282
1,1-Dichloroethane	2.36	0.256	--	9.55	1.04	--		1.282
Methyl tert butyl ether	ND	0.256	--	ND	0.923	--		1.282
2-Butanone	ND	0.641	--	ND	1.89	--		1.282
cis-1,2-Dichloroethene	39.0	0.256	--	155	1.01	--		1.282



Project Name: MINMILT/MIN1001**Lab Number:** L2335691**Project Number:** MIN1001**Report Date:** 07/06/23**SAMPLE RESULTS**

Lab ID: L2335691-01 D
 Client ID: SVE-INF
 Sample Location: 540 SMITH ST. FARMINGDALE NY

Date Collected: 06/21/23 10:00
 Date Received: 06/21/23
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.641	--	ND	2.31	--		1.282
Chloroform	0.322	0.256	--	1.57	1.25	--		1.282
Tetrahydrofuran	ND	0.641	--	ND	1.89	--		1.282
1,2-Dichloroethane	0.663	0.256	--	2.68	1.04	--		1.282
n-Hexane	ND	0.256	--	ND	0.902	--		1.282
1,1,1-Trichloroethane	0.701	0.256	--	3.82	1.40	--		1.282
Benzene	ND	0.256	--	ND	0.818	--		1.282
Carbon tetrachloride	ND	0.256	--	ND	1.61	--		1.282
Cyclohexane	ND	0.256	--	ND	0.881	--		1.282
1,2-Dichloropropane	0.644	0.256	--	2.98	1.18	--		1.282
Bromodichloromethane	ND	0.256	--	ND	1.72	--		1.282
1,4-Dioxane	ND	0.256	--	ND	0.923	--		1.282
Trichloroethene	8.17	0.256	--	43.9	1.38	--		1.282
2,2,4-Trimethylpentane	ND	0.256	--	ND	1.20	--		1.282
Heptane	ND	0.256	--	ND	1.05	--		1.282
cis-1,3-Dichloropropene	ND	0.256	--	ND	1.16	--		1.282
4-Methyl-2-pentanone	ND	0.641	--	ND	2.63	--		1.282
trans-1,3-Dichloropropene	ND	0.256	--	ND	1.16	--		1.282
1,1,2-Trichloroethane	ND	0.256	--	ND	1.40	--		1.282
Toluene	ND	0.256	--	ND	0.965	--		1.282
2-Hexanone	ND	0.256	--	ND	1.05	--		1.282
Dibromochloromethane	ND	0.256	--	ND	2.18	--		1.282
1,2-Dibromoethane	ND	0.256	--	ND	1.97	--		1.282
Tetrachloroethene	99.8	0.256	--	677	1.74	--		1.282
Chlorobenzene	ND	0.256	--	ND	1.18	--		1.282
Ethylbenzene	ND	0.256	--	ND	1.11	--		1.282



Project Name: MINMILT/MIN1001**Lab Number:** L2335691**Project Number:** MIN1001**Report Date:** 07/06/23**SAMPLE RESULTS**

Lab ID: L2335691-01 D

Date Collected: 06/21/23 10:00

Client ID: SVE-INF

Date Received: 06/21/23

Sample Location: 540 SMITH ST. FARMINGDALE NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.513	--	ND	2.23	--		1.282
Bromoform	ND	0.256	--	ND	2.65	--		1.282
Styrene	ND	0.256	--	ND	1.09	--		1.282
1,1,2,2-Tetrachloroethane	ND	0.256	--	ND	1.76	--		1.282
o-Xylene	ND	0.256	--	ND	1.11	--		1.282
4-Ethyltoluene	ND	0.256	--	ND	1.26	--		1.282
1,3,5-Trimethylbenzene	ND	0.256	--	ND	1.26	--		1.282
1,2,4-Trimethylbenzene	ND	0.256	--	ND	1.26	--		1.282
Benzyl chloride	ND	0.256	--	ND	1.33	--		1.282
1,3-Dichlorobenzene	ND	0.256	--	ND	1.54	--		1.282
1,4-Dichlorobenzene	ND	0.256	--	ND	1.54	--		1.282
1,2-Dichlorobenzene	ND	0.256	--	ND	1.54	--		1.282
1,2,4-Trichlorobenzene	ND	0.256	--	ND	1.90	--		1.282
Hexachlorobutadiene	ND	0.256	--	ND	2.73	--		1.282

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140



Project Name: MINMILT/MIN1001

Lab Number: L2335691

Project Number: MIN1001

Report Date: 07/06/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/03/23 18:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1799202-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: MINMILT/MIN1001

Lab Number: L2335691

Project Number: MIN1001

Report Date: 07/06/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/03/23 18:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1799202-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: MINMILT/MIN1001

Lab Number: L2335691

Project Number: MIN1001

Report Date: 07/06/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/03/23 18:47

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1799202-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: MINMILT/MIN1001

Project Number: MIN1001

Lab Number: L2335691

Report Date: 07/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1799202-3								
Dichlorodifluoromethane	98		-		70-130	-		
Chloromethane	91		-		70-130	-		
Freon-114	98		-		70-130	-		
Vinyl chloride	92		-		70-130	-		
1,3-Butadiene	93		-		70-130	-		
Bromomethane	98		-		70-130	-		
Chloroethane	90		-		70-130	-		
Ethanol	71		-		40-160	-		
Vinyl bromide	92		-		70-130	-		
Acetone	87		-		40-160	-		
Trichlorofluoromethane	99		-		70-130	-		
Isopropanol	88		-		40-160	-		
1,1-Dichloroethene	94		-		70-130	-		
Tertiary butyl Alcohol	87		-		70-130	-		
Methylene chloride	95		-		70-130	-		
3-Chloropropene	90		-		70-130	-		
Carbon disulfide	92		-		70-130	-		
Freon-113	99		-		70-130	-		
trans-1,2-Dichloroethene	88		-		70-130	-		
1,1-Dichloroethane	90		-		70-130	-		
Methyl tert butyl ether	95		-		70-130	-		
2-Butanone	97		-		70-130	-		
cis-1,2-Dichloroethene	93		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: MINMILT/MIN1001

Project Number: MIN1001

Lab Number: L2335691

Report Date: 07/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1799202-3								
Ethyl Acetate	95		-		70-130	-		
Chloroform	99		-		70-130	-		
Tetrahydrofuran	92		-		70-130	-		
1,2-Dichloroethane	92		-		70-130	-		
n-Hexane	84		-		70-130	-		
1,1,1-Trichloroethane	93		-		70-130	-		
Benzene	89		-		70-130	-		
Carbon tetrachloride	100		-		70-130	-		
Cyclohexane	84		-		70-130	-		
1,2-Dichloropropane	90		-		70-130	-		
Bromodichloromethane	96		-		70-130	-		
1,4-Dioxane	93		-		70-130	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	87		-		70-130	-		
Heptane	90		-		70-130	-		
cis-1,3-Dichloropropene	101		-		70-130	-		
4-Methyl-2-pentanone	105		-		70-130	-		
trans-1,3-Dichloropropene	89		-		70-130	-		
1,1,2-Trichloroethane	97		-		70-130	-		
Toluene	90		-		70-130	-		
2-Hexanone	90		-		70-130	-		
Dibromochloromethane	107		-		70-130	-		
1,2-Dibromoethane	100		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: MINMILT/MIN1001

Project Number: MIN1001

Lab Number: L2335691

Report Date: 07/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1799202-3								
Tetrachloroethene	99		-		70-130	-		
Chlorobenzene	97		-		70-130	-		
Ethylbenzene	95		-		70-130	-		
p/m-Xylene	95		-		70-130	-		
Bromoform	105		-		70-130	-		
Styrene	96		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		
o-Xylene	95		-		70-130	-		
4-Ethyltoluene	94		-		70-130	-		
1,3,5-Trimethylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	99		-		70-130	-		
Benzyl chloride	93		-		70-130	-		
1,3-Dichlorobenzene	100		-		70-130	-		
1,4-Dichlorobenzene	97		-		70-130	-		
1,2-Dichlorobenzene	103		-		70-130	-		
1,2,4-Trichlorobenzene	115		-		70-130	-		
Hexachlorobutadiene	106		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: MINMILT/MIN1001

Lab Number: L2335691

Project Number: MIN1001

Report Date: 07/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1799202-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92				70-130
Toluene-d8	93				70-130
Bromofluorobenzene	95				70-130

Project Name: MINMILT/MIN1001
Project Number: MIN1001

Serial_No:07062313:34
Lab Number: L2335691
Report Date: 07/06/23

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335691-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2335691-01X	Canister - 2.7 Liter (Split out in lab)	NA	NA			Y	Absent		TO15-LL(30)

Project Name: MINMILT/MIN1001**Lab Number:** L2335691**Project Number:** MIN1001**Report Date:** 07/06/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name: MINMILT/MIN1001
Project Number: MIN1001

Lab Number: L2335691
Report Date: 07/06/23

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: MINMILT/MIN1001**Lab Number:** L2335691**Project Number:** MIN1001**Report Date:** 07/06/23**Data Qualifiers**

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: MINMILT/MIN1001
Project Number: MIN1001

Lab Number: L2335691
Report Date: 07/06/23

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 20

Published Date: 6/16/2023 4:52:28 PM

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L2376154
Client:	Pace Analytical Services Inc 575 Broad Hollow Road Melville, NY 11747
ATTN:	Daniel Bonitto
Phone:	(631) 694-3040
Project Name:	MINMILT WELL SAMPLING 12/20
Project Number:	70281990
Report Date:	01/09/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2376154-01	SVE-INF	SOIL_VAPOR	NY	12/21/23 07:25	12/26/23

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

Case Narrative (continued)

Volatile Organics in Air

L2376154-01D: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 01/09/24

AIR

Project Name: MINMILT WELL SAMPLING 12/20**Lab Number:** L2376154**Project Number:** 70281990**Report Date:** 01/09/24**SAMPLE RESULTS**

Lab ID: L2376154-01 D

Client ID: SVE-INF

Sample Location: NY

Date Collected: 12/21/23 07:25

Date Received: 12/26/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 01/09/24 06:30

Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.03	0.421	--	5.09	2.08	--		2.106
Chloromethane	ND	0.421	--	ND	0.869	--		2.106
Freon-114	ND	0.421	--	ND	2.94	--		2.106
Vinyl chloride	ND	0.421	--	ND	1.08	--		2.106
1,3-Butadiene	ND	0.421	--	ND	0.931	--		2.106
Bromomethane	ND	0.421	--	ND	1.63	--		2.106
Chloroethane	0.756	0.421	--	1.99	1.11	--		2.106
Ethanol	50.3	10.5	--	94.8	19.8	--		2.106
Vinyl bromide	ND	0.421	--	ND	1.84	--		2.106
Acetone	9.03	2.11	--	21.5	5.01	--		2.106
Trichlorofluoromethane	ND	0.421	--	ND	2.37	--		2.106
Isopropanol	9.60	1.05	--	23.6	2.58	--		2.106
1,1-Dichloroethene	ND	0.421	--	ND	1.67	--		2.106
Methylene chloride	2.13	1.05	--	7.40	3.65	--		2.106
3-Chloropropene	ND	0.421	--	ND	1.32	--		2.106
Carbon disulfide	0.750	0.421	--	2.34	1.31	--		2.106
Freon-113	ND	0.421	--	ND	3.23	--		2.106
trans-1,2-Dichloroethene	1.59	0.421	--	6.30	1.67	--		2.106
1,1-Dichloroethane	8.79	0.421	--	35.6	1.70	--		2.106
Methyl tert butyl ether	ND	0.421	--	ND	1.52	--		2.106
2-Butanone	2.76	1.05	--	8.14	3.10	--		2.106
cis-1,2-Dichloroethene	84.9	0.421	--	337	1.67	--		2.106
Ethyl Acetate	ND	1.05	--	ND	3.78	--		2.106



Project Name: MINMILT WELL SAMPLING 12/20**Lab Number:** L2376154**Project Number:** 70281990**Report Date:** 01/09/24**SAMPLE RESULTS**

Lab ID: L2376154-01 D

Client ID: SVE-INF

Sample Location: NY

Date Collected: 12/21/23 07:25

Date Received: 12/26/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloroform	0.539	0.421	--	2.63	2.06	--		2.106
Tetrahydrofuran	ND	1.05	--	ND	3.10	--		2.106
1,2-Dichloroethane	ND	0.421	--	ND	1.70	--		2.106
n-Hexane	1.66	0.421	--	5.85	1.48	--		2.106
1,1,1-Trichloroethane	1.18	0.421	--	6.44	2.30	--		2.106
Benzene	1.78	0.421	--	5.69	1.34	--		2.106
Carbon tetrachloride	ND	0.421	--	ND	2.65	--		2.106
Cyclohexane	ND	0.421	--	ND	1.45	--		2.106
1,2-Dichloropropane	ND	0.421	--	ND	1.95	--		2.106
Bromodichloromethane	ND	0.421	--	ND	2.82	--		2.106
1,4-Dioxane	ND	0.421	--	ND	1.52	--		2.106
Trichloroethene	10.4	0.421	--	55.9	2.26	--		2.106
2,2,4-Trimethylpentane	0.508	0.421	--	2.37	1.97	--		2.106
Heptane	1.40	0.421	--	5.74	1.73	--		2.106
cis-1,3-Dichloropropene	ND	0.421	--	ND	1.91	--		2.106
4-Methyl-2-pentanone	ND	1.05	--	ND	4.30	--		2.106
trans-1,3-Dichloropropene	ND	0.421	--	ND	1.91	--		2.106
1,1,2-Trichloroethane	ND	0.421	--	ND	2.30	--		2.106
Toluene	4.92	0.421	--	18.5	1.59	--		2.106
2-Hexanone	ND	0.421	--	ND	1.73	--		2.106
Dibromochloromethane	ND	0.421	--	ND	3.59	--		2.106
1,2-Dibromoethane	ND	0.421	--	ND	3.24	--		2.106
Tetrachloroethene	78.3	0.421	--	531	2.85	--		2.106
Chlorobenzene	1.40	0.421	--	6.45	1.94	--		2.106
Ethylbenzene	1.60	0.421	--	6.95	1.83	--		2.106
p/m-Xylene	5.38	0.842	--	23.4	3.66	--		2.106



Project Name: MINMILT WELL SAMPLING 12/20**Lab Number:** L2376154**Project Number:** 70281990**Report Date:** 01/09/24**SAMPLE RESULTS**

Lab ID: L2376154-01 D

Client ID: SVE-INF

Sample Location: NY

Date Collected: 12/21/23 07:25

Date Received: 12/26/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Bromoform	ND	0.421	--	ND	4.35	--		2.106
Styrene	ND	0.421	--	ND	1.79	--		2.106
1,1,2,2-Tetrachloroethane	ND	0.421	--	ND	2.89	--		2.106
o-Xylene	1.63	0.421	--	7.08	1.83	--		2.106
4-Ethyltoluene	ND	0.421	--	ND	2.07	--		2.106
1,3,5-Trimethylbenzene	0.470	0.421	--	2.31	2.07	--		2.106
1,2,4-Trimethylbenzene	1.86	0.421	--	9.14	2.07	--		2.106
Benzyl chloride	ND	0.421	--	ND	2.18	--		2.106
1,3-Dichlorobenzene	ND	0.421	--	ND	2.53	--		2.106
1,4-Dichlorobenzene	ND	0.421	--	ND	2.53	--		2.106
1,2-Dichlorobenzene	ND	0.421	--	ND	2.53	--		2.106
1,2,4-Trichlorobenzene	ND	0.421	--	ND	3.13	--		2.106
Hexachlorobutadiene	ND	0.421	--	ND	4.49	--		2.106

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	99		60-140



Project Name: MINMILT WELL SAMPLING 12/20

Lab Number: L2376154

Project Number: 70281990

Report Date: 01/09/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/08/24 15:02

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1872112-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: MINMILT WELL SAMPLING 12/20**Lab Number:** L2376154**Project Number:** 70281990**Report Date:** 01/09/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/08/24 15:02

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1872112-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: MINMILT WELL SAMPLING 12/20

Lab Number: L2376154

Project Number: 70281990

Report Date: 01/09/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/08/24 15:02

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1872112-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MINMILT WELL SAMPLING 12/20

Project Number: 70281990

Lab Number: L2376154

Report Date: 01/09/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1872112-3								
Dichlorodifluoromethane	91		-		70-130	-		
Chloromethane	97		-		70-130	-		
Freon-114	104		-		70-130	-		
Vinyl chloride	100		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Bromomethane	100		-		70-130	-		
Chloroethane	103		-		70-130	-		
Ethanol	109		-		40-160	-		
Vinyl bromide	96		-		70-130	-		
Acetone	120		-		40-160	-		
Trichlorofluoromethane	108		-		70-130	-		
Isopropanol	103		-		40-160	-		
1,1-Dichloroethene	103		-		70-130	-		
Tertiary butyl Alcohol	91		-		70-130	-		
Methylene chloride	98		-		70-130	-		
3-Chloropropene	104		-		70-130	-		
Carbon disulfide	87		-		70-130	-		
Freon-113	96		-		70-130	-		
trans-1,2-Dichloroethene	95		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
Methyl tert butyl ether	89		-		70-130	-		
2-Butanone	99		-		70-130	-		
cis-1,2-Dichloroethene	99		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: MINMILT WELL SAMPLING 12/20

Project Number: 70281990

Lab Number: L2376154

Report Date: 01/09/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1872112-3								
Ethyl Acetate	98		-		70-130	-		
Chloroform	92		-		70-130	-		
Tetrahydrofuran	96		-		70-130	-		
1,2-Dichloroethane	103		-		70-130	-		
n-Hexane	112		-		70-130	-		
1,1,1-Trichloroethane	111		-		70-130	-		
Benzene	98		-		70-130	-		
Carbon tetrachloride	106		-		70-130	-		
Cyclohexane	109		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	107		-		70-130	-		
1,4-Dioxane	102		-		70-130	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	112		-		70-130	-		
Heptane	113		-		70-130	-		
cis-1,3-Dichloropropene	103		-		70-130	-		
4-Methyl-2-pentanone	114		-		70-130	-		
trans-1,3-Dichloropropene	101		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
Toluene	89		-		70-130	-		
2-Hexanone	100		-		70-130	-		
Dibromochloromethane	100		-		70-130	-		
1,2-Dibromoethane	87		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: MINMILT WELL SAMPLING 12/20

Project Number: 70281990

Lab Number: L2376154

Report Date: 01/09/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1872112-3								
Tetrachloroethene	80		-		70-130	-		
Chlorobenzene	84		-		70-130	-		
Ethylbenzene	88		-		70-130	-		
p/m-Xylene	92		-		70-130	-		
Bromoform	93		-		70-130	-		
Styrene	84		-		70-130	-		
1,1,2,2-Tetrachloroethane	90		-		70-130	-		
o-Xylene	94		-		70-130	-		
4-Ethyltoluene	89		-		70-130	-		
1,3,5-Trimethylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	94		-		70-130	-		
Benzyl chloride	87		-		70-130	-		
1,3-Dichlorobenzene	86		-		70-130	-		
1,4-Dichlorobenzene	85		-		70-130	-		
1,2-Dichlorobenzene	86		-		70-130	-		
1,2,4-Trichlorobenzene	84		-		70-130	-		
Hexachlorobutadiene	86		-		70-130	-		

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Serial_No:01092417:19
Lab Number: L2376154
Report Date: 01/09/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2376154-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2376154-01X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 20

Published Date: 6/16/2023 4:52:28 PM

Page 1 of 1

Certification Information**The following analytes are not included in our Primary NELAP Scope of Accreditation:****Westborough Facility****EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B**The following analytes are included in our Massachusetts DEP Scope of Accreditation****Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

12/27/23

12376154

Chain of Custody

PASI New York Laboratory



Workorder: 70281990

Workorder Name: MINMILT WELL SAMPLING 12/20

Results Requested By: 1/9/2024

Report / Invoice To		Subcontract To		Requested Analysis															
Daniel H. Bonitto Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone 516-370-6000 Email: daniel.bonitto@pacelabs.com		Alpha-Mansfield Lab 320 Forbes Blvd Mansfield, MA 02048-1806		P.O. 70281990 DHB															
Send Invoice To: invoices@pacelabs.coupahost.com				Preserved Containers								TO-15				LAB USE ONLY			
State of Sample Origin: NY																			
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Other														
1	SVE-INF	12/21/2023 07:25	70281990030	Air															
2																			
3																			
4																			
5																			
Comments																			
Transfers	Released By	Date/Time	Received By	Date/Time															
1	MS MACAN	12/26/23 18:00	MS MACAN	12/26 16:47															
2	Anthony Green	12/26 19:30	Anthony Green	DEC 26 2023															
3	Anthony Green	12/26 23:45	Anthony Green	12/26 23:45															
Cooler Temperature on Receipt °C		Custody Seal Y or N		Received on Ice Y or N		Samples Intact Y or N													

822 12/27 0245 *[Signature]* 12/27/23 0245

APPENDIX F





January 12, 2024

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

RE: Project: MINMILT WELL SAMPLING 12/20
Pace Project No.: 70281990

Dear Kaitlyn Crosby:

Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 2023. 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.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

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,

Daniel H. Bonitto
daniel.bonitto@pacelabs.com
516-370-6000
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: MW-1		Lab ID: 70281990001		Collected: 12/20/23 16:30		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 19:49	71-55-6	IL	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/22/23 19:49	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 19:49	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 19:49	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/22/23 19:49	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 19:49	107-06-2	IC	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/22/23 19:49	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/22/23 19:49	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/22/23 19:49	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/22/23 19:49	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/22/23 19:49	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/22/23 19:49	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/22/23 19:49	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/22/23 19:49	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/22/23 19:49	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/22/23 19:49	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		12/22/23 19:49	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/22/23 19:49	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/22/23 19:49	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/22/23 19:49	75-00-3		
Chloroform	1.0	ug/L	1.0	1		12/22/23 19:49	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/22/23 19:49	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/22/23 19:49	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/23 19:49	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/22/23 19:49	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/22/23 19:49	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/22/23 19:49	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/22/23 19:49	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/22/23 19:49	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/22/23 19:49	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/22/23 19:49	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 19:49	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 19:49	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		12/22/23 19:49	17060-07-0		
4-Bromofluorobenzene (S)	101	%	73-122	1		12/22/23 19:49	460-00-4		
Toluene-d8 (S)	98	%	75-122	1		12/22/23 19:49	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: MW-2		Lab ID: 70281990002		Collected: 12/20/23 13:45		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:09	71-55-6	IC	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/22/23 20:09	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:09	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:09	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/22/23 20:09	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:09	107-06-2	IL	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/22/23 20:09	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/22/23 20:09	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/22/23 20:09	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/22/23 20:09	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/22/23 20:09	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/22/23 20:09	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/22/23 20:09	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/22/23 20:09	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/22/23 20:09	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/22/23 20:09	74-83-9		
Carbon disulfide	<1.0	ug/L	1.0	1		12/22/23 20:09	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/22/23 20:09	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/22/23 20:09	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/22/23 20:09	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/22/23 20:09	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/22/23 20:09	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/22/23 20:09	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/23 20:09	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/22/23 20:09	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/22/23 20:09	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/22/23 20:09	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/22/23 20:09	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/22/23 20:09	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/22/23 20:09	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/22/23 20:09	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 20:09	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 20:09	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		12/22/23 20:09	17060-07-0		
4-Bromofluorobenzene (S)	101	%	73-122	1		12/22/23 20:09	460-00-4		
Toluene-d8 (S)	99	%	75-122	1		12/22/23 20:09	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: MW-3		Lab ID: 70281990003		Collected: 12/20/23 12:35		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:29	71-55-6	IC	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/22/23 20:29	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:29	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:29	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/22/23 20:29	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:29	107-06-2	IL	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/22/23 20:29	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/22/23 20:29	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/22/23 20:29	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/22/23 20:29	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/22/23 20:29	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/22/23 20:29	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/22/23 20:29	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/22/23 20:29	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/22/23 20:29	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/22/23 20:29	74-83-9	IC	
Carbon disulfide	<1.0	ug/L	1.0	1		12/22/23 20:29	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/22/23 20:29	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/22/23 20:29	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/22/23 20:29	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/22/23 20:29	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/22/23 20:29	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/22/23 20:29	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/23 20:29	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/22/23 20:29	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/22/23 20:29	100-42-5		
Tetrachloroethene	1.1	ug/L	1.0	1		12/22/23 20:29	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/22/23 20:29	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/22/23 20:29	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/22/23 20:29	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/22/23 20:29	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 20:29	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 20:29	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	80-120	1		12/22/23 20:29	17060-07-0		
4-Bromofluorobenzene (S)	98	%	73-122	1		12/22/23 20:29	460-00-4		
Toluene-d8 (S)	96	%	75-122	1		12/22/23 20:29	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: MW-4		Lab ID: 70281990004		Collected: 12/21/23 09:00		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:48	71-55-6	IC	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/22/23 20:48	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:48	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:48	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/22/23 20:48	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 20:48	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/22/23 20:48	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/22/23 20:48	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/22/23 20:48	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/22/23 20:48	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/22/23 20:48	108-10-1	IL	
Acetone	<5.0	ug/L	5.0	1		12/22/23 20:48	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/22/23 20:48	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/22/23 20:48	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/22/23 20:48	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/22/23 20:48	74-83-9	IC	
Carbon disulfide	<1.0	ug/L	1.0	1		12/22/23 20:48	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/22/23 20:48	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/22/23 20:48	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/22/23 20:48	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/22/23 20:48	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/22/23 20:48	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/22/23 20:48	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/23 20:48	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/22/23 20:48	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/22/23 20:48	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/22/23 20:48	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/22/23 20:48	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/22/23 20:48	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/22/23 20:48	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/22/23 20:48	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 20:48	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 20:48	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	80-120	1		12/22/23 20:48	17060-07-0		
4-Bromofluorobenzene (S)	102	%	73-122	1		12/22/23 20:48	460-00-4		
Toluene-d8 (S)	100	%	75-122	1		12/22/23 20:48	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: MW-5		Lab ID: 70281990005		Collected: 12/21/23 14:45		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:08	71-55-6	IC	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/22/23 21:08	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:08	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:08	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/22/23 21:08	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:08	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/22/23 21:08	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/22/23 21:08	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/22/23 21:08	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/22/23 21:08	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/22/23 21:08	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/22/23 21:08	67-64-1	IL	
Benzene	<0.70	ug/L	0.70	1		12/22/23 21:08	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/22/23 21:08	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/22/23 21:08	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/22/23 21:08	74-83-9	IC	
Carbon disulfide	<1.0	ug/L	1.0	1		12/22/23 21:08	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/22/23 21:08	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/22/23 21:08	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/22/23 21:08	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/22/23 21:08	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/22/23 21:08	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/22/23 21:08	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/23 21:08	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/22/23 21:08	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/22/23 21:08	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/22/23 21:08	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/22/23 21:08	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/22/23 21:08	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/22/23 21:08	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/22/23 21:08	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 21:08	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 21:08	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		12/22/23 21:08	17060-07-0		
4-Bromofluorobenzene (S)	97	%	73-122	1		12/22/23 21:08	460-00-4		
Toluene-d8 (S)	98	%	75-122	1		12/22/23 21:08	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: MW-6		Lab ID: 70281990006		Collected: 12/21/23 15:35		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:28	71-55-6	IC	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/22/23 21:28	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:28	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:28	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/22/23 21:28	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:28	107-06-2	IL	
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/22/23 21:28	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/22/23 21:28	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/22/23 21:28	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/22/23 21:28	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/22/23 21:28	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/22/23 21:28	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/22/23 21:28	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/22/23 21:28	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/22/23 21:28	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/22/23 21:28	74-83-9	IC	
Carbon disulfide	<1.0	ug/L	1.0	1		12/22/23 21:28	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/22/23 21:28	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/22/23 21:28	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/22/23 21:28	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/22/23 21:28	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/22/23 21:28	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/22/23 21:28	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/23 21:28	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/22/23 21:28	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/22/23 21:28	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/22/23 21:28	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/22/23 21:28	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/22/23 21:28	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/22/23 21:28	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/22/23 21:28	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 21:28	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 21:28	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		12/22/23 21:28	17060-07-0		
4-Bromofluorobenzene (S)	99	%	73-122	1		12/22/23 21:28	460-00-4		
Toluene-d8 (S)	98	%	75-122	1		12/22/23 21:28	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: MW-7		Lab ID: 70281990007		Collected: 12/21/23 11:40		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:48	71-55-6	IC	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/22/23 21:48	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:48	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:48	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/22/23 21:48	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 21:48	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/22/23 21:48	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/22/23 21:48	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/22/23 21:48	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/22/23 21:48	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/22/23 21:48	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/22/23 21:48	67-64-1	IL	
Benzene	<0.70	ug/L	0.70	1		12/22/23 21:48	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/22/23 21:48	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/22/23 21:48	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/22/23 21:48	74-83-9	IC	
Carbon disulfide	<1.0	ug/L	1.0	1		12/22/23 21:48	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/22/23 21:48	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/22/23 21:48	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/22/23 21:48	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/22/23 21:48	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/22/23 21:48	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/22/23 21:48	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/23 21:48	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/22/23 21:48	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/22/23 21:48	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/22/23 21:48	127-18-4		
Toluene	1.7	ug/L	1.0	1		12/22/23 21:48	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/22/23 21:48	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/22/23 21:48	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/22/23 21:48	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 21:48	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 21:48	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		12/22/23 21:48	17060-07-0		
4-Bromofluorobenzene (S)	100	%	73-122	1		12/22/23 21:48	460-00-4		
Toluene-d8 (S)	99	%	75-122	1		12/22/23 21:48	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: SP-3		Lab ID: 70281990008		Collected: 12/21/23 12:40		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:08	71-55-6	IC	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/22/23 22:08	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:08	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:08	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/22/23 22:08	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:08	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/22/23 22:08	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/22/23 22:08	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/22/23 22:08	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/22/23 22:08	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/22/23 22:08	108-10-1	IL	
Acetone	<5.0	ug/L	5.0	1		12/22/23 22:08	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/22/23 22:08	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/22/23 22:08	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/22/23 22:08	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/22/23 22:08	74-83-9	IC	
Carbon disulfide	<1.0	ug/L	1.0	1		12/22/23 22:08	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/22/23 22:08	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/22/23 22:08	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/22/23 22:08	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/22/23 22:08	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/22/23 22:08	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/22/23 22:08	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/23 22:08	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/22/23 22:08	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/22/23 22:08	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/22/23 22:08	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/22/23 22:08	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/22/23 22:08	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/22/23 22:08	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/22/23 22:08	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 22:08	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 22:08	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	80-120	1		12/22/23 22:08	17060-07-0		
4-Bromofluorobenzene (S)	99	%	73-122	1		12/22/23 22:08	460-00-4		
Toluene-d8 (S)	99	%	75-122	1		12/22/23 22:08	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: SP-4		Lab ID: 70281990009		Collected: 12/21/23 13:10		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:28	71-55-6	IC	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/22/23 22:28	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:28	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:28	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/22/23 22:28	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:28	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/22/23 22:28	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/22/23 22:28	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/22/23 22:28	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/22/23 22:28	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/22/23 22:28	108-10-1	IL	
Acetone	<5.0	ug/L	5.0	1		12/22/23 22:28	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/22/23 22:28	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/22/23 22:28	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/22/23 22:28	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/22/23 22:28	74-83-9	IC	
Carbon disulfide	<1.0	ug/L	1.0	1		12/22/23 22:28	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/22/23 22:28	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/22/23 22:28	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/22/23 22:28	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/22/23 22:28	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/22/23 22:28	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/22/23 22:28	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/23 22:28	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/22/23 22:28	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/22/23 22:28	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/22/23 22:28	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/22/23 22:28	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/22/23 22:28	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/22/23 22:28	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/22/23 22:28	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 22:28	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 22:28	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	80-120	1		12/22/23 22:28	17060-07-0		
4-Bromofluorobenzene (S)	102	%	73-122	1		12/22/23 22:28	460-00-4		
Toluene-d8 (S)	98	%	75-122	1		12/22/23 22:28	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: SP-6		Lab ID: 70281990010		Collected: 12/21/23 11:16		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:48	71-55-6	IC	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/22/23 22:48	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:48	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:48	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/22/23 22:48	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 22:48	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/22/23 22:48	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/22/23 22:48	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/22/23 22:48	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/22/23 22:48	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/22/23 22:48	108-10-1	IL	
Acetone	<5.0	ug/L	5.0	1		12/22/23 22:48	67-64-1		
Benzene	<0.70	ug/L	0.70	1		12/22/23 22:48	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/22/23 22:48	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/22/23 22:48	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/22/23 22:48	74-83-9	IC	
Carbon disulfide	<1.0	ug/L	1.0	1		12/22/23 22:48	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/22/23 22:48	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/22/23 22:48	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/22/23 22:48	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/22/23 22:48	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/22/23 22:48	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/22/23 22:48	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/23 22:48	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/22/23 22:48	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/22/23 22:48	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/22/23 22:48	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/22/23 22:48	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/22/23 22:48	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/22/23 22:48	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/22/23 22:48	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 22:48	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 22:48	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		12/22/23 22:48	17060-07-0		
4-Bromofluorobenzene (S)	102	%	73-122	1		12/22/23 22:48	460-00-4		
Toluene-d8 (S)	97	%	75-122	1		12/22/23 22:48	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: GW-1		Lab ID: 70281990011		Collected: 12/21/23 14:54		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:29	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/27/23 19:29	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:29	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:29	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/27/23 19:29	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:29	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/27/23 19:29	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/27/23 19:29	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/27/23 19:29	78-93-3	v3	
2-Hexanone	<5.0	ug/L	5.0	1		12/27/23 19:29	591-78-6	v3	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/27/23 19:29	108-10-1	v3	
Acetone	<5.0	ug/L	5.0	1		12/27/23 19:29	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/27/23 19:29	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/27/23 19:29	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/27/23 19:29	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/27/23 19:29	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/27/23 19:29	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/27/23 19:29	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/27/23 19:29	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/27/23 19:29	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/27/23 19:29	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/27/23 19:29	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/27/23 19:29	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/27/23 19:29	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/27/23 19:29	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/27/23 19:29	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/27/23 19:29	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/27/23 19:29	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/27/23 19:29	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/27/23 19:29	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/27/23 19:29	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/27/23 19:29	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/27/23 19:29	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	80-120	1		12/27/23 19:29	17060-07-0		
4-Bromofluorobenzene (S)	93	%	73-122	1		12/27/23 19:29	460-00-4		
Toluene-d8 (S)	106	%	75-122	1		12/27/23 19:29	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: GW-2		Lab ID: 70281990012		Collected: 12/21/23 14:05		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:50	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/27/23 19:50	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:50	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:50	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/27/23 19:50	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:50	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/27/23 19:50	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/27/23 19:50	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/27/23 19:50	78-93-3	v3	
2-Hexanone	<5.0	ug/L	5.0	1		12/27/23 19:50	591-78-6	v3	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/27/23 19:50	108-10-1	v3	
Acetone	<5.0	ug/L	5.0	1		12/27/23 19:50	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/27/23 19:50	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/27/23 19:50	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/27/23 19:50	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/27/23 19:50	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/27/23 19:50	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/27/23 19:50	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/27/23 19:50	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/27/23 19:50	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/27/23 19:50	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/27/23 19:50	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/27/23 19:50	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/27/23 19:50	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/27/23 19:50	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/27/23 19:50	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/27/23 19:50	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/27/23 19:50	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/27/23 19:50	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/27/23 19:50	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/27/23 19:50	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/27/23 19:50	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/27/23 19:50	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	80-120	1		12/27/23 19:50	17060-07-0		
4-Bromofluorobenzene (S)	93	%	73-122	1		12/27/23 19:50	460-00-4		
Toluene-d8 (S)	107	%	75-122	1		12/27/23 19:50	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: GW-3		Lab ID: 70281990013		Collected: 12/21/23 14:02		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 23:50	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/22/23 23:50	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/22/23 23:50	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 23:50	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/22/23 23:50	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/22/23 23:50	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/22/23 23:50	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/22/23 23:50	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/22/23 23:50	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/22/23 23:50	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/22/23 23:50	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/22/23 23:50	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/22/23 23:50	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/22/23 23:50	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/22/23 23:50	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/22/23 23:50	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/22/23 23:50	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/22/23 23:50	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/22/23 23:50	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/22/23 23:50	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/22/23 23:50	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/22/23 23:50	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		12/22/23 23:50	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/23 23:50	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/22/23 23:50	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/22/23 23:50	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/22/23 23:50	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/22/23 23:50	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/22/23 23:50	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/22/23 23:50	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/22/23 23:50	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 23:50	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/22/23 23:50	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		12/22/23 23:50	17060-07-0		
4-Bromofluorobenzene (S)	100	%	73-122	1		12/22/23 23:50	460-00-4		
Toluene-d8 (S)	98	%	75-122	1		12/22/23 23:50	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: MAG		Lab ID: 70281990020		Collected: 12/21/23 07:33		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	328	ug/L	100	1	12/27/23 07:51	12/27/23 16:02	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/23/23 00:11	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/23/23 00:11	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/23/23 00:11	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/23/23 00:11	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/23/23 00:11	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/23/23 00:11	107-06-2		
1,2-Dichloroethene (Total)	116	ug/L	2.0	1		12/23/23 00:11	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/23/23 00:11	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/23/23 00:11	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/23/23 00:11	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/23/23 00:11	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/23/23 00:11	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/23/23 00:11	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/23/23 00:11	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/23/23 00:11	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/23/23 00:11	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/23/23 00:11	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/23/23 00:11	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/23/23 00:11	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/23/23 00:11	75-00-3		
Chloroform	1.2	ug/L	1.0	1		12/23/23 00:11	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/23/23 00:11	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		12/23/23 00:11	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/23/23 00:11	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/23/23 00:11	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/23/23 00:11	100-42-5		
Tetrachloroethene	793	ug/L	50.0	50		12/26/23 19:04	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/23/23 00:11	108-88-3		
Trichloroethene	30.1	ug/L	1.0	1		12/23/23 00:11	79-01-6		
Vinyl chloride	4.8	ug/L	1.0	1		12/23/23 00:11	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/23/23 00:11	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/23/23 00:11	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/23/23 00:11	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		12/23/23 00:11	17060-07-0		
4-Bromofluorobenzene (S)	98	%	73-122	1		12/23/23 00:11	460-00-4		
Toluene-d8 (S)	96	%	75-122	1		12/23/23 00:11	2037-26-5		
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.1	Std. Units	0.10	1		01/01/24 19:56		H3,H6, N3	

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: MAG		Lab ID: 70281990020		Collected: 12/21/23 07:33		Received: 12/21/23 16:10		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)		21.0	deg C	0.10	1		01/01/24 19:56		H3,H6

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: ML-1A		Lab ID: 70281990021		Collected: 12/20/23 12:19		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/27/23 20:11	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/27/23 20:11	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/27/23 20:11	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/27/23 20:11	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/27/23 20:11	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/27/23 20:11	107-06-2		
1,2-Dichloroethene (Total)	2.4	ug/L	2.0	1		12/27/23 20:11	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/27/23 20:11	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/27/23 20:11	78-93-3	v3	
2-Hexanone	<5.0	ug/L	5.0	1		12/27/23 20:11	591-78-6	v3	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/27/23 20:11	108-10-1	v3	
Acetone	<5.0	ug/L	5.0	1		12/27/23 20:11	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/27/23 20:11	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/27/23 20:11	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/27/23 20:11	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/27/23 20:11	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/27/23 20:11	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/27/23 20:11	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/27/23 20:11	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/27/23 20:11	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/27/23 20:11	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/27/23 20:11	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/27/23 20:11	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/27/23 20:11	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/27/23 20:11	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/27/23 20:11	100-42-5		
Tetrachloroethene	2.0	ug/L	1.0	1		12/27/23 20:11	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/27/23 20:11	108-88-3		
Trichloroethene	4.7	ug/L	1.0	1		12/27/23 20:11	79-01-6		
Vinyl chloride	4.8	ug/L	1.0	1		12/27/23 20:11	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/27/23 20:11	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/27/23 20:11	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/27/23 20:11	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%	80-120	1		12/27/23 20:11	17060-07-0		
4-Bromofluorobenzene (S)	92	%	73-122	1		12/27/23 20:11	460-00-4		
Toluene-d8 (S)	105	%	75-122	1		12/27/23 20:11	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: ML-1B		Lab ID: 70281990022		Collected: 12/20/23 12:34		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/23/23 00:53	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/23/23 00:53	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/23/23 00:53	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/23/23 00:53	75-34-3		
1,1-Dichloroethene	1.2	ug/L	1.0	1		12/23/23 00:53	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/23/23 00:53	107-06-2		
1,2-Dichloroethene (Total)	95.2	ug/L	2.0	1		12/23/23 00:53	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/23/23 00:53	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/23/23 00:53	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/23/23 00:53	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/23/23 00:53	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/23/23 00:53	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/23/23 00:53	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/23/23 00:53	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/23/23 00:53	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/23/23 00:53	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/23/23 00:53	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/23/23 00:53	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/23/23 00:53	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/23/23 00:53	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/23/23 00:53	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/23/23 00:53	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		12/23/23 00:53	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/23/23 00:53	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/23/23 00:53	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/23/23 00:53	100-42-5		
Tetrachloroethene	50.2	ug/L	1.0	1		12/23/23 00:53	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/23/23 00:53	108-88-3		
Trichloroethene	242	ug/L	5.0	5		12/26/23 20:46	79-01-6		
Vinyl chloride	22.7	ug/L	1.0	1		12/23/23 00:53	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/23/23 00:53	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/23/23 00:53	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/23/23 00:53	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		12/23/23 00:53	17060-07-0		
4-Bromofluorobenzene (S)	98	%	73-122	1		12/23/23 00:53	460-00-4		
Toluene-d8 (S)	96	%	75-122	1		12/23/23 00:53	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: SCDHS		Lab ID: 70281990023		Collected: 12/20/23 09:50		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:08	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/27/23 19:08	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:08	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:08	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/27/23 19:08	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/27/23 19:08	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/27/23 19:08	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/27/23 19:08	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/27/23 19:08	78-93-3	v3	
2-Hexanone	<5.0	ug/L	5.0	1		12/27/23 19:08	591-78-6	v3	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/27/23 19:08	108-10-1	v3	
Acetone	<5.0	ug/L	5.0	1		12/27/23 19:08	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/27/23 19:08	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/27/23 19:08	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/27/23 19:08	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/27/23 19:08	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/27/23 19:08	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/27/23 19:08	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/27/23 19:08	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/27/23 19:08	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/27/23 19:08	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/27/23 19:08	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/27/23 19:08	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/27/23 19:08	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/27/23 19:08	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/27/23 19:08	100-42-5		
Tetrachloroethene	4.2	ug/L	1.0	1		12/27/23 19:08	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/27/23 19:08	108-88-3		
Trichloroethene	6.4	ug/L	1.0	1		12/27/23 19:08	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/27/23 19:08	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/27/23 19:08	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/27/23 19:08	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/27/23 19:08	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	80-120	1		12/27/23 19:08	17060-07-0		
4-Bromofluorobenzene (S)	93	%	73-122	1		12/27/23 19:08	460-00-4		
Toluene-d8 (S)	107	%	75-122	1		12/27/23 19:08	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: ML-1C		Lab ID: 70281990024		Collected: 12/20/23 12:45		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/23/23 01:14	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/23/23 01:14	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/23/23 01:14	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/23/23 01:14	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/23/23 01:14	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/23/23 01:14	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/23/23 01:14	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/23/23 01:14	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/23/23 01:14	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/23/23 01:14	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/23/23 01:14	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/23/23 01:14	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/23/23 01:14	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/23/23 01:14	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/23/23 01:14	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/23/23 01:14	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/23/23 01:14	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/23/23 01:14	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/23/23 01:14	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/23/23 01:14	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/23/23 01:14	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/23/23 01:14	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		12/23/23 01:14	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/23/23 01:14	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/23/23 01:14	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/23/23 01:14	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/23/23 01:14	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/23/23 01:14	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/23/23 01:14	79-01-6		
Vinyl chloride	4.5	ug/L	1.0	1		12/23/23 01:14	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/23/23 01:14	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/23/23 01:14	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/23/23 01:14	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		12/23/23 01:14	17060-07-0		
4-Bromofluorobenzene (S)	99	%	73-122	1		12/23/23 01:14	460-00-4		
Toluene-d8 (S)	98	%	75-122	1		12/23/23 01:14	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: MW-8		Lab ID: 70281990025		Collected: 12/20/23 10:50		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/23/23 01:34	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/23/23 01:34	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/23/23 01:34	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/23/23 01:34	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/23/23 01:34	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/23/23 01:34	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/23/23 01:34	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/23/23 01:34	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/23/23 01:34	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/23/23 01:34	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/23/23 01:34	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/23/23 01:34	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/23/23 01:34	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/23/23 01:34	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/23/23 01:34	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/23/23 01:34	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/23/23 01:34	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/23/23 01:34	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/23/23 01:34	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/23/23 01:34	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/23/23 01:34	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/23/23 01:34	74-87-3	v3	
Dibromochloromethane	<1.0	ug/L	1.0	1		12/23/23 01:34	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/23/23 01:34	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/23/23 01:34	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/23/23 01:34	100-42-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/23/23 01:34	127-18-4		
Toluene	2.8	ug/L	1.0	1		12/23/23 01:34	108-88-3		
Trichloroethene	<1.0	ug/L	1.0	1		12/23/23 01:34	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/23/23 01:34	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/23/23 01:34	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/23/23 01:34	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/23/23 01:34	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		12/23/23 01:34	17060-07-0		
4-Bromofluorobenzene (S)	98	%	73-122	1		12/23/23 01:34	460-00-4		
Toluene-d8 (S)	97	%	75-122	1		12/23/23 01:34	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: MW-9		Lab ID: 70281990026		Collected: 12/20/23 15:20		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/26/23 20:07	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/26/23 20:07	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/26/23 20:07	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/26/23 20:07	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/26/23 20:07	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/26/23 20:07	107-06-2		
1,2-Dichloroethene (Total)	<2.0	ug/L	2.0	1		12/26/23 20:07	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/26/23 20:07	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/26/23 20:07	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/26/23 20:07	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/26/23 20:07	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/26/23 20:07	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/26/23 20:07	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/26/23 20:07	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/26/23 20:07	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/26/23 20:07	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/26/23 20:07	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/26/23 20:07	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/26/23 20:07	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/26/23 20:07	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/26/23 20:07	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/26/23 20:07	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/26/23 20:07	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/26/23 20:07	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/26/23 20:07	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/26/23 20:07	100-42-5		
Tetrachloroethene	2.0	ug/L	1.0	1		12/26/23 20:07	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/26/23 20:07	108-88-3		
Trichloroethene	15.2	ug/L	1.0	1		12/26/23 20:07	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/26/23 20:07	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/26/23 20:07	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/26/23 20:07	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/26/23 20:07	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		12/26/23 20:07	17060-07-0		
4-Bromofluorobenzene (S)	97	%	73-122	1		12/26/23 20:07	460-00-4		
Toluene-d8 (S)	94	%	75-122	1		12/26/23 20:07	2037-26-5		

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: SYS-EFF		Lab ID: 70281990027		Collected: 12/21/23 07:15		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	596	ug/L	100	1	12/27/23 07:51	12/27/23 16:05	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/26/23 19:46	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/26/23 19:46	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/26/23 19:46	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/26/23 19:46	75-34-3		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/26/23 19:46	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/26/23 19:46	107-06-2		
1,2-Dichloroethene (Total)	45.4	ug/L	2.0	1		12/26/23 19:46	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/26/23 19:46	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/26/23 19:46	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/26/23 19:46	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/26/23 19:46	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/26/23 19:46	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/26/23 19:46	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/26/23 19:46	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/26/23 19:46	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/26/23 19:46	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/26/23 19:46	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/26/23 19:46	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/26/23 19:46	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/26/23 19:46	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/26/23 19:46	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/26/23 19:46	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/26/23 19:46	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/26/23 19:46	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/26/23 19:46	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/26/23 19:46	100-42-5		
Tetrachloroethene	6.7	ug/L	1.0	1		12/26/23 19:46	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/26/23 19:46	108-88-3		
Trichloroethene	1.9	ug/L	1.0	1		12/26/23 19:46	79-01-6		
Vinyl chloride	<1.0	ug/L	1.0	1		12/26/23 19:46	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/26/23 19:46	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/26/23 19:46	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/26/23 19:46	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		12/26/23 19:46	17060-07-0		
4-Bromofluorobenzene (S)	96	%	73-122	1		12/26/23 19:46	460-00-4		
Toluene-d8 (S)	95	%	75-122	1		12/26/23 19:46	2037-26-5		
4500H+ pH, Electrometric									
Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville									
pH	7.4	Std. Units	0.10	1		01/01/24 19:55		H3,H6, N3	

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: SYS-EFF		Lab ID: 70281990027		Collected: 12/21/23 07:15		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)	22.3	deg C	0.10	1		01/01/24 19:55		H3,H6	

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: SYS-INF		Lab ID: 70281990028		Collected: 12/21/23 07:10		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	3780	ug/L	100	1	12/27/23 07:51	12/27/23 16:08	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/26/23 21:28	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/26/23 21:28	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/26/23 21:28	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/26/23 21:28	75-34-3		
1,1-Dichloroethene	1.1	ug/L	1.0	1		12/26/23 21:28	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/26/23 21:28	107-06-2		
1,2-Dichloroethene (Total)	579	ug/L	40.0	20		12/27/23 20:53	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/26/23 21:28	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/26/23 21:28	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/26/23 21:28	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/26/23 21:28	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/26/23 21:28	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/26/23 21:28	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/26/23 21:28	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/26/23 21:28	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/26/23 21:28	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/26/23 21:28	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/26/23 21:28	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/26/23 21:28	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/26/23 21:28	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/26/23 21:28	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/26/23 21:28	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/26/23 21:28	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/26/23 21:28	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/26/23 21:28	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/26/23 21:28	100-42-5		
Tetrachloroethene	983	ug/L	20.0	20		12/27/23 20:53	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/26/23 21:28	108-88-3		
Trichloroethene	94.6	ug/L	1.0	1		12/26/23 21:28	79-01-6		
Vinyl chloride	35.9	ug/L	1.0	1		12/26/23 21:28	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/26/23 21:28	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/26/23 21:28	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/26/23 21:28	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		12/26/23 21:28	17060-07-0		
4-Bromofluorobenzene (S)	94	%	73-122	1		12/26/23 21:28	460-00-4		
Toluene-d8 (S)	93	%	75-122	1		12/26/23 21:28	2037-26-5		
4500H+ pH, Electrometric									
Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville									
pH	7.3	Std. Units	0.10	1		01/01/24 19:52		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20
Pace Project No.: 70281990

Sample: SYS-INF		Lab ID: 70281990028		Collected: 12/21/23 07:10		Received: 12/21/23 16:10		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)		23.0	deg C	0.10	1		01/01/24 19:52		H3,H6

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: UG		Lab ID: 70281990029		Collected: 12/21/23 07:40		Received: 12/21/23 16:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Iron	6180	ug/L	100	1	12/27/23 07:51	12/27/23 16:11	7439-89-6		
8260C Volatile Organics		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/26/23 21:07	71-55-6		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/26/23 21:07	79-34-5		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/26/23 21:07	79-00-5		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/26/23 21:07	75-34-3		
1,1-Dichloroethene	2.3	ug/L	1.0	1		12/26/23 21:07	75-35-4		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/26/23 21:07	107-06-2		
1,2-Dichloroethene (Total)	1310	ug/L	100	50		12/27/23 20:32	540-59-0		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/26/23 21:07	78-87-5		
2-Butanone (MEK)	<5.0	ug/L	5.0	1		12/26/23 21:07	78-93-3		
2-Hexanone	<5.0	ug/L	5.0	1		12/26/23 21:07	591-78-6		
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		12/26/23 21:07	108-10-1		
Acetone	<5.0	ug/L	5.0	1		12/26/23 21:07	67-64-1	IC	
Benzene	<0.70	ug/L	0.70	1		12/26/23 21:07	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/26/23 21:07	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/26/23 21:07	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		12/26/23 21:07	74-83-9	v3	
Carbon disulfide	<1.0	ug/L	1.0	1		12/26/23 21:07	75-15-0		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/26/23 21:07	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		12/26/23 21:07	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/26/23 21:07	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/26/23 21:07	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/26/23 21:07	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/26/23 21:07	124-48-1		
Ethylbenzene	<1.0	ug/L	1.0	1		12/26/23 21:07	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/26/23 21:07	75-09-2		
Styrene	<1.0	ug/L	1.0	1		12/26/23 21:07	100-42-5		
Tetrachloroethene	620	ug/L	50.0	50		12/27/23 20:32	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/26/23 21:07	108-88-3		
Trichloroethene	185	ug/L	1.0	1		12/26/23 21:07	79-01-6		
Vinyl chloride	85.0	ug/L	1.0	1		12/26/23 21:07	75-01-4		
Xylene (Total)	<3.0	ug/L	3.0	1		12/26/23 21:07	1330-20-7		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/26/23 21:07	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/26/23 21:07	10061-02-6		
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		12/26/23 21:07	17060-07-0		
4-Bromofluorobenzene (S)	96	%	73-122	1		12/26/23 21:07	460-00-4		
Toluene-d8 (S)	94	%	75-122	1		12/26/23 21:07	2037-26-5		
4500H+ pH, Electrometric									
Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville									
pH	6.4	Std. Units	0.10	1		01/01/24 20:01		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

Sample: UG		Lab ID: 70281990029		Collected: 12/21/23 07:40		Received: 12/21/23 16:10		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric		Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
Temperature, Water (C)		22.2	deg C	0.10	1		01/01/24 20:01		H3,H6

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

QC Batch: 332082

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: 70281990020, 70281990027, 70281990028, 70281990029

METHOD BLANK: 1702270

Matrix: Water

Associated Lab Samples: 70281990020, 70281990027, 70281990028, 70281990029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	12/27/23 14:57	

LABORATORY CONTROL SAMPLE: 1702271

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

MATRIX SPIKE SAMPLE: 1702273

Parameter	Units	70282325002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	<100	5000	5260	104	70-130	

MATRIX SPIKE SAMPLE: 1702275

Parameter	Units	70281983001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	218	5000	5380	103	70-130	

SAMPLE DUPLICATE: 1702272

Parameter	Units	70282325002 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	<100	<100		

SAMPLE DUPLICATE: 1702274

Parameter	Units	70281983001 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	218	211	3	

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

QC Batch:	331855	Analysis Method:	EPA 8260C/5030C
QC Batch Method:	EPA 8260C/5030C	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70281990001, 70281990002, 70281990003, 70281990004, 70281990005, 70281990006, 70281990007, 70281990008, 70281990009, 70281990010		

METHOD BLANK: 1700853

Matrix: Water

Associated Lab Samples: 70281990001, 70281990002, 70281990003, 70281990004, 70281990005, 70281990006, 70281990007, 70281990008, 70281990009, 70281990010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/22/23 15:18	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	12/22/23 15:18	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	12/22/23 15:18	IC
1,1-Dichloroethane	ug/L	<1.0	1.0	12/22/23 15:18	
1,1-Dichloroethene	ug/L	<1.0	1.0	12/22/23 15:18	
1,2-Dichloroethane	ug/L	<1.0	1.0	12/22/23 15:18	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	12/22/23 15:18	
1,2-Dichloropropane	ug/L	<1.0	1.0	12/22/23 15:18	
2-Butanone (MEK)	ug/L	<5.0	5.0	12/22/23 15:18	
2-Hexanone	ug/L	<5.0	5.0	12/22/23 15:18	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	12/22/23 15:18	
Acetone	ug/L	<5.0	5.0	12/22/23 15:18	IL
Benzene	ug/L	<0.70	0.70	12/22/23 15:18	
Bromodichloromethane	ug/L	<1.0	1.0	12/22/23 15:18	
Bromoform	ug/L	<1.0	1.0	12/22/23 15:18	
Bromomethane	ug/L	<1.0	1.0	12/22/23 15:18	IC
Carbon disulfide	ug/L	<1.0	1.0	12/22/23 15:18	
Carbon tetrachloride	ug/L	<1.0	1.0	12/22/23 15:18	
Chlorobenzene	ug/L	<1.0	1.0	12/22/23 15:18	
Chloroethane	ug/L	<1.0	1.0	12/22/23 15:18	
Chloroform	ug/L	<1.0	1.0	12/22/23 15:18	
Chloromethane	ug/L	<1.0	1.0	12/22/23 15:18	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	12/22/23 15:18	
Dibromochloromethane	ug/L	<1.0	1.0	12/22/23 15:18	
Ethylbenzene	ug/L	<1.0	1.0	12/22/23 15:18	
Methylene Chloride	ug/L	<1.0	1.0	12/22/23 15:18	
Styrene	ug/L	<1.0	1.0	12/22/23 15:18	
Tetrachloroethene	ug/L	<1.0	1.0	12/22/23 15:18	
Toluene	ug/L	<1.0	1.0	12/22/23 15:18	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	12/22/23 15:18	
Trichloroethene	ug/L	<1.0	1.0	12/22/23 15:18	
Vinyl chloride	ug/L	<1.0	1.0	12/22/23 15:18	
Xylene (Total)	ug/L	<3.0	3.0	12/22/23 15:18	
1,2-Dichloroethane-d4 (S)	%	102	80-120	12/22/23 15:18	
4-Bromofluorobenzene (S)	%	100	73-122	12/22/23 15:18	
Toluene-d8 (S)	%	98	75-122	12/22/23 15:18	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

LABORATORY CONTROL SAMPLE: 1700854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.4	89	66-121	
1,1,2,2-Tetrachloroethane	ug/L	50	47.2	94	75-119	
1,1,2-Trichloroethane	ug/L	50	49.1	98	81-120	IC
1,1-Dichloroethane	ug/L	50	42.5	85	61-127	
1,1-Dichloroethene	ug/L	50	43.1	86	51-133	
1,2-Dichloroethane	ug/L	50	44.9	90	70-127	
1,2-Dichloroethene (Total)	ug/L	100	88.4	88	67-134	
1,2-Dichloropropane	ug/L	50	44.4	89	73-121	
2-Butanone (MEK)	ug/L	50	55.1	110	46-183	
2-Hexanone	ug/L	50	40.6	81	53-145	
4-Methyl-2-pentanone (MIBK)	ug/L	50	43.9	88	64-131	
Acetone	ug/L	50	40.5	81	21-195	IL
Benzene	ug/L	50	44.1	88	72-122	
Bromodichloromethane	ug/L	50	48.2	96	79-118	
Bromoform	ug/L	50	51.9	104	61-139	
Bromomethane	ug/L	50	52.1	104	25-144	IC
Carbon disulfide	ug/L	50	43.2	86	50-126	
Carbon tetrachloride	ug/L	50	45.7	91	57-124	
Chlorobenzene	ug/L	50	43.9	88	72-125	
Chloroethane	ug/L	50	45.5	91	51-136	
Chloroform	ug/L	50	46.5	93	69-124	
Chloromethane	ug/L	50	44.4	89	18-160	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-127	
Dibromochloromethane	ug/L	50	48.3	97	72-134	
Ethylbenzene	ug/L	50	42.0	84	72-120	
Methylene Chloride	ug/L	50	44.5	89	59-127	
Styrene	ug/L	50	45.1	90	77-128	
Tetrachloroethene	ug/L	50	45.2	90	60-134	
Toluene	ug/L	50	44.8	90	75-120	
trans-1,3-Dichloropropene	ug/L	50	48.5	97	62-136	
Trichloroethene	ug/L	50	48.3	97	74-118	
Vinyl chloride	ug/L	50	42.5	85	39-127	
Xylene (Total)	ug/L	150	126	84	70-121	
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			100	73-122	
Toluene-d8 (S)	%			97	75-122	

MATRIX SPIKE SAMPLE: 1701777

Parameter	Units	70281817011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	51.4	103	68-134	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	46.3	93	64-126	
1,1,2-Trichloroethane	ug/L	<1.0	50	50.3	101	68-131	IC
1,1-Dichloroethane	ug/L	<1.0	50	48.0	96	54-145	
1,1-Dichloroethene	ug/L	<1.0	50	49.9	100	53-147	

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

MATRIX SPIKE SAMPLE: 1701777		70281817011	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
1,2-Dichloroethane	ug/L	<1.0	50	47.7	95	58-141	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	99.1	99	57-152	
1,2-Dichloropropane	ug/L	<1.0	50	48.2	96	64-136	
2-Butanone (MEK)	ug/L	<5.0	50	47.6	95	23-184	
2-Hexanone	ug/L	<5.0	50	35.9	72	49-129	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	40.2	80	52-141	
Acetone	ug/L	<5.0	50	28.2	56	20-139	IL
Benzene	ug/L	<1.0	50	49.6	99	67-139	
Bromodichloromethane	ug/L	<1.0	50	51.1	102	70-127	
Bromoform	ug/L	<1.0	50	48.7	97	47-138	
Bromomethane	ug/L	<1.0	50	56.0	112	10-148	IC
Carbon disulfide	ug/L	<1.0	50	51.3	103	51-135	
Carbon tetrachloride	ug/L	<1.0	50	52.0	104	61-136	
Chlorobenzene	ug/L	<1.0	50	49.9	100	73-130	
Chloroethane	ug/L	<1.0	50	51.2	102	48-152	
Chloroform	ug/L	<1.0	50	50.7	101	58-143	
Chloromethane	ug/L	<1.0	50	50.3	101	17-167	
cis-1,3-Dichloropropene	ug/L	<1.0	50	52.2	104	59-134	
Dibromochloromethane	ug/L	<1.0	50	49.5	99	65-133	
Ethylbenzene	ug/L	<1.0	50	48.0	96	63-139	
Methylene Chloride	ug/L	<1.0	50	49.3	99	47-142	
Styrene	ug/L	<1.0	50	49.5	99	72-134	
Tetrachloroethene	ug/L	<1.0	50	47.9	96	64-144	
Toluene	ug/L	<1.0	50	49.9	100	72-136	
trans-1,3-Dichloropropene	ug/L	<1.0	50	49.6	99	53-139	
Trichloroethene	ug/L	<1.0	50	55.6	111	76-130	
Vinyl chloride	ug/L	<1.0	50	50.3	101	43-135	
Xylene (Total)	ug/L	<3.0	150	143	96	63-136	
1,2-Dichloroethane-d4 (S)	%				100	80-120	
4-Bromofluorobenzene (S)	%				100	73-122	
Toluene-d8 (S)	%				99	75-122	

SAMPLE DUPLICATE: 1701776

Parameter	Units	70281990003	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		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		

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

SAMPLE DUPLICATE: 1701776

Parameter	Units	70281990003 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		IL
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		IC
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	1.1	1.3	12	
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)	%	98	99		
Toluene-d8 (S)	%	96	99		

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

QC Batch: 331872

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70281990013, 70281990020, 70281990022, 70281990024, 70281990025

METHOD BLANK: 1700908

Matrix: Water

Associated Lab Samples: 70281990013, 70281990020, 70281990022, 70281990024, 70281990025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/22/23 16:35	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	12/22/23 16:35	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	12/22/23 16:35	
1,1-Dichloroethane	ug/L	<1.0	1.0	12/22/23 16:35	
1,1-Dichloroethene	ug/L	<1.0	1.0	12/22/23 16:35	
1,2-Dichloroethane	ug/L	<1.0	1.0	12/22/23 16:35	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	12/22/23 16:35	
1,2-Dichloropropane	ug/L	<1.0	1.0	12/22/23 16:35	
2-Butanone (MEK)	ug/L	<5.0	5.0	12/22/23 16:35	
2-Hexanone	ug/L	<5.0	5.0	12/22/23 16:35	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	12/22/23 16:35	
Acetone	ug/L	<5.0	5.0	12/22/23 16:35	IC
Benzene	ug/L	<0.70	0.70	12/22/23 16:35	
Bromodichloromethane	ug/L	<1.0	1.0	12/22/23 16:35	
Bromoform	ug/L	<1.0	1.0	12/22/23 16:35	
Bromomethane	ug/L	<1.0	1.0	12/22/23 16:35	v3
Carbon disulfide	ug/L	<1.0	1.0	12/22/23 16:35	
Carbon tetrachloride	ug/L	<1.0	1.0	12/22/23 16:35	
Chlorobenzene	ug/L	<1.0	1.0	12/22/23 16:35	
Chloroethane	ug/L	<1.0	1.0	12/22/23 16:35	
Chloroform	ug/L	<1.0	1.0	12/22/23 16:35	
Chloromethane	ug/L	<1.0	1.0	12/22/23 16:35	v3
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	12/22/23 16:35	
Dibromochloromethane	ug/L	<1.0	1.0	12/22/23 16:35	
Ethylbenzene	ug/L	<1.0	1.0	12/22/23 16:35	
Methylene Chloride	ug/L	<1.0	1.0	12/22/23 16:35	
Styrene	ug/L	<1.0	1.0	12/22/23 16:35	
Tetrachloroethene	ug/L	<1.0	1.0	12/22/23 16:35	
Toluene	ug/L	<1.0	1.0	12/22/23 16:35	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	12/22/23 16:35	
Trichloroethene	ug/L	<1.0	1.0	12/22/23 16:35	
Vinyl chloride	ug/L	<1.0	1.0	12/22/23 16:35	
Xylene (Total)	ug/L	<3.0	3.0	12/22/23 16:35	
1,2-Dichloroethane-d4 (S)	%	100	80-120	12/22/23 16:35	
4-Bromofluorobenzene (S)	%	98	73-122	12/22/23 16:35	
Toluene-d8 (S)	%	98	75-122	12/22/23 16:35	

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

LABORATORY CONTROL SAMPLE: 1700909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.4	93	66-121	
1,1,2,2-Tetrachloroethane	ug/L	50	44.0	88	75-119	
1,1,2-Trichloroethane	ug/L	50	49.7	99	81-120	
1,1-Dichloroethane	ug/L	50	50.8	102	61-127	
1,1-Dichloroethene	ug/L	50	52.3	105	51-133	
1,2-Dichloroethane	ug/L	50	50.8	102	70-127	
1,2-Dichloroethene (Total)	ug/L	100	102	102	67-134	
1,2-Dichloropropane	ug/L	50	47.2	94	73-121	
2-Butanone (MEK)	ug/L	50	43.7	87	46-183	
2-Hexanone	ug/L	50	39.7	79	53-145	
4-Methyl-2-pentanone (MIBK)	ug/L	50	43.6	87	64-131	
Acetone	ug/L	50	59.2	118	21-195 IC,v1	
Benzene	ug/L	50	45.3	91	72-122	
Bromodichloromethane	ug/L	50	52.9	106	79-118	
Bromoform	ug/L	50	48.3	97	61-139	
Bromomethane	ug/L	50	26.0	52	25-144 v3	
Carbon disulfide	ug/L	50	52.6	105	50-126	
Carbon tetrachloride	ug/L	50	47.5	95	57-124	
Chlorobenzene	ug/L	50	46.6	93	72-125	
Chloroethane	ug/L	50	64.0	128	51-136 v1	
Chloroform	ug/L	50	52.5	105	69-124	
Chloromethane	ug/L	50	39.2	78	18-160 v3	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	70-127	
Dibromochloromethane	ug/L	50	47.9	96	72-134	
Ethylbenzene	ug/L	50	46.5	93	72-120	
Methylene Chloride	ug/L	50	49.8	100	59-127	
Styrene	ug/L	50	49.6	99	77-128	
Tetrachloroethene	ug/L	50	48.4	97	60-134	
Toluene	ug/L	50	50.2	100	75-120	
trans-1,3-Dichloropropene	ug/L	50	53.9	108	62-136	
Trichloroethene	ug/L	50	49.7	99	74-118	
Vinyl chloride	ug/L	50	43.5	87	39-127	
Xylene (Total)	ug/L	150	143	95	70-121	
1,2-Dichloroethane-d4 (S)	%			93	80-120	
4-Bromofluorobenzene (S)	%			104	73-122	
Toluene-d8 (S)	%			99	75-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701163 1701164

Parameter	Units	70281989006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	47.7	47.0	95	94	68-134	1	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	40.8	42.4	82	85	64-126	4	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	48.6	48.1	97	96	68-131	1	
1,1-Dichloroethane	ug/L	<1.0	50	50	52.7	57.4	105	115	54-145	9	

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1701163 1701164											
Parameter	Units	70281989006		MS	MSD	MSD		MS	MSD	% Rec	Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	
1,1-Dichloroethene	ug/L	<1.0	50	50	50	54.8	52.5	110	105	53-147	4
1,2-Dichloroethane	ug/L	<1.0	50	50	50	52.0	50.6	104	101	58-141	3
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	100	109	103	109	103	57-152	5
1,2-Dichloropropane	ug/L	<1.0	50	50	50	48.5	48.7	97	97	64-136	0
2-Butanone (MEK)	ug/L	17.0	50	50	50	60.5	63.6	87	93	23-184	5
2-Hexanone	ug/L	<5.0	50	50	50	37.4	39.5	75	79	49-129	6
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	50	40.6	44.9	81	90	52-141	10
Acetone	ug/L	<5.0	50	50	50	91.5	98.1	183	196	20-139	7 IC,M1,v1
Benzene	ug/L	<1.0	50	50	50	48.9	47.4	98	95	67-139	3
Bromodichloromethane	ug/L	<1.0	50	50	50	53.6	52.2	107	104	70-127	3
Bromoform	ug/L	<1.0	50	50	50	39.2	39.6	78	79	47-138	1
Bromomethane	ug/L	<1.0	50	50	50	27.0	28.9	54	58	10-148	7 v3
Carbon disulfide	ug/L	<1.0	50	50	50	56.2	54.0	112	108	51-135	4
Carbon tetrachloride	ug/L	<1.0	50	50	50	48.8	46.5	98	93	61-136	5
Chlorobenzene	ug/L	<1.0	50	50	50	43.0	41.8	86	84	73-130	3
Chloroethane	ug/L	<1.0	50	50	50	50.6	57.0	101	114	48-152	12 v1
Chloroform	ug/L	<1.0	50	50	50	55.9	55.0	112	110	58-143	2
Chloromethane	ug/L	<1.0	50	50	50	40.9	42.8	82	86	17-167	5 v3
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	50	54.0	53.2	108	106	59-134	1
Dibromochloromethane	ug/L	<1.0	50	50	50	43.1	40.9	86	82	65-133	5
Ethylbenzene	ug/L	954	50	50	50	464	455	-980	-997	63-139	2 E,M1
Methylene Chloride	ug/L	65.2	50	50	50	111	103	92	76	47-142	8
Styrene	ug/L	13.4	50	50	50	63.9	61.2	101	96	72-134	4
Tetrachloroethene	ug/L	<1.0	50	50	50	45.2	41.9	90	84	64-144	8
Toluene	ug/L	138	50	50	50	153	150	31	24	72-136	2 M1
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	50	52.8	53.6	106	107	53-139	2
Trichloroethene	ug/L	<1.0	50	50	50	52.5	49.2	105	98	76-130	7
Vinyl chloride	ug/L	<1.0	50	50	50	45.1	45.3	90	91	43-135	1
Xylene (Total)	ug/L	4260	150	150	150	985	970	-2180	-2190	63-136	2 ES,MS
1,2-Dichloroethane-d4 (S)	%							92	101	80-120	
4-Bromofluorobenzene (S)	%							102	102	73-122	
Toluene-d8 (S)	%							92	94	75-122	

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

QC Batch: 332004

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70281990026, 70281990027, 70281990028, 70281990029

METHOD BLANK: 1701602

Matrix: Water

Associated Lab Samples: 70281990026, 70281990027, 70281990028, 70281990029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/26/23 12:53	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	12/26/23 12:53	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	12/26/23 12:53	
1,1-Dichloroethane	ug/L	<1.0	1.0	12/26/23 12:53	
1,1-Dichloroethene	ug/L	<1.0	1.0	12/26/23 12:53	
1,2-Dichloroethane	ug/L	<1.0	1.0	12/26/23 12:53	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	12/26/23 12:53	
1,2-Dichloropropane	ug/L	<1.0	1.0	12/26/23 12:53	
2-Butanone (MEK)	ug/L	<5.0	5.0	12/26/23 12:53	
2-Hexanone	ug/L	<5.0	5.0	12/26/23 12:53	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	12/26/23 12:53	
Acetone	ug/L	<5.0	5.0	12/26/23 12:53	IC
Benzene	ug/L	<0.70	0.70	12/26/23 12:53	
Bromodichloromethane	ug/L	<1.0	1.0	12/26/23 12:53	
Bromoform	ug/L	<1.0	1.0	12/26/23 12:53	
Bromomethane	ug/L	<1.0	1.0	12/26/23 12:53	v3
Carbon disulfide	ug/L	<1.0	1.0	12/26/23 12:53	
Carbon tetrachloride	ug/L	<1.0	1.0	12/26/23 12:53	
Chlorobenzene	ug/L	<1.0	1.0	12/26/23 12:53	
Chloroethane	ug/L	<1.0	1.0	12/26/23 12:53	
Chloroform	ug/L	<1.0	1.0	12/26/23 12:53	
Chloromethane	ug/L	<1.0	1.0	12/26/23 12:53	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	12/26/23 12:53	
Dibromochloromethane	ug/L	<1.0	1.0	12/26/23 12:53	
Ethylbenzene	ug/L	<1.0	1.0	12/26/23 12:53	
Methylene Chloride	ug/L	<1.0	1.0	12/26/23 12:53	
Styrene	ug/L	<1.0	1.0	12/26/23 12:53	
Tetrachloroethene	ug/L	<1.0	1.0	12/26/23 12:53	
Toluene	ug/L	<1.0	1.0	12/26/23 12:53	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	12/26/23 12:53	
Trichloroethene	ug/L	<1.0	1.0	12/26/23 12:53	
Vinyl chloride	ug/L	<1.0	1.0	12/26/23 12:53	
Xylene (Total)	ug/L	<3.0	3.0	12/26/23 12:53	
1,2-Dichloroethane-d4 (S)	%	100	80-120	12/26/23 12:53	
4-Bromofluorobenzene (S)	%	101	73-122	12/26/23 12:53	
Toluene-d8 (S)	%	99	75-122	12/26/23 12:53	

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

LABORATORY CONTROL SAMPLE: 1701603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.8	96	66-121	
1,1,2,2-Tetrachloroethane	ug/L	50	43.3	87	75-119	
1,1,2-Trichloroethane	ug/L	50	49.0	98	81-120	
1,1-Dichloroethane	ug/L	50	49.9	100	61-127	
1,1-Dichloroethene	ug/L	50	41.0	82	51-133	
1,2-Dichloroethane	ug/L	50	50.6	101	70-127	
1,2-Dichloroethene (Total)	ug/L	100	101	101	67-134	
1,2-Dichloropropane	ug/L	50	45.5	91	73-121	
2-Butanone (MEK)	ug/L	50	41.6	83	46-183	
2-Hexanone	ug/L	50	43.8	88	53-145	
4-Methyl-2-pentanone (MIBK)	ug/L	50	46.4	93	64-131	
Acetone	ug/L	50	66.4	133	21-195 IC,v1	
Benzene	ug/L	50	46.5	93	72-122	
Bromodichloromethane	ug/L	50	54.0	108	79-118	
Bromoform	ug/L	50	50.7	101	61-139	
Bromomethane	ug/L	50	33.3	67	25-144 v3	
Carbon disulfide	ug/L	50	47.5	95	50-126	
Carbon tetrachloride	ug/L	50	49.6	99	57-124	
Chlorobenzene	ug/L	50	44.6	89	72-125	
Chloroethane	ug/L	50	56.2	112	51-136	
Chloroform	ug/L	50	51.9	104	69-124	
Chloromethane	ug/L	50	47.0	94	18-160	
cis-1,3-Dichloropropene	ug/L	50	53.1	106	70-127	
Dibromochloromethane	ug/L	50	47.6	95	72-134	
Ethylbenzene	ug/L	50	45.4	91	72-120	
Methylene Chloride	ug/L	50	45.8	92	59-127	
Styrene	ug/L	50	48.1	96	77-128	
Tetrachloroethene	ug/L	50	47.1	94	60-134	
Toluene	ug/L	50	50.1	100	75-120	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	62-136	
Trichloroethene	ug/L	50	49.8	100	74-118	
Vinyl chloride	ug/L	50	50.1	100	39-127	
Xylene (Total)	ug/L	150	140	93	70-121	
1,2-Dichloroethane-d4 (S)	%			94	80-120	
4-Bromofluorobenzene (S)	%			104	73-122	
Toluene-d8 (S)	%			96	75-122	

MATRIX SPIKE SAMPLE: 1703213

Parameter	Units	70281990026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	50	48.6	97	68-134	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	38.5	77	64-126	
1,1,2-Trichloroethane	ug/L	<1.0	50	49.0	98	68-131	
1,1-Dichloroethane	ug/L	<1.0	50	47.9	96	54-145	
1,1-Dichloroethene	ug/L	<1.0	50	43.1	86	53-147	

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

MATRIX SPIKE SAMPLE: 1703213		70281990026	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	<1.0	50	47.0	94	58-141	
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	100	57-152	
1,2-Dichloropropane	ug/L	<1.0	50	45.3	91	64-136	
2-Butanone (MEK)	ug/L	<5.0	50	33.7	67	23-184	
2-Hexanone	ug/L	<5.0	50	36.5	73	49-129	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	39.9	80	52-141	
Acetone	ug/L	<5.0	50	52.6	105	20-139	IC,v1
Benzene	ug/L	<0.70	50	47.6	95	67-139	
Bromodichloromethane	ug/L	<1.0	50	52.0	104	70-127	
Bromoform	ug/L	<1.0	50	41.9	84	47-138	
Bromomethane	ug/L	<1.0	50	32.9	66	10-148	v3
Carbon disulfide	ug/L	<1.0	50	46.5	93	51-135	
Carbon tetrachloride	ug/L	<1.0	50	49.8	100	61-136	
Chlorobenzene	ug/L	<1.0	50	45.2	90	73-130	
Chloroethane	ug/L	<1.0	50	49.3	99	48-152	
Chloroform	ug/L	<1.0	50	50.9	102	58-143	
Chloromethane	ug/L	<1.0	50	44.2	88	17-167	
cis-1,3-Dichloropropene	ug/L	<1.0	50	47.7	95	59-134	
Dibromochloromethane	ug/L	<1.0	50	45.1	90	65-133	
Ethylbenzene	ug/L	<1.0	50	46.2	92	63-139	
Methylene Chloride	ug/L	<1.0	50	47.0	94	47-142	
Styrene	ug/L	<1.0	50	49.0	98	72-134	
Tetrachloroethene	ug/L	2.0	50	51.6	99	64-144	
Toluene	ug/L	<1.0	50	51.2	102	72-136	
trans-1,3-Dichloropropene	ug/L	<1.0	50	49.8	100	53-139	
Trichloroethene	ug/L	15.2	50	66.0	102	76-130	
Vinyl chloride	ug/L	<1.0	50	47.4	95	43-135	
Xylene (Total)	ug/L	<3.0	150	142	95	63-136	
1,2-Dichloroethane-d4 (S)	%				98	80-120	
4-Bromofluorobenzene (S)	%				104	73-122	
Toluene-d8 (S)	%				94	75-122	

SAMPLE DUPLICATE: 1703214

Parameter	Units	70281990027	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	45.4	42.6	7	
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: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

SAMPLE DUPLICATE: 1703214

Parameter	Units	70281990027 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<5.0	<5.0		IC
Benzene	ug/L	<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		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	6.7	6.5	2	
Toluene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	1.9	1.8	5	
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	98	96		
4-Bromofluorobenzene (S)	%	96	94		
Toluene-d8 (S)	%	95	94		

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

QC Batch: 332246

Analysis Method: EPA 8260C/5030C

QC Batch Method: EPA 8260C/5030C

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70281990011, 70281990012, 70281990021, 70281990023

METHOD BLANK: 1703177

Matrix: Water

Associated Lab Samples: 70281990011, 70281990012, 70281990021, 70281990023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/27/23 15:43	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	12/27/23 15:43	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	12/27/23 15:43	
1,1-Dichloroethane	ug/L	<1.0	1.0	12/27/23 15:43	
1,1-Dichloroethene	ug/L	<1.0	1.0	12/27/23 15:43	
1,2-Dichloroethane	ug/L	<1.0	1.0	12/27/23 15:43	
1,2-Dichloroethene (Total)	ug/L	<2.0	2.0	12/27/23 15:43	
1,2-Dichloropropane	ug/L	<1.0	1.0	12/27/23 15:43	
2-Butanone (MEK)	ug/L	<5.0	5.0	12/27/23 15:43	v3
2-Hexanone	ug/L	<5.0	5.0	12/27/23 15:43	v3
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	12/27/23 15:43	v3
Acetone	ug/L	<5.0	5.0	12/27/23 15:43	IC
Benzene	ug/L	<0.70	0.70	12/27/23 15:43	
Bromodichloromethane	ug/L	<1.0	1.0	12/27/23 15:43	
Bromoform	ug/L	<1.0	1.0	12/27/23 15:43	
Bromomethane	ug/L	<1.0	1.0	12/27/23 15:43	v3
Carbon disulfide	ug/L	<1.0	1.0	12/27/23 15:43	
Carbon tetrachloride	ug/L	<1.0	1.0	12/27/23 15:43	
Chlorobenzene	ug/L	<1.0	1.0	12/27/23 15:43	
Chloroethane	ug/L	<1.0	1.0	12/27/23 15:43	
Chloroform	ug/L	<1.0	1.0	12/27/23 15:43	
Chloromethane	ug/L	<1.0	1.0	12/27/23 15:43	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	12/27/23 15:43	
Dibromochloromethane	ug/L	<1.0	1.0	12/27/23 15:43	
Ethylbenzene	ug/L	<1.0	1.0	12/27/23 15:43	
Methylene Chloride	ug/L	<1.0	1.0	12/27/23 15:43	
Styrene	ug/L	<1.0	1.0	12/27/23 15:43	
Tetrachloroethene	ug/L	<1.0	1.0	12/27/23 15:43	
Toluene	ug/L	<1.0	1.0	12/27/23 15:43	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	12/27/23 15:43	
Trichloroethene	ug/L	<1.0	1.0	12/27/23 15:43	
Vinyl chloride	ug/L	<1.0	1.0	12/27/23 15:43	
Xylene (Total)	ug/L	<3.0	3.0	12/27/23 15:43	
1,2-Dichloroethane-d4 (S)	%	110	80-120	12/27/23 15:43	
4-Bromofluorobenzene (S)	%	94	73-122	12/27/23 15:43	
Toluene-d8 (S)	%	107	75-122	12/27/23 15:43	

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

LABORATORY CONTROL SAMPLE: 1703178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.2	90	66-121	
1,1,2,2-Tetrachloroethane	ug/L	50	48.6	97	75-119	
1,1,2-Trichloroethane	ug/L	50	50.0	100	81-120	
1,1-Dichloroethane	ug/L	50	45.1	90	61-127	
1,1-Dichloroethene	ug/L	50	46.1	92	51-133	
1,2-Dichloroethane	ug/L	50	45.9	92	70-127	
1,2-Dichloroethene (Total)	ug/L	100	94.9	95	67-134	
1,2-Dichloropropane	ug/L	50	45.5	91	73-121	
2-Butanone (MEK)	ug/L	50	40.7	81	46-183 v3	
2-Hexanone	ug/L	50	50.5	101	53-145 v3	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.5	91	64-131 v3	
Acetone	ug/L	50	68.7	137	21-195 IC	
Benzene	ug/L	50	44.9	90	72-122	
Bromodichloromethane	ug/L	50	52.0	104	79-118	
Bromoform	ug/L	50	52.6	105	61-139	
Bromomethane	ug/L	50	32.9	66	25-144 v3	
Carbon disulfide	ug/L	50	46.7	93	50-126	
Carbon tetrachloride	ug/L	50	46.2	92	57-124	
Chlorobenzene	ug/L	50	49.0	98	72-125	
Chloroethane	ug/L	50	45.6	91	51-136	
Chloroform	ug/L	50	46.4	93	69-124	
Chloromethane	ug/L	50	40.0	80	18-160	
cis-1,3-Dichloropropene	ug/L	50	51.7	103	70-127	
Dibromochloromethane	ug/L	50	52.6	105	72-134	
Ethylbenzene	ug/L	50	49.3	99	72-120	
Methylene Chloride	ug/L	50	46.6	93	59-127	
Styrene	ug/L	50	53.6	107	77-128	
Tetrachloroethene	ug/L	50	53.5	107	60-134	
Toluene	ug/L	50	49.0	98	75-120	
trans-1,3-Dichloropropene	ug/L	50	52.8	106	62-136	
Trichloroethene	ug/L	50	47.4	95	74-118	
Vinyl chloride	ug/L	50	43.1	86	39-127	
Xylene (Total)	ug/L	150	154	103	70-121	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			107	73-122	
Toluene-d8 (S)	%			109	75-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1704060 1704061

Parameter	Units	70282236001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	44.2	43.3	88	87	68-134	2	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	41.6	42.3	83	85	64-126	2	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	45.3	44.0	91	88	68-131	3	
1,1-Dichloroethane	ug/L	<1.0	50	50	47.4	47.5	95	95	54-145	0	

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1704060 1704061											
Parameter	Units	70282236001		MS	MSD	MSD		MS	MSD	% Rec	Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	
1,1-Dichloroethene	ug/L	<1.0	50	50	50	49.4	47.3	99	95	53-147	4
1,2-Dichloroethane	ug/L	<1.0	50	50	50	44.3	44.6	89	89	58-141	1
1,2-Dichloroethene (Total)	ug/L	<2.0	100	100	100	96.5	95.2	96	95	57-152	1
1,2-Dichloropropane	ug/L	<1.0	50	50	50	43.2	43.6	86	87	64-136	1
2-Butanone (MEK)	ug/L	<5.0	50	50	50	35.0	36.5	70	73	23-184	4 v3
2-Hexanone	ug/L	<5.0	50	50	50	39.4	39.2	79	78	49-129	0 v3
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	50	38.3	41.0	77	82	52-141	7 v3
Acetone	ug/L	<5.0	50	50	50	55.2	56.1	110	112	20-139	2 IC
Benzene	ug/L	<1.0	50	50	50	43.8	43.9	88	88	67-139	0
Bromodichloromethane	ug/L	<1.0	50	50	50	47.1	47.6	94	95	70-127	1
Bromoform	ug/L	<1.0	50	50	50	41.5	43.7	83	87	47-138	5
Bromomethane	ug/L	<1.0	50	50	50	28.2	33.0	56	66	10-148	16 v3
Carbon disulfide	ug/L	<1.0	50	50	50	51.4	48.6	103	97	51-135	6
Carbon tetrachloride	ug/L	<1.0	50	50	50	43.5	44.1	87	88	61-136	1
Chlorobenzene	ug/L	<1.0	50	50	50	45.8	44.9	92	90	73-130	2
Chloroethane	ug/L	<1.0	50	50	50	53.5	47.0	107	94	48-152	13
Chloroform	ug/L	<1.0	50	50	50	48.1	46.9	96	94	58-143	2
Chloromethane	ug/L	<1.0	50	50	50	43.2	41.8	86	84	17-167	3
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	50	46.8	46.6	94	93	59-134	0
Dibromochloromethane	ug/L	<1.0	50	50	50	43.8	44.2	88	88	65-133	1
Ethylbenzene	ug/L	<1.0	50	50	50	47.6	46.6	95	93	63-139	2
Methylene Chloride	ug/L	<1.0	50	50	50	46.1	44.7	92	89	47-142	3
Styrene	ug/L	<1.0	50	50	50	49.8	48.9	100	98	72-134	2
Tetrachloroethene	ug/L	<1.0	50	50	50	54.7	53.0	109	106	64-144	3
Toluene	ug/L	<1.0	50	50	50	48.4	47.6	97	95	72-136	2
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	50	46.3	46.9	93	94	53-139	1
Trichloroethene	ug/L	<1.0	50	50	50	46.8	47.3	94	95	76-130	1
Vinyl chloride	ug/L	<1.0	50	50	50	47.0	46.0	94	92	43-135	2
Xylene (Total)	ug/L	<3.0	150	150	150	146	144	97	96	63-136	1
1,2-Dichloroethane-d4 (S)	%							100	102	80-120	
4-Bromofluorobenzene (S)	%							103	103	73-122	
Toluene-d8 (S)	%							106	106	75-122	

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QUALITY CONTROL DATA

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

QC Batch:	332573	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: 70281990020, 70281990027, 70281990028, 70281990029

SAMPLE DUPLICATE: 1704966

Parameter	Units	70281133001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.9	7.9		0 H3,H6,N3
Temperature, Water (C)	deg C	21.1	21.5		2 H3,H6

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QUALIFIERS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

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.

BATCH QUALIFIERS

Batch: 332148

- [1] The post digestion spike for sample 70282325002 (PDS 1702465) did not meet acceptance criteria for Silver.
- [2] The serial dilution for sample 70282325002 (SD 1702466) did not meet acceptance criteria for Aluminum, Iron, Nickel, Lead and Zinc.
- [3] The post digestion spike for sample 70281983001 (PDS 1702467) did not meet acceptance criteria for Silver.
- [4] The serial dilution for sample 70281983001 (SD 1702468) did not meet acceptance criteria for Aluminum and Iron.

ANALYTE QUALIFIERS

- E Analyte concentration exceeded the calibration range. The reported result is estimated.
- ES The reported result is estimated because one or more of the constituent results are qualified as such.
- H3 Sample was received or analysis requested beyond the recognized method holding time.
- H6 Analysis initiated outside of the 15 minute EPA recommended holding time.
- IC The initial calibration for this compound was outside of method control limits. The result is estimated.
- IL This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- 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.

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QUALIFIERS

Project: MINMILT WELL SAMPLING 12/20

Pace Project No.: 70281990

ANALYTE QUALIFIERS

- | | |
|----|--|
| 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 WELL SAMPLING 12/20

Pace Project No.: 70281990

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70281990020	MAG	EPA 200.7	332082	EPA 200.7	332148
70281990027	SYS-EFF	EPA 200.7	332082	EPA 200.7	332148
70281990028	SYS-INF	EPA 200.7	332082	EPA 200.7	332148
70281990029	UG	EPA 200.7	332082	EPA 200.7	332148
70281990001	MW-1	EPA 8260C/5030C	331855		
70281990002	MW-2	EPA 8260C/5030C	331855		
70281990003	MW-3	EPA 8260C/5030C	331855		
70281990004	MW-4	EPA 8260C/5030C	331855		
70281990005	MW-5	EPA 8260C/5030C	331855		
70281990006	MW-6	EPA 8260C/5030C	331855		
70281990007	MW-7	EPA 8260C/5030C	331855		
70281990008	SP-3	EPA 8260C/5030C	331855		
70281990009	SP-4	EPA 8260C/5030C	331855		
70281990010	SP-6	EPA 8260C/5030C	331855		
70281990011	GW-1	EPA 8260C/5030C	332246		
70281990012	GW-2	EPA 8260C/5030C	332246		
70281990013	GW-3	EPA 8260C/5030C	331872		
70281990020	MAG	EPA 8260C/5030C	331872		
70281990021	ML-1A	EPA 8260C/5030C	332246		
70281990022	ML-1B	EPA 8260C/5030C	331872		
70281990023	SCDHS	EPA 8260C/5030C	332246		
70281990024	ML-1C	EPA 8260C/5030C	331872		
70281990025	MW-8	EPA 8260C/5030C	331872		
70281990026	MW-9	EPA 8260C/5030C	332004		
70281990027	SYS-EFF	EPA 8260C/5030C	332004		
70281990028	SYS-INF	EPA 8260C/5030C	332004		
70281990029	UG	EPA 8260C/5030C	332004		
70281990020	MAG	SM22 4500-H+B	332573		
70281990027	SYS-EFF	SM22 4500-H+B	332573		
70281990028	SYS-INF	SM22 4500-H+B	332573		
70281990029	UG	SM22 4500-H+B	332573		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

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

Company Name:	PWG	Contact/Report To:	Benz, Kyle
Street Address:	630 Johnson Ave., Bohemia, NY 11716	Phone #:	(631)589-6353
		E-Mail:	kbenz@pwgrosser.com
		Cc E-Mail:	
Customer Project #:		Invoice To:	
Project Name:	MINMILT MONTHLY	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Data Deliverables:				County / State origin of sample(s):		New York	
☐ Level II ☐ Level III ☐ Level IV ☐ EQUIS ☐ Other _____				Regulatory Program (DW, RCRA, etc.) as applicable:			
				Rush (Pre-approval required): ☐ 12 Day ☐ 3 day ☐ 5 day ☐ Other _____			
Date Results Requested: _____ Field Filtered (if applicable): ☐ Yes ☐ No Analysis: _____				DW PWSID # or WW Permit # as applicable: _____			
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk							
Customer Sample ID		Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End	
				Date	Time	Date	Time
ML-1G SVE-INF		WT	G	10/21/23	7:25		
ML-1G GW-1		WT	G		14:54		
ML-1G GW-2		WT	↑		14:05		
ML-1G GW-3		WT	↑		14:02		
ML-1G		WT					
MW-8		WT					
MW-9		WT					
SYS-EFF		WT					
SYS-INF		WT					
UG		WT					

Customer Remarks / Special Conditions / Possible Hazards:	Collected By: Printed Name: Signature:
Relinquished by Company: (Signature)	Kylie Benz
Relinquished by Company: (Signature)	Kylie Benz
Relinquished by Company: (Signature)	Received by/Company: (Signature) Date/Time: 12/21/23 1010
Relinquished by Company: (Signature)	Received by/Company: (Signature)
Relinquished by Company: (Signature)	Received by/Company: (Signature)
Relinquished by Company: (Signature)	Received by/Company: (Signature)

Date/Time:	12/24/20 16:15	Tracking Number:	
Date/Time:		Delivered by:	☐ In-Person ☐ Courier
Date/Time:			☐ FedEx ☐ UPS ☐ Other
Date/Time:		Page:	1 of 2

3

2 of 3

WO#: 70281990

PM: DHB

Due Date: 01/09/24

CLIENT: PWG

Client Name:

PWG

Project #

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☒ None ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ None

Thermometer Used: TH211 Correction Factor: +0.4 ☐ Samples on ice, cooling process has begun
Cooler Temperature (°C): 2.1 Cooler Temperature Corrected (°C): 2.5 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

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

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 (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2. SOME SAMPLES HAVE NO TIME OF COLLECTION
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No	6.
Rush Turn Around Time Requested ☒ Yes ☐ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	10.
Containers Intact: ☒ Yes ☐ No	11.
Filtered volume received for Dissolved tests ☐ Yes ☒ No ☐ N/A	Note: if sediment is visible in the dissolved container.
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	

Date and Initials of person checking preservation:

All containers needing preservation have been ☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # 227822J	Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, ☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	
Per Method, VOA pH is checked after analysis	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added:
KI starch test strips Lot #	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #	15. Positive for Sulfide? Y N
SM 4500 CN samples checked for sul ☒ Yes ☐ No ☐ N/A	16.
Lead Acetate Strips Lot #	17.
Headspace in VOA Vials (>6mm): ☐ Yes ☒ No ☐ N/A	
Trip Blank Present: ☐ Yes ☐ No ☒ N/A	
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A	

DATE AND INITIALS OF PERSON COMPLETING SECOND REVIEW:

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

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



ANALYTICAL REPORT

Lab Number:	L2376154
Client:	Pace Analytical Services Inc 575 Broad Hollow Road Melville, NY 11747
ATTN:	Daniel Bonitto
Phone:	(631) 694-3040
Project Name:	MINMILT WELL SAMPLING 12/20
Project Number:	70281990
Report Date:	01/09/24

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2376154-01	SVE-INF	SOIL_VAPOR	NY	12/21/23 07:25	12/26/23

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

Case Narrative (continued)

Volatile Organics in Air

L2376154-01D: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 01/09/24

AIR

Project Name: MINMILT WELL SAMPLING 12/20**Lab Number:** L2376154**Project Number:** 70281990**Report Date:** 01/09/24**SAMPLE RESULTS**

Lab ID: L2376154-01 D

Client ID: SVE-INF

Sample Location: NY

Date Collected: 12/21/23 07:25

Date Received: 12/26/23

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 01/09/24 06:30

Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.03	0.421	--	5.09	2.08	--		2.106
Chloromethane	ND	0.421	--	ND	0.869	--		2.106
Freon-114	ND	0.421	--	ND	2.94	--		2.106
Vinyl chloride	ND	0.421	--	ND	1.08	--		2.106
1,3-Butadiene	ND	0.421	--	ND	0.931	--		2.106
Bromomethane	ND	0.421	--	ND	1.63	--		2.106
Chloroethane	0.756	0.421	--	1.99	1.11	--		2.106
Ethanol	50.3	10.5	--	94.8	19.8	--		2.106
Vinyl bromide	ND	0.421	--	ND	1.84	--		2.106
Acetone	9.03	2.11	--	21.5	5.01	--		2.106
Trichlorofluoromethane	ND	0.421	--	ND	2.37	--		2.106
Isopropanol	9.60	1.05	--	23.6	2.58	--		2.106
1,1-Dichloroethene	ND	0.421	--	ND	1.67	--		2.106
Methylene chloride	2.13	1.05	--	7.40	3.65	--		2.106
3-Chloropropene	ND	0.421	--	ND	1.32	--		2.106
Carbon disulfide	0.750	0.421	--	2.34	1.31	--		2.106
Freon-113	ND	0.421	--	ND	3.23	--		2.106
trans-1,2-Dichloroethene	1.59	0.421	--	6.30	1.67	--		2.106
1,1-Dichloroethane	8.79	0.421	--	35.6	1.70	--		2.106
Methyl tert butyl ether	ND	0.421	--	ND	1.52	--		2.106
2-Butanone	2.76	1.05	--	8.14	3.10	--		2.106
cis-1,2-Dichloroethene	84.9	0.421	--	337	1.67	--		2.106
Ethyl Acetate	ND	1.05	--	ND	3.78	--		2.106



Project Name: MINMILT WELL SAMPLING 12/20**Lab Number:** L2376154**Project Number:** 70281990**Report Date:** 01/09/24**SAMPLE RESULTS**

Lab ID: L2376154-01 D

Client ID: SVE-INF

Sample Location: NY

Date Collected: 12/21/23 07:25

Date Received: 12/26/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloroform	0.539	0.421	--	2.63	2.06	--		2.106
Tetrahydrofuran	ND	1.05	--	ND	3.10	--		2.106
1,2-Dichloroethane	ND	0.421	--	ND	1.70	--		2.106
n-Hexane	1.66	0.421	--	5.85	1.48	--		2.106
1,1,1-Trichloroethane	1.18	0.421	--	6.44	2.30	--		2.106
Benzene	1.78	0.421	--	5.69	1.34	--		2.106
Carbon tetrachloride	ND	0.421	--	ND	2.65	--		2.106
Cyclohexane	ND	0.421	--	ND	1.45	--		2.106
1,2-Dichloropropane	ND	0.421	--	ND	1.95	--		2.106
Bromodichloromethane	ND	0.421	--	ND	2.82	--		2.106
1,4-Dioxane	ND	0.421	--	ND	1.52	--		2.106
Trichloroethene	10.4	0.421	--	55.9	2.26	--		2.106
2,2,4-Trimethylpentane	0.508	0.421	--	2.37	1.97	--		2.106
Heptane	1.40	0.421	--	5.74	1.73	--		2.106
cis-1,3-Dichloropropene	ND	0.421	--	ND	1.91	--		2.106
4-Methyl-2-pentanone	ND	1.05	--	ND	4.30	--		2.106
trans-1,3-Dichloropropene	ND	0.421	--	ND	1.91	--		2.106
1,1,2-Trichloroethane	ND	0.421	--	ND	2.30	--		2.106
Toluene	4.92	0.421	--	18.5	1.59	--		2.106
2-Hexanone	ND	0.421	--	ND	1.73	--		2.106
Dibromochloromethane	ND	0.421	--	ND	3.59	--		2.106
1,2-Dibromoethane	ND	0.421	--	ND	3.24	--		2.106
Tetrachloroethene	78.3	0.421	--	531	2.85	--		2.106
Chlorobenzene	1.40	0.421	--	6.45	1.94	--		2.106
Ethylbenzene	1.60	0.421	--	6.95	1.83	--		2.106
p/m-Xylene	5.38	0.842	--	23.4	3.66	--		2.106



Project Name: MINMILT WELL SAMPLING 12/20**Lab Number:** L2376154**Project Number:** 70281990**Report Date:** 01/09/24**SAMPLE RESULTS**

Lab ID: L2376154-01 D

Client ID: SVE-INF

Sample Location: NY

Date Collected: 12/21/23 07:25

Date Received: 12/26/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Bromoform	ND	0.421	--	ND	4.35	--		2.106
Styrene	ND	0.421	--	ND	1.79	--		2.106
1,1,2,2-Tetrachloroethane	ND	0.421	--	ND	2.89	--		2.106
o-Xylene	1.63	0.421	--	7.08	1.83	--		2.106
4-Ethyltoluene	ND	0.421	--	ND	2.07	--		2.106
1,3,5-Trimethylbenzene	0.470	0.421	--	2.31	2.07	--		2.106
1,2,4-Trimethylbenzene	1.86	0.421	--	9.14	2.07	--		2.106
Benzyl chloride	ND	0.421	--	ND	2.18	--		2.106
1,3-Dichlorobenzene	ND	0.421	--	ND	2.53	--		2.106
1,4-Dichlorobenzene	ND	0.421	--	ND	2.53	--		2.106
1,2-Dichlorobenzene	ND	0.421	--	ND	2.53	--		2.106
1,2,4-Trichlorobenzene	ND	0.421	--	ND	3.13	--		2.106
Hexachlorobutadiene	ND	0.421	--	ND	4.49	--		2.106

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	99		60-140



Project Name: MINMILT WELL SAMPLING 12/20

Lab Number: L2376154

Project Number: 70281990

Report Date: 01/09/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/08/24 15:02

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1872112-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: MINMILT WELL SAMPLING 12/20**Lab Number:** L2376154**Project Number:** 70281990**Report Date:** 01/09/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/08/24 15:02

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1872112-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: MINMILT WELL SAMPLING 12/20

Lab Number: L2376154

Project Number: 70281990

Report Date: 01/09/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/08/24 15:02

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1872112-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1872112-3								
Dichlorodifluoromethane	91		-		70-130	-		
Chloromethane	97		-		70-130	-		
Freon-114	104		-		70-130	-		
Vinyl chloride	100		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Bromomethane	100		-		70-130	-		
Chloroethane	103		-		70-130	-		
Ethanol	109		-		40-160	-		
Vinyl bromide	96		-		70-130	-		
Acetone	120		-		40-160	-		
Trichlorofluoromethane	108		-		70-130	-		
Isopropanol	103		-		40-160	-		
1,1-Dichloroethene	103		-		70-130	-		
Tertiary butyl Alcohol	91		-		70-130	-		
Methylene chloride	98		-		70-130	-		
3-Chloropropene	104		-		70-130	-		
Carbon disulfide	87		-		70-130	-		
Freon-113	96		-		70-130	-		
trans-1,2-Dichloroethene	95		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
Methyl tert butyl ether	89		-		70-130	-		
2-Butanone	99		-		70-130	-		
cis-1,2-Dichloroethene	99		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: MINMILT WELL SAMPLING 12/20

Project Number: 70281990

Lab Number: L2376154

Report Date: 01/09/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1872112-3								
Ethyl Acetate	98		-		70-130	-		
Chloroform	92		-		70-130	-		
Tetrahydrofuran	96		-		70-130	-		
1,2-Dichloroethane	103		-		70-130	-		
n-Hexane	112		-		70-130	-		
1,1,1-Trichloroethane	111		-		70-130	-		
Benzene	98		-		70-130	-		
Carbon tetrachloride	106		-		70-130	-		
Cyclohexane	109		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	107		-		70-130	-		
1,4-Dioxane	102		-		70-130	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	112		-		70-130	-		
Heptane	113		-		70-130	-		
cis-1,3-Dichloropropene	103		-		70-130	-		
4-Methyl-2-pentanone	114		-		70-130	-		
trans-1,3-Dichloropropene	101		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
Toluene	89		-		70-130	-		
2-Hexanone	100		-		70-130	-		
Dibromochloromethane	100		-		70-130	-		
1,2-Dibromoethane	87		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: MINMILT WELL SAMPLING 12/20

Project Number: 70281990

Lab Number: L2376154

Report Date: 01/09/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1872112-3								
Tetrachloroethene	80		-		70-130	-		
Chlorobenzene	84		-		70-130	-		
Ethylbenzene	88		-		70-130	-		
p/m-Xylene	92		-		70-130	-		
Bromoform	93		-		70-130	-		
Styrene	84		-		70-130	-		
1,1,2,2-Tetrachloroethane	90		-		70-130	-		
o-Xylene	94		-		70-130	-		
4-Ethyltoluene	89		-		70-130	-		
1,3,5-Trimethylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	94		-		70-130	-		
Benzyl chloride	87		-		70-130	-		
1,3-Dichlorobenzene	86		-		70-130	-		
1,4-Dichlorobenzene	85		-		70-130	-		
1,2-Dichlorobenzene	86		-		70-130	-		
1,2,4-Trichlorobenzene	84		-		70-130	-		
Hexachlorobutadiene	86		-		70-130	-		

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Serial_No:01092417:19
Lab Number: L2376154
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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2376154-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2376154-01X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)

Project Name: MINMILT WELL SAMPLING 12/20
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Report Date: 01/09/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: MINMILT WELL SAMPLING 12/20
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Lab Number: L2376154
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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: MINMILT WELL SAMPLING 12/20
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Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: MINMILT WELL SAMPLING 12/20
Project Number: 70281990

Lab Number: L2376154
Report Date: 01/09/24

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 20

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Certification Information**The following analytes are not included in our Primary NELAP Scope of Accreditation:****Westborough Facility****EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B**The following analytes are included in our Massachusetts DEP Scope of Accreditation****Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

12/27/23

12376154

Chain of Custody

PASI New York Laboratory



Workorder: 70281990

Workorder Name: MINMILT WELL SAMPLING 12/20

Results Requested By: 1/9/2024

Report / Invoice To		Subcontract To		Requested Analysis																									
Daniel H. Bonitto Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone 516-370-6000 Email: daniel.bonitto@pacelabs.com		Alpha-Mansfield Lab 320 Forbes Blvd Mansfield, MA 02048-1806		P.O. 70281990 DHB																									
Send Invoice To: invoices@pacelabs.coupahost.com		State of Sample Origin: NY		Preserved Containers								TO-15				LAB USE ONLY													
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Other																								
1	SVE-INF	12/21/2023 07:25	70281990030	Air																									
2																													
3																													
4																													
														Comments															
Transfers	Released By	Date/Time	Received By	Date/Time																									
1	<i>MS MACAN</i>	12/26/23 18:00	<i>MS MACAN</i>	12/26 16:47																									
2	<i>Anthony Green</i>	12/26 19:30	<i>Anthony Green</i>	DEC 26 2023																									
3	<i>Anthony Green</i>	12/26 23:45	<i>Anthony Green</i>	12/26 23:45																									
Cooler Temperature on Receipt °C		Custody Seal Y or N		Received on Ice Y or N		Samples Intact Y or N																							

822

12/27 0245

Whitaker

12/27/23 0245