

August 15, 2024

Massachusetts Department of Environmental
Protection
Bureau of Waste Site Cleanup
436 Dwight Street
Springfield, Massachusetts 01103

**Re: IRA Status Report No. 12 (February 2024 through July 2024)
USPS Main Post Office, 222 Main Street, Great Barrington, MA
RTN 1-17142 - Portion of Former Ried Dry Cleaner Site**

To Whom It May Concern:

On behalf of the United States Postal Service (USPS), AECOM Technical Services, Inc. (AECOM) is submitting this IRA Status Report No. 12 summarizing on-going IRA activities being conducted for two release conditions identified at the USPS Main Post Office (MPO) located at 222 Main Street in Great Barrington, Massachusetts (site). The releases were reported to the Massachusetts Department of Environmental Protection (MassDEP) on October 17 and November 2, 2018. These aforementioned releases were identified as posing a potential Imminent Hazard (IH) condition as defined in 310 CMR 40.0410, the Massachusetts Contingency Plan (MCP). Previous IRA Plans included an IRA Plan dated December 14, 2018 and modifications on May 13, 2019 and February 22, 2022.

The IRA Status report is being submitted to provide a status on the IRA activities being conducted to prevent, eliminate and/or abate the potential IH condition and to comply with reporting requirements per 310 CMR 40.0424. This status report provides a summary of the activities completed between February 1, 2024 and July 31, 2024 as per the 2018 IRA Plan, and 2019 and 2022 modifications. Additionally, to meet the requirements of 310 CMR 40.0425, this status report includes a semi-annual (interim) remedial monitoring report (RMR) for operation of an active groundwater treatment system being conducted as part of IRA Activity #6. An IRA Status Transmittal Form 105 (BWSC-105) and a separate BWSC-105A (for the remedial system) certified by a licensed site professional (LSP) has been submitted concurrently via eDEP with this submittal. The RMRs will continue to be submitted every 6-months (instead of monthly), unless instructed otherwise by MassDEP.

The USPS MPO property is located adjacent to the former Ried Cleaners dry cleaner property at 218 Main Street. The USPS MPO is hydraulically downgradient from Ried Cleaners and has been impacted by chlorinated solvent release at former Ried Cleaners. Therefore, the USPS MPO is considered a part of the former Ried Cleaner Disposal Site and is being tracked under Ried Dry Cleaner's assigned release tracking number (RTN) 1-17142. The location of the USPS post office property, the former Ried Dry Cleaner property, and surrounding properties are shown on **Figure 1**.

An EPA source soil removal project at the former Ried Cleaners property was completed in spring 2021 and a report was issued in September 2021. The Town of Great Barrington has received EPA Brownfields funding for on-going assessment work, and the EPA contractor doing the investigations at the site was

contacted in July 2024 for an update. The following was provided in an email: "The United States Environmental Protection Agency has authorized additional soil, groundwater and indoor air investigations at the former Ried Cleaners Site through its Targeted Brownfields Assessment (TBA) program. A number of soil borings were advanced to delineate potential source areas and four well nests were completed/installed as part of the investigations which included the installation of three additional bedrock wells. These investigations have been recently completed by KGSNE JV II, LLC and a Draft TBA Report was issued in June 2024. Limited additional investigations may be necessary to complete delineation of source areas after which remediation will be initiated."

1. Potentially Responsible Party Conducting IRA

The IRA activities in this status report are being conducted by the USPS under the approved IRA Plan and modifications and in response to the November 8, 2018 letter from the MassDEP to the USPS requesting completion of an IRA. A copy of MassDEP's letter has been provided in previous IRA Status reports. The name and address of the person(s) responsible for conducting IRA activities is provided below:

United States Postal Service (Other Party - Not as PRP for RTN 1-17142)	Licensed Site Professional (For USPS - Providing Seal/Signature BWSC-105)
Michael Rupeikis USPS 80 County Road, Jersey City, NJ 07097 201-714-7235 Email: michael.j.rupeikis@usps.gov	David Austin, LSP (License No. 2062) AECOM 1 Federal Street, 8 th Floor, Boston, MA 02110 (617) 921-2491 Email: david.austin@aecom.com

2. Description of the Release or Threat of Release, Site Conditions, and Surrounding Receptors

2.1 Release Notification and Background

The USPS has been conducting indoor air sampling at the post office building since 2010. The locations of indoor air sampling conducted at the site are depicted on **Figure 2** (First Floor) and **Figure 3** (Basement).

On September 27, 2018, the USPS, AECOM, the Town Planner, and the MassDEP met to discuss indoor air and vapor intrusion (VI) concerns emanating from the former Ried Cleaner Site. The objective of this meeting was to discuss the status of cleanup activities on the Former Ried Dry Cleaner Site, the USPS frustration with delays of cleanup of the source area, and the USPS post office property continuing to be an impacted downgradient receptor. Upcoming planned cleanup activities (water damage from flooding), including some lead-based paint cleanup activities to be conducted by the USPS in the basement, were discussed. During this meeting, the USPS expressed concern of the ongoing detectable levels of chlorinated volatile organic compounds (CVOCs) in indoor air on the First Floor and in the Basement. The source of the CVOCs was determined to be the abutting former Ried Cleaners Site.

During the September 27, 2018 meeting, the MassDEP acknowledged to the parties that the Former Ried Dry Cleaner Site was a top priority brownfield site, but because of property ownership and the current lack of funding for cleanup, a timeframe for remediation was unknown. Additionally, MassDEP stated that because no known IH condition existed at the post office at the time, there would be no ability for MassDEP to take any immediate response action at the post office property. Both the Town Planner and MassDEP indicated that future cleanup of the Ried Dry Cleaner Site would need substantial funds to remediate CVOC-contaminated soils, which are the source of CVOC-impacts to groundwater and is the suspected source of the on-going VI problem at the post office property. At the conclusion of the meeting,

the USPS stated they will be voluntarily conducting some vapor mitigation activities to protect their employees and public safety of their retail customers. Planned activities included: sealing openings in the basement and continuing monitoring indoor air at their own property. The USPS stated they would notify the MassDEP and the Town of any changes in VOC related air quality conditions in the post office building.

A detailed description of the site conditions and changes in site conditions which followed the September 2018 meeting, and which led to the release notification and IRA, can be found in previous IRA related submittals by AECOM. For reference purposes, a description of site conditions and chronological timeline of events which led to the IRA are briefly outlined below.

September 27, 2018 Site Visit – Conducted in preparation of the planned basement cleanup and VI mitigation activities to be voluntarily implemented by USPS to address conditions associated with repeated water infiltration in the building basement. AECOM observed (for the first time) two sumps with pumps containing water in the basement; one in the Fuel Room and a second in the Storage Room. The locations of these two sumps are shown on **Figure 3** and **Figure 5**. At that time, the Fuel Room contained several storage cabinets, including some flammables with various commercial size chemical container. The Fuel Room at the time had a strong, sweet, solvent-like odor in the air.

October 3, 2018 Sump Water Sampling - This sampling confirmed the presence of CVOCs in the water in sump #1 and sump #2 and the utility vault corridor/hallway. Concentrations of tetrachloroethylene (PCE) and trichloroethylene (TCE) in water from the sumps in both the Fuel Room and the Storage Room exceeded the MCP Method 1 GW-1 and GW-2 standards. The concentration of TCE in the utility vault also exceeded the MCP Method 1 GW-1 standard. The CVOC-impacted groundwater in the sumps is recognized to be coming from the abutting former Ried Dry Cleaner property.

October 3 and 5, 2018 Indoor Air Sampling - AECOM conducted Indoor Air Quality (IAQ) sampling in the basement from the Storage Room (IAQ10-9) and the Fuel Room (IAQ10-10) containing the sumps. In the Fuel Room and the Storage Room, the detected concentrations of PCE, TCE, cis-1,2 dichloroethylene (cis-1,2-DCE), and naphthalene exceed the MassDEP commercial/industrial Threshold Values (TV-C/I) for indoor air as published in the MassDEP Guidance Document #WSC-16-435 entitled "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure Policy" (2016 MassDEP Vapor Intrusion Guidance).

October 17, 2018 MassDEP Notification of Potential IH Condition for Discharge to Sewer – Based upon the October 3, 2019 sampling results, AECOM contacted the Town Department of Public Works (DPW) to communicate the suspect discharge of CVOC-contaminated groundwater from the basement sumps (PCE up to 1,000 ug/L and TCE up to 100 ug/L) to the municipal sewer. The Town DPW Superintendent reported this suspect discharge to the MassDEP on October 17, 2018.

October 2018 Indoor Air Evaluation for Imminent Hazard - Based upon the October 2018 indoor air sampling data from the Fuel and Storage Rooms and because of upcoming planned basement cleanup and VI mitigation activities, as requested by USPS, AECOM evaluated the potential inhalation risks/hazards that may be associated with indoor worker exposure to air in the Fuel Room and the Storage Room. AECOM's risk evaluation concluded that:

- The detected concentrations in the indoor air in the Fuel Room and Storage Room constituted a potential IH condition for a hypothetical indoor office worker on a full-time basis (i.e., 8 hours per day for 5 days per week for 50 weeks per year which is the MassDEP ShortForm default

exposure scenario). However, this exposure scenario was not identified to currently exist at the post office;

- Limiting the indoor postal worker exposure to these rooms to 1 hour per day for 3 days per week in the Fuel Room and to 4 hours per day for 5 days per week in the Storage Room, and limiting the indoor contract worker exposure to the Fuel Room to 8 hours per day for 5 days per week for 30 days could prevent a potential IH condition; and,
- USPS should prohibit sensitive receptors (i.e., pregnant women and women who may become pregnant) from the post office basement and to require that upcoming basement cleanup work be conducted using engineering controls.

November 2, 2018 MassDEP Notification of Potential IH Condition for Indoor Air – AECOM notified MassDEP via telephone of the October 2018 indoor air sampling results and the findings of the IH Risk Evaluation. In turn, MassDEP issued a Request for IRA letter (for both the suspect sewer discharge and the indoor air IH results) to USPS to conduct an IRA under RTN 1-17142 (Ried Dry Cleaner site). MassDEP stated no separate RTN would be issued to the USPS for these two new notifications.

[2.2 Reason for IRA](#)

The objective of the IRA is to mitigate potential IH conditions in the Fuel Room (sump #1) and the Storage Room (sump #2) located in the basement of the post office (posed by TCE in indoor air and reported to MassDEP on November 2, 2018) and to address the basement sump pump discharges to the town sewer and reported to MassDEP on October 17, 2018. The MassDEP granted USPS verbal approval to conduct an IRA via phone on November 2, 2018 and written approval in a November 9, 2018 letter to the USPS, which requested submittal of an IRA Plan by December 18, 2018.

The MassDEP approved, at a minimum, that the IRA must include the following immediate response actions:

1. Determine if the two sump pumps are connected to the sewer system;
2. Seal the cracks, sumps, and utility conduit penetrations in the basement to prevent vapor intrusion; and
3. Prevent contaminated groundwater from entering the sewer.

Additionally, MassDEP indicated in their November 9, 2018 letter that “once confirmed that the sumps are connected to the sewer and the Town approves the discharges, then AECOM should include in the IRA Plan a pre-treatment system including a sampling and pre-treatment monitoring schedule.” As confirmed by IRA Activity #4 (Dye Trace Testing) discussed in previous IRA Status Reports to MassDEP, the sumps were found to discharge to the town sewer. Thus, a modified IRA Plan for the installation of carbon treatment system on the sumps (See **Section 3** below - IRA Activity #6) was submitted to MassDEP on May 13, 2019.

[2.3 Site Conditions and Surrounding Receptors](#)

The USPS MPO property is used for commercial purposes as a post office and is located on Main Street, which is the center of the Town of Great Barrington’s primary business district. The property is serviced by municipal water and sewer and is heated by natural gas. The property is abutted to the north by the former

Ried Dry Cleaners property (a Tier I Disposal Site under the MCP), to the east by the town library, and beyond those residential properties along Dresser Avenue, to the south by a Masonic temple place of worship and beyond that commercial properties along Main Street, and to the west by a residential property. Institutions within 500 feet of the USPS property include several churches and the town public library.

As shown on **Figure 4**, the USPS post office property is located within a MassDEP mapped Zone II area. The Zone II area is for the current drinking water supply wells for the Towns of Great Barrington and Sheffield. Groundwater within a Zone II is required to meet the MCP Method 1 GW-1 standards (protective of drinking water). Groundwater is present within 15 feet of the ground surface beneath the building therefore Method 1 GW-2 standards (protective of potential indoor air impacts) also apply to site groundwater. Method 1 GW-3 standards apply to all groundwater in Massachusetts.

[2.4 Human Receptors](#)

The property contains one occupied building that is used as a post office and is in operation 5 days per week, year-round (excluding federal holidays). Typical USPS employees work 8 hours per day on the Main/First Floor. The Phase II Interim CSA (TRC, 2016) indicated that the post office property has been impacted by a release from the abutting former Ried Dry Cleaners property to the north. The release has impacted groundwater on the USPS post office property and indoor air of the post office. Potential human receptors include USPS employees who work at the post office and the public who use the post office retail mail services. In 2018, due to levels of PCE and TCE in the basement air, all USPS employees (unless authorized by the USPS Post Master) have been restricted from going into the basement for any reason.

In the surrounding area, receptors include both adults and children who work and/or frequent nearby commercial properties and/or use the town library and churches, and/or who live in residential homes. Potential contact with the soil at the USPS MPO property could occur as part of outdoor utility or construction work and could result in exposure through the dermal, incidental ingestion and/or inhalation of vapor and/or particulate exposure pathways. There are no schools, daycare or childcare centers in the immediate vicinity; however, within 500-feet of the former Ried Dry Cleaner site, which includes the USPS property, there are residential properties. No private wells are known to exist within 500-feet of former Ried Dry Cleaner site.

[2.5 Environmental Receptors](#)

Surface water resources in the vicinity of the property include the Housatonic River, located approximately 211 feet to the northeast at its closest point. Protected and recreational open space, as mapped by the Massachusetts Geographical Information System (MassGIS), is located approximately 500 feet to the north of the site. There are no known sensitive environmental receptors (i.e. rare wetlands wildlife habitat, vernal pools, etc.) located within 500-feet of the site.

[3. IRA Activities](#)

The USPS is conducting IRA activities in accordance with the December 14, 2018 IRA Plan and the May 13, 2019 and February 22, 2022 modified IRA Plans submitted to the MassDEP. The IRA Plan was verbally approved on December 14, 2018 and the first modified IRA Plan was approved per written email from Cynthia Pawloski of the MassDEP Western Region Office, and the more recent was presumptively approved. The nature and locations of IRA activities being conducted in the basement of the post office building are shown on **Figure 5** and discussed in this section.

As summarized in previous IRA submittals, AECOM worked with various sub-contractors to execute IRA and other non-IRA related activities at the post office. In January 2019, unrelated to the IRA (due to basement flooding), the basement was cleaned and all water damaged debris from flooding was removed and disposed of off-site. In addition, unused surplus postal items were removed and properly disposed of off-site as solid waste. Other activities included: abatement of several areas of peeling lead-based paint (LBP) and removal and off-site disposal of old unused/ containerized chemicals from storage cabinets in the Fuel Room.

In total, the IRA included seven activities, the status of which (through January 2024) are listed below:

IRA Activity #1 Sealing of Basement Doorways and Openings	Completed March 2019
IRA Activity #2 Sealing of Sumps and Utility Vault	Completed January 2019
IRA Activity #3 Sealing of Basement Floor and Crawl Space	Completed February 2019
IRA Activity #4 Dye Trace Test	Completed January 2019
IRA Activity #5 IAQ Sampling	On-Going (Semi-Annual or as needed)
IRA Activity #6 Treatment System Installation/Sampling/operation maintenance and monitoring (OMM)	On-Going (Bi-Monthly)
IRA Activity #7 Air Purifying Units (APUs) – First Floor and Basement	Currently Operational

As indicated above, IRA activities #1 through #4 are complete and details of these activities were summarized in previous IRA Status Reports to MassDEP. The results of the Dye Trace Test (IRA Activity #4) confirmed the connection of the two existing basement sumps #1 and #2 to the municipal sewer which, in turn, led to modification of the IRA Plan and the installation of a groundwater treatment system under IRA Activity #6.

In addition, recently AECOM has conducted pilot testing for the consideration and design of a permanent system to abate vapor intrusion issues. This work is discussed below under IRA Activity #7.

3.1 Status of Assessment and/or Remedial Activities

IRA activities #5 and #6 are still on-going, and the APUs are operational (activity #7). IRA activities #5 - #7 conducted by AECOM since the last status report submittal are provided below, along with a summary of the VI assessment work recently conducted.

IRA Activity #5 - Indoor Air Sampling March 2024

This activity is ongoing and will continue to be conducted until the off-site upgradient CVOC-release source can be controlled and/or remediated. Indoor air sampling is currently being conducted semi-annually, at a minimum. During this IRA reporting period, indoor air sampling (Round 24) was conducted on March 6, 2024 (basement and first floor). Indoor air sampling was conducted in accordance with the 2016 MassDEP Vapor Intrusion Guidance. Similar to past rounds, AECOM completed the following:

- Prior to sampling, AECOM surveyed the basement and of the First/Main Floor to check for presence of chemical storage that may skew sampling data. (Note: Round 24 IAQ sampling

events represents the 14th round following completion of IRA Activities #1 through #4 and completion of basement cleanup activities).

- Nine air samples (IAQ24 series) were collected from the locations listed below and depicted in **Figures 2 and 3**, including:

Main/First Floor (4 samples): Location 1 (Northwest Corner), Location 2 (Center), Location 3 (North Wall/Public Lobby) and Location 4 (Southwest Corner).

Basement: (4 samples): Break/Sump#3 Room (Location 8), Storage/Sump #2 Room (Location 9), Fuel Room/Sump #1 Room (Location 10) and the Boiler Room (Location 11).

Outdoor Air (1 sample): Ambient location on the north side of the post office building adjacent to Former Ried Dry Cleaner property line.

- All air samples were collected over an 8-hour duration using batch-certified stainless-steel summa canisters provided by a state-certified laboratory and analyzed for the MCP List of VOCs by EPA Method TO-15. Air samples were submitted to Con-Test Analytical Labs in Longmeadow, Massachusetts for analysis on a standard turn-around time basis. The laboratory report is provided in **Attachment A**, along with the field sampling sheets.
- During the sampling, the double doors between the boiler room and corridor were closed, and all other doors between rooms in the basement were left open. The three APUs noted below were in operation.

March 2024 Indoor Air Sampling Results

Summary of the March 2024 air sampling results is as follows:

1. All of the four first floor samples indicated site-related VOCs below MassDEP Indoor Air Threshold Values for Commercial/Industrial exposure (TVc/i), except PCE ranging from 4.5 to 12 micrograms per cubic meter (ug/m³). The PCE levels above the TVc/i of 4.1 ug/m³ is consistent with previous sampling rounds and generally lower than results from 2019 – 2021.
2. For site-related VOCs, the four basement samples contained PCE above the TVc/i; but at much lower levels than previous rounds (1 – 2 orders of magnitude). Trichloroethene (TCE) was detected above the TVc/i in one sample in an area rarely accessed (Break Room/Sump Pump #3), and at lower levels than in the past (1 – 2 orders of magnitude). In addition, cis-1,2-dichloroethylene was detected in the same sample slightly above the TVc/i.

Please see attached **Table 1A** (basement) and **Table 1B** (first floor) for results, including historical data for basement since 2018, and first floor sample results since 2018.

Risk Evaluation

Update for IH Conditions

The MassDEP Shortform (Office Workers - Indoor Air Imminent Hazard Evaluation, June 2024 version) was used to evaluate the basement indoor air concentrations. The maximum detected concentrations from the March 2024 samples was used as the exposure point concentration for each detected chemical. The total potential cancer risk of 5E-06 and the hazard index (HI) of 2 are below the Imminent Hazard cancer

risk limit of $1E-5$ and the HI of 10 for noncancer (310 CMR 40.0955(2)). Therefore, an Imminent Hazard condition does not exist in the basement. The Shortform is included in **Attachment D**.

Long-term Risk

As an additional exercise not required for this IRA, the MassDEP Shortform (Method 3 Risk Assessment for Office Workers or Teachers and Students in K-12 Exposed to Chemicals in Indoor Air, June 2024 version) was used to evaluate potential long-term risks based on both the first floor and the basement indoor air concentrations.

For the first floor, all detected chemicals, including those with concentrations below the TVC/i. were evaluated using the Shortform, which assumes potential exposure to chemicals via inhalation of indoor air for 250 days per year for 8 hours per day, for 27 years. The total potential cancer risk is equal to the long-term cancer risk limit of $1E-5$ and the HI of 0.7 is below the long-term HI limit of 1 (310 CMR 40.0993(10)). The potential risk associated with PCE, the only chemical with concentrations above the TVC/i is $3E-5$, and the HI is 0.07. The Shortform is included in **Attachment D**. Therefore, a condition of no-significant risk exists on the first floor based on current indoor air concentrations.

Exposure to the indoor air in the basement is more limited than on the first floor. Therefore, the Shortform was modified to reflect an exposure frequency of 3 days per week for 1 hour per day. As with the first floor, all detected chemicals, including those with concentrations below the TVC/i. were evaluated using the Shortform. The total potential cancer risk of $2E-6$ is below the cancer risk limit of $1E-5$, and the total HI of 0.1 is below the HI limit of 1. Therefore, a condition of no-significant risk exists in the basement based on current indoor air concentrations and the modified exposure assumptions that are in place per USPS (e.g., signage).

IRA Activity #6 - Installation, sampling and monitoring of a groundwater carbon treatment system for the two existing sumps

Under this activity, a carbon treatment system for groundwater from Sump #1 and Sump #2, and from the Tile Drain system (Sump #3) was installed in accordance with the submitted IRA Plans, and MassDEP and local town (DPW) approvals. The system treats groundwater collected from all three sumps - the Fuel Room (Sump #1), Storage Room (Sump #2) and the Tile Drain System (Sump #3); and treats water through Granulated Activated Carbon (GAC) prior to discharge to the town sewer. The installation of the system was complete in June and the system started on June 12, 2019. The system design details, layout and photographs were detailed in previous IRA Status Reports No. 2 and No. 3 to MassDEP.

Since system startup on June 12, 2019, OMM system checks have been conducted by AECOM, as reported in previous IRA Status Reports. During this IRA Status Reporting period OMM system checks and VOC sampling of the system influent, midfluent and effluent (by EPA Method 8260) were conducted in March, May and July 2024. AECOM is also able to remotely monitor the system via the Sensaphone® Sentinel Monitoring System. The system checks indicated the system was running and the remote monitoring system was on and operating normally. A changeout of the liquid-phase granular activated carbon for the lead vessel was performed on February 22, 2024. During this changeout, the secondary vessel was rotated to primary, with the changed out carbon vessel switched to secondary position. The discharge pump was also replaced in April 2024 due to noise likely caused by worn bearings. Hosing sections prior to, between, and after the carbon vessels were also replaced at this time due to wear.

Documentation of these OMM checks is provided below and OMM update memos are provided to the Town DPW, the latest one from August 2024 is attached in **Attachment B** as noted in Section 3.4 below.

OMM System Operation Summary

A summary of the system operation since startup (June 12, 2019) July 13, 2023 is provided in **Table 2** (Water Carbon Treatment System - VOC Analytical Results) and **Table 3** (OMM Summary Data). All system checks were conducted (connection valves, alarms, pressure gauges, etc.) on three dates noted above during this reporting period. As shown on **Table 3**, the system checks indicated the system was running and the remote monitoring system was on and operating normally.

System flow and operation is intermittent and is controlled by float levels in the sumps. Water collected by Sump #3 located in the Break room contributes most of the flow through the system. All three sumps were fully operational during the reporting period. Since startup, the total flow through the system measured approximately 929,320 gallons (as of 7/18/24).

The carbon treatment system has been fully operational since startup. The system turns on when water in each of the three sumps reaches its high level and then transfers water into the accumulation tank. When the water level in the accumulation tank reaches the High float mechanism, a treatment cycle is triggered and water from the accumulation tank is pump through two GAC vessels for treatment and then released (via permit) to the public sewer system.

During the three OMM events during this reporting period, AECOM used a photoionization detector (PID) to screen for total volatile organic compounds (TVOCs) in the three sumps, the Tile Drain Manhole and in several basement rooms. PID readings in the sumps ranged from 0.5 to 24 parts per million vapor (ppmv) and in the Tile Drain Manhole ranged from 0 to 22 ppmv.

AECOM observed water in the bottom of the Tile Drain Manhole (**See Figure 5**). Based upon AECOM observations, the inlet and outlet at the bottom of the manhole are sealed; however, the vertical structure is not completely water tight. A very small amount of groundwater intrudes into and collects at the bottom of the manhole. During each inspection, AECOM typically pumps the water out of the bottom of the Tile Drain Manhole and transfers the water into the accumulation tank which is then treated by system prior to sewer discharge. This volume of water pumped out of the Tile Drain structure averages approximately 300 gallons during each OMM visit. Prior to the July 2024 visit, AECOM further evaluated the benefit of pumping down the Tile Drain Manhole and determined that the practice would be discontinued, as recharge is rapid enough to render this quarterly effort relatively ineffective.

OMM VOC Sampling Results – March, May and July 2024

As part of the March, May and July 2024 OMM visits, AECOM collected water samples from the influent (prior to first carbon), midfluent (between carbons) and effluent (final treated water after second carbon) for laboratory analysis of VOCs by EPA Method 8260C. Samples were transported to and analyzed by Phoenix Environmental Laboratories, Inc., in Manchester, Connecticut. Copies of the laboratory analytical reports are included with the attached memo (**Attachment B**) noted in Section 3.4 below.

The sampling results are summarized in **Table 2**. All effluent sample results were non-detect. The detected CVOCs in the influent and mid-point samples, which were at levels consistent with past sampling rounds, are related to groundwater migration from the adjacent former Ried Dry Cleaner property. Following the low level detections of tetrahydrofuran (THF) reported for the November 2023 midfluent and effluent samples, THF was again detected in the May 2024 midfluent sample only; however, the subsequent July 2024 samples did not show detections of THF. AECOM will continue to review the results of routine water sampling to determine whether there is a recurrence of THF.

The system is working as intended. The midfluent and effluent samples collected in March, May and July 2024, indicate that breakthrough is not occurring and that treated water effluent to the Town's WWTP is below the required MCP Method 1 GW-1 standards (which is protective of drinking water). The CVOC impacted water from the sumps and tile drain system continues to be collected, treated and discharged to the town sewer in accordance with the proposed discharge limits per the May 2019 OMM Plan under the IRA.

An AECOM subcontractor with a Grade 2 (at a minimum) Wastewater Treatment Plant Operator certification inspected the system in April and July 2024.

IRA Activity #7 – APUs

The installation of the initial APUs was completed in March 2022 after 21 days of submittal of this Revised IRA Plan and Status report ("presumptive approval"). A fifth APU was installed in July 2022, and additional APUs were installed in the basement as noted below. Attached **Figure 2** and **Figure 3** depicts the approximate locations of the APUs.

In May 2023, two larger capacity (2,000 CFM) APUs were deployed in the basement to further reduce VOCs concentrations in indoor air at locations closer to the source of their intrusion. A third APU (1,200 CFM) was deployed in the central storage room in September 2023.

AECOM performed a changeout of the carbon filtration media for the first floor and basement units on February 22, 2024. Spent carbon was containerized in 55-gal drums which were transported for disposal on March 28, 2024.

Based upon the operation of the APUs and results of air sampling from March 2024 noted above, the current configuration is present in the basement:

1. The door between boiler room and hall to break room is closed, with the signage about access in place;
2. Fuel room door to boiler room is open because of the APU (#2) in fuel room; and
3. Access restriction notice remains on door to boiler room from upstairs steps.

Pilot Testing

AECOM and its subcontractors conducted sub-slab depressurization system (SSDS) pilot testing in April and May 2024. Two SSDS approaches were tested, the first of which utilized the existing sump #3 in the Former Break Room as an extraction point (Sump SSDS), and the second of which utilized a shallow trench with a TerraVent® vapor mat to apply suction to the sub-slab (trench SSDS). The Sump SSDS and Trench SSDS pilot test results indicated that either approach would be effective in distributing vacuum influence beneath the basement slab for the area of greatest concern, comprised primarily of the Fuel Room, Former Break Room, and eastern Storage Room footprints. AECOM are further reviewing pilot testing results for development of an SSDS design. It is expected that the final design will be presented in a Modified IRA Plan.

3.2 Any Significant and/or New Information or Data, and proposed Changes to IRA activities

Other than the information presented above, no significant or new information has arisen since the last status report.

[3.3 Management of Remediation Waste, Wastewater or Remedial Additives](#)

Spent carbon (three 55-gallon drums) resulting from the media changeout for APUs was transported off-site for disposal on March 28, 2024 and was received for disposal on April 3, 2024. A copy of the manifest (007352057GBF) is attached in **Attachment C**. Additionally, three drums of soil and concrete debris were generated during SSDS pilot testing activities. The drums are currently staged at the facility pending transport and disposal off-site (anticipated August 2024). No other remediation waste, wastewater or remedial additives (excluding treated water from sumps as discussed above) were generated and/or used during this IRA reporting period.

[3.4 Other MassDEP IRA Plan Approval Information, Permits or Access](#)

As described in the May 2019 modified IRA Plan, approvals for the discharge of treated water to the town sewer (IRA Activity #6) were received from the Town of Great Barrington DPW both in person and via email, but to date no written permit from the town DPW has been issued or received. AECOM's May 2019 modified IRA Plan and OMM Plan contained proposed discharge limits. Also, as MassDEP stated in their May 14, 2019 email to all parties that *"The Department will defer to the POTW regarding the treated groundwater discharge, limits and discharge sampling schedule."* As per verbal agreement with the Town DPW, AECOM has been routinely transmitting the requested OMM inspection and sampling information to the DPW (see **Attachment B - OMM Memo for August 2024**).

[3.5 Schedule](#)

Under IRA Activity #5, it is expected that the next semi-annual round of indoor air monitoring (Round 25) will be conducted in fall 2024.

The bi-monthly OMM System checks and VOC system sampling events will be conducted in September, November 2024 and January 2025 under IRA Activity #6.

APU carbon changeout for all units on the first floor and in the basement is currently scheduled for fall 2024.

The results of the SSDS pilot test are currently being evaluated for selection and design of the proposed vapor intrusion mitigation system. Completion of the design is anticipated in August 2024, with system construction tentatively planned for Fall 2024. The work will be presented in a Modified IRA Plan.

4 LSP Opinion, Certification and Other Information

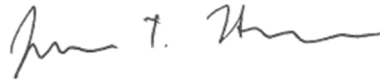
The IRA is being conducted in conformance with the IRA Plan and two Modified IRA Plans prepared by AECOM and submitted to MassDEP in December 2018, May 2019 and February 2022. The seal and signature of David Austin, LSP, who is certifying this Status report, is contained in the BWSC Transmittal Form (BWSC 105) filed via eDEP concurrently with this report. The next IRA Status Report (No. 13) will be submitted in February 2025 (six months from submittal of this report). If you should have any questions about this report, please contact any of the project team members listed below.

Sincerely,

AECOM Technical Services, Inc.



David Austin, PG, LSP
Associate Vice President
T: 617-921-2491
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Senior Engineer
T: 518-951-2303
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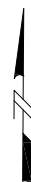
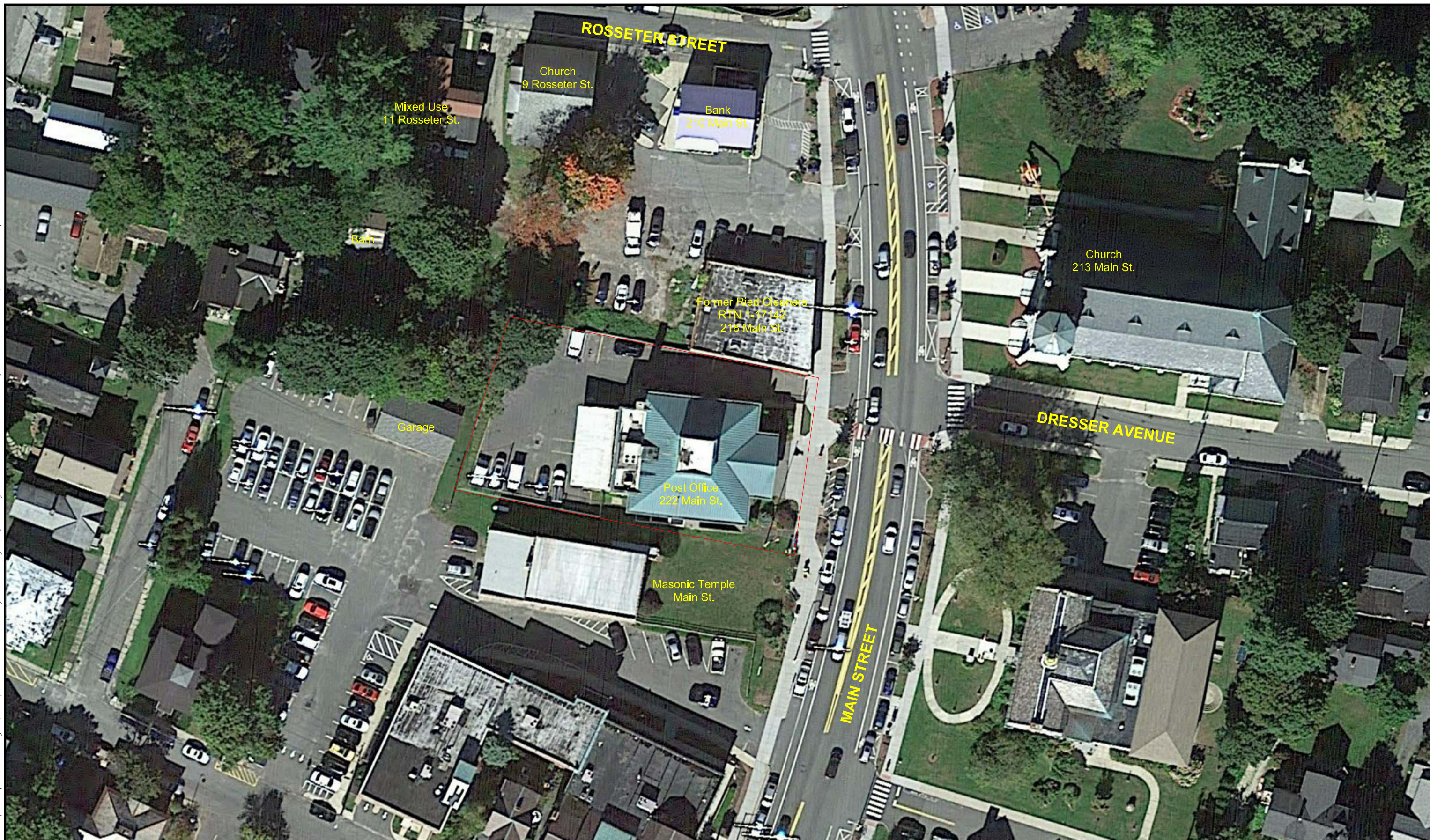
cc. Micheal Rupeikis, USPS

Attachmemnts:

Figures 1 – 5
Tables 1A, 1B, 2 and 3
Attachments A - D

FIGURES

File: P:\Jobs\Cadfiles\CADD\USPS\Great Barrington, MA\USPS - Great Barrington, MA.dwg Layout: Fig 1 - Site Plan User: barryk Plotted: Dec 06, 2018 - 1:07pm Xref's:



USPS Main Post Office - Great Barrington 222 Main Street, Great Barrington, MA PN 60568180			Site Plan	
DATE: 12/06/2018	DRWN: K.P.B.	CHKD: B.E.E.	FIGURE 1	



MAIN STREET

LEGEND

IAQ-1 to IAQ-4 ● 2009 INDOOR AIR SAMPLE (FIRST FLOOR)

IAQX-1 ● POST 2009 TO CURRENT INDOOR AIR SAMPLE (FIRST FLOOR)

LOCATION # LOCATION 1 = NORTHWEST CORNER
ROUND # LOCATION 2 = NORTH WALL/CENTER WORK ROOM
LOCATION 3 = PUBLIC LOBBY
LOCATION 4 = SOUTHWEST CORNER

USPS Main Post Office - Great Barrington
222 Main Street, Great Barrington, MA
PN 60568180

Indoor Air Sampling Locations - First/Main Floor

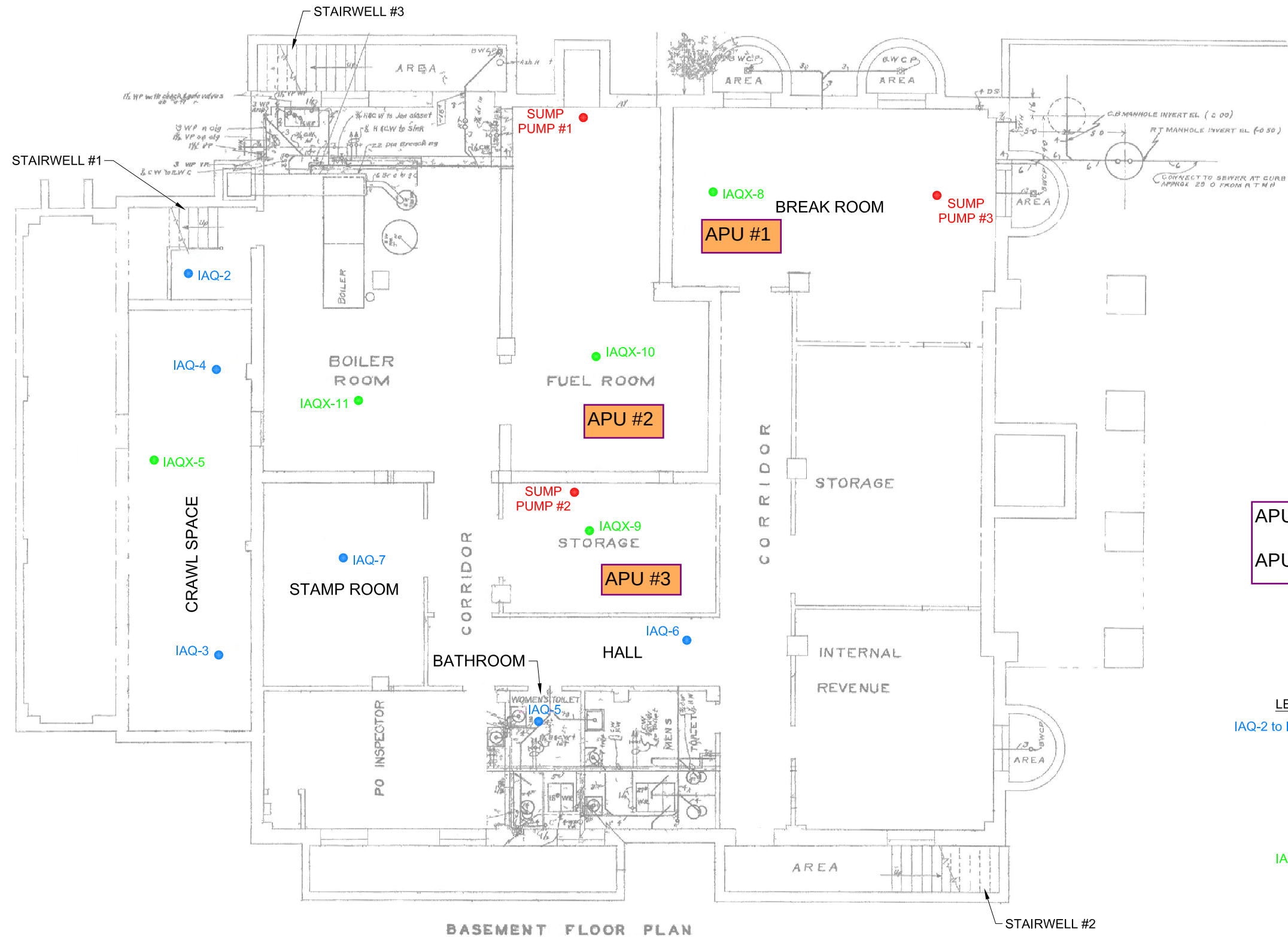
DATE: August 2019

DRWN: K.P.B.

CHKD: B.E.E.

FIGURE 2

File: P:\Jobs\Cadfiles\CADD\USPS\Great Barrington, MA\USPS - Great Barrington, MA.dwg Layout: Fig 3 - Basement Plotted: Aug 13, 2019 - 3:42pm User: baryk Xref's:



APUs #1 and 2 are 2,000 CFM capacity units
APU #3 is 1,200 CFM capacity unit

- LEGEND**
- IAQ-2 to IAQ-7 ● OCTOBER 2009 INDOOR AIR SAMPLE (BASEMENT)
- LOCATION #
- LOCATION 2 = STAIRWELL
 - LOCATION 3 = CRAWLSPACE LEFT
 - LOCATION 4 = CRAWLSPACE RIGHT
 - LOCATION 5 = BATHROOM
 - LOCATION 6 = SHORT HALLWAY
 - LOCATION 7 = STAMP ROOM
- IAQX-5 ● POST 2009 TO CURRENT INDOOR AIR SAMPLE
- LOCATION #
- ROUND #
- LOCATION 5 = CRAWLSPACE
 - LOCATION 8 = BREAK ROOM
 - LOCATION 9 = STORAGE (SUMP #2) ROOM
 - LOCATION 10 = FUEL (SUMP #1) ROOM
 - LOCATION 11 = BOILER ROOM

MassDEP - Bureau of Waste Site Cleanup

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:

USPS MAIN POST OFFICE
222 MAIN STREET GREAT BARRINGTON, MA

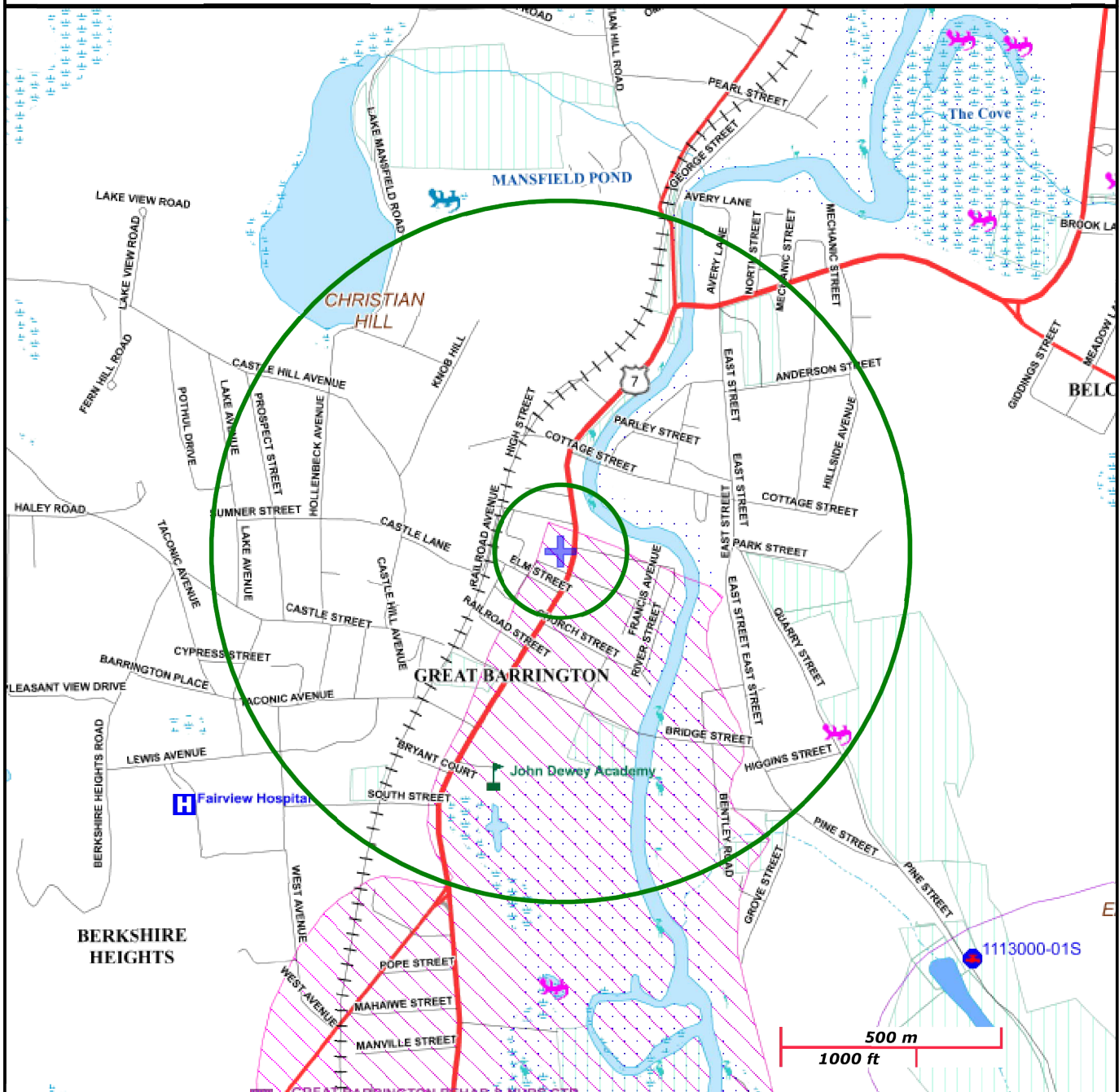
NAD83 UTM Meters:
4672877mN , 635287mE (Zone: 18)
December 6, 2018

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at:
<http://www.mass.gov/mgis/>.



MassDEP

Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train, Powerline; Pipeline; Aqueduct

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source

Non Potential Drinking Water Source Area: Medium, High (Yield)

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space, ACEC

Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert, Potential

Solid Waste Landfill; PWS: Com, CW, SW, Emerg, Non-Com

AECOM

USPS Main Post Office - Great Barrington
222 Main Street, Great Barrington, MA

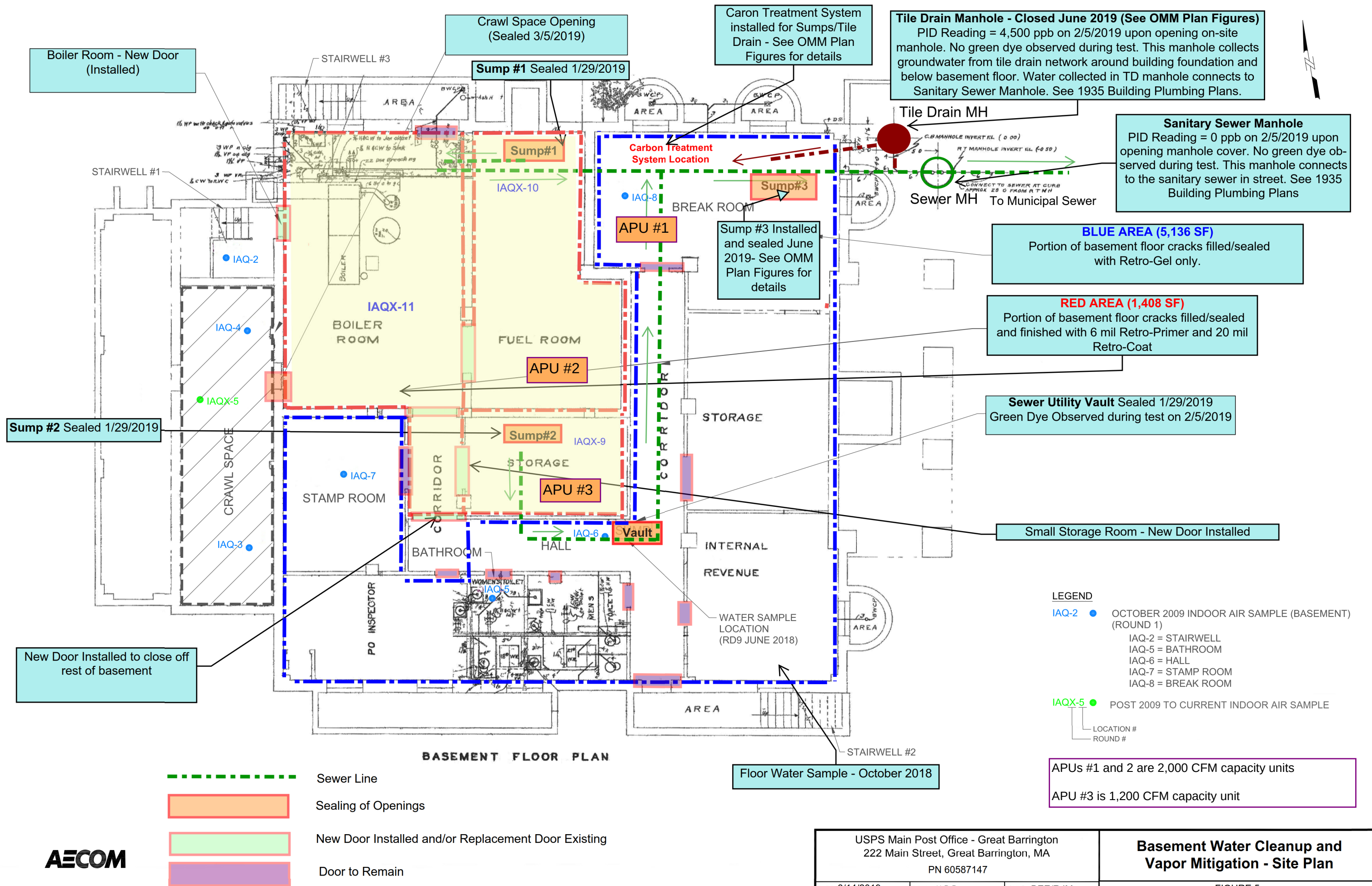
PN 60568180

DATE: 12/06/2018 DRWN: K.P.B.

MassDEP Phase I
Site Assessment Map

FIGURE 4

File: P:\Jobs\Cadfiles\CADD\USPS\Great Barrington, MA\USPS - Great Barrington, MA.dwg Layout: Fig 2 - Basement Plotted: Sep 19, 2018 - 3:33pm User: barryk Xref's:



TABLES

Table 1A
VOC Analytical Results - Indoor Air Sampling - Basement (October 2018 to March 2024)
Basement Rooms
USPS Main Post Office, 221 Main Street, Great Barrington, MA

Compound (ug/m3)	MassDEP Indoor Air Threshold Values -C/I	Storage Room/Sump#2													
		IAQ10-9 ROUND 10 Before	IAQ11-9 ROUND 11 After	IAQ12-9 ROUND 12 After	IAQ13-9 ROUND 13 After	IAQ14-9 ROUND 14 After	IAQ15-9 ROUND 15 After	IAQ16-9 ROUND 16 After	IAQ17-9 ROUND 17 After	IAQ18-9 ROUND 18 After	IAQ20-9 ROUND 20 After	IAQ21-9 ROUND 21 After	IAQ22-9 ROUND 22 After	IAQ23-9 ROUND 23 After	IAQ24-9 ROUND 24 After
		10/3/2018 18J0216-01	3/26/2019 19C1396-06	10/10/10219 19J0731-06	3/10/2020 20C0603-06	11/18/2020 20K0944-06	3/3/2021 21C0197-06	7/7/2021 21G0300-05	11/18/2021 21K1327-05	5/24/2022 22E1643-06	11/16/2022 22K2535-06	3/7/2023 23C1336-01	6/9/2023 23F1303-02	11/1/2023 23K0461-06	3/6/2024 24C1023-06
Acetone	710	41	22	36	39	39	26	88	11	21	8.2	15	27	2.8	3.5
Benzene	11	2.3	0.48	0.36	0.94	0.49	0.67	<0.11	0.74	1	0.46	0.43	0.49	0.11	0.08
2-Butanone (MEK)	4,400	<12	<4.1	5.0	<4.1	<4.1	<4.1	5.60	<4.1	<4.1	<4.1	<4.1	<0.18	<1.2	<2.3
Carbon Tetrachloride	1.9	<0.63	0.33	0.53	0.48	0.4	0.47	0.54	0.48	0.59	0.43	0.43	<4.1	0.066	<0.20
Chloromethane	NV	1.0	1.0	1.6	1.1	<0.14	<0.14	<0.14	2.3	1.1	0.69	1.1	1.2	NA	NA
Cyclohexane	NV	<0.34	<0.12	<0.12	<0.12	<0.24	<0.12	<0.12	0.19	0.77	0.22	<0.12	0.16	NA	NA
Dichlorodifluoromethane (Freon 12)	NV	2.7	1.0	3.2	3.3	2.3	<0.17	2.4	3.1	3.5	2.9	1	1.6	NA	NA
cis-1,2-Dichloroethylene	5.3	22	16	3.9	28	14	23	20	20	13	19	27	11	3.1	1.6
trans-1,2-Dichloroethylene	53	0.94	0.39	0.28	0.71	0.63	0.68	0.89	0.67	0.89	0.67	0.53	0.63	0.083	<0.076
Ethanol	NV	22	28	25	74	11	29	170	5.4	4.2	7	<2.6	25	NA	NA
Ethyl Acetate	NV	65	1.3	<0.13	1.4	<1.3	4.5	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	NA	NA
Ethylbenzene	880	1.8	0.37	0.20	0.5	0.27	0.19	0.89	0.23	1.1	0.34	0.21	0.48	<0.044	0.084
4-Ethyltoluene	NV	<0.49	0.43	<0.17	<0.17	<0.17	<0.17	<0.17	0.18	0.57	0.26	<0.17	0.36	NA	NA
Heptane	NV	1.3	0.76	0.27	0.6	<0.14	<0.14	<0.14	0.4	0.73	0.3	0.18	0.15	NA	NA
Isopropanol	NV	<9.8	3.8	<3.4	<3.4	6.9	7.2	11	6.7	<3.4	<3.4	<3.4	<3.4	NA	NA
Methylene Chloride	NV	5	<1.2	<1.2	<1.2	2.2	4.8	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<0.32	<0.38
4-Methyl-2-peNAanone (MIBK)	2,700	<0.41	<0.14	0.26	<0.14	<0.14	<0.14	<0.14	#N/A	0.55	0.21	0.21	0.37	<0.076	<0.088
Styrene	20	0.81	0.24	<0.15	0.31	<0.15	<0.15	1.4	2.2	5.9	3.7	2.4	2.4	0.15	<0.13
Tetrachloroethylene (PCE)	4.1	410	390	97	630	200	400	450	330	380	300	450	170	12	14
Toluene	4,400	18	85	1.7	2.9	1.7	1.0	8.4	1.8	4.9	1.5	0.89	1.8	0.18	0.15
Trichloroethylene (TCE)	1.8	25**	11*	4.5	20*	8.6*	16*	17	14	15	12	16	6.5	0.51	1.4
Trichlorofluoromethane (Freon 11)	NV	<2.2	1.2	1.9	1.8	1.4	1.4	1.7	1.6	1.9	1.5	1.3	<0.79	NA	NA
1,2,4-Trimethylbenzene	NV	<0.49	1.7	1.0	1.2	1.4	0.74	3.1	1.1	4.8	1.8	1.3	3.8	NA	NA
1,3,5-Trimethylbenzene	NV	0.52	0.41	0.29	0.42	0.45	0.27	0.94	0.4	1.7	0.76	0.41	1.1	NA	NA
Xylenes, Total (mixed isomers) ¹	88	9.9	1.84	1.13	2.62	1.54	1.06	4.8	#N/A	7	2.28	1.45	3.7	0.1375	0.35
Naphthalene	2.7	43	52	270	230	350	78	760	170	460	160	68	280	2.6	2.8
Vinyl Chloride	1.3	<0.26	0.14	<0.090	<0.089	<0.090	<0.089	<0.089	<0.089	<0.089	<0.089	<0.090	<0.090	<0.041	<0.053
Tetrahydrofuran	NV	<0.59	<0.10	6.5	3.4	3.0	1.3	3.4	1.8	2.9	1.2	<1.0	<1.0	NA	NA
1,1,1-Trichloroethane	4,400	<0.55	<0.19	<0.19	0.21	<0.19	<0.19	0.32	<0.19	0.63	0.21	0.22	0.28	<0.059	<0.069
Chloroform	3	<0.49	<0.17	<0.17	0.24	<0.17	<0.17	0.36	1.8	0.34	0.19	<0.17	<0.17	0.061	<0.096
trans-1,3-Dichloropropene	2.9	<0.45	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.082	<0.18
Total VOCs	-	647	608	461	1,023	645	596	1,550	578	934	526	588	538	22	24

Notes:
Concentration in micrograms per cubic meter (ug/m3)
NV - indicates not applicable or no MassDEP TV for compound shown.
NS - Not Sampled during sampling round.
NA - Not Analyzed. 11/1/23 samples analyzed using protocol
TO-15 VOC CAM IX B, which includes a reduced analyte list
<12 - Compound Not Detected. Value shown is Laboratory Reporting Limit.
12 - Concentration in BOLD indicates compound detected but
concentration is below TVCI
12 - Concentration exceeds the MassDEP Threshold Value for Commercial/
Industrial exposure (see TVci Vapor INArusion Guidance,
WSC-16-435, October 2016)
**TCE IH level - 24 ug/m3 (MassDEP, August 2014)
¹For total xylenes where isomers reported separately,
calculated result includes one-half detection limit
for non-detect values

Table 1A
VOC Analytical Results - Indoor Air Sampling - Basement (October 2018 to March 2024)
Basement Rooms
USPS Main Post Office, 221 Main Street, Great Barrington, MA

Compound (ug/m3)	MassDEP Indoor Air Threshold Values -C/I	Fuel Room/Sump#1												
		IAQ10-10 ROUND 10 Before	IAQ11-10 ROUND 11 After	IAQ12-10 ROUND 12 After	IAQ13-10 ROUND 13 After	IAQ14-10 ROUND 14 After	IAQ15-10 ROUND 15 After	IAQ16-10 ROUND 16 After	IAQ17-10 ROUND 17 After	IAQ18-10 ROUND 18 After	IAQ20-10 ROUND 20 After	IAQ21-10 ROUND 21 After	IAQ23-10 ROUND 23 After	IAQ24-10 ROUND 24 After
		10/5/2018 18J0374-01	3/26/2019 19C1396-07	10/10/20219 19J0731-07	3/10/2020 20C0603-07	11/18/2020 20K0944-07	3/3/2021 21C0197-07	7/7/2021 21G0300-06	11/18/2021 21K1327-06	5/24/2022 22E1643-07	11/16/2022 22K2535-07	3/7/2023 23C1336-07	11/1/2023 23K0461-07	3/6/2024 24C1023-07
Acetone	710	200	12	42	35	32	29	110	29	43	15	43	3.1	2.8
Benzene	11	1.2	0.41	0.36	0.86	0.44	0.70	0.91	0.73	0.72	0.54	0.43	0.17	0.15
2-Butanone (MEK)	4,400	160	<4.1	6.7	<4.1	<4.1	<4.1	8.3	<4.1	<4.1	<4.1	<4.1	<1.2	<2.0
Carbon Tetrachloride	1.9	<0.63	0.33	0.51	0.48	0.42	0.48	0.52	0.45	0.49	0.39	0.39	0.088	<0.17
Chloromethane	NV	0.84	1.0	<0.14	0.99	<0.14	1.2	<0.14	0.80	1.10	0.94	0.80	NA	NA
Cyclohexane	NV	<0.34	<0.12	<0.12	<0.12	<0.24	<0.12	<0.12	<0.12	0.49	0.14	0.23	NA	NA
Dichlorodifluoromethane (Freon 12)	NV	2.8	0.87	5.3	3.4	2.2	2.1	<0.17	4.2	2.7	2.4	1	NA	NA
cis-1,2-Dichloroethylene	5.3	150	17	16	88	63	110	80	230	30	120	180	3.9	0.95
trans-1,2-Dichloroethylene	53	5.2	0.44	0.56	1.8	1.2	1.9	2.0	3.4	0.9	2.0	2.40	0.089	<0.065
Ethanol	NV	160	16	28	87	15	19	130	35	130	15	3.0	NA	NA
Ethyl Acetate	NV	7.1	0.40	<0.13	2.7	<1.3	12	2.5	<1.3	3	<1.3	<1.3	NA	NA
Ethylbenzene	880	22	0.19	0.23	0.46	0.23	0.20	0.86	0.36	1.20	0.43	0.19	0.091	0.061
4-Ethyltoluene	NV	6.0	0.20	<0.17	<0.17	<0.17	<0.17	<0.17	0.20	0.36	<0.17	<0.17	NA	NA
Heptane	NV	2.3	0.46	0.32	0.5	<0.14	<0.14	0.95	0.37	1.20	0.25	<0.14	NA	NA
Isopropanol	NV	<9.8	<3.4	<3.4	<3.4	4.3	7.0	7.5	7.9	7.8	<3.4	<3.4	NA	NA
Methylene Chloride	NV	5.9	<1.2	<1.2	<1.2	2.5	6.4	<1.2	<1.2	<1.2	<1.2	<1.2	<0.33	0.42
4-Methyl-2-peNAanone (MIBK)	2,700	9.1	<0.15	0.38	<0.14	<0.14	<0.14	<0.14	#N/A	0.39	0.28	0.15	<0.076	<0.076
Styrene	20	1.3	<0.15	<0.15	0.25	<0.15	<0.15	0.82	0.70	14.00	11	5.20	0.12	<0.12
Tetrachloroethylene (PCE)	4.1	3,300	450	450	1,400	1100	1900	2000	3500	640	1800	2700	16	9
Toluene	4,400	81	39	1.8	2.9	1.5	1.0	7.9	2.3	10.0	3.0	0.73	0.26	0.38
Trichloroethylene (TCE)	1.8	160**	11*	19*	59**	35**	72**	74	130	27	66	100	0.72	0.79
Trichlorofluoromethane (Freon 11)	NV	<2.2	1.1	1.9	1.7	1.4	1.4	1.6	1.5	1.5	1.3	1.10	NA	NA
1,2,4-Trimethylbenzene	NV	25	0.84	0.97	0.86	<0.17	0.59	<0.17	1.0	1.5	1.0	0.51	NA	NA
1,3,5-Trimethylbenzene	NV	6.9	0.20	0.25	0.28	<0.17	0.19	0.86	0.40	0.52	0.32	<0.17	NA	NA
Xylenes, Total (mixed isomers) ¹	88	128	0.96	1.26	2.14	1.19	0.98	4	#N/A	8.1	3.5	1.7	0.337	0.28
Naphthalene	2.7	200	17	300	110	170	110	200	250	170	170	97	3.3	1.8
Vinyl Chloride	1.3	0.57	0.20	<0.090	<0.089	<0.090	<0.089	<0.089	0.2	<0.089	0.1	0.4	<0.041	<0.045
Tetrahydrofuran	NV	<0.59	<0.10	9.2	4.2	4.2	2.1	10	2.9	2.7	1.5	<1.0	NA	NA
1,1,1-Trichloroethane	4,400	1.2	<0.19	<0.19	0.64	0.32	0.54	0.91	0.74	0.32	0.64	0.97	<0.059	<0.059
Chloroform	3	<0.49	<0.17	<0.17	0.29	0.26	<0.17	0.58	0.72	0.57	0.54	0.50	0.11	<0.083
trans-1,3-Dichloropropene	2.9	<0.45	<0.16	0.56	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.082	<0.15
Total VOCs	-	4,476	559	866	1,744	1435	2279	2642	4205	1099	2216	3140	28	17

Notes:
Concentration in micrograms per cubic meter (ug/m3)
NV - indicates not applicable or no MassDEP TV for compound shown.
NS - Not Sampled during sampling round.
NA - Not Analyzed. 11/1/23 samples analyzed using protocol
TO-15 VOC CAM IX B, which includes a reduced analyte list
<12 - Compound Not Detected. Value shown is Laboratory Reporting Limit.
12 - Concentration in BOLD indicates compound detected but
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12 - Concentration exceeds the MassDEP Threshold Value for Commercial/
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WSC-16-435, October 2016)

**TCE IH level - 24 ug/m3 (MassDEP, August 2014)
¹For total xylenes where isomers reported separately,
calculated result includes one-half detection limit
for non-detect values

Table 1A
VOC Analytical Results - Indoor Air Sampling - Basement (October 2018 to March 2024)
Basement Rooms
USPS Main Post Office, 221 Main Street, Great Barrington, MA

Compound (ug/m3)	MassDEP Indoor Air Threshold Values -C/I	Boiler Room													
		IAQ10-11 ROUND 10 Before	IAQ11-11 ROUND 11 After	IAQ12-11 ROUND 12 After	IAQ13-11 ROUND 13 After	IAQ14-11 ROUND 14 After	IAQ15-11 ROUND 15 After	IAQ16-11 ROUND 16 After	IAQ17-11 ROUND 17 After	IAQ18-11 ROUND 18 After	IAQ20-11 ROUND 20 After	IAQ21-11 ROUND 21 After	IAQ22-11 ROUND 22 After	IAQ23-11 ROUND 23 After	IAQ24-11 ROUND 24 After
		10/5/2018	3/26/2019	10/10/10219	3/10/2020	11/18/2020	3/3/2021	7/7/2021	11/18/2021	5/24/2022	11/16/2022	3/7/2023	6/9/2023	11/1/2023	3/6/2024
		-	19C1396-08	19J0731-08	20C0603-08	20K0944-08	21C0197-08	21G0300-07	21K1327-07	22E1643-08	22K2535-08	23C1336-08	23F1303-01	23K0461-08	24C1023-08
Acetone	710	NS	7.3	20	25	11	17	59	18	15	9	8.2	4.2	3.6	2.8
Benzene	11	NS	0.33	0.28	1.2	0.34	0.74	0.88	0.86	0.62	0.62	0.37	<0.11	0.23	0.28
2-Butanone (MEK)	4,400	NS	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<0.18	<1.2	<2.0
Carbon Tetrachloride	1.9	NS	0.32	0.51	0.51	0.44	0.46	0.47	0.45	0.43	0.39	0.39	<4.1	0.15	<0.17
Chloromethane	NV	NS	0.94	1.5	1.0	<0.14	<0.14	<0.14	1.0	1.0	0.8	0.9	1.6	NA	NA
Cyclohexane	NV	NS	<0.12	<0.12	0.54	<0.24	<0.12	<0.12	0.38	0.54	0.17	<0.12	<0.12	NA	NA
Dichlorodifluoromethane (Freon 12)	NV	NS	0.80	3.8	2.90	1.8	2.1	2.5	2.8	2.5	2.1	0.87	1.60	NA	NA
cis-1,2-Dichloroethylene	5.3	NS	4.2	3.8	20	3.4	8.0	10	17	3	6	6	1	4.3	0.97
trans-1,2-Dichloroethylene	53	NS	<0.14	0.15	0.45	<0.14	0.17	0.32	0.38	<0.14	<0.14	<0.14	0.2	0.094	<0.065
Ethanol	NV	NS	7.8	22	150	7.9	52	290	360	90	48	7	38	NA	NA
Ethyl Acetate	NV	NS	0.46	<0.13	5.50	<1.3	4.7	10	3.1	3.7	<1.3	<1.3	<1.3	NA	NA
Ethylbenzene	880	NS	<0.15	0.16	0.69	<0.15	<0.17	0.93	0.38	0.58	0.23	<0.15	<0.15	0.097	0.11
4-Ethyltoluene	NV	NS	<0.17	<0.17	0.20	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	NA	NA
Heptane	NV	NS	0.19	0.23	0.71	<0.14	0.69	2.1	1.4	1.7	0.5	0.21	<0.14	NA	NA
Isopropanol	NV	NS	<3.4	<3.4	<3.4	<3.4	5.4	13	16	5	<3.4	8	<3.4	NA	NA
Methylene Chloride	NV	NS	<1.2	<1.2	<1.2	2.4	10	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<0.32	0.46
4-Methyl-2-peNAanone (MIBK)	2,700	NS	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	#N/A	<0.14	0.19	<0.14	<0.14	<0.076	<0.076
Styrene	20	NS	<0.15	<0.15	0.27	<0.15	<0.15	1.0	0.67	0.30	0.65	0.23	<0.15	0.26	<0.12
Tetrachloroethylene (PCE)	4.1	NS	97	89	430	63	140	240	270	71	86	98	5	24	9
Toluene	4,400	NS	8.2	1.5	9.1	0.78	1.1	16	7.7	4.6	2.1	0.33	0.17	0.4	0.6
Trichloroethylene (TCE)	1.8	NS	2.8	3.9	14*	2.0	5.0	8.8	10	2.9	3.3	3.3	0.2	0.96	0.79
Trichlorofluoromethane (Freon 11)	NV	NS	1.1	1.9	1.80	1.4	1.4	1.8	1.6	1.7	3.3	1.1	<0.79	NA	NA
1,2,4-Trimethylbenzene	NV	NS	0.28	0.41	0.87	<0.17	0.24	1.5	0.63	0	1	<0.17	<0.17	NA	NA
1,3,5-Trimethylbenzene	NV	NS	<0.17	<0.17	0.26	<0.17	<0.17	0.43	0.18	<0.17	0.4	<0.17	<0.17	NA	NA
Xylenes, Total (mixed isomers) ¹	88	NS	<0.30	0.78	3.22	0.30	0.65	4.20	#N/A	2.2	<0.17	<0.45	<0.45	0.34	0.42
Naphthalene	2.7	NS	5.0	64	28	19	9.4	140	36	3	25	7.7	1.0	5	2.1
Vinyl Chloride	1.3	NS	<0.090	<0.090	<0.089	<0.090	<0.089	<0.089	<0.089	<0.089	<0.089	<0.090	<0.090	<0.041	<0.045
Tetrahydrofuran	NV	NS	<0.10	1.8	0.97	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
1,1,1-Trichloroethane	4,400	NS	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.059	<0.059
Chloroform	3	NS	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.5	0.4	<0.17	<0.17	<0.17	0.085	<0.083
trans-1,3-Dichloropropene	2.9	NS	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.082	<0.15
Total VOCs	-	NS	137	216	683	114	258	806	751	210	190	142	52	40	18

Notes:
Concentration in micrograms per cubic meter (ug/m3)
NV - indicates not applicable or no MassDEP TV for compound shown.
NS - Not Sampled during sampling round.
NA - Not Analyzed. 11/1/23 samples analyzed using protocol
TO-15 VOC CAM IX B, which includes a reduced analyte list
<12 - Compound Not Detected. Value shown is Laboratory Reporting Limit.
12 - Concentration in BOLD indicates compound detected but
concentration is below TVCI
12 - Concentration exceeds the MassDEP Threshold Value for Commercial/
Industrial exposure (see TVci Vapor INArusion Guidance,
WSC-16-435, October 2016)
**TCE IH level - 24 ug/m3 (MassDEP, August 2014)
¹For total xylenes where isomers reported separately,
calculated result includes one-half detection limit
for non-detect values

Table 1A
VOC Analytical Results - Indoor Air Sampling - Basement (October 2018 to March 2024)
Basement Rooms
USPS Main Post Office, 221 Main Street, Great Barrington, MA

Compound (ug/m3)	MassDEP Indoor Air Threshold Values -C/I	Break Room/Sump#3													
		IAQ11-8 ROUND 10 Before	IAQ11-8 ROUND 11 After	IAQ12-8 ROUND 12 After	IAQ13-8 ROUND 13 After	IAQ14-8 ROUND 14 After	IAQ15-8 ROUND 15 After	IAQ16-8 ROUND 16 After	IAQ17-8 ROUND 17 After	IAQ18-8 ROUND 18 After	IAQ20-8 ROUND 20 After	IAQ21-08 ROUND 21 After	IAQ22-08 ROUND 22 After	IAQ23-08 ROUND 23 After	IAQ24-08 ROUND 24 After
		10/5/2018	3/26/2019	10/10/2019	3/10/2020	11/18/2020	3/3/2021	7/7/2021	11/18/2021	5/24/2022	11/16/2022	3/7/2023	6/9/2023	11/1/2023	3/6/2024
		-	19C1396-05	19J0731-05	20C0603-05	20K0944-05	21C0197-05	21G0300-04	21K1327-04	22E1643-05	22K2535-05	23C1336-05	23F1303-03	23K0461-05	24C1023-05
Acetone	710	NS	6.5	14	25	12	17	34	20	16	8.1	15.0	13.0	3.1	3.4
Benzene	11	NS	0.39	0.23	0.91	0.30	0.68	0.72	1.0	0.42	0.42	0.31	<0.11	0.14	0.13
2-Butanone (MEK)	4,400	NS	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<0.18	<1.2	<1.7
Carbon Tetrachloride	1.9	NS	0.33	0.55	0.51	0.39	0.46	0.52	0.52	0.54	0.33	0.40	<4.1	0.092	<0.15
Chloromethane	NV	NS	0.98	1.9	<0.14	<0.14	<0.14	<0.14	2.50	0.82	<0.092	0.9	0.9	NA	NA
Cyclohexane	NV	NS	<0.12	<0.12	<0.12	<0.24	<0.12	<0.12	0.28	0.37	0.14	<0.12	<0.12	NA	NA
Dichlorodifluoromethane (Freon 12)	NV	NS	1.2	3.1	3.8	2.2	2.6	30.0	3.0	3.7	2.7	0.98	3.10	NA	NA
cis-1,2-Dichloroethylene	5.3	NS	51	3.7	40	26	43	1	20	20	17	42	8	8	6.8
trans-1,2-Dichloroethylene	53	NS	0.91	0.25	0.83	0.57	0.82	<0.16	0.52	0.54	0.4	0.6	0.2	0.11	0.098
Ethanol	NV	NS	14	6.5	68	11	25	50	13	8.4	17	3	<2.6	NA	NA
Ethyl Acetate	NV	NS	<0.13	<0.13	4.7	<1.3	<1.3	<1.3	1.40	3	1.6	<1.3	<1.3	NA	NA
Ethylbenzene	880	NS	<0.15	<0.15	0.46	<0.15	0.18	0.54	0.21	0.3	<0.15	<0.15	<0.15	0.048	0.15
4-Ethyltoluene	NV	NS	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	NA	NA
Heptane	NV	NS	<0.14	<0.14	0.57	<0.14	<0.14	0.65	0.35	0.47	0.29	<0.14	<0.14	NA	NA
Isopropanol	NV	NS	9.3	<3.4	<3.4	<3.4	<3.4	4	<3.4	<3.4	<3.4	<3.4	<3.4	NA	NA
Methylene Chloride	NV	NS	<1.2	<1.2	<1.2	<1.2	8.90	<1.2	<1.2	1.5	<1.2	<1.2	<1.2	<0.33	0.3
4-Methyl-2-peNAanone (MIBK)	2,700	NS	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.24	<0.14	<0.14	<0.14	<0.14	<0.076	<0.065
Styrene	20	NS	<0.15	0.32	0.49	0.19	0.15	0.9	1.4	1.7	1.4	1.30	0.27	0.27	<0.099
Tetrachloroethylene (PCE)	4.1	NS	1,400	89	700	580	780	710	380	510	250	740	19	35	91
Toluene	4,400	NS	4.4	0.82	3.7	0.62	1.40	10	3	1.4	0.79	0.22	0.18	0.23	0.17
Trichloroethylene (TCE)	1.8	NS	34**	4.2	28**	16*	29*	24.0	14	20	9.4	24.0	1.1	1.5	6.8
Trichlorofluoromethane (Freon 11)	NV	NS	1.2	2.0	1.8	1.4	1.3	1.6	1.8	2	1.7	1.2	1.8	NA	NA
1,2,4-Trimethylbenzene	NV	NS	0.41	0.17	0.5	<0.17	<0.17	0.6	0.3	0.27	0.21	<0.17	<0.17	NA	NA
1,3,5-Trimethylbenzene	NV	NS	<0.17	<0.17	<0.17	<0.17	<0.17	0.19	<0.17	<0.17	<0.17	<0.17	<0.17	NA	NA
Xylenes, Total (mixed isomers) ¹	88	NS	0.34	0.31	2.24	0.35	0.73	2.56	0.72	1.5	0.62	0.70	<0.45	0.227	0.71
Naphthalene	2.7	NS	6.3	23	23	15	10	52	5.4	12	9.7	7.7	1.8	1.9	3.3
Vinyl Chloride	1.3	NS	0.78	<0.090	<0.089	<0.090	<0.089	<0.089	<0.089	<0.089	<0.089	0.11	<0.090	<0.041	0.06
Tetrahydrofuran	NV	NS	<0.10	2.5	1.5	<1.0	<1.0	1.70	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
1,1,1-Trichloroethane	4,400	NS	0.43	<0.19	0.31	0.2	<0.19	0.3	<0.19	0.23	<0.19	0.28	<0.19	<0.059	0.059
Chloroform	3	NS	<0.17	<0.17	0.26	<0.17	<0.17	0.42	0.40	0.24	<0.17	0.17	<0.17	0.054	<0.071
trans-1,3-Dichloropropene	2.9	NS	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.082	<0.13
Total VOCs	-	NS	1,498	153	879	666	921	925	473	605.4	322	839	49	51	113

Notes:
Concentration in micrograms per cubic meter (ug/m3)
NV - indicates not applicable or no MassDEP TV for compound shown.
NS - Not Sampled during sampling round.
NA - Not Analyzed. 11/1/23 samples analyzed using protocol
TO-15 VOC CAM IX B, which includes a reduced analyte list
<12 - Compound Not Detected. Value shown is Laboratory Reporting Limit.
12 - Concentration in BOLD indicates compound detected but
concentration is below TVCI
12 - Concentration exceeds the MassDEP Threshold Value for Commercial/
Industrial exposure (see TVCi Vapor INArusion Guidance,
WSC-16-435, October 2016)
**TCE IH level - 24 ug/m3 (MassDEP, August 2014)
¹For total xylenes where isomers reported separately,
calculated result includes one-half detection limit
for non-detect values

Table 1B
VOC Analytical Results - Indoor Air Sampling - Main Floor (March 2019 to March 2024)
USPS Main Post Office, 221 Main Street, Great Barrington, MA

Compound (ug/m3)	MassDEP Indoor Air Threshold Values C/I	Main/First Floor												
		North West Corner												
		IAQ11-1 ROUND 11 3/26/2019	IAQ12-1 ROUND 12 10/10/20219	IAQ13-1 ROUND 13 3/10/2020	IAQ14-1 ROUND 14 11/18/2020	IAQ15-1 ROUND 15 3/3/2021	IAQ16-1 ROUND 16 7/7/2021	IAQ17-1 ROUND 17 11/18/2021	IAQ18-1 ROUND 18 5/24/2022	IAQ19-1 ROUND 19 8/11/2022	IAQ20-1 ROUND 20 11/16/2022	IAQ21-1 ROUND 21 3/7/2023	IAQ23-1 ROUND 23 11/1/2023	IAQ24-1 ROUND 24 3/6/2024
		19C1396-01	19J0731-01	20C0603-01	20K0944-01	21C0197-01	21G0300-09	21K1327-01	22E1643-01	22H0731-01	22K2535-01	23C1336-01	23K0461-01	24C1023-01
Acetone	710	18	36	57	23	30	30	25	13	23	24	13	18	13
Benzene	11	1.1	2.3	3.0	0.95	0.99	0.32	1.1	0.83	0.32	1.1	0.49	2.5	0.68
Benzyl chloride		ND	ND	ND	<0.18	<0.18	<0.10	<0.18	<0.36	<0.36	<0.18	<0.18	NA	NA
Bromodichloromethane		ND	ND	ND	<0.24	<0.24	<0.13	<0.12	<0.23	<0.23	<0.23	<0.24	<0.064	<0.096
Bromoform		ND	ND	ND	<0.36	<0.36	<0.21	<0.36	<0.36	<0.36	<0.36	<0.36	<0.13	<0.13
Bromomethane		ND	ND	ND	<0.14	<0.14	<0.078	<0.14	<0.14	<0.14	<0.14	<0.14	<0.072	<0.12
1,3-Butadiene		ND	ND	ND	<0.078	<0.078	<0.044	<0.077	<0.077	<0.077	<0.077	<0.078	NA	NA
2-Butanone (MEK)	4400	<0.14	<0.14	<0.14	<4.1	<4.1	<2.4	<4.1	<4.1	<4.1	<4.1	<4.1	1.6	<2.0
Carbon Tetrachloride	1.9	0.33	0.35	0.43	0.43	0.51	0.27	0.45	0.42	0.4	0.27	0.23	0.32	0.31
Chlorobenzene		ND	ND	ND	<0.16	<0.16	<0.092	<0.16	<0.16	<0.16	<0.16	<0.16	<0.040	<0.053
Chloroethane		ND	ND	ND	<0.093	<0.093	<0.053	<0.092	<0.092	<0.092	<0.092	<0.093	NA	NA
Chloroform	3	<0.17	<0.17	<0.17	<0.17	<0.17	<0.098	0.41	<0.17	0.31	0.22	<0.17	0.28	3.7
Chloromethane	NV	1.2	<0.14	1.1	<0.14	<0.14	<0.083	1.1	1.1	1	0.82	1.1	NA	NA
Cyclohexane	NV	0.68	2.3	2.4	<0.24	<0.12	<0.069	0.83	0.62	0.73	0.92	0.2	NA	NA
Dibromochloromethane		ND	ND	ND	<0.30	<0.30	<0.17	<0.15	<0.30	<0.30	<0.30	<0.30	<0.080	<0.20
1,2-Dibromoethane (EDB)		ND	ND	ND	<0.27	<0.27	<0.15	<0.13	<0.27	<0.27	<0.27	<0.27	<0.089	<0.17
1,2-Dichlorobenzene		ND	ND	ND	<0.21	<0.21	<0.12	<0.21	<0.21	<0.21	<0.21	<0.21	<0.073	<0.073
1,3-Dichlorobenzene		ND	ND	ND	<0.21	<0.21	<0.12	<0.21	<0.21	<0.21	<0.21	<0.21	<0.078	<0.078
Dichlorodifluoromethane (Freon 12)	NV	0.94	<0.17	2.7	<0.17	2	1.1	2.5	2.4	2.4	2	0.84	NA	NA
1,1-Dichloroethane		ND	ND	ND	<0.14	<0.14	<0.081	<0.14	<0.14	<0.14	<0.14	<0.14	<0.045	<0.069
1,2-Dichloroethane	0.44	ND	ND	ND	<0.14	<0.14	<0.081	0.15	<0.14	<0.14	<0.14	<0.14	0.48	0.073
1,1-Dichloroethylene		ND	ND	ND	<0.14	<0.14	<0.079	<0.14	<0.14	<0.14	<0.14	<0.14	<0.039	<0.097
cis-1,2-Dichloroethylene	5.3	2	0.57	2.2	0.80	1.7	0.16	0.98	0.28	<0.14	0.59	0.47	0.48	0.37
trans-1,2-Dichloroethylene	53	<0.14	<0.14	<0.14	<0.14	<0.14	<0.079	<0.14	<0.14	<0.14	<0.14	<0.14	<0.045	<0.065
1,2-Dichloropropane		ND	ND	ND	<0.16	<0.16	<0.092	<0.081	<0.16	<0.16	<0.16	<0.16	0.12	<0.12
cis-1,3-Dichloropropene		ND	ND	ND	<0.16	<0.16	<0.091	<0.16	<0.16	<0.16	<0.16	<0.16	<0.071	<0.080
trans-1,3-Dichloropropene		<0.16	<0.14	<0.16	<0.14	ND	<0.091	<0.16	<0.16	<0.16	<0.16	<0.16	<0.082	<0.15
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)		ND	ND	ND	<0.25	ND	<0.14	<0.24	<0.24	<0.24	<0.24	<0.25	NA	NA
1,4-Dioxane		ND	ND	ND	<1.3	<1.3	<0.72	<1.3	<1.3	<1.3	<1.3	<1.3	<0.62	<0.62
Ethanol	NV	180	230	2300	230	460	310	460	180	110	520	280	NA	NA
Ethyl Acetate	NV	2.5	12	<0.13	4.2	<1.3	3	4.7	3.2	3.4	3.5	<1.3	NA	NA
Ethylbenzene	880	0.68	2	2.6	0.76	0.61	0.25	0.83	0.79	0.47	0.68	0.3	1.7	0.62
4-Ethyltoluene	NV	0.3	2.5	0.63	0.63	0.55	<0.098	0.24	0.21	<0.17	0.28	<0.17	NA	NA
Heptane	NV	1.1	3.0	3.3	1.0	0.89	<0.082	0.83	0.85	0.54	0.76	0.34	NA	NA
Hexachlorobutadiene		ND	ND	ND	<0.37	<0.37	<0.21	<0.37	<0.37	<0.37	<0.37	<0.37	<0.21	<0.21
Hexane	NV	<4.9	7.4	8.3	<4.9	6.3	<2.8	<4.9	<4.9	<4.9	<4.9	<4.9	NA	NA
2-Hexanone (MBK)		<0.14	<0.14	<0.14	<0.14	ND	<0.16	<0.14	<0.14	0.4	0.67	<0.14	NA	NA
Isopropanol	NV	32	8.6	32	9.6	70	6.8	12	6.3	7.4	5.4	5.9	NA	NA
Methyl tert-Butyl Ether (MTBE)		ND	<0.13	ND	<0.13	ND	<0.072	<0.13	<0.13	<0.13	<0.13	<0.13	<0.062	<0.062
Methylene Chloride	530	<1.2	<1.2	<1.2	1.9	19	1.2	<1.2	<1.2	<1.2	<1.2	<1.2	0.46	0.56
4-Methyl-2-pentanone (MIBK)	NV	ND	ND	ND	<0.14	ND	<0.082	0.21	<0.14	<0.14	0.21	<0.14	<0.076	<0.076
Styrene	20	<0.15	1.1	0.65	0.39	0.58	0.49	0.57	0.25	0.6	0.38	0.19	0.47	0.56
1,1,2,2-Tetrachloroethane		ND	ND	ND	<0.24	<0.24	<0.14	<0.12	<0.24	<0.24	<0.24	<0.24	<0.059	<0.059
Tetrachloroethylene (PCE)	4.1	50	16	49	19	33	4.3	17	5.6	1.7	8.1	9.4	3.8	5
Toluene	4,400	13	27	77	17	10	8.9	32	10	9.2	30	4.3	13	8
1,1,1-Trichloroethane	4,400	<0.19	<0.19	<0.19	<0.19	<0.19	<0.11	<0.19	<0.19	<0.19	<0.19	<0.19	<0.059	0.099
1,1,2-Trichloroethane		ND	ND	ND	<0.19	<0.19	<0.11	<0.095	<0.19	<0.19	<0.19	<0.19	<0.049	<0.066
Trichloroethylene (TCE)	1.8	1.4	1.0	1.5	0.57	1.2	0.16	0.93	0.25	0.45	0.33	0.29	0.19	0.36
Trichlorofluoromethane (Freon 11)	NV	1.3	1.1	1.5	1.4	1.1	0.57	1.3	1.3	1.2	1.1	0.95	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	ND	ND	<1.1	ND	<0.61	<1.1	<1.1	<1.1	<1.1	<1.1	NA	NA
1,2,4-Trimethylbenzene	NV	1.1	3.0	3.4	2.7	2.5	<0.098	1.2	0.84	0.58	1.4	0.41	<0.14	NA
1,3,5-Trimethylbenzene	NV	0.25	0.72	0.85	0.79	1.0	0.13	0.37	0.26	0.18	0.49	<0.17	NA	NA
Xylenes, Total (mixed isomers) ¹	88	3.46	9.8	12.5	4.0	4	1.19	3.2	3.37	1.75	2.85	1.37	6.1	2.81
Naphthalene	2.7	2.0	9.3	4.6	3.2	2.8	2.4	6.1	0.22	0.9	2.4	1.2	1.9	3.5
Propene		ND	ND	ND	<2.4	<2.4	<1.4	<2.4	<2.4	<2.4	<2.4	<2.4	NA	NA
Vinyl Acetate		ND	ND	ND	<2.5	<2.5	<1.4	<2.5	<2.5	<2.5	<2.5	<2.5	NA	NA
Vinyl Chloride		<0.090	<0.090	<0.089	<0.090	<0.035	<0.051	<0.089	<0.089	<0.089	<0.089	<0.090	<0.041	<0.045
Tetrahydrofuran	NV	<0.10	<0.10	<0.10	<1.0	<1.0	<0.59	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
Total VOCs	NV	313	376	2567	322	649	371	574	232	167	608	321	51	40

Concentration in micrograms per cubic meter (ug/m3)

NV - indicates not applicable or no MassDEP TV for compound shown.

NA - Not Analyzed. 11/1/23 samples analyzed using protocol TO-15 VOC CAM IX B
which includes a reduced analyte list

<12 - Compound Not Detected. Value shown is Laboratory Reporting Limit.

12 - Concentration in BOLD indicates compound detected but

concentration is below TVCI

12 - Concentration exceeds the MassDEP Threshold Value for Commercial/

Industrial exposure (see TVCi Vapor Intrusion Guidance, WSC-16-435, October 2016)

¹For total xylenes where isomers reported separately, calculated

result includes one-half detection limit for non-detect values

Table 1B
VOC Analytical Results - Indoor Air Sampling - Main Floor (March 2019 to March 2024)
USPS Main Post Office, 221 Main Street, Great Barrington, MA

Compound (ug/m3)	MassDEP Indoor Air Threshold Values C/I	Main/First Floor													
		Center													
		IAQ11-2 ROUND 11 3/26/2019	IAQ12-2 ROUND 12 10/10/10219	IAQ13-2 ROUND 13 3/10/2020	IAQ14-2 ROUND 14 11/18/2020	IAQ15-2 ROUND 15 3/3/2021	IAQ16-2 ROUND 16 7/7/2021	IAQ17-2 ROUND 17 8/11/2021	IAQ18-2 ROUND 18 5/24/2022	IAQ19-2 ROUND 19 8/11/2022	IAQ20-2 ROUND 20 11/16/2022	IAQ21-2 ROUND 21 3/7/2023	IAQ22-2 ROUND 22 6/9/2023	IAQ23-2 ROUND 23 11/1/2023	IAQ24-2 ROUND 24 3/6/2024
		19C1396-02	19J0731-02	20C0603-02	20K0944-02	21C0197-02	21G0300-01	21K1327-02	22E1643-02	22H0731-02	22K2535-02	23C1336-02	23F1303-04	23K0461-02	24C1023-02
Acetone	710	19	53	61	26	33	70	23	14	23	21	17	17	17	
Benzene	11	1.3	2.4	3.3	0.94	1.1	0.72	1.1	0.69	0.33	1.1	0.49	0.7	2.5	0.75
Benzyl chloride		ND	ND	ND	<0.18	<0.18	<0.18	<0.18	<0.36	<0.36	<0.18	<0.18	<0.72	NA	NA
Bromodichloromethane		ND	ND	ND	<0.24	<0.24	<0.23	<0.12	<0.23	<0.23	<0.23	<0.24	<0.23	<0.064	<0.096
Bromoform		ND	ND	ND	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.13	<0.13
Bromomethane		ND	ND	ND	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.072	<0.12
1,3-Butadiene		ND	ND	ND	<0.078	<0.078	<0.077	<0.077	<0.077	<0.077	<0.077	<0.078	<0.077	NA	NA
2-Butanone (MEK)	4400	ND	ND	ND	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	1.3	<2.0
Carbon Tetrachloride	1.9	0.27	0.48	0.50	0.44	0.5	0.56	0.53	0.46	0.47	0.29	0.25	0.31	0.3	0.28
Chlorobenzene		ND	ND	ND	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.040	<0.053
Chloroethane		ND	ND	ND	<0.093	<0.093	<0.092	<0.092	<0.092	<0.092	<0.092	<0.093	<0.092	NA	NA
Chloroform	3	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.41	<0.17	0.26	<0.17	<0.17	<0.17	0.18	0.86
Chloromethane	NV	1.2	1.8	1.4	<0.14	<0.14	<0.14	1.2	1.3	0.97	0.9	1	1.1	NA	NA
Cyclohexane	NV	0.82	2.0	2.8	<0.24	0.66	<0.12	0.72	0.56	0.73	0.97	0.28	0.5	NA	NA
Dibromochloromethane		ND	ND	ND	<0.30	<0.30	<0.30	<0.15	<0.30	<0.30	<0.30	<0.30	<0.30	<0.080	<0.20
1,2-Dibromoethane (EDB)		ND	ND	ND	<0.27	<0.27	<0.27	<0.13	<0.27	<0.27	<0.27	<0.27	<0.27	<0.089	<0.17
1,2-Dichlorobenzene		ND	ND	ND	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.073	<0.073
1,3-Dichlorobenzene		ND	ND	ND	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.078	<0.078
Dichlorodifluoromethane (Freon 12)	NV	0.91	4.2	2.3	1.8	2	2.1	2.4	2.3	2.3	2.4	0.9	2.3	NA	NA
1,1-Dichloroethane		ND	ND	ND	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.045	<0.069
1,2-Dichloroethane	0.44	ND	ND	ND	<0.14	<0.14	<0.14	0.16	<0.14	<0.14	<0.14	<0.14	<0.14	0.62	0.059
1,1-Dichloroethylene		ND	ND	ND	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.039	<0.097
cis-1,2-Dichloroethylene	5.3	1.9	0.61	2.1	0.99	1.6	0.36	0.92	0.27	<0.14	0.63	0.43	0.45	0.36	0.38
trans-1,2-Dichloroethylene	53	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.045	<0.065
1,2-Dichloropropane		ND	ND	ND	<0.16	<0.16	<0.16	<0.081	<0.16	<0.16	<0.16	<0.16	<0.16	0.2	<0.12
cis-1,3-Dichloropropene		ND	ND	ND	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.071	<0.080
trans-1,3-Dichloropropene		<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.082	<0.15
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)		ND	ND	ND	<0.25		<0.24	<0.24	<0.24	<0.24	<0.24	<0.25	<0.24	NA	NA
1,4-Dioxane		ND	ND	ND	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<0.62	<0.62
Ethanol	NV	200	390	3800	310	690	250	540	160	110	440	310	360	NA	NA
Ethyl Acetate	NV	3.3	18	<0.13	6.3	6.2	4.4	4.8	4.5	3.7	4.6	<1.3	3.1	NA	NA
Ethylbenzene	880	0.81	2.3	2.8	0.83	0.69	0.58	0.76	0.68	0.49	0.75	0.34	0.59	1.8	0.72
4-Ethyltoluene	NV	0.34	1.1	0.69	0.67	0.61	<0.17	0.24	0.19	<0.17	0.33	<0.17	0.19	NA	NA
Heptane	NV	1.3	3.2	3.7	1	0.93	0.66	0.77	0.65	0.44	0.73	0.32	0.68	NA	NA
Hexachlorobutadiene		ND	ND	ND	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.21	<0.21
Hexane	NV	<4.9	11	10	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	NA	NA
2-Hexanone (MBK)		<0.14	<0.14	<0.14	<0.14		<0.29	<0.14	<0.14	0.5	<0.14	0.25	<0.57	NA	NA
Isopropanol	NV	34	12	26	13	150	13	13	7	7.9	6.4	5.9	8.3	NA	NA
Methyl tert-Butyl Ether (MTBE)		ND	ND	ND	<0.13		<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.062	<0.062
Methylene Chloride	530	<1.2	<1.2	3.9	2.7	13	2.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	0.48	0.69
4-Methyl-2-pentanone (MIBK)	NV	ND	ND	ND	<0.14	ND	<0.14	0.29	<0.14	<0.14	<0.14	<0.14	<0.14	<0.076	<0.076
Styrene	20	0.16	1.6	0.63	0.42	0.87	0.83	0.58	0.27	0.6	0.4	0.25	0.28	0.48	0.59
1,1,2,2-Tetrachloroethane		ND	ND	ND	<0.24	<0.24	<0.24	<0.12	<0.24	<0.24	<0.24	<0.24	<0.24	<0.059	<0.059
Tetrachloroethylene (PCE)	4.1	48	16	44	22	31	11	16	6.1	1.6	8.4	7.8	6.5	3.1	4.7
Toluene	4,400	14	29	63	18	12	21	32	9.8	8.3	32	5.1	18	14	8
1,1,1-Trichloroethane	4,400	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.059	0.1
1,1,2-Trichloroethane		ND	ND	ND	<0.19	<0.19	<0.19	<0.095	<0.19	<0.19	<0.19	<0.19	<0.19	<0.049	<0.066
Trichloroethylene (TCE)	1.8	1.4	1.1	1.5	0.67	1	0.38	0.62	0.29	0.35	0.36	0.26	<0.19	0.12	0.42
Trichlorofluoromethane (Freon 11)	NV	1.3	1.8	1.8	1.3	1.1	1.1	1.5	1.4	1.2	1.2	0.94	1.1	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	ND	ND	<1.1		<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	NA	NA
1,2,4-Trimethylbenzene	NV	1.2	3.8	3.7	2.9	2.7	1.1	0.87	0.77	0.52	1.5	0.68	0.97	<0.14	NA
1,3,5-Trimethylbenzene	NV	0.28	0.92	0.90	0.79	1.1	0.26	0.3	0.24	0.17	0.47	<0.17	0.34	NA	NA
Xylenes, Total (mixed isomers) ¹	88	4.08	11.8	13.6	4.3	0.68	2.62	3.12	2.87	1.69	3.02	1.64	2.68	6.6	2.99
Naphthalene	2.7	0.85	7	4.8	3.1	2.6	3.9	1.8	0.5	1.1	2.6	1.2	2	1.8	3.3
Propene		ND	ND	ND	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	NA	NA
Vinyl Acetate		ND	ND	ND	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NA	NA
Vinyl Chloride		<0.090	<0.090	<0.089	<0.090	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089	<0.090	<0.089	<0.041	<0.045
Tetrahydrofuran	NV	<0.10	0.79	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
Total VOCs	NV	336	576	4054	418	953	387	647	215	167	530	355	427	51	41

Concentration in micrograms per cubic meter (ug/m3)

NV - indicates not applicable or no MassDEP TV for compound shown.

NA - Not Analyzed. 11/1/23 samples analyzed using protocol TO-15 VOC CAM IX B
which includes a reduced analyte list

<12 - Compound Not Detected. Value shown is Laboratory Reporting Limit.

12 - Concentration in BOLD indicates compound detected but

concentration is below TVCI

12 - Concentration exceeds the MassDEP Threshold Value for Commercial/

Industrial exposure (see TVCI Vapor Intrusion Guidance, WSC-16-435, October 2016)

¹For total xylenes where isomers reported separately, calculated

result includes one-half detection limit for non-detect values

Table 1B
VOC Analytical Results - Indoor Air Sampling - Main Floor (March 2019 to March 2024)
USPS Main Post Office, 221 Main Street, Great Barrington, MA

Compound (ug/m3)	MassDEP Indoor Air Threshold Values C/I	Main/First Floor												
		North Wall/Public Lobby												
		IAQ11-3 ROUND 11 3/26/2019	IAQ12-3 ROUND 12 10/10/10219	IAQ13-3 ROUND 13 3/10/2020	IAQ14-3 ROUND 14 11/18/2020	IAQ15-3 ROUND 15 3/3/2021	IAQ16-3 ROUND 16 7/7/2021	IAQ17-3 ROUND 17 11/18/2021	IAQ18-3 ROUND 18 5/24/2022	IAQ19-3 ROUND 19 8/11/2022	IAQ20-3 ROUND 20 11/16/2022	IAQ21-3 ROUND 21 3/7/2023	IAQ23-3 ROUND 23 11/1/2023	IAQ24-3 ROUND 24 3/6/2024
		19C1396-03	19J0731-03	20C0603-03	20K0944-03	21C0197-03	21G0300-02	21K1327-09	22E1643-03	22H0731-03	22K2535-03	23C1336-03	23K0461-03	24C1023-03
Acetone	710	19	60	66	25	26	62	29	13	20	18	12	14	16
Benzene	11	0.95	2.0	2.9	0.81	0.97	0.71	0.82	0.66	0.32	0.8	0.31	1.3	0.68
Benzyl chloride		ND	ND	ND	<0.18	<0.18	<0.18	<0.18	<0.36	<0.36	<0.18	<0.18	NA	NA
Bromodichloromethane		ND	ND	ND	<0.24	<0.24	<0.23	<0.12	<0.23	<0.23	<0.23	<0.24	<0.064	<0.096
Bromoform		ND	ND	ND	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.13	<0.13
Bromomethane		ND	ND	ND	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.072	<0.11
1,3-Butadiene		ND	ND	ND	<0.078	<0.078	<0.077	<0.077	<0.077	<0.077	<0.077	<0.078	NA	NA
2-Butanone (MEK)	4400	ND	ND	ND	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<1.2	<2.0
Carbon Tetrachloride	1.9	<0.22	0.54	0.53	0.31	0.51	0.50	0.62	0.36	0.32	0.25	0.26	0.18	0.21
Chlorobenzene		ND	ND	ND	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.040	<0.053
Chloroethane		ND	ND	ND	<0.093	<0.093	<0.092	<0.092	<0.092	<0.092	<0.092	<0.093	NA	NA
Chloroform	3	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.36	<0.17	0.25	<0.17	<0.17	0.2	0.46
Chloromethane	NV	1.2	1.9	<0.14	<0.093	1.1	<0.14	1.1	1.1	1	0.88	0.96	NA	NA
Cyclohexane	NV	0.53	1.6	2.3	<0.24	<0.12	<0.12	0.70	0.55	0.63	0.72	<0.12	NA	NA
Dibromochloromethane		ND	ND	ND	<0.30	<0.30	<0.30	<0.15	<0.30	<0.30	<0.30	<0.30	<0.080	<0.20
1,2-Dibromoethane (EDB)		ND	ND	ND	<0.27	<0.27	<0.27	<0.13	<0.27	<0.27	<0.27	<0.27	<0.089	<0.17
1,2-Dichlorobenzene		ND	ND	ND	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.073	<0.073
1,3-Dichlorobenzene		ND	ND	ND	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.078	<0.078
Dichlorodifluoromethane (Freon 12)	NV	0.98	3.4	2.7	1.7	2	2.1	2.6	2.3	2.3	1.3	0.87	NA	NA
1,1-Dichloroethane		ND	ND	ND	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.045	<0.069
1,2-Dichloroethane	0.44	ND	ND	ND	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.23	0.06
1,1-Dichloroethylene		ND	ND	ND	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.039	<0.097
cis-1,2-Dichloroethylene	5.3	2.7	0.74	2.7	1.1	2	0.37	0.71	0.36	<0.14	0.85	0.63	1.2	0.79
trans-1,2-Dichloroethylene	53	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.045	<0.065
1,2-Dichloropropane		ND	ND	ND	<0.16	<0.16	<0.16	<0.081	<0.16	<0.16	<0.16	<0.16	<0.044	<0.12
cis-1,3-Dichloropropene		ND	ND	ND	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.071	<0.080
trans-1,3-Dichloropropene		<0.16	<0.16	<0.16	<0.16	ND	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.082	<0.15
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)		ND	ND	ND	<0.25	ND	<0.24	<0.24	<0.24	<0.24	<0.24	<0.25	NA	NA
1,4-Dioxane		ND	ND	ND	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<0.62	<0.62
Ethanol	NV	260	410	1900	360	900	220	560	220	110	460	220	NA	NA
Ethyl Acetate	NV	2.8	11	<0.13	4.3	5.2	4.3	4.6	3.6	4	8.2	1.8	NA	NA
Ethylbenzene	880	0.55	1.9	2.5	0.69	0.56	0.52	0.56	0.63	0.45	0.53	<0.15	0.8	0.66
4-Ethyltoluene	NV	0.28	0.84	0.67	0.57	0.54	<0.17	0.26	<0.17	<0.17	0.24	<0.17	NA	NA
Heptane	NV	0.89	2.4	3	0.87	0.9	<0.14	0.51	0.65	0.35	0.59	<0.14	NA	NA
Hexachlorobutadiene		ND	ND	ND	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.21	<0.21
Hexane	NV	<4.9	8.6	7.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	NA	NA
2-Hexanone (MBK)		<0.14	<0.14	<0.14	<0.14	ND	<0.29	<0.14	<0.14	0.22	<0.14	0.17	NA	NA
Isopropanol	NV	64	12	14	16	74	11	13	37	7.1	6.4	<3.4	NA	NA
Methyl tert-Butyl Ether (MTBE)		ND	ND	ND	<0.13	ND	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	0.093	0.075
Methylene Chloride	530	<1.2	<1.2	<1.2	2	9.9	1.7	<1.2	<1.2	<1.2	<1.2	<1.2	0.34	0.56
4-Methyl-2-pentanone (MIBK)	NV	ND	ND	ND	<0.14	ND	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.076	<0.076
Styrene	20	0.17	1.2	0.72	0.35	0.64	0.73	0.49	0.28	0.48	0.29	<0.15	0.29	0.48
1,1,2,2-Tetrachloroethane		ND	ND	ND	<0.24	<0.24	<0.24	<0.12	<0.24	<0.24	<0.24	<0.24	<0.059	<0.059
Tetrachloroethylene (PCE)	4.1	67	21	61	25	43	9.5	12	7.7	1.8	12	11	11	12
Toluene	4,400	11	24	58	15	9.8	18	23	9.9	7.7	22	1.7	6.8	7.4
1,1,1-Trichloroethane	4,400	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.059	0.14
1,1,2-Trichloroethane		ND	ND	ND	<0.19	<0.19	<0.19	<0.095	<0.19	<0.19	<0.19	<0.19	<0.049	<0.066
Trichloroethylene (TCE)	1.8	1.9	1.2	1.9	0.69	1.4	0.30	0.51	0.28	0.33	0.45	0.34	0.38	0.88
Trichlorofluoromethane (Freon 11)	NV	1.3	2.0	<0.78	1.3	1.1	1.1	1.5	1.3	1.2	1.1	1	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	ND	ND	<1.1	ND	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	NA	NA
1,2,4-Trimethylbenzene	NV	1.0	3.1	2.9	2.4	2	0.98	1.0	0.8	0.5	1.0	0.2	<0.14	NA
1,3,5-Trimethylbenzene	NV	0.25	0.74	0.74	0.71	0.77	0.24	0.27	0.22	<0.17	0.33	<0.17	NA	NA
Xylenes, Total (mixed isomers) ¹	88	2.9	9.7	11.4	3.59	2.29	2.49	1.96	2.79	1.48	2.25	0.51	2.91	2.67
Naphthalene	2.7	2.9	6.6	1.5	3	3.1	3.6	6.5	1.4	1	4	1.1	2.1	5.2
Propene		ND	ND	ND	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	NA	NA
Vinyl Acetate		ND	ND	ND	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NA	NA
Vinyl Chloride		<0.090	<0.090	<0.089	<0.090	ND	<0.089	<0.089	<0.089	<0.089	<0.089	<0.090	<0.041	<0.045
Tetrahydrofuran	NV	<0.10	0.83	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
Total VOCs	NV	442	587	2143	465	1088	340	662	305	161	542	253	42	48

Concentration in micrograms per cubic meter (ug/m3)

NV - indicates not applicable or no MassDEP TV for compound shown.

NA - Not Analyzed. 11/1/23 samples analyzed using protocol TO-15 VOC CAM IX B
which includes a reduced analyte list

<12 - Compound Not Detected. Value shown is Laboratory Reporting Limit.

12 - Concentration in BOLD indicates compound detected but

concentration is below TVCI

12 - Concentration exceeds the MassDEP Threshold Value for Commercial/

Industrial exposure (see TVCI Vapor Intrusion Guidance, WSC-16-435, October 2016)

¹For total xylenes where isomers reported separately, calculated
result includes one-half detection limit for non-detect values

Table 1B
VOC Analytical Results - Indoor Air Sampling - Main Floor (March 2019 to March 2024)
USPS Main Post Office, 221 Main Street, Great Barrington, MA

Compound (ug/m3)	MassDEP Indoor Air Threshold Values C/I	Main/First Floor													
		South West Corner													
		IAQ11-4 ROUND 11 3/26/2019	IAQ12-4 ROUND 12 10/10/10219	IAQ13-4 ROUND 13 3/10/2020	IAQ14-4 ROUND 14 11/18/2020	IAQ15-4 ROUND 15 3/3/2021	IAQ16-4 ROUND 16 7/7/2021	IAQ17-4 ROUND 17 11/18/2021	IAQ18-4 ROUND 18 5/24/2022	IAQ19-4 ROUND 19 8/11/2022	IAQ20-4 ROUND 20 11/16/2022	IAQ21-4 ROUND 21 3/7/2023	IAQ23-4 ROUND 23 11/1/2023	IAQ24-4 ROUND 24 3/6/2024	
Compound (ug/m3)	Threshold Values C/I	19C1396-04	19J0731-04	20C0603-04	20K0944-04	21C0197-04	21G0300-03	21K1327-03	22E1643-04	22H0731-04	22K2535-04	23C1336-04	23K0461-04	24C1023-04	
Acetone	710	16	60	57	26	23	74	24	13	21	26	16	17	17	
Benzene	11	1.4	2.5	3.0	0.95	0.96	0.71	1.2	0.75	0.33	1.1	0.48	2.2	0.74	
Benzyl chloride		ND	ND	ND	<0.18	<0.18	<0.18	<0.18	<0.36	<0.36	<0.18	<0.18	NA	NA	
Bromodichloromethane		ND	ND	ND	<0.24	<0.24	<0.23	<0.12	<0.23	<0.23	<0.23	<0.24	<0.064	<0.096	
Bromoform		ND	ND	ND	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.13	<0.13	
Bromomethane		ND	ND	ND	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.072	<0.12	
1,3-Butadiene		ND	ND	ND	<0.078	<0.078	<0.077	<0.077	<0.077	<0.077	<0.077	<0.078	NA	NA	
2-Butanone (MEK)	4400	ND	ND	ND	ND	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	1.5	<2.0	
Carbon Tetrachloride	1.9	0.32	0.53	0.52	0.41	0.43	0.48	0.43	0.43	0.36	0.27	0.24	0.29	<0.17	
Chlorobenzene		ND	ND	ND	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.040	<0.053	
Chloroethane		ND	ND	ND	<0.093	<0.093	<0.092	<0.092	<0.092	<0.092	<0.092	<0.093	NA	NA	
Chloroform	3	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.3	<0.17	0.24	<0.17	<0.17	0.21	0.73	
Chloromethane	NV	1.2	1.8	1.1	<0.14	<0.14	<0.14	1.1	0.99	1	0.91	1	NA	NA	
Cyclohexane	NV	0.84	2.1	2.3	<0.24	<0.12	<0.12	0.75	0.6	0.72	1.1	0.23	NA	NA	
Dibromochloromethane		ND	ND	ND	<0.30	<0.30	<0.30	<0.15	<0.30	<0.30	<0.30	<0.30	<0.080	<0.20	
1,2-Dibromoethane (EDB)		ND	ND	ND	<0.27	<0.27	<0.27	<0.13	<0.27	<0.27	<0.27	<0.27	<0.089	<0.17	
1,2-Dichlorobenzene		ND	ND	ND	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.073	<0.073	
1,3-Dichlorobenzene		ND	ND	ND	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.078	<0.078	
Dichlorodifluoromethane (Freon 12)	NV	0.98	2.8	2.5	1.7	<0.17	2.1	2.6	2.2	2.3	2.1	0.89	NA	NA	
1,1-Dichloroethane		ND	ND	ND	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.045	<0.069	
1,2-Dichloroethane	0.44	ND	ND	ND	<0.14	<0.14	<0.14	<0.071	<0.14	<0.14	<0.14	<0.14	0.52	0.068	
1,1-Dichloroethylene		ND	ND	ND	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.039	<0.097	
cis-1,2-Dichloroethylene	5.3	2.1	0.6	2.2	1	2	0.41	1	0.25	<0.14	0.64	0.49	0.53	0.33	
trans-1,2-Dichloroethylene	53	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.045	<0.065	
1,2-Dichloropropane		ND	ND	ND	<0.16	<0.16	<0.16	<0.081	<0.16	<0.16	<0.16	<0.16	0.15	<0.12	
cis-1,3-Dichloropropene		ND	ND	ND	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.071	<0.080	
trans-1,3-Dichloropropene		<0.16	<0.16	<0.16	ND	ND	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.082	<0.15	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)		ND	ND	ND	ND	ND	<0.24	<0.24	<0.24	<0.24	<0.24	<0.25	NA	NA	
1,4-Dioxane		ND	ND	ND	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<0.62	<0.62	
Ethanol	NV	160	280	1100	250	520	250	490	150	110	450	330	NA	NA	
Ethyl Acetate	NV	2.7	9.7	<0.13	4.5	5.6	4.5	4.6	3.9	4.2	4	1.3	NA	NA	
Ethylbenzene	880	0.94	2.3	2.6	0.87	0.6	0.62	0.73	0.75	0.53	0.75	0.32	1.6	0.64	
4-Ethyltoluene	NV	0.41	1.1	0.95	0.71	0.64	<0.17	0.27	0.22	<0.17	0.36	<0.17	NA	NA	
Heptane	NV	1.4	3.4	3.3	1.1	0.94	0.61	0.89	0.73	0.8	0.83	0.35	NA	NA	
Hexachlorobutadiene		ND	ND	ND	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.21	<0.21	
Hexane	NV	<4.9	11	8.3	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	NA	NA	
2-Hexanone (MBK)		<0.14	<0.14	<0.14	ND	ND	<0.29	<0.14	<0.14	0.34	0.72	0.18	NA	NA	
Isopropanol	NV	31	11	12	11	85	13	12	6.1	7.7	5.6	7.2	NA	NA	
Methyl tert-Butyl Ether (MTBE)		ND	ND	ND	ND	ND	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.062	<0.062	
Methylene Chloride	530	<1.2	<1.2	<1.2	3.2	11	2.2	<1.2	<1.2	<1.2	<1.2	<1.2	0.42	0.63	
4-Methyl-2-pentanone (MIBK)	NV	ND	ND	ND	ND	ND	<0.14	0.35	<0.14	<0.14	<0.14	<0.14	<0.076	<0.076	
Styrene	20	<0.15	1.3	0.69	0.46	0.74	0.87	0.62	0.31	0.6	0.43	0.25	0.48	0.67	
1,1,2,2-Tetrachloroethane		ND	ND	ND	<0.24	<0.24	<0.24	<0.12	<0.24	<0.24	<0.24	<0.24	<0.059	<0.059	
Tetrachloroethylene (PCE)	4.1	51	17	46	22	42	11	17	5.5	1.5	8.7	8.7	3.9	4.5	
Toluene	4,400	14	31	70	17	10	23	31	12	9.5	33	5.1	13	8.4	
1,1,1-Trichloroethane	4,400	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.059	0.091	
1,1,2-Trichloroethane		ND	ND	ND	<0.19	<0.19	<0.19	<0.095	<0.19	<0.19	<0.19	<0.19	<0.049	<0.066	
Trichloroethylene (TCE)	1.8	1.4	1.0	1.5	0.64	1.5	0.39	0.72	0.24	0.34	0.32	0.31	0.13	0.49	
Trichlorofluoromethane (Freon 11)	NV	1.3	1.9	<0.78	1.3	1.3	1.1	1.3	1.3	1.1	1.1	0.93	NA	NA	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	ND	ND	ND	ND	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	NA	NA	
1,2,4-Trimethylbenzene	NV	1.5	3.9	3.3	3	2.4	1.2	1.2	0.99	0.52	1.6	0.65	<0.14	NA	
1,3,5-Trimethylbenzene	NV	0.32	0.91	0.83	0.87	1	0.32	0.32	0.28	0.19	0.54	<0.17	NA	NA	
Xylenes, Total (mixed isomers) ¹	88	4.8	12.1	12.4	4.4	2.47	2.85	2.98	3.36	2.03	3.08	1.52	5.8	2.88	
Naphthalene	2.7	2.4	9.5	4.2	3.5	1.9	4.5	4.4	0.98	1.1	2.7	0.54	2.3	2.8	
Propene		ND	ND	ND	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	NA	NA	
Vinyl Acetate		ND	ND	ND	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NA	NA	
Vinyl Chloride		<0.090	<0.090	<0.089	ND	ND	<0.089	<0.089	<0.089	<0.089	<0.089	<0.090	<0.041	<0.045	
Tetrahydrofuran	NV	<0.10	0.72	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	
Total VOCs	NV	296	468	1335	355	713	394	600	205	166	546	377	50	40	

Concentration in micrograms per cubic meter (ug/m3)

NV - indicates not applicable or no MassDEP TV for compound shown.

NA - Not Analyzed. 11/1/23 samples analyzed using protocol TO-15 VOC CAM IX B
which includes a reduced analyte list

<12 - Compound Not Detected. Value shown is Laboratory Reporting Limit.

12 - Concentration in BOLD indicates compound detected but

concentration is below TVCI

12 - Concentration exceeds the MassDEP Threshold Value for Commercial/

Industrial exposure (see TVCI Vapor Intrusion Guidance, WSC-16-435, October 2016)

¹For total xylenes where isomers reported separately, calculated
result includes one-half detection limit for non-detect values

TABLE 2
Water Carbon Treatment System - VOC Analytical Results
Operation, Maintenance and Monitoring - June 20, 2019 through July 18, 2024
USPS Main Post Office, 222 Main Street, Great Barrington, MA

Date	Sample	Total VOC Concentration (ug/L)	Total CVOC Concentration (ug/L)	Concentration (ug/L)									
				CVOCs				Petroleum Compounds				Other VOCs	
				cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Methyl tert Butyl Ether (MTBE)	Isopropylbenzene	Methyl ethyl ketone (MEK)	Tetrahydrofuran (THF)
6/20/2019	INFLUENT	347.7	225.8	27	1.8	180	17	<0.70	1.9	<1.0	<1.0	< 5.0	120
6/20/2019	MIDFLUENT	2.6	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.70	< 1.0	<1.0	<1.0	< 5.0	2.6
6/20/2019	EFFLUENT	330	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.70	< 1.0	<1.0	<1.0	80	250
7/2/2019	INFLUENT	303.1	152.7	19	1.7	120	12	<0.70	<1.0	1.2	<1.0	9.2	140
7/2/2019	MIDFLUENT	17.8	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	5.8	12
7/2/2019	EFFLUENT	85	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	27	58
7/31/2019	INFLUENT	186.8	166.8	29	2.8	120	15	<0.70	<1.0	<1.0	<1.0	< 5.0	20
7/31/2019	MIDFLUENT	<1.0 to <5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
7/31/2019	EFFLUENT	7.9	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	7.9
9/19/2019	INFLUENT	216.5	206.4	35	3.4	150	18	1.3	<1.0	<1.0	1.7	<5.0	7.1
9/19/2019	MIDFLUENT	<0.7 to <5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
9/19/2019	EFFLUENT	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	2.9
12/11/2019	INFLUENT	969	969	87	<5.0	860 E	22	<3.5	<5.0	<5.0	<5.0	<25	<13
12/11/2019	MIDFLUENT	14	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	14
12/11/2019	EFFLUENT	<0.7 to <5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
3/11/2020	INFLUENT	579	579	63	1	490	25	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
3/11/2020	MIDFLUENT	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	3.6
3/11/2020	EFFLUENT	6.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	6.5
5/11/2020	INFLUENT	857	857	68	1	760	28	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
5/11/2020	MIDFLUENT	<1.0 to <5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
5/11/2020	EFFLUENT	15	<5.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	15
7/9/2020	INFLUENT	211.6	211.6	38	2.6	160	11	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
7/9/2020	MIDFLUENT	5.1	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	5.1
7/9/2020	EFFLUENT	7.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	7.0
9/18/2020	INFLUENT	217	216	38	3.1	160	15	0.81	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
9/18/2020	MIDFLUENT	< 0.70 to <5.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
9/18/2020	EFFLUENT	4.7	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	4.7
11/19/2020	INFLUENT	418	417.7	48	1.7	350	18	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
11/19/2020	MIDFLUENT	15.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.4	< 1.0	< 1.0	8.9	< 5.0	3.3
11/19/2020	EFFLUENT	5.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	5.1
1/26/2021	INFLUENT	588	588	64	< 5.0	500	24	< 3.5	< 5.0	< 5.0	< 5.0	< 25	< 13
1/26/2021	MIDFLUENT	< 0.70 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
1/26/2021	EFFLUENT	< 0.70 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
3/4/2021	INFLUENT	828	828	69	1	730	28	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
3/4/2021	MIDFLUENT	< 0.70 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
3/4/2021	EFFLUENT	< 0.70 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
5/4/2021	INFLUENT	897	897	89	<1.0	770	38	<5.0	<10	<10	<10	<5.0	<2.5
5/4/2021	MIDFLUENT	< 0.5 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.50	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
5/4/2021	EFFLUENT	< 0.5 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.50	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5

TABLE 2
Water Carbon Treatment System - VOC Analytical Results
Operation, Maintenance and Monitoring - June 20, 2019 through July 18, 2024
USPS Main Post Office, 222 Main Street, Great Barrington, MA

Date	Sample	Total VOC Concentration (ug/L)	Total CVOC Concentration (ug/L)	Concentration (ug/L)									
				CVOCs				Petroleum Compounds				Other VOCs	
				cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Methyl tert Butyl Ether (MTBE)	Isopropylbenzene	Methyl ethyl ketone (MEK)	Tetrahydrofuran (THF)
7/8/2021 7/8/2021 7/8/2021	INFLUENT MIDFLUENT EFFLUENT	936 10 < 0.7 to <5.0	936 10 <0.70 to <1.0	90 10 < 1.0	1 < 1.0 < 1.0	810 < 1.0 < 1.0	35 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 5.0 < 5.0 < 5.0	< 2.5 < 2.5 < 2.5
9/1/2021 9/1/2021 9/1/2021	INFLUENT MIDFLUENT EFFLUENT	460 35 < 0.7 to <5.0	459.6 35 <0.70 to <1.0	48 35 < 1.0	1.6 < 1.0 < 1.0	390 < 1.0 < 1.0	20 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 5.0 < 5.0 < 5.0	< 2.5 < 2.5 < 2.5
11/19/2021 11/19/2021 11/19/2021	INFLUENT MIDFLUENT EFFLUENT	336 57 < 0.7 to <5.0	336.3 57 <0.70 to <1.0	56 57 < 1.0	1.3 < 1.0 < 1.0	260 < 1.0 1.0	19 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 5.0 < 5.0 < 5.0	< 2.5 < 2.5 < 2.5
1/27/2022 1/27/2022 1/27/2022	INFLUENT MIDFLUENT EFFLUENT	95 <0.5 to <5.0 < 0.5 to <5.0	94.9 <0.70 to <1.0 <0.70 to <1.0	20 <1.0 < 1.0	<1.0 < 1.0 < 1.0	71 < 1.0 < 1.0	3.9 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
3/8/2022 3/8/2022 3/8/2022	INFLUENT MIDFLUENT EFFLUENT	843 <0.5 to <5.0 < 0.5 to <5.0	843 <0.70 to <1.0 <0.70 to <1.0	79 <1.0 < 1.0	<5.0 < 1.0 < 1.0	730 1.4 < 1.0	34 < 1.0 < 1.0	< 3.5 < 0.70 < 0.70	< 5.0 < 1.0 < 1.0	< 5.0 < 1.0 < 1.0	< 5.0 < 1.0 < 1.0	< 25 < 5.0 < 5.0	<13 <2.5 <2.5
5/22/2022 5/22/2022 5/22/2022	INFLUENT MIDFLUENT EFFLUENT	418 4 < 0.5 to <5.0	418 3.8 <0.70 to <1.0	47 <1.0 < 1.0	<5.0 < 1.0 < 1.0	350 3.8 < 1.0	21 < 1.0 < 1.0	<0.70 < 0.70 < 0.70	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
7/11/2022 7/11/2022 7/11/2022	INFLUENT MIDFLUENT EFFLUENT	219.4 <0.70 to <5.0 <0.70 to <5.0	219.4 <0.70 to <1.0 <0.70 to <1.0	36 <1.0 < 1.0	1.4 < 1.0 < 1.0	170 < 1.0 < 1.0	12 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
9/7/2022 9/7/2022 9/7/2022	INFLUENT MIDFLUENT EFFLUENT	332.0 <0.70 to <5.0 <0.70 to <5.0	328 <0.70 to <1.0 <0.70 to <1.0	52 <1.0 < 1.0	< 1.0 < 1.0 < 1.0	260 < 1.0 < 1.0	16 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	1.1 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
11/17/2022 11/17/2022 11/17/2022	INFLUENT MIDFLUENT EFFLUENT	319 <0.70 to <5.0 <0.70 to <5.0	319 <0.70 to <1.0 <0.70 to <1.0	63 <1.0 < 1.0	< 1.0 < 1.0 < 1.0	240 < 1.0 < 1.0	16 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
1/10/2023 1/10/2023 1/10/2023	INFLUENT MIDFLUENT EFFLUENT	966 <0.70 to <5.0 <0.70 to <5.0	966 <0.70 to <1.0 <0.70 to <1.0	85 <1.0 < 1.0	< 1.0 < 1.0 < 1.0	850 < 1.0 < 1.0	31 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
3/10/2023 3/10/2023 3/10/2023	INFLUENT MIDFLUENT EFFLUENT	928 7 <0.70 to <5.0	928 7 <0.70 to <1.0	87 7.2 < 1.0	< 1.0 < 1.0 < 1.0	810 < 1.0 < 1.0	31 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
5/17/2023 5/17/2023 5/17/2023	INFLUENT MIDFLUENT EFFLUENT	508 25 <0.70 to <5.0	508 25 <0.70 to <1.0	66 24 < 1.0	< 1.0 < 1.0 < 1.0	420 1.3 < 1.0	22 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5

TABLE 2
Water Carbon Treatment System - VOC Analytical Results
Operation, Maintenance and Monitoring - June 20, 2019 through July 18, 2024
USPS Main Post Office, 222 Main Street, Great Barrington, MA

Date	Sample	Total VOC Concentration (ug/L)	Total CVOC Concentration (ug/L)	Concentration (ug/L)									
				CVOCs				Petroleum Compounds				Other VOCs	
				cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Methyl tert Butyl Ether (MTBE)	Isopropylbenzene	Methyl ethyl ketone (MEK)	Tetrahydrofuran (THF)
7/18/2023	INFLUENT	695	695	87	< 1.0	580	28	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
7/18/2023	MIDFLUENT	80	80	79	< 1.0	1.2	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
7/18/2023	EFFLUENT	<0.70 to <5.0	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
9/6/2023	INFLUENT	186	186	36	< 1.0	140	10	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
9/6/2023	MIDFLUENT	60	60	58	< 1.0	2.1	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
9/6/2023	EFFLUENT	<0.70 to <5.0	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
11/2/2023	INFLUENT	175	175	37	< 1.0	130	8	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
11/2/2023	MIDFLUENT	92	89	89	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	3.0
11/2/2023	EFFLUENT	3	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	2.5
1/10/2024	INFLUENT	601	601	61	< 1.0	480	60	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
1/10/2024	MIDFLUENT	74	74	70	< 1.0	3.0	1.4	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
1/10/2024	EFFLUENT	<0.70 to <5.0	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
5/8/2024	INFLUENT	468	468	71	< 1.0	360	37	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
5/8/2024	MIDFLUENT	10	4.3	2.0	< 1.0	2.3	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	5.7
5/8/2024	EFFLUENT	<0.70 to <5.0	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
7/18/2024	INFLUENT	102	101.9	21	< 1.0	74	6.9	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
7/18/2024	MIDFLUENT	4.6	4.6	2.1	< 1.0	2.5	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
7/18/2024	EFFLUENT	<0.70 to <5.0	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5

Note:
VOC analysis by SW Method 8260C.
COCs = Contaminants of Concern from former Ried Dry Cleaner property include chlorinated volatile organic compounds (CVOCs).
System started up June 12, 2019.
Total VOCs = CVOCs + petroleum compounds (MTBE) + other (MEK and THF related to system piping glue).MTBE is related to a release from an off-site upgradient source.
Total Chlorinated VOCs (CVOCs) are contaminants of concern related to former Ried Dry Cleaner property.
Trip Blanks analyzed were not detected for VOCs.

TABLE 3
 OMM Summary Data
 June 12, 2019 through July 18, 2024
 USPS Main Post Office, 221 Main Street, Great Barrington, MA

Date ⁽¹⁾	System On?	Licensed wastewater operator Present?	Sensaphone Autodialer ^(4,5) On?	Water On Floor?	Sumps Operational?	Total Flow (gals)	Approx. Flow Rate ⁽³⁾ (GPM)	Effluent pH	Headspace PID - TVOCs (ppm)				Ambient Air PID - TVOCs (ppm)				
									Sump 1	Sump 2	Sump 3	Tile Drain					
									Fuel Room	Storage Room	Break Room	Manhole	Fuel Room	Storage Room	Break Room	Boiler Room	Stamp Room
June 12, 2019	Yes		Yes	No	Yes	963	5	8.02	12	3.0	25	_(2)	-	-	-	-	-
July 2, 2019	Yes		Yes	No	Yes	1,832	≈5	8.05	5.5	1.4	44.2	-	0.90	0.30	0.0	-	-
July 31, 2019	Yes		No-Offline	No	Yes	3,344	4	8.22	1.9	4.4	3.0	-	1.40	0.70	0.0	-	-
September 19, 2019	Yes		Yes	Yes - rain	Yes	6,512	5	7.96	0.348	2.34	0.65	2.3	0.40	0.39	0.25	0.24	0.288
December 11, 2019	Yes		Yes	Yes - rain	Yes	43,826	≈4.4	7.83	5.4	5.4	10.0	-	1.20	0.80	0.60	0.70	0.80
March 11, 2020	Yes		Yes	No	Yes	92,664	≈5	7.40	7.6	3.88	6.33	0.0	0.575	0.22	0.08	0.051	0.14
May 11, 2020	Yes		Yes	No (damp)	Yes	128,376	≈4	7.28	10.2	2.7	12	0.0	0.71	0.21	0.125	0.04	0.114
July 9, 2020	Yes		Yes	No	Yes	136,351	≈4.5	7.84	0.82	2.8	0.18	2.7	0.86	1.02	0.07	0.11	0.42
September 18, 2020	Yes		Yes	No	Yes	142,610	4.5	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
November 19, 2020	Yes		Yes	No	Yes	154,677	4.5	7.55	0.234	0.47	0.23	0.0	0.036	0.011	0.0	0.00	0.0
January 26, 2021	Yes		Yes	No	Yes	188,341	4.5	7.40	500	490	6.16	0.1	0.615	0.10	0.17	0.05	0.115
March 4, 2021	Yes		Yes	No	Yes	194,224	4.5	8.60	5.4	4.30	5.80	0.048	0.58	0.136	0.202	0.016	NM
May 4, 2021	Yes		Yes	No	Yes	221,000	4.5	7.59	22.5	6.15	32.75	0.1	1.45	0.265	0.30	0.135	NM
July 8, 2021	Yes		Yes	Yes - rain	Yes	263,180	4.5	8.70	2.0	5.50	2.16	17.5	0.88	0.600	0.09	0.150	NM
September 1, 2021	Yes	Yes	Yes	Yes - rain	Yes	330,260	4.5	7.38	0.6	7.7	9.03	13.5	0.375	0.28	0.04	0.03	NM
November 19, 2021	Yes	No	Yes	Yes - rain	Yes	376,852	4.5	7.47	9.7	18	8.90	0.57	1.42	0.56	0.08	0.09	NM
January 27, 2022	Yes	Yes	No-Offline	No	Yes	389,586	4.5	7.3	1.0	1.4	0.20	0.01	0.11	0.20	0.012	0.078	NM
March 8, 2022	Yes	Yes	Yes	No	Yes	410,560	4.5	8.25	5.6	7.9	20.00	0.002	0.875	0.18	0.014	0	NM
May 25, 2022	Yes	Yes	Yes	Yes - rain	Yes	464,860	4.5	7.15	11.8	6.025	11.68	0.375	0.505	0.35	0.052	0.16	NM
July 11, 2022	Yes	No	Yes	Yes - rain	Yes	473,680	4.5	7.15	0.0	3.046	4.47	1.15	0	0.00	0	0	NM
September 7, 2022	Yes	No	Yes	Yes - rain	Yes	483,827	4.5	8.59	0.1	3.85	8.25	0.99	0.135	0.00	0	0	NM
November 17, 2022	Yes	No	Yes	Yes - rain	Yes	513,534	4.5	7.57	8.3	7.4	14.25	0	0.99	0.13	0.004	0.065	NM
January 10, 2023	Yes	No	Yes	No	Yes	556,063	4.5	7.22	35.0	50	33.00	0	1.2	40.00	3.38	0.22	NM
March 8, 2023	Yes	Yes	Yes	Yes - rain	Yes	601,365	4.5	7.95	11.5	7	11.00	0	0.88	11.00	0.74	0	NM
May 16, 2023	Yes	No	Yes	No	Yes	652,220	4.5	7.44	1.2	1.105	1.06	0.024	0.252	0.05	0.008	0.018	NM
July 13, 2023	Yes	No	Yes	Yes - rain	Yes	685,250	4.5	7.34	0.2	2.7	0.03	14	0.175	0.11	0.025	0.058	NM
September 6, 2023	Yes	No	Yes	No	Yes	737,020	4.5	7.45	0.5	7.1	1.50	22	0.32	1.03	0.098	0.265	NM
November 2, 2023	Yes	No	Yes	No	Yes	766,348	4.5	7.26	11.5	20.5	16.50	0	0	0	0	0	NM
January 10, 2024	Yes	Yes	Yes	No	Yes	808,440	4.5	7.98	13.0	1.4	24.00	NM	0	0	0	0	NM
March 7, 2024	Yes	No	Yes	No	Yes	847,470	4.5	8.36	0.6	4.135	44.80	0	0	0	0	0	NM
May 8, 2024	Yes	No	Yes	N	Yes	914,050	4.5	7.87	11.0	24	44.00	0.367	0	0	0	0	NM
July 18, 2024	Yes	No	Yes	No	Yes	929,320	4.5	7.51	0.0	4.2	0.00	NM	0	0	0	0	NM

Note:
 Results are in gallons (gals), gallons per minute (GPM), and parts per million (ppm).
 1. OMM checks of system conducted by AECOM on dates listed above.
 2. (-) indicates not measured.
 3. Flow Rate is estimated and measured at the totalizer with the system ON.
 4. Sensaphone® Sentinel Monitoring System went offline on Monday, July 29, 2019 at 01:34 AM. Troubleshooting unit, modem, antenna. Restarted on Monday August 6, 2019.
 5. Sensaphone® Remote Monitoring System was offline from October 9, 2019 through December 10, 2019. The broken/cut antenna wire was repaired on December 11, 2019.
 6. NM= Not Measured.

ATTACHMENT A

Project Name: <u>USPS Great Barrington</u>		Sample ID: <u>IAQ 24-1</u>
Recorded By: <u>JKH</u>		Sampling Date: <u>3/6/24</u>
Client: <u>USPS</u>		General Weather Conditions: <u>Rain, 40's</u>

Indoor Air / Ambient Air Sample	
Sample Location: <u>1st Floor (near water cooler)</u>	
Ambient Temperature and Barometric Pressure (if available): <u>70.8°F / 30.05" Hg</u>	
Vacuum Gauge ID: <u>N/A</u>	
Flow Controller ID: <u>3703</u>	
Canister ID: <u>BCP 2831</u>	
Sample Height: <u>4'</u>	
Canister Volume: <u>6L</u>	
Laboratory Recorded Pressure of Canister: <u> </u> (Canister Label/Tag - From Laboratory)	
Sample Start Time: <u>0603</u>	Initial Vacuum Gauge Reading: <u>-30</u>
<u>50 ppb</u>	
Sample Check Time: <u>0807</u>	Vacuum Gauge Reading: <u>-26</u>
Sample Check Time: <u>1004</u>	Vacuum Gauge Reading: <u>-21</u>
Sample Check Time: <u>1155</u>	Vacuum Gauge Reading: <u>-16</u>
Sample End Time: <u>1403</u>	Final Vacuum Gauge Reading: <u>-10</u>
Shipping Date: <u>3/6/24</u>	
Notes	

IAQ Round 24

Project Name: <u>USPS Great Barrington</u>		Sample ID: <u>IAQ 24-2</u>
Recorded By: <u>JKH</u>	Sampling Date: <u>3/6/24</u>	
Client: <u>USPS</u>	General Weather Conditions: <u>Rain, 40's</u>	

Indoor Air / Ambient Air Sample	
Sample Location: <u>1st Floor Middle Area</u>	
Ambient Temperature and Barometric Pressure (if available): <u>70°F / 30.05" Hg</u>	
Vacuum Gauge ID: <u>NA</u>	
Flow Controller ID: <u>3103</u>	
Canister ID: <u>BCP 2798</u>	
Sample Height: <u>4'</u>	
Canister Volume: <u>6L</u>	
Laboratory Recorded Pressure of Canister: <u> </u> (Canister Label/Tag - From Laboratory)	
Sample Start Time: <u>0605</u>	Initial Vacuum Gauge Reading: <u>-29</u>
Sample Check Time: <u>0809</u> <u>37ppb</u>	Vacuum Gauge Reading: <u>-25</u>
Sample Check Time: <u>1005</u>	Vacuum Gauge Reading: <u>-19</u>
Sample Check Time: <u>1155</u>	Vacuum Gauge Reading: <u>-14</u>
Sample End Time: <u>1405</u>	Final Vacuum Gauge Reading: <u>-7</u>
Shipping Date: <u>3/6/24</u>	
Notes	

IAQ Round 24

250 Apollo Drive
Chelmsford, MA 01824
T 978-905-2100 F 978-905-2101

Project Name: <u>USPS Great Barrington</u>		Sample ID: <u>IAQ 24-3</u>
Recorded By: <u>JRH</u>	Sampling Date: <u>3/6/24</u>	
Client: <u>USPS</u>	General Weather Conditions: <u>Rain, 40's</u>	

Indoor Air / Ambient Air Sample

Sample Location: 1st Floor - Public Mailbox Area

Ambient Temperature and Barometric Pressure (if available): 70°F / 30.05

Vacuum Gauge ID: NA

Flow Controller ID: 3770

Canister ID: BCP 2091

Sample Height: 4'

Canister Volume: 6L

Laboratory Recorded Pressure of Canister: ✓ (Canister Label/Tag - From Laboratory)

Sample Start Time: <u>0608</u>	Initial Vacuum Gauge Reading: <u>-28</u>
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Sample Check Time: <u>0810</u>	Vacuum Gauge Reading: <u>-24</u>
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Sample Check Time: <u>1005</u>	Vacuum Gauge Reading: <u>-19</u>
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Sample Check Time: <u>1156</u>	Vacuum Gauge Reading: <u>-15</u>
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Sample End Time: <u>1408</u>	Final Vacuum Gauge Reading: <u>-10</u>
------------------------------	--

Shipping Date: 3/6/24

Notes

IAQ Round 24

Project Name: <u>USPS Great Barrington</u>		Sample ID: <u>IAQ24-4</u>	
Recorded By: <u>JLH</u>		Sampling Date: <u>3/6/24</u>	
Client: <u>USPS</u>		General Weather Conditions: <u>Rain, 40's</u>	
Indoor Air / Ambient Air Sample			
Sample Location: <u>1st Floor Southwest Corner Area</u>			
Ambient Temperature and Barometric Pressure (if available): <u>70°F / 30.05" Hg</u>			
Vacuum Gauge ID: <u>NA</u>			
Flow Controller ID: <u>3596</u>			
Canister ID: <u>BCP 2317</u>			
Sample Height: <u>4'</u>			
Canister Volume: <u>6L</u>			
Laboratory Recorded Pressure of Canister: <u>✓</u> (Canister Label/Tag - From Laboratory)			
Sample Start Time: <u>0610</u>		Initial Vacuum Gauge Reading: <u>-29</u>	
Sample Check Time: <u>0811</u>		Vacuum Gauge Reading: <u>-24</u>	
Sample Check Time: <u>1006</u>		Vacuum Gauge Reading: <u>-19</u>	
Sample Check Time: <u>1156</u>		Vacuum Gauge Reading: <u>-14</u>	
Sample End Time: <u>1410</u>		Final Vacuum Gauge Reading: <u>-8</u>	
Shipping Date: <u>3/6/24</u>			
Notes			

IAQ Round 24

Project Name: <u>USPS Great Barrington</u>	Sample ID: <u>IAQ24-8</u>
Recorded By: <u>JKH</u>	Sampling Date: <u>3/6/24</u>
Client: <u>USPS</u>	General Weather Conditions: <u>Rain, 40's</u>

Indoor Air / Ambient Air Sample

Sample Location: Basement Break Room - Symp #3

Ambient Temperature and Barometric Pressure (if available): 80°F / 30.05" Hg

Vacuum Gauge ID: NA

Flow Controller ID: 3771

Canister ID: BCP 2164

Sample Height: 4'

Canister Volume: 6L

Laboratory Recorded Pressure of Canister: / (Canister Label/Tag - From Laboratory)

Sample Start Time: 0612 Oppb Initial Vacuum Gauge Reading: -28

Sample Check Time: 0813 Vacuum Gauge Reading: -23

Sample Check Time: 1007 Vacuum Gauge Reading: -19

Sample Check Time: 1157 Vacuum Gauge Reading: -14

Sample End Time: 1412 Final Vacuum Gauge Reading: -8

Shipping Date: 3/6/24

Notes

AECOM

250 Apollo Drive
Chelmsford, MA 01824
T 978-905-2100 F 978-905-2101

IAQ Round 24

Project Name: <u>USPS Great Cammington</u>		Sample ID: <u>IAQ 24-9</u>
Recorded By: <u>JKH</u>		Sampling Date: <u>3/6/24</u>
Client: <u>USPS</u>		General Weather Conditions: <u>Rain, 40's</u>

Indoor Air / Ambient Air Sample

Sample Location: Basement Storage Room - Sump #2

Ambient Temperature and Barometric Pressure (if available): 80°F / 30.05" Hg

Vacuum Gauge ID: NA

Flow Controller ID: 3768

Canister ID: BCP 2377

Sample Height: 4'

Canister Volume: 6L

Laboratory Recorded Pressure of Canister: ☒ (Canister Label/Tag - From Laboratory)

Sample Start Time: 0612 0 ppb Initial Vacuum Gauge Reading: -28

Sample Check Time: 0814 Vacuum Gauge Reading: -24

Sample Check Time: 1008 Vacuum Gauge Reading: -19

Sample Check Time: 1158 Vacuum Gauge Reading: -15

Sample End Time: 1412 Final Vacuum Gauge Reading: -9

Shipping Date: 3/6/24

Notes

IAQ Round 24

Project Name: <u>USPS Great Barrington</u>	Sample ID: <u>IAQ 24-10</u>
Recorded By: <u>JKH</u>	Sampling Date: <u>3/6/24</u>
Client: <u>USPS</u>	General Weather Conditions: <u>Rain, 40's</u>

Indoor Air / Ambient Air Sample

Sample Location: Basement Fuel Room - Sump #1

Ambient Temperature and Barometric Pressure (if available): 80°F / 30.05" Hg

Vacuum Gauge ID: NA

Flow Controller ID: 3006

Canister ID: BCP 1238

Sample Height: 4'

Canister Volume: 6L

Laboratory Recorded Pressure of Canister: ✓ (Canister Label/Tag - From Laboratory)

Sample Start Time: 0614 Initial Vacuum Gauge Reading: -29

Sample Check Time: 0814 Vacuum Gauge Reading: -25

Sample Check Time: 1008 Vacuum Gauge Reading: -20

Sample Check Time: 1158 Vacuum Gauge Reading: -15

Sample End Time: 1414 Final Vacuum Gauge Reading: -8

Shipping Date: _____

Notes

IAQ Round 24

Project Name: <u>USPS Great Barrington</u>	Sample ID: <u>IAQ 24-11</u>
Recorded By: <u>JKA</u>	Sampling Date: <u>3/6/24</u>
Client: <u>USPS</u>	General Weather Conditions: <u>Rain, 40's</u>

Indoor Air / Ambient Air Sample

Sample Location: Basement Boiler Room

Ambient Temperature and Barometric Pressure (if available): 80°F / 30.05" Hg

Vacuum Gauge ID: NA

Flow Controller ID: 3661

Canister ID: BCP 2316

Sample Height: 4'

Canister Volume: 6L

Laboratory Recorded Pressure of Canister: ✓ (Canister Label/Tag - From Laboratory)

Sample Start Time: <u>0615</u>	Initial Vacuum Gauge Reading: <u>-29</u>
Sample Check Time: <u>0815</u> <u>0ppb</u>	Vacuum Gauge Reading: <u>-24</u>
Sample Check Time: <u>1008</u>	Vacuum Gauge Reading: <u>-19</u>
Sample Check Time: <u>1159</u>	Vacuum Gauge Reading: <u>-14</u>
Sample End Time: <u>1415</u>	Final Vacuum Gauge Reading: <u>-8</u>
Shipping Date: <u>3/6/24</u>	

Notes

IAQ Round 24

Project Name: <u>USPS Great Barrington</u>	Sample ID: <u>IAQ24-OUTDOOR</u>
Recorded By: <u>JRH</u>	Sampling Date: <u>3/6/24</u>
Client: <u>USPS</u>	General Weather Conditions: <u>Rain, 40's</u>

Indoor Air / Ambient Air Sample

Sample Location: Outside Near Old Coal Chute

Ambient Temperature and Barometric Pressure (if available): 44°F / 30.05" Hg

Vacuum Gauge ID: NA

Flow Controller ID: 3018

Canister ID: BCP0309

Sample Height: 4'

Canister Volume: 6L

Laboratory Recorded Pressure of Canister: ✓ (Canister Label/Tag - From Laboratory)

Sample Start Time: <u>0616</u> <u>oppb</u>	Initial Vacuum Gauge Reading: <u>-28</u>
Sample Check Time: <u>0816</u>	Vacuum Gauge Reading: <u>-24</u>
Sample Check Time: <u>1009</u>	Vacuum Gauge Reading: <u>-19</u>
Sample Check Time: <u>1200</u>	Vacuum Gauge Reading: <u>-14</u>
Sample End Time: <u>1416</u>	Final Vacuum Gauge Reading: <u>-8</u>
Shipping Date: <u>3/6/24</u>	

Notes

March 15, 2024

Rai Matos
AECOM Environment - Chelmsford, MA
250 Apollo Drive
Chelmsford, MA 01824

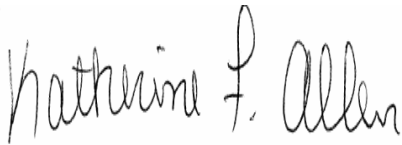
Project Location: 222 Main St., Great Barrington, MA
Client Job Number:
Project Number: 60624296.21
Laboratory Work Order Number: 24C1023

Enclosed are results of analyses for samples as received by the laboratory on March 6, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

AECOM Environment - Chelmsford, MA
250 Apollo Drive
Chelmsford, MA 01824
ATTN: Rai Matos

REPORT DATE: 3/15/2024

PURCHASE ORDER NUMBER: 101744

PROJECT NUMBER: 60624296.21

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24C1023

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 222 Main St., Great Barrington, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IAQ24-1	24C1023-01	Indoor air		- EPA TO-15	
IAQ24-2	24C1023-02	Indoor air		- EPA TO-15	
IAQ24-3	24C1023-03	Indoor air		- EPA TO-15	
IAQ24-4	24C1023-04	Indoor air		- EPA TO-15	
IAQ24-8	24C1023-05	Indoor air		- EPA TO-15	
IAQ24-9	24C1023-06	Indoor air		- EPA TO-15	
IAQ24-10	24C1023-07	Indoor air		- EPA TO-15	
IAQ24-11	24C1023-08	Indoor air		- EPA TO-15	
IAQ24-OUTDOOR	24C1023-09	Ambient Air		- EPA TO-15	
UNUSED	24C1023-10	Air		-	

CASE NARRATIVE SUMMARY

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

EPA TO-15**Qualifications:**

R-04 Duplicate relative percent difference (RPD) is outside of control limits. RPD is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

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

B368577-DUP1

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

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



Lisa A. Worthington
Technical Representative

ANALYTICAL RESULTS

Project Location: 222 Main St., Great Barrington, M
Date Received: 3/6/2024
Field Sample #: IAQ24-1
Sample ID: 24C1023-01
Sample Matrix: Indoor air
Sampled: 3/6/2024 14:03

Sample Description/Location:
Sub Description/Location:
Canister ID: P2831
Canister Size: 6 liter
Flow Controller ID: 3703
Sample Type: 8 hr

Work Order: 24C1023
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -10
Receipt Vacuum(in Hg): -9.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	5.6	1.4	0.71		13	3.3	1.7	0.698	3/13/24 3:22	TPH
Benzene	0.21	0.035	0.011		0.68	0.11	0.034	0.698	3/13/24 3:22	TPH
Bromodichloromethane	ND	0.035	0.014		ND	0.23	0.096	0.698	3/13/24 3:22	TPH
Bromoform	ND	0.035	0.012		ND	0.36	0.13	0.698	3/13/24 3:22	TPH
Bromomethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/13/24 3:22	TPH
2-Butanone (MEK)	ND	1.4	0.68		ND	4.1	2.0	0.698	3/13/24 3:22	TPH
Carbon Tetrachloride	0.050	0.035	0.027		0.31	0.22	0.17	0.698	3/13/24 3:22	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.053	0.698	3/13/24 3:22	TPH
Chloroform	0.76	0.035	0.017		3.7	0.17	0.083	0.698	3/13/24 3:22	TPH
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/13/24 3:22	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.022		ND	0.27	0.17	0.698	3/13/24 3:22	TPH
1,2-Dichlorobenzene	ND	0.035	0.012		ND	0.21	0.073	0.698	3/13/24 3:22	TPH
1,3-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	3/13/24 3:22	TPH
1,4-Dichlorobenzene	ND	0.035	0.017		ND	0.21	0.10	0.698	3/13/24 3:22	TPH
1,1-Dichloroethane	ND	0.035	0.017		ND	0.14	0.069	0.698	3/13/24 3:22	TPH
1,2-Dichloroethane	0.018	0.035	0.013	J	0.073	0.14	0.053	0.698	3/13/24 3:22	TPH
1,1-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.097	0.698	3/13/24 3:22	TPH
cis-1,2-Dichloroethylene	0.092	0.035	0.017		0.37	0.14	0.067	0.698	3/13/24 3:22	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.016		ND	0.14	0.065	0.698	3/13/24 3:22	TPH
1,2-Dichloropropane	ND	0.035	0.026		ND	0.16	0.12	0.698	3/13/24 3:22	TPH
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.080	0.698	3/13/24 3:22	TPH
trans-1,3-Dichloropropene	ND	0.035	0.034		ND	0.16	0.15	0.698	3/13/24 3:22	TPH
1,4-Dioxane	ND	0.35	0.17		ND	1.3	0.62	0.698	3/13/24 3:22	TPH
Ethylbenzene	0.14	0.035	0.012		0.62	0.15	0.052	0.698	3/13/24 3:22	TPH
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.698	3/13/24 3:22	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.017		ND	0.13	0.062	0.698	3/13/24 3:22	TPH
Methylene Chloride	0.16	0.35	0.094	J	0.56	1.2	0.33	0.698	3/13/24 3:22	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.076	0.698	3/13/24 3:22	TPH
Naphthalene	0.67	0.035	0.028		3.5	0.18	0.15	0.698	3/13/24 3:22	TPH
Styrene	0.13	0.035	0.027		0.56	0.15	0.12	0.698	3/13/24 3:22	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0086		ND	0.24	0.059	0.698	3/13/24 3:22	TPH
Tetrachloroethylene	0.73	0.035	0.030		5.0	0.24	0.20	0.698	3/13/24 3:22	TPH
Toluene	2.1	0.035	0.017		8.0	0.13	0.066	0.698	3/13/24 3:22	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.019		ND	0.26	0.14	0.698	3/13/24 3:22	TPH
1,1,1-Trichloroethane	0.018	0.035	0.011	J	0.099	0.19	0.059	0.698	3/13/24 3:22	TPH
1,1,2-Trichloroethane	ND	0.035	0.012		ND	0.19	0.066	0.698	3/13/24 3:22	TPH
Trichloroethylene	0.067	0.035	0.027		0.36	0.19	0.14	0.698	3/13/24 3:22	TPH
Vinyl Chloride	ND	0.035	0.018		ND	0.089	0.045	0.698	3/13/24 3:22	TPH
m&p-Xylene	0.45	0.070	0.024		2.0	0.30	0.11	0.698	3/13/24 3:22	TPH
o-Xylene	0.19	0.035	0.013		0.81	0.15	0.055	0.698	3/13/24 3:22	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.7	70-130	3/13/24 3:22

ANALYTICAL RESULTS

Project Location: 222 Main St., Great Barrington, M
Date Received: 3/6/2024
Field Sample #: IAQ24-2
Sample ID: 24C1023-02
Sample Matrix: Indoor air
Sampled: 3/6/2024 14:05

Sample Description/Location:
Sub Description/Location:
Canister ID: P2798
Canister Size: 6 liter
Flow Controller ID: 3103
Sample Type: 8 hr

Work Order: 24C1023
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -7.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	7.0	1.4	0.71		17	3.3	1.7	0.698	3/13/24	3:55	TPH
Benzene	0.23	0.035	0.011		0.75	0.11	0.034	0.698	3/13/24	3:55	TPH
Bromodichloromethane	ND	0.035	0.014		ND	0.23	0.096	0.698	3/13/24	3:55	TPH
Bromoform	ND	0.035	0.012		ND	0.36	0.13	0.698	3/13/24	3:55	TPH
Bromomethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/13/24	3:55	TPH
2-Butanone (MEK)	ND	1.4	0.68		ND	4.1	2.0	0.698	3/13/24	3:55	TPH
Carbon Tetrachloride	0.045	0.035	0.027		0.28	0.22	0.17	0.698	3/13/24	3:55	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.053	0.698	3/13/24	3:55	TPH
Chloroform	0.18	0.035	0.017		0.86	0.17	0.083	0.698	3/13/24	3:55	TPH
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/13/24	3:55	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.022		ND	0.27	0.17	0.698	3/13/24	3:55	TPH
1,2-Dichlorobenzene	ND	0.035	0.012		ND	0.21	0.073	0.698	3/13/24	3:55	TPH
1,3-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	3/13/24	3:55	TPH
1,4-Dichlorobenzene	ND	0.035	0.017		ND	0.21	0.10	0.698	3/13/24	3:55	TPH
1,1-Dichloroethane	ND	0.035	0.017		ND	0.14	0.069	0.698	3/13/24	3:55	TPH
1,2-Dichloroethane	0.015	0.035	0.013	J	0.059	0.14	0.053	0.698	3/13/24	3:55	TPH
1,1-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.097	0.698	3/13/24	3:55	TPH
cis-1,2-Dichloroethylene	0.095	0.035	0.017		0.38	0.14	0.067	0.698	3/13/24	3:55	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.016		ND	0.14	0.065	0.698	3/13/24	3:55	TPH
1,2-Dichloropropane	ND	0.035	0.026		ND	0.16	0.12	0.698	3/13/24	3:55	TPH
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.080	0.698	3/13/24	3:55	TPH
trans-1,3-Dichloropropene	ND	0.035	0.034		ND	0.16	0.15	0.698	3/13/24	3:55	TPH
1,4-Dioxane	ND	0.35	0.17		ND	1.3	0.62	0.698	3/13/24	3:55	TPH
Ethylbenzene	0.17	0.035	0.012		0.72	0.15	0.052	0.698	3/13/24	3:55	TPH
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.698	3/13/24	3:55	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.017		ND	0.13	0.062	0.698	3/13/24	3:55	TPH
Methylene Chloride	0.20	0.35	0.094	J	0.69	1.2	0.33	0.698	3/13/24	3:55	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.076	0.698	3/13/24	3:55	TPH
Naphthalene	0.63	0.035	0.028		3.3	0.18	0.15	0.698	3/13/24	3:55	TPH
Styrene	0.14	0.035	0.027		0.59	0.15	0.12	0.698	3/13/24	3:55	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0086		ND	0.24	0.059	0.698	3/13/24	3:55	TPH
Tetrachloroethylene	0.70	0.035	0.030		4.7	0.24	0.20	0.698	3/13/24	3:55	TPH
Toluene	2.1	0.035	0.017		8.0	0.13	0.066	0.698	3/13/24	3:55	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.019		ND	0.26	0.14	0.698	3/13/24	3:55	TPH
1,1,1-Trichloroethane	0.019	0.035	0.011	J	0.10	0.19	0.059	0.698	3/13/24	3:55	TPH
1,1,2-Trichloroethane	ND	0.035	0.012		ND	0.19	0.066	0.698	3/13/24	3:55	TPH
Trichloroethylene	0.078	0.035	0.027		0.42	0.19	0.14	0.698	3/13/24	3:55	TPH
Vinyl Chloride	ND	0.035	0.018		ND	0.089	0.045	0.698	3/13/24	3:55	TPH
m&p-Xylene	0.48	0.070	0.024		2.1	0.30	0.11	0.698	3/13/24	3:55	TPH
o-Xylene	0.21	0.035	0.013		0.89	0.15	0.055	0.698	3/13/24	3:55	TPH

Surrogates

% Recovery

% REC Limits

4-Bromofluorobenzene (1)

93.9

70-130

3/13/24 3:55

ANALYTICAL RESULTS

Project Location: 222 Main St., Great Barrington, M
 Date Received: 3/6/2024
Field Sample #: IAQ24-3
Sample ID: 24C1023-03
 Sample Matrix: Indoor air
 Sampled: 3/6/2024 14:08

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P2091
 Canister Size: 6 liter
 Flow Controller ID: 3770
 Sample Type: 8 hr

Work Order: 24C1023
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -11.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	6.6	1.4	0.71		16	3.3	1.7	0.696	3/13/24	4:29	TPH
Benzene	0.21	0.035	0.011		0.68	0.11	0.034	0.696	3/13/24	4:29	TPH
Bromodichloromethane	ND	0.035	0.014		ND	0.23	0.096	0.696	3/13/24	4:29	TPH
Bromoform	ND	0.035	0.012		ND	0.36	0.13	0.696	3/13/24	4:29	TPH
Bromomethane	ND	0.035	0.030		ND	0.14	0.11	0.696	3/13/24	4:29	TPH
2-Butanone (MEK)	ND	1.4	0.68		ND	4.1	2.0	0.696	3/13/24	4:29	TPH
Carbon Tetrachloride	0.034	0.035	0.027	J	0.21	0.22	0.17	0.696	3/13/24	4:29	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.053	0.696	3/13/24	4:29	TPH
Chloroform	0.094	0.035	0.017		0.46	0.17	0.083	0.696	3/13/24	4:29	TPH
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.696	3/13/24	4:29	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.022		ND	0.27	0.17	0.696	3/13/24	4:29	TPH
1,2-Dichlorobenzene	ND	0.035	0.012		ND	0.21	0.073	0.696	3/13/24	4:29	TPH
1,3-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.696	3/13/24	4:29	TPH
1,4-Dichlorobenzene	ND	0.035	0.017		ND	0.21	0.10	0.696	3/13/24	4:29	TPH
1,1-Dichloroethane	ND	0.035	0.017		ND	0.14	0.069	0.696	3/13/24	4:29	TPH
1,2-Dichloroethane	0.015	0.035	0.013	J	0.062	0.14	0.053	0.696	3/13/24	4:29	TPH
1,1-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.097	0.696	3/13/24	4:29	TPH
cis-1,2-Dichloroethylene	0.20	0.035	0.017		0.79	0.14	0.067	0.696	3/13/24	4:29	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.016		ND	0.14	0.065	0.696	3/13/24	4:29	TPH
1,2-Dichloropropane	ND	0.035	0.026		ND	0.16	0.12	0.696	3/13/24	4:29	TPH
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.080	0.696	3/13/24	4:29	TPH
trans-1,3-Dichloropropene	ND	0.035	0.034		ND	0.16	0.15	0.696	3/13/24	4:29	TPH
1,4-Dioxane	ND	0.35	0.17		ND	1.3	0.62	0.696	3/13/24	4:29	TPH
Ethylbenzene	0.15	0.035	0.012		0.66	0.15	0.051	0.696	3/13/24	4:29	TPH
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.696	3/13/24	4:29	TPH
Methyl tert-Butyl Ether (MTBE)	0.021	0.035	0.017	J	0.075	0.13	0.062	0.696	3/13/24	4:29	TPH
Methylene Chloride	0.16	0.35	0.094	J	0.56	1.2	0.32	0.696	3/13/24	4:29	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.076	0.696	3/13/24	4:29	TPH
Naphthalene	0.99	0.035	0.028		5.2	0.18	0.15	0.696	3/13/24	4:29	TPH
Styrene	0.11	0.035	0.027		0.48	0.15	0.11	0.696	3/13/24	4:29	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0086		ND	0.24	0.059	0.696	3/13/24	4:29	TPH
Tetrachloroethylene	1.7	0.035	0.030		12	0.24	0.20	0.696	3/13/24	4:29	TPH
Toluene	2.0	0.035	0.017		7.4	0.13	0.066	0.696	3/13/24	4:29	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.019		ND	0.26	0.14	0.696	3/13/24	4:29	TPH
1,1,1-Trichloroethane	0.025	0.035	0.011	J	0.14	0.19	0.059	0.696	3/13/24	4:29	TPH
1,1,2-Trichloroethane	ND	0.035	0.012		ND	0.19	0.066	0.696	3/13/24	4:29	TPH
Trichloroethylene	0.16	0.035	0.027		0.88	0.19	0.14	0.696	3/13/24	4:29	TPH
Vinyl Chloride	ND	0.035	0.018		ND	0.089	0.045	0.696	3/13/24	4:29	TPH
m&p-Xylene	0.43	0.070	0.024		1.9	0.30	0.11	0.696	3/13/24	4:29	TPH
o-Xylene	0.18	0.035	0.013		0.77	0.15	0.055	0.696	3/13/24	4:29	TPH

Surrogates

% Recovery

% REC Limits

4-Bromofluorobenzene (1)

91.5

70-130

3/13/24 4:29

ANALYTICAL RESULTS

Project Location: 222 Main St., Great Barrington, M
Date Received: 3/6/2024
Field Sample #: IAQ24-4
Sample ID: 24C1023-04
Sample Matrix: Indoor air
Sampled: 3/6/2024 14:10

Sample Description/Location:
Sub Description/Location:
Canister ID: P2317
Canister Size: 6 liter
Flow Controller ID: 3596
Sample Type: 8 hr

Work Order: 24C1023
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -9.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	7.3	1.4	0.71		17	3.3	1.7	0.698	3/13/24	5:03	TPH
Benzene	0.23	0.035	0.011		0.74	0.11	0.034	0.698	3/13/24	5:03	TPH
Bromodichloromethane	ND	0.035	0.014		ND	0.23	0.096	0.698	3/13/24	5:03	TPH
Bromoform	ND	0.035	0.012		ND	0.36	0.13	0.698	3/13/24	5:03	TPH
Bromomethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/13/24	5:03	TPH
2-Butanone (MEK)	ND	1.4	0.68		ND	4.1	2.0	0.698	3/13/24	5:03	TPH
Carbon Tetrachloride	ND	0.035	0.027		ND	0.22	0.17	0.698	3/13/24	5:03	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.053	0.698	3/13/24	5:03	TPH
Chloroform	0.15	0.035	0.017		0.73	0.17	0.083	0.698	3/13/24	5:03	TPH
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/13/24	5:03	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.022		ND	0.27	0.17	0.698	3/13/24	5:03	TPH
1,2-Dichlorobenzene	ND	0.035	0.012		ND	0.21	0.073	0.698	3/13/24	5:03	TPH
1,3-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	3/13/24	5:03	TPH
1,4-Dichlorobenzene	ND	0.035	0.017		ND	0.21	0.10	0.698	3/13/24	5:03	TPH
1,1-Dichloroethane	ND	0.035	0.017		ND	0.14	0.069	0.698	3/13/24	5:03	TPH
1,2-Dichloroethane	0.017	0.035	0.013	J	0.068	0.14	0.053	0.698	3/13/24	5:03	TPH
1,1-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.097	0.698	3/13/24	5:03	TPH
cis-1,2-Dichloroethylene	0.084	0.035	0.017		0.33	0.14	0.067	0.698	3/13/24	5:03	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.016		ND	0.14	0.065	0.698	3/13/24	5:03	TPH
1,2-Dichloropropane	ND	0.035	0.026		ND	0.16	0.12	0.698	3/13/24	5:03	TPH
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.080	0.698	3/13/24	5:03	TPH
trans-1,3-Dichloropropene	ND	0.035	0.034		ND	0.16	0.15	0.698	3/13/24	5:03	TPH
1,4-Dioxane	ND	0.35	0.17		ND	1.3	0.62	0.698	3/13/24	5:03	TPH
Ethylbenzene	0.15	0.035	0.012		0.64	0.15	0.052	0.698	3/13/24	5:03	TPH
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.698	3/13/24	5:03	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.017		ND	0.13	0.062	0.698	3/13/24	5:03	TPH
Methylene Chloride	0.18	0.35	0.094	J	0.63	1.2	0.33	0.698	3/13/24	5:03	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.076	0.698	3/13/24	5:03	TPH
Naphthalene	0.53	0.035	0.028		2.8	0.18	0.15	0.698	3/13/24	5:03	TPH
Styrene	0.16	0.035	0.027		0.67	0.15	0.12	0.698	3/13/24	5:03	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0086		ND	0.24	0.059	0.698	3/13/24	5:03	TPH
Tetrachloroethylene	0.67	0.035	0.030		4.5	0.24	0.20	0.698	3/13/24	5:03	TPH
Toluene	2.2	0.035	0.017		8.4	0.13	0.066	0.698	3/13/24	5:03	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.019		ND	0.26	0.14	0.698	3/13/24	5:03	TPH
1,1,1-Trichloroethane	0.017	0.035	0.011	J	0.091	0.19	0.059	0.698	3/13/24	5:03	TPH
1,1,2-Trichloroethane	ND	0.035	0.012		ND	0.19	0.066	0.698	3/13/24	5:03	TPH
Trichloroethylene	0.091	0.035	0.027		0.49	0.19	0.14	0.698	3/13/24	5:03	TPH
Vinyl Chloride	ND	0.035	0.018		ND	0.089	0.045	0.698	3/13/24	5:03	TPH
m&p-Xylene	0.46	0.070	0.024		2.0	0.30	0.11	0.698	3/13/24	5:03	TPH
o-Xylene	0.20	0.035	0.013		0.88	0.15	0.055	0.698	3/13/24	5:03	TPH

Surrogates

% Recovery

% REC Limits

4-Bromofluorobenzene (1)

93.4

70-130

3/13/24 5:03

ANALYTICAL RESULTS

Project Location: 222 Main St., Great Barrington, M
 Date Received: 3/6/2024
Field Sample #: IAQ24-8
Sample ID: 24C1023-05
 Sample Matrix: Indoor air
 Sampled: 3/6/2024 14:12

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P2164
 Canister Size: 6 liter
 Flow Controller ID: 3771
 Sample Type: 8 hr

Work Order: 24C1023
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -9.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	1.4	1.2	0.61		3.4	2.9	1.4	0.6	3/13/24	5:37	TPH
Benzene	0.041	0.030	0.0093		0.13	0.096	0.030	0.6	3/13/24	5:37	TPH
Bromodichloromethane	0.017	0.030	0.012	J	0.12	0.20	0.082	0.6	3/13/24	5:37	TPH
Bromoform	ND	0.030	0.011		ND	0.31	0.11	0.6	3/13/24	5:37	TPH
Bromomethane	ND	0.030	0.025		ND	0.12	0.099	0.6	3/13/24	5:37	TPH
2-Butanone (MEK)	ND	1.2	0.59		ND	3.5	1.7	0.6	3/13/24	5:37	TPH
Carbon Tetrachloride	ND	0.030	0.024		ND	0.19	0.15	0.6	3/13/24	5:37	TPH
Chlorobenzene	ND	0.030	0.0099		ND	0.14	0.046	0.6	3/13/24	5:37	TPH
Chloroform	ND	0.030	0.015		ND	0.15	0.071	0.6	3/13/24	5:37	TPH
Dibromochloromethane	ND	0.030	0.020		ND	0.26	0.17	0.6	3/13/24	5:37	TPH
1,2-Dibromoethane (EDB)	ND	0.030	0.019		ND	0.23	0.14	0.6	3/13/24	5:37	TPH
1,2-Dichlorobenzene	ND	0.030	0.010		ND	0.18	0.063	0.6	3/13/24	5:37	TPH
1,3-Dichlorobenzene	ND	0.030	0.011		ND	0.18	0.067	0.6	3/13/24	5:37	TPH
1,4-Dichlorobenzene	ND	0.030	0.015		ND	0.18	0.087	0.6	3/13/24	5:37	TPH
1,1-Dichloroethane	ND	0.030	0.015		ND	0.12	0.059	0.6	3/13/24	5:37	TPH
1,2-Dichloroethane	ND	0.030	0.011		ND	0.12	0.046	0.6	3/13/24	5:37	TPH
1,1-Dichloroethylene	ND	0.030	0.021		ND	0.12	0.084	0.6	3/13/24	5:37	TPH
cis-1,2-Dichloroethylene	1.7	0.030	0.015		6.8	0.12	0.058	0.6	3/13/24	5:37	TPH
trans-1,2-Dichloroethylene	0.025	0.030	0.014	J	0.098	0.12	0.056	0.6	3/13/24	5:37	TPH
1,2-Dichloropropane	ND	0.030	0.022		ND	0.14	0.10	0.6	3/13/24	5:37	TPH
cis-1,3-Dichloropropene	ND	0.030	0.015		ND	0.14	0.069	0.6	3/13/24	5:37	TPH
trans-1,3-Dichloropropene	ND	0.030	0.029		ND	0.14	0.13	0.6	3/13/24	5:37	TPH
1,4-Dioxane	ND	0.30	0.15		ND	1.1	0.53	0.6	3/13/24	5:37	TPH
Ethylbenzene	0.034	0.030	0.010		0.15	0.13	0.044	0.6	3/13/24	5:37	TPH
Hexachlorobutadiene	ND	0.030	0.017		ND	0.32	0.18	0.6	3/13/24	5:37	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.030	0.015		ND	0.11	0.053	0.6	3/13/24	5:37	TPH
Methylene Chloride	0.087	0.30	0.081	J	0.30	1.0	0.28	0.6	3/13/24	5:37	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.030	0.016		ND	0.12	0.065	0.6	3/13/24	5:37	TPH
Naphthalene	0.63	0.030	0.024		3.3	0.16	0.13	0.6	3/13/24	5:37	TPH
Styrene	ND	0.030	0.023		ND	0.13	0.099	0.6	3/13/24	5:37	TPH
1,1,2,2-Tetrachloroethane	ND	0.030	0.0074		ND	0.21	0.051	0.6	3/13/24	5:37	TPH
Tetrachloroethylene	13	0.030	0.026		91	0.20	0.17	0.6	3/13/24	5:37	TPH
Toluene	0.046	0.030	0.015		0.17	0.11	0.057	0.6	3/13/24	5:37	TPH
1,2,4-Trichlorobenzene	ND	0.030	0.016		ND	0.22	0.12	0.6	3/13/24	5:37	TPH
1,1,1-Trichloroethane	0.011	0.030	0.0094	J	0.059	0.16	0.051	0.6	3/13/24	5:37	TPH
1,1,2-Trichloroethane	ND	0.030	0.010		ND	0.16	0.057	0.6	3/13/24	5:37	TPH
Trichloroethylene	1.3	0.030	0.023		6.8	0.16	0.12	0.6	3/13/24	5:37	TPH
Vinyl Chloride	0.023	0.030	0.015	J	0.060	0.077	0.039	0.6	3/13/24	5:37	TPH
m&p-Xylene	0.13	0.060	0.021		0.55	0.26	0.091	0.6	3/13/24	5:37	TPH
o-Xylene	0.036	0.030	0.011		0.16	0.13	0.048	0.6	3/13/24	5:37	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.6	70-130	3/13/24 5:37

ANALYTICAL RESULTS

Project Location: 222 Main St., Great Barrington, M
Date Received: 3/6/2024
Field Sample #: IAQ24-9
Sample ID: 24C1023-06
Sample Matrix: Indoor air
Sampled: 3/6/2024 14:12

Sample Description/Location:
Sub Description/Location:
Canister ID: P2377
Canister Size: 6 liter
Flow Controller ID: 3768
Sample Type: 8 hr

Work Order: 24C1023
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -10.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	1.5	1.6	0.82	J	3.5	3.8	2.0	0.809	3/13/24	6:11	TPH
Benzene	0.025	0.040	0.013	J	0.080	0.13	0.040	0.809	3/13/24	6:11	TPH
Bromodichloromethane	ND	0.040	0.017		ND	0.27	0.11	0.809	3/13/24	6:11	TPH
Bromoform	ND	0.040	0.014		ND	0.42	0.15	0.809	3/13/24	6:11	TPH
Bromomethane	ND	0.040	0.034		ND	0.16	0.13	0.809	3/13/24	6:11	TPH
2-Butanone (MEK)	ND	1.6	0.79		ND	4.8	2.3	0.809	3/13/24	6:11	TPH
Carbon Tetrachloride	ND	0.040	0.032		ND	0.25	0.20	0.809	3/13/24	6:11	TPH
Chlorobenzene	ND	0.040	0.013		ND	0.19	0.062	0.809	3/13/24	6:11	TPH
Chloroform	ND	0.040	0.020		ND	0.20	0.096	0.809	3/13/24	6:11	TPH
Dibromochloromethane	ND	0.040	0.027		ND	0.34	0.23	0.809	3/13/24	6:11	TPH
1,2-Dibromoethane (EDB)	ND	0.040	0.025		ND	0.31	0.19	0.809	3/13/24	6:11	TPH
1,2-Dichlorobenzene	ND	0.040	0.014		ND	0.24	0.085	0.809	3/13/24	6:11	TPH
1,3-Dichlorobenzene	ND	0.040	0.015		ND	0.24	0.090	0.809	3/13/24	6:11	TPH
1,4-Dichlorobenzene	ND	0.040	0.020		ND	0.24	0.12	0.809	3/13/24	6:11	TPH
1,1-Dichloroethane	ND	0.040	0.020		ND	0.16	0.080	0.809	3/13/24	6:11	TPH
1,2-Dichloroethane	ND	0.040	0.015		ND	0.16	0.062	0.809	3/13/24	6:11	TPH
1,1-Dichloroethylene	ND	0.040	0.028		ND	0.16	0.11	0.809	3/13/24	6:11	TPH
cis-1,2-Dichloroethylene	0.40	0.040	0.020		1.6	0.16	0.078	0.809	3/13/24	6:11	TPH
trans-1,2-Dichloroethylene	ND	0.040	0.019		ND	0.16	0.076	0.809	3/13/24	6:11	TPH
1,2-Dichloropropane	ND	0.040	0.030		ND	0.19	0.14	0.809	3/13/24	6:11	TPH
cis-1,3-Dichloropropene	ND	0.040	0.020		ND	0.18	0.093	0.809	3/13/24	6:11	TPH
trans-1,3-Dichloropropene	ND	0.040	0.039		ND	0.18	0.18	0.809	3/13/24	6:11	TPH
1,4-Dioxane	ND	0.40	0.20		ND	1.5	0.72	0.809	3/13/24	6:11	TPH
Ethylbenzene	0.019	0.040	0.014	J	0.084	0.18	0.060	0.809	3/13/24	6:11	TPH
Hexachlorobutadiene	ND	0.040	0.023		ND	0.43	0.25	0.809	3/13/24	6:11	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.040	0.020		ND	0.15	0.072	0.809	3/13/24	6:11	TPH
Methylene Chloride	ND	0.40	0.11		ND	1.4	0.38	0.809	3/13/24	6:11	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.040	0.021		ND	0.17	0.088	0.809	3/13/24	6:11	TPH
Naphthalene	0.54	0.040	0.033		2.8	0.21	0.17	0.809	3/13/24	6:11	TPH
Styrene	ND	0.040	0.031		ND	0.17	0.13	0.809	3/13/24	6:11	TPH
1,1,2,2-Tetrachloroethane	ND	0.040	0.010		ND	0.28	0.069	0.809	3/13/24	6:11	TPH
Tetrachloroethylene	2.1	0.040	0.035		14	0.27	0.24	0.809	3/13/24	6:11	TPH
Toluene	0.040	0.040	0.020	J	0.15	0.15	0.076	0.809	3/13/24	6:11	TPH
1,2,4-Trichlorobenzene	ND	0.040	0.022		ND	0.30	0.16	0.809	3/13/24	6:11	TPH
1,1,1-Trichloroethane	ND	0.040	0.013		ND	0.22	0.069	0.809	3/13/24	6:11	TPH
1,1,2-Trichloroethane	ND	0.040	0.014		ND	0.22	0.077	0.809	3/13/24	6:11	TPH
Trichloroethylene	0.25	0.040	0.031		1.4	0.22	0.17	0.809	3/13/24	6:11	TPH
Vinyl Chloride	ND	0.040	0.021		ND	0.10	0.053	0.809	3/13/24	6:11	TPH
m&p-Xylene	0.061	0.081	0.028	J	0.26	0.35	0.12	0.809	3/13/24	6:11	TPH
o-Xylene	0.021	0.040	0.015	J	0.091	0.18	0.064	0.809	3/13/24	6:11	TPH

Surrogates

% Recovery

% REC Limits

4-Bromofluorobenzene (1)

92.3

70-130

3/13/24 6:11

ANALYTICAL RESULTS

Project Location: 222 Main St., Great Barrington, M
 Date Received: 3/6/2024
Field Sample #: IAQ24-10
Sample ID: 24C1023-07
 Sample Matrix: Indoor air
 Sampled: 3/6/2024 14:14

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P1258
 Canister Size: 6 liter
 Flow Controller ID: 3006
 Sample Type: 8 hr

Work Order: 24C1023
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -8.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	1.2	1.4	0.71	J	2.8	3.3	1.7	0.698	3/13/24	7:18	TPH
Benzene	0.047	0.035	0.011		0.15	0.11	0.034	0.698	3/13/24	7:18	TPH
Bromodichloromethane	ND	0.035	0.014		ND	0.23	0.096	0.698	3/13/24	7:18	TPH
Bromoform	ND	0.035	0.012		ND	0.36	0.13	0.698	3/13/24	7:18	TPH
Bromomethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/13/24	7:18	TPH
2-Butanone (MEK)	ND	1.4	0.68		ND	4.1	2.0	0.698	3/13/24	7:18	TPH
Carbon Tetrachloride	ND	0.035	0.027		ND	0.22	0.17	0.698	3/13/24	7:18	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.053	0.698	3/13/24	7:18	TPH
Chloroform	ND	0.035	0.017		ND	0.17	0.083	0.698	3/13/24	7:18	TPH
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/13/24	7:18	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.022		ND	0.27	0.17	0.698	3/13/24	7:18	TPH
1,2-Dichlorobenzene	ND	0.035	0.012		ND	0.21	0.073	0.698	3/13/24	7:18	TPH
1,3-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	3/13/24	7:18	TPH
1,4-Dichlorobenzene	ND	0.035	0.017		ND	0.21	0.10	0.698	3/13/24	7:18	TPH
1,1-Dichloroethane	ND	0.035	0.017		ND	0.14	0.069	0.698	3/13/24	7:18	TPH
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.053	0.698	3/13/24	7:18	TPH
1,1-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.097	0.698	3/13/24	7:18	TPH
cis-1,2-Dichloroethylene	0.24	0.035	0.017		0.95	0.14	0.067	0.698	3/13/24	7:18	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.016		ND	0.14	0.065	0.698	3/13/24	7:18	TPH
1,2-Dichloropropane	ND	0.035	0.026		ND	0.16	0.12	0.698	3/13/24	7:18	TPH
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.080	0.698	3/13/24	7:18	TPH
trans-1,3-Dichloropropene	ND	0.035	0.034		ND	0.16	0.15	0.698	3/13/24	7:18	TPH
1,4-Dioxane	ND	0.35	0.17		ND	1.3	0.62	0.698	3/13/24	7:18	TPH
Ethylbenzene	0.014	0.035	0.012	J	0.061	0.15	0.052	0.698	3/13/24	7:18	TPH
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.698	3/13/24	7:18	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.017		ND	0.13	0.062	0.698	3/13/24	7:18	TPH
Methylene Chloride	0.12	0.35	0.094	J	0.42	1.2	0.33	0.698	3/13/24	7:18	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.076	0.698	3/13/24	7:18	TPH
Naphthalene	0.35	0.035	0.028		1.8	0.18	0.15	0.698	3/13/24	7:18	TPH
Styrene	ND	0.035	0.027		ND	0.15	0.12	0.698	3/13/24	7:18	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0086		ND	0.24	0.059	0.698	3/13/24	7:18	TPH
Tetrachloroethylene	1.3	0.035	0.030		8.9	0.24	0.20	0.698	3/13/24	7:18	TPH
Toluene	0.10	0.035	0.017		0.38	0.13	0.066	0.698	3/13/24	7:18	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.019		ND	0.26	0.14	0.698	3/13/24	7:18	TPH
1,1,1-Trichloroethane	ND	0.035	0.011		ND	0.19	0.059	0.698	3/13/24	7:18	TPH
1,1,2-Trichloroethane	ND	0.035	0.012		ND	0.19	0.066	0.698	3/13/24	7:18	TPH
Trichloroethylene	0.15	0.035	0.027		0.79	0.19	0.14	0.698	3/13/24	7:18	TPH
Vinyl Chloride	ND	0.035	0.018		ND	0.089	0.045	0.698	3/13/24	7:18	TPH
m&p-Xylene	0.045	0.070	0.024	J	0.19	0.30	0.11	0.698	3/13/24	7:18	TPH
o-Xylene	0.020	0.035	0.013	J	0.085	0.15	0.055	0.698	3/13/24	7:18	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	90.1	70-130	3/13/24 7:18

ANALYTICAL RESULTS

Project Location: 222 Main St., Great Barrington, M
Date Received: 3/6/2024
Field Sample #: IAQ24-11
Sample ID: 24C1023-08
Sample Matrix: Indoor air
Sampled: 3/6/2024 14:15

Sample Description/Location:
Sub Description/Location:
Canister ID: P2316
Canister Size: 6 liter
Flow Controller ID: 3661
Sample Type: 8 hr

Work Order: 24C1023
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -9.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	1.2	1.4	0.71	J	2.8	3.3	1.7	0.698	3/13/24 7:51		TPH
Benzene	0.087	0.035	0.011		0.28	0.11	0.034	0.698	3/13/24 7:51		TPH
Bromodichloromethane	ND	0.035	0.014		ND	0.23	0.096	0.698	3/13/24 7:51		TPH
Bromoform	ND	0.035	0.012		ND	0.36	0.13	0.698	3/13/24 7:51		TPH
Bromomethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/13/24 7:51		TPH
2-Butanone (MEK)	ND	1.4	0.68		ND	4.1	2.0	0.698	3/13/24 7:51		TPH
Carbon Tetrachloride	ND	0.035	0.027		ND	0.22	0.17	0.698	3/13/24 7:51		TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.053	0.698	3/13/24 7:51		TPH
Chloroform	ND	0.035	0.017		ND	0.17	0.083	0.698	3/13/24 7:51		TPH
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/13/24 7:51		TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.022		ND	0.27	0.17	0.698	3/13/24 7:51		TPH
1,2-Dichlorobenzene	ND	0.035	0.012		ND	0.21	0.073	0.698	3/13/24 7:51		TPH
1,3-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	3/13/24 7:51		TPH
1,4-Dichlorobenzene	ND	0.035	0.017		ND	0.21	0.10	0.698	3/13/24 7:51		TPH
1,1-Dichloroethane	ND	0.035	0.017		ND	0.14	0.069	0.698	3/13/24 7:51		TPH
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.053	0.698	3/13/24 7:51		TPH
1,1-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.097	0.698	3/13/24 7:51		TPH
cis-1,2-Dichloroethylene	0.24	0.035	0.017		0.97	0.14	0.067	0.698	3/13/24 7:51		TPH
trans-1,2-Dichloroethylene	ND	0.035	0.016		ND	0.14	0.065	0.698	3/13/24 7:51		TPH
1,2-Dichloropropane	ND	0.035	0.026		ND	0.16	0.12	0.698	3/13/24 7:51		TPH
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.080	0.698	3/13/24 7:51		TPH
trans-1,3-Dichloropropene	ND	0.035	0.034		ND	0.16	0.15	0.698	3/13/24 7:51		TPH
1,4-Dioxane	ND	0.35	0.17		ND	1.3	0.62	0.698	3/13/24 7:51		TPH
Ethylbenzene	0.025	0.035	0.012	J	0.11	0.15	0.052	0.698	3/13/24 7:51		TPH
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.698	3/13/24 7:51		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.017		ND	0.13	0.062	0.698	3/13/24 7:51		TPH
Methylene Chloride	0.13	0.35	0.094	J	0.46	1.2	0.33	0.698	3/13/24 7:51		TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.076	0.698	3/13/24 7:51		TPH
Naphthalene	0.40	0.035	0.028		2.1	0.18	0.15	0.698	3/13/24 7:51		TPH
Styrene	ND	0.035	0.027		ND	0.15	0.12	0.698	3/13/24 7:51		TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0086		ND	0.24	0.059	0.698	3/13/24 7:51		TPH
Tetrachloroethylene	1.3	0.035	0.030		9.1	0.24	0.20	0.698	3/13/24 7:51		TPH
Toluene	0.16	0.035	0.017		0.60	0.13	0.066	0.698	3/13/24 7:51		TPH
1,2,4-Trichlorobenzene	ND	0.035	0.019		ND	0.26	0.14	0.698	3/13/24 7:51		TPH
1,1,1-Trichloroethane	ND	0.035	0.011		ND	0.19	0.059	0.698	3/13/24 7:51		TPH
1,1,2-Trichloroethane	ND	0.035	0.012		ND	0.19	0.066	0.698	3/13/24 7:51		TPH
Trichloroethylene	0.15	0.035	0.027		0.79	0.19	0.14	0.698	3/13/24 7:51		TPH
Vinyl Chloride	ND	0.035	0.018		ND	0.089	0.045	0.698	3/13/24 7:51		TPH
m&p-Xylene	0.073	0.070	0.024		0.32	0.30	0.11	0.698	3/13/24 7:51		TPH
o-Xylene	0.022	0.035	0.013	J	0.097	0.15	0.055	0.698	3/13/24 7:51		TPH

Surrogates

% Recovery

% REC Limits

4-Bromofluorobenzene (1)

90.3

70-130

3/13/24 7:51

ANALYTICAL RESULTS

Project Location: 222 Main St., Great Barrington, M
Date Received: 3/6/2024
Field Sample #: IAQ24-OUTDOOR
Sample ID: 24C1023-09
Sample Matrix: Ambient Air
Sampled: 3/6/2024 14:16

Sample Description/Location:
Sub Description/Location:
Canister ID: P0309
Canister Size: 6 liter
Flow Controller ID: 3018
Sample Type: 8 hr

Work Order: 24C1023
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -8.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	1.2	1.4	0.71	J	2.9	3.3	1.7	0.698	3/13/24	8:24	TPH
Benzene	0.21	0.035	0.011		0.68	0.11	0.034	0.698	3/13/24	8:24	TPH
Bromodichloromethane	ND	0.035	0.014		ND	0.23	0.096	0.698	3/13/24	8:24	TPH
Bromoform	ND	0.035	0.012		ND	0.36	0.13	0.698	3/13/24	8:24	TPH
Bromomethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/13/24	8:24	TPH
2-Butanone (MEK)	ND	1.4	0.68		ND	4.1	2.0	0.698	3/13/24	8:24	TPH
Carbon Tetrachloride	0.061	0.035	0.027		0.39	0.22	0.17	0.698	3/13/24	8:24	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.053	0.698	3/13/24	8:24	TPH
Chloroform	ND	0.035	0.017		ND	0.17	0.083	0.698	3/13/24	8:24	TPH
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/13/24	8:24	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.022		ND	0.27	0.17	0.698	3/13/24	8:24	TPH
1,2-Dichlorobenzene	ND	0.035	0.012		ND	0.21	0.073	0.698	3/13/24	8:24	TPH
1,3-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	3/13/24	8:24	TPH
1,4-Dichlorobenzene	ND	0.035	0.017		ND	0.21	0.10	0.698	3/13/24	8:24	TPH
1,1-Dichloroethane	ND	0.035	0.017		ND	0.14	0.069	0.698	3/13/24	8:24	TPH
1,2-Dichloroethane	0.015	0.035	0.013	J	0.062	0.14	0.053	0.698	3/13/24	8:24	TPH
1,1-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.097	0.698	3/13/24	8:24	TPH
cis-1,2-Dichloroethylene	ND	0.035	0.017		ND	0.14	0.067	0.698	3/13/24	8:24	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.016		ND	0.14	0.065	0.698	3/13/24	8:24	TPH
1,2-Dichloropropane	ND	0.035	0.026		ND	0.16	0.12	0.698	3/13/24	8:24	TPH
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.080	0.698	3/13/24	8:24	TPH
trans-1,3-Dichloropropene	ND	0.035	0.034		ND	0.16	0.15	0.698	3/13/24	8:24	TPH
1,4-Dioxane	ND	0.35	0.17		ND	1.3	0.62	0.698	3/13/24	8:24	TPH
Ethylbenzene	0.040	0.035	0.012		0.18	0.15	0.052	0.698	3/13/24	8:24	TPH
Hexachlorobutadiene	0.027	0.035	0.020	J	0.28	0.37	0.21	0.698	3/13/24	8:24	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.017		ND	0.13	0.062	0.698	3/13/24	8:24	TPH
Methylene Chloride	0.16	0.35	0.094	J	0.54	1.2	0.33	0.698	3/13/24	8:24	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.076	0.698	3/13/24	8:24	TPH
Naphthalene	0.033	0.035	0.028	J	0.18	0.18	0.15	0.698	3/13/24	8:24	TPH
Styrene	ND	0.035	0.027		ND	0.15	0.12	0.698	3/13/24	8:24	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0086		ND	0.24	0.059	0.698	3/13/24	8:24	TPH
Tetrachloroethylene	ND	0.035	0.030		ND	0.24	0.20	0.698	3/13/24	8:24	TPH
Toluene	0.28	0.035	0.017		1.0	0.13	0.066	0.698	3/13/24	8:24	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.019		ND	0.26	0.14	0.698	3/13/24	8:24	TPH
1,1,1-Trichloroethane	0.038	0.035	0.011		0.21	0.19	0.059	0.698	3/13/24	8:24	TPH
1,1,2-Trichloroethane	ND	0.035	0.012		ND	0.19	0.066	0.698	3/13/24	8:24	TPH
Trichloroethylene	ND	0.035	0.027		ND	0.19	0.14	0.698	3/13/24	8:24	TPH
Vinyl Chloride	ND	0.035	0.018		ND	0.089	0.045	0.698	3/13/24	8:24	TPH
m&p-Xylene	0.11	0.070	0.024		0.46	0.30	0.11	0.698	3/13/24	8:24	TPH
o-Xylene	0.040	0.035	0.013		0.18	0.15	0.055	0.698	3/13/24	8:24	TPH

Surrogates

% Recovery

% REC Limits

4-Bromofluorobenzene (1)

92.0

70-130

3/13/24 8:24

Sample Extraction Data**Prep Method: TO-15 Prep-EPA TO-15**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
24C1023-01 [IAQ24-1]	B368577	1.5	1	N/A	1000	200	430	03/12/24
24C1023-02 [IAQ24-2]	B368577	1.5	1	N/A	1000	200	430	03/12/24
24C1023-03 [IAQ24-3]	B368577	1.74	1	N/A	1000	200	500	03/12/24
24C1023-04 [IAQ24-4]	B368577	1.5	1	N/A	1000	200	430	03/12/24
24C1023-05 [IAQ24-8]	B368577	1.5	1	N/A	1000	200	500	03/12/24
24C1023-06 [IAQ24-9]	B368577	1.74	1	N/A	1000	200	430	03/12/24
24C1023-07 [IAQ24-10]	B368577	1.5	1	N/A	1000	200	430	03/12/24
24C1023-08 [IAQ24-11]	B368577	1.5	1	N/A	1000	200	430	03/12/24
24C1023-09 [IAQ24-OUTDOOR]	B368577	1.5	1	N/A	1000	200	430	03/12/24

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 B368577 - TO-15 Prep
Blank (B368577-BLK1)

Prepared: 03/12/24 Analyzed: 03/13/24

Acetone	ND	0.80
Benzene	ND	0.020
Bromodichloromethane	ND	0.020
Bromoform	ND	0.020
Bromomethane	ND	0.020
2-Butanone (MEK)	ND	0.80
Carbon Tetrachloride	ND	0.020
Chlorobenzene	ND	0.020
Chloroform	ND	0.020
Dibromochloromethane	ND	0.020
1,2-Dibromoethane (EDB)	ND	0.020
1,2-Dichlorobenzene	ND	0.020
1,3-Dichlorobenzene	ND	0.020
1,4-Dichlorobenzene	ND	0.020
1,1-Dichloroethane	ND	0.020
1,2-Dichloroethane	ND	0.020
1,1-Dichloroethylene	ND	0.020
cis-1,2-Dichloroethylene	ND	0.020
trans-1,2-Dichloroethylene	ND	0.020
1,2-Dichloropropane	ND	0.020
cis-1,3-Dichloropropene	ND	0.020
trans-1,3-Dichloropropene	ND	0.020
1,4-Dioxane	ND	0.20
Ethylbenzene	ND	0.020
Hexachlorobutadiene	ND	0.020
Methyl tert-Butyl Ether (MTBE)	ND	0.020
Methylene Chloride	ND	0.20
4-Methyl-2-pentanone (MIBK)	ND	0.020
Naphthalene	ND	0.020
Styrene	ND	0.020
1,1,2,2-Tetrachloroethane	ND	0.020
Tetrachloroethylene	ND	0.020
Toluene	ND	0.020
1,2,4-Trichlorobenzene	ND	0.020
1,1,1-Trichloroethane	ND	0.020
1,1,2-Trichloroethane	ND	0.020
Trichloroethylene	ND	0.020
Vinyl Chloride	ND	0.020
m&p-Xylene	ND	0.040
o-Xylene	ND	0.020

Surrogate: 4-Bromofluorobenzene (1)

7.09

8.00

88.7

70-130

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 B368577 - TO-15 Prep											
LCS (B368577-BS1)					Prepared: 03/12/24 Analyzed: 03/13/24						
Acetone	3.91				5.00		78.3	50-150			
Benzene	5.01				5.00		100	70-130			
Bromodichloromethane	4.59				5.00		91.8	70-130			
Bromoform	4.63				5.00		92.7	70-130			
Bromomethane	5.58				5.00		112	70-130			
2-Butanone (MEK)	4.31				5.00		86.2	70-130			
Carbon Tetrachloride	4.55				5.00		91.0	70-130			
Chlorobenzene	5.16				5.00		103	70-130			
Chloroform	5.46				5.00		109	70-130			
Dibromochloromethane	4.89				5.00		97.9	70-130			
1,2-Dibromoethane (EDB)	5.14				5.00		103	70-130			
1,2-Dichlorobenzene	4.98				5.00		99.6	70-130			
1,3-Dichlorobenzene	5.37				5.00		107	70-130			
1,4-Dichlorobenzene	5.49				5.00		110	70-130			
1,1-Dichloroethane	4.90				5.00		98.1	70-130			
1,2-Dichloroethane	4.57				5.00		91.3	70-130			
1,1-Dichloroethylene	5.03				5.00		101	70-130			
cis-1,2-Dichloroethylene	5.21				5.00		104	70-130			
trans-1,2-Dichloroethylene	4.54				5.00		90.7	70-130			
1,2-Dichloropropane	5.39				5.00		108	70-130			
cis-1,3-Dichloropropene	5.13				5.00		103	70-130			
trans-1,3-Dichloropropene	4.82				5.00		96.5	70-130			
1,4-Dioxane	5.19				5.00		104	50-150			
Ethylbenzene	5.11				5.00		102	70-130			
Hexachlorobutadiene	4.28				5.00		85.5	50-150			
Methyl tert-Butyl Ether (MTBE)	4.60				5.00		92.0	70-130			
Methylene Chloride	4.55				5.00		91.0	70-130			
4-Methyl-2-pentanone (MIBK)	5.07				5.00		101	70-130			
Naphthalene	4.80				5.00		95.9	50-150			
Styrene	5.30				5.00		106	70-130			
1,1,2,2-Tetrachloroethane	5.66				5.00		113	70-130			
Tetrachloroethylene	4.84				5.00		96.8	70-130			
Toluene	5.18				5.00		104	70-130			
1,2,4-Trichlorobenzene	4.36				5.00		87.1	50-150			
1,1,1-Trichloroethane	4.36				5.00		87.1	70-130			
1,1,2-Trichloroethane	5.51				5.00		110	70-130			
Trichloroethylene	4.76				5.00		95.1	70-130			
Vinyl Chloride	5.36				5.00		107	70-130			
m&p-Xylene	10.4				10.0		104	70-130			
o-Xylene	5.22				5.00		104	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.52				8.00		94.0	70-130			

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 B368577 - TO-15 Prep											
Duplicate (B368577-DUP1)	Source: 24C1023-06				Prepared: 03/12/24 Analyzed: 03/13/24						
Acetone	1.4	1.6	3.4	3.8		1.5			5.19	25	J
Benzene	0.022	0.040	0.070	0.13		0.025			13.8	25	J
Bromodichloromethane	ND	0.040	ND	0.27		ND				25	
Bromoform	ND	0.040	ND	0.42		ND				25	
Bromomethane	ND	0.040	ND	0.16		ND				25	
2-Butanone (MEK)	ND	1.6	ND	4.8		ND				25	
Carbon Tetrachloride	ND	0.040	ND	0.25		ND				25	
Chlorobenzene	ND	0.040	ND	0.19		ND				25	
Chloroform	ND	0.040	ND	0.20		ND				25	
Dibromochloromethane	ND	0.040	ND	0.34		ND				25	
1,2-Dibromoethane (EDB)	ND	0.040	ND	0.31		ND				25	
1,2-Dichlorobenzene	ND	0.040	ND	0.24		ND				25	
1,3-Dichlorobenzene	ND	0.040	ND	0.24		ND				25	
1,4-Dichlorobenzene	ND	0.040	ND	0.24		ND				25	
1,1-Dichloroethane	ND	0.040	ND	0.16		ND				25	
1,2-Dichloroethane	ND	0.040	ND	0.16		ND				25	
1,1-Dichloroethylene	ND	0.040	ND	0.16		ND				25	
cis-1,2-Dichloroethylene	0.39	0.040	1.5	0.16		0.40			2.05	25	
trans-1,2-Dichloroethylene	ND	0.040	ND	0.16		ND				25	
1,2-Dichloropropane	ND	0.040	ND	0.19		ND				25	
cis-1,3-Dichloropropene	ND	0.040	ND	0.18		ND				25	
trans-1,3-Dichloropropene	ND	0.040	ND	0.18		ND				25	
1,4-Dioxane	ND	0.40	ND	1.5		ND				25	
Ethylbenzene	0.018	0.040	0.077	0.18		0.019			8.70	25	J
Hexachlorobutadiene	ND	0.040	ND	0.43		ND				25	
Methyl tert-Butyl Ether (MTBE)	ND	0.040	ND	0.15		ND				25	
Methylene Chloride	ND	0.40	ND	1.4		ND				25	
4-Methyl-2-pentanone (MIBK)	ND	0.040	ND	0.17		ND				25	
Naphthalene	0.54	0.040	2.8	0.21		0.54			0.449	25	
Styrene	ND	0.040	ND	0.17		ND				25	
1,1,2,2-Tetrachloroethane	ND	0.040	ND	0.28		ND				25	
Tetrachloroethylene	2.1	0.040	14	0.27		2.1			2.85	25	
Toluene	0.026	0.040	0.098	0.15		0.040			42.0	25	R-04, J
1,2,4-Trichlorobenzene	ND	0.040	ND	0.30		ND				25	
1,1,1-Trichloroethane	ND	0.040	ND	0.22		ND				25	
1,1,2-Trichloroethane	ND	0.040	ND	0.22		ND				25	
Trichloroethylene	0.23	0.040	1.2	0.22		0.25			9.68	25	
Vinyl Chloride	ND	0.040	ND	0.10		ND				25	
m&p-Xylene	0.060	0.081	0.26	0.35		0.061			1.34	25	J
o-Xylene	0.021	0.040	0.091	0.18		0.021			0.00	25	J
Surrogate: 4-Bromofluorobenzene (1)	7.40				8.00		92.5	70-130			

Note: Blank Subtraction is not performed unless otherwise noted

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
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
R-04	Duplicate relative percent difference (RPD) is outside of control limits. RPD is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

ANALYST

TPH	Thomas P. Hnitecki
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MEM	Marc E. Mahoney
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KKS	Kyle K. Stuckey
KAM	Kyle A. Murray
CMR	Catherine M. Rouleau

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 (S091464-ICV1)			Lab File ID: L23A214020.D			Analyzed: 08/02/23 23:42			
Bromochloromethane (1)	300782	2.867	314027	2.871	96	60 - 140	-0.0040	+/-0.50	
1,4-Difluorobenzene (1)	878479	3.54	895773	3.54	98	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	823159	5.202	837397	5.202	98	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 (S101709-CCV1)			Lab File ID: L24A072003.D			Analyzed: 03/12/24 09:48			
Bromochloromethane (1)	217534	2.864	314027	2.871	69	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (1)	673809	3.538	895773	3.54	75	60 - 140	-0.0020	+/-0.50	
Chlorobenzene-d5 (1)	598942	5.195	837397	5.202	72	60 - 140	-0.0070	+/-0.50	
LCS (B368577-BS1)			Lab File ID: L24A072029.D			Analyzed: 03/13/24 01:15			
Bromochloromethane (1)	210083	2.864	217534	2.864	97	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	663833	3.538	673809	3.538	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	590575	5.195	598942	5.195	99	60 - 140	0.0000	+/-0.50	
Blank (B368577-BLK1)			Lab File ID: L24A072032.D			Analyzed: 03/13/24 02:48			
Bromochloromethane (1)	218528	2.863	217534	2.864	100	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	626985	3.536	673809	3.538	93	60 - 140	-0.0020	+/-0.50	
Chlorobenzene-d5 (1)	565570	5.193	598942	5.195	94	60 - 140	-0.0020	+/-0.50	
IAQ24-1 (24C1023-01)			Lab File ID: L24A072033.D			Analyzed: 03/13/24 03:22			
Bromochloromethane (1)	215925	2.869	217534	2.864	99	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	655561	3.538	673809	3.538	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	574524	5.195	598942	5.195	96	60 - 140	0.0000	+/-0.50	
IAQ24-2 (24C1023-02)			Lab File ID: L24A072034.D			Analyzed: 03/13/24 03:55			
Bromochloromethane (1)	216319	2.869	217534	2.864	99	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	651587	3.538	673809	3.538	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	584599	5.195	598942	5.195	98	60 - 140	0.0000	+/-0.50	
IAQ24-3 (24C1023-03)			Lab File ID: L24A072035.D			Analyzed: 03/13/24 04:29			
Bromochloromethane (1)	208748	2.864	217534	2.864	96	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	631170	3.537	673809	3.538	94	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	565156	5.195	598942	5.195	94	60 - 140	0.0000	+/-0.50	
IAQ24-4 (24C1023-04)			Lab File ID: L24A072036.D			Analyzed: 03/13/24 05:03			
Bromochloromethane (1)	213717	2.864	217534	2.864	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	645023	3.537	673809	3.538	96	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	574138	5.195	598942	5.195	96	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
IAQ24-8 (24C1023-05) Lab File ID: L24A072037.D Analyzed: 03/13/24 05:37									
Bromochloromethane (1)	213301	2.869	217534	2.864	98	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	639367	3.537	673809	3.538	95	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	575685	5.194	598942	5.195	96	60 - 140	-0.0010	+/-0.50	
IAQ24-9 (24C1023-06) Lab File ID: L24A072038.D Analyzed: 03/13/24 06:11									
Bromochloromethane (1)	209707	2.864	217534	2.864	96	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	625043	3.537	673809	3.538	93	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	564954	5.194	598942	5.195	94	60 - 140	-0.0010	+/-0.50	
Duplicate (B368577-DUP1) Lab File ID: L24A072039.D Analyzed: 03/13/24 06:44									
Bromochloromethane (1)	210144	2.869	217534	2.864	97	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	624229	3.537	673809	3.538	93	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	559430	5.194	598942	5.195	93	60 - 140	-0.0010	+/-0.50	
IAQ24-10 (24C1023-07) Lab File ID: L24A072040.D Analyzed: 03/13/24 07:18									
Bromochloromethane (1)	215032	2.869	217534	2.864	99	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	629311	3.537	673809	3.538	93	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	570928	5.194	598942	5.195	95	60 - 140	-0.0010	+/-0.50	
IAQ24-11 (24C1023-08) Lab File ID: L24A072041.D Analyzed: 03/13/24 07:51									
Bromochloromethane (1)	213497	2.864	217534	2.864	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	624054	3.537	673809	3.538	93	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	555169	5.194	598942	5.195	93	60 - 140	-0.0010	+/-0.50	
IAQ24-OUTDOOR (24C1023-09) Lab File ID: L24A072042.D Analyzed: 03/13/24 08:24									
Bromochloromethane (1)	212181	2.864	217534	2.864	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	619175	3.537	673809	3.538	92	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	549957	5.194	598942	5.195	92	60 - 140	-0.0010	+/-0.50	

CONTINUING CALIBRATION CHECK

EPA TO-15

S101709-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	3.78	1.122255	0.8482867		-24.4	30
Benzene	A	5.00	5.23	0.7254293	0.7593796		4.7	30
Bromodichloromethane	A	5.00	4.85	0.5567047	0.5398824		-3.0	30
Bromoform	A	5.00	5.19	0.4926101	0.51151		3.8	30
Bromomethane	A	5.00	5.52	0.6308676	0.6962259		10.4	30
2-Butanone (MEK)	A	5.00	4.34	1.381604	1.200298		-13.1	30
Carbon Tetrachloride	A	5.00	4.50	0.5110368	0.4597742		-10.0	30
Chlorobenzene	A	5.00	5.25	0.7219812	0.7581555		5.0	30
Chloroform	A	5.00	5.38	1.439332	1.547992		7.5	30
Dibromochloromethane	A	5.00	5.18	0.5644122	0.584679		3.6	30
1,2-Dibromoethane (EDB)	A	5.00	5.33	0.5076449	0.5407081		6.5	30
1,2-Dichlorobenzene	A	5.00	5.25	0.6234765	0.6544901		5.0	30
1,3-Dichlorobenzene	A	5.00	5.61	0.6267236	0.7028714		12.2	30
1,4-Dichlorobenzene	A	5.00	5.75	0.5801365	0.6674676		15.1	30
1,1-Dichloroethane	A	5.00	4.74	1.392824	1.321335		-5.1	30
1,2-Dichloroethane	A	5.00	4.58	0.9772927	0.8957938		-8.3	30
1,1-Dichloroethylene	A	5.00	4.99	1.127187	1.124275		-0.3	30
cis-1,2-Dichloroethylene	A	5.00	5.19	0.908952	0.9434332		3.8	30
trans-1,2-Dichloroethylene	A	5.00	4.72	1.128232	1.06472		-5.6	30
1,2-Dichloropropane	A	5.00	5.29	0.2601948	0.2752495		5.8	30
cis-1,3-Dichloropropene	A	5.00	5.53	0.3962271	0.4384863		10.7	30
trans-1,3-Dichloropropene	A	5.00	4.77	0.3522842	0.3358768		-4.7	30
1,4-Dioxane	A	5.00	4.85	0.1742852	0.1690117		-3.0	30
Ethylbenzene	A	5.00	5.42	1.176902	1.274971		8.3	30
Hexachlorobutadiene	A	5.00	4.38	0.4755616	0.4166066		-12.4	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.52	2.130891	1.925768		-9.6	30
Methylene Chloride	A	5.00	4.45	0.8716214	0.7759118		-11.0	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.07	0.2414371	0.244753		1.4	30
Naphthalene	A	5.00	5.12	0.954618	0.9778924		2.4	30
Styrene	A	5.00	5.54	0.6680173	0.7406473		10.9	30
1,1,2,2-Tetrachloroethane	A	5.00	6.04	0.6838293	0.8264653		20.9	30
Tetrachloroethylene	A	5.00	5.11	0.4174566	0.4264667		2.2	30
Toluene	A	5.00	5.27	0.9385805	0.9898013		5.5	30
1,2,4-Trichlorobenzene	A	5.00	4.51	0.3693275	0.333257		-9.8	30
1,1,1-Trichloroethane	A	5.00	4.61	0.5075792	0.4684152		-7.7	30
1,1,2-Trichloroethane	A	5.00	5.93	0.309655	0.3671915		18.6	30
Trichloroethylene	A	5.00	4.84	0.3356598	0.324638		-3.3	30
Vinyl Chloride	A	5.00	5.33	0.7105757	0.7578475		6.7	30

CONTINUING CALIBRATION CHECK

EPA TO-15

S101709-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
m&p-Xylene	A	10.0	10.8	0.9711506	1.045045		7.6	30
o-Xylene	A	5.00	5.34	0.9550518	1.020813		6.9	30

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

* Values outside of QC limits

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	NY,ME,NH
Benzene	FL,NJ,NY,ME,NH,VA
Bromodichloromethane	NJ,NY,ME,NH,VA
Bromoform	NJ,NY,ME,NH,VA
Bromomethane	FL,NJ,NY,ME,NH
2-Butanone (MEK)	FL,NJ,NY,ME,NH,VA
Carbon Tetrachloride	FL,NJ,NY,ME,NH,VA
Chlorobenzene	FL,NJ,NY,ME,NH,VA
Chloroform	FL,NJ,NY,ME,NH,VA
Dibromochloromethane	NY,ME,NH
1,2-Dibromoethane (EDB)	NJ,NY,ME,NH
1,2-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	NJ,NY,ME,NH
1,4-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
1,1-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	NJ,NY,ME,NH,VA
1,2-Dichloropropane	FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	NY,ME,NH
1,4-Dioxane	NJ,NY,ME,NH,VA
Ethylbenzene	FL,NJ,NY,ME,NH,VA
Hexachlorobutadiene	NJ,NY,ME,NH,VA
Methyl tert-Butyl Ether (MTBE)	FL,NJ,NY,ME,NH,VA
Methylene Chloride	FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Styrene	FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	FL,NJ,NY,ME,NH,VA
Tetrachloroethylene	FL,NJ,NY,ME,NH,VA
Toluene	FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	FL,NJ,NY,ME,NH,VA
Trichloroethylene	FL,NJ,NY,ME,NH,VA
Vinyl Chloride	FL,NJ,NY,ME,NH,VA
m&p-Xylene	FL,NJ,NY,ME,NH,VA
o-Xylene	FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
FL	Florida Department of Health	E871027 NELAP	06/30/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024

ANALYSIS REQUESTED

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:	
TAQ Round 24 (March 2024)				SG = SOIL GAS IA = INDOOR AIR AMB = AMBIENT SS = SUB SLAB D = DUP BL = BLANK O = Other _____	
Relinquished by: (signature) <i>[Signature]</i> Date/Time: 3/6/24 1450		Detection Limit Requirements MA <i>boulev-lap</i>		Special Requirements MA MCP Required ☒	
Relinquished by: (signature) <i>[Signature]</i> Date/Time: 3/6/24 1622				MCP Certification Form Required ☐	
Relinquished by: (signature) <i>[Signature]</i> Date/Time: 3/6/24 1800		CT		CT RCP Required ☐	
Relinquished by: (signature) <i>[Signature]</i> Date/Time: 3/6/24 1650		Other:		RCP Certification Form Required ☐	
Relinquished by: (signature) <i>[Signature]</i> Date/Time:		Project Entity ☐ Government ☒ Federal ☐ City		Other ☐ Municipality ☐ 21 J ☐ Brownfield	
Relinquished by: (signature) <i>[Signature]</i> Date/Time:		☐ MWRA ☐ School ☐ MBTA		☐ Chromatogram ☐ AIHA-LAP, LLC	
Received by: (signature) <i>[Signature]</i> Date/Time:		☐ Soxhlet ☐ Non Soxhlet		PCB ONLY	

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:	
TAQ Round 24 (March 2024)				SG = SOIL GAS IA = INDOOR AIR AMB = AMBIENT SS = SUB SLAB D = DUP BL = BLANK O = Other _____	
Relinquished by: (signature) <i>[Signature]</i> Date/Time: 3/6/24 1450		Detection Limit Requirements MA <i>boulev-lap</i>		Special Requirements MA MCP Required ☒	
Relinquished by: (signature) <i>[Signature]</i> Date/Time: 3/6/24 1622				MCP Certification Form Required ☐	
Relinquished by: (signature) <i>[Signature]</i> Date/Time: 3/6/24 1800		CT		CT RCP Required ☐	
Relinquished by: (signature) <i>[Signature]</i> Date/Time: 3/6/24 1650		Other:		RCP Certification Form Required ☐	
Relinquished by: (signature) <i>[Signature]</i> Date/Time:		Project Entity ☐ Government ☒ Federal ☐ City		Other ☐ Municipality ☐ 21 J ☐ Brownfield	
Relinquished by: (signature) <i>[Signature]</i> Date/Time:		☐ MWRA ☐ School ☐ MBTA		☐ Chromatogram ☐ AIHA-LAP, LLC	
Received by: (signature) <i>[Signature]</i> Date/Time:		☐ Soxhlet ☐ Non Soxhlet		PCB ONLY	



DC#_Title: ENV-FRM-ELON-0009 v04_Air Sample Receiving Checklist

Effective Date: 07/13/2023

Log In Back-Sheet

Client AECOMProject USPS Great BarringtonMCP/RCP Required MA MCP

Deliverable Package Requirement _____

Location 222 Main St, Great Barrington, MA

PWSID# (When Applicable) _____

Arrival Method CourierReceived By / Date / Time MEM 3/6/24 1800Back-Sheet By / Date / Time KML 3/8/24 0910

Temperature Method _____ # _____

Temp $\leq 6^{\circ}\text{C}$ ☐ Actual Temperature _____Rush Samples: Yes / ☒ No _____ Notify _____Short Hold: Yes / ☒ No _____ Notify _____

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy)

Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☐	☒
Received in Cooler	☐	☒
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Individually Certified Cans	☐	☒
Trip Blanks	☐	☒
COC Legible	☒	☐

COC Included: (Check all included)

Client	☒	Analysis	☒	Sampler Name	☒
Project	☒	IDs	☒	Collection Date/Time	☒

Container	#	Size	Regulator	Duration	Accessories		
Summa Cans	10	6L	10	8hr	Nut/Ferrule		IC Train
Tedlar Bags					Tubing		
TO-17 Tubes					T-Connector		Shipping Charges
Radiello					Syringe		
Pufs/ TO-11					Tedlar		

Can #'s	5	P2164	10		15		Regs #'s	5	3771	10		15	
1	P2831	6	P2377	11		16	1	3703	6	3768	11		16
2	P2798	7	P1258	12		17	2	3103	7	3006	12		17
3	P2091	8	P2316	13		18	3	3770	8	3661	13		18
4	P2317	9	P0309	14		19	4	3596	9	3018	14		19
Unused Media	4		9		14		Pufs/TO-17's	5		10		15	
1	P0672	5		10		15	1		6		11		16
2	3635	6		11		16	2		7		12		17
3		7		12		17	3		8		13		18
4		8		13		18	4		9		14		19

Qualtrax ID: 127034

Page 1 of 1



Air Sampling Media Certificate of Analysis

Date Analyzed: 3/1/2024 Batch #: 24CC0201

Certification Type: Batch Certified ☒ Individual Certified ☐

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs:	BCP2831		
	BCP1258		
	BCP0309		
	BCP2316		
	BCP2377		

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: CMR 3/15/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 3/1/2024 Batch #: 24CC0202

Certification Type: Batch Certified ☒ Individual Certified ☐

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs:	BCP2164		
	BCP2317		
	BCP2798		
	BCP2091		

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: CMR 3/15/24

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Pace New England	Project #: 24C1023
Project Location: 222 Main St., Great Barrington, MA	RTN:

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

24C1023-01 thru 24C1023-09

Matrices: Air

CAM Protocol (check all that below)

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

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

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

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

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

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

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

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

Signature: Lisa Worthington
 Printed Name: Lisa A. Worthington

Position: Technical Representative
 Date: 03/15/24

ATTACHMENT B

Sent via email to:

Joseph Aberdale DPW Superintendent –
Jaberdale@townofgb.org
Paula Ely, Wastewater Superintenet - pely@townofgb.org

Memorandum

To: Joseph Aberdale, Town of Great Barrington, Superintendent Department of Public Works

cc: Paula Ely, Town of Great Barrington, Wastewater Treatment Plant Superintendent
Micheal Rupeikis, USPS, Facilities

From: David Austin, LSP, AECOM
Jim Honda, PE, AECOM

Date: August 12, 2024

Subject: **Sump/Tile Drain Water Carbon Treatment System
Operation, Maintenance and Monitoring Update No. 16 – August 2024
USPS Main Post Office, 222 Main Street, Great Barrington, MA**

This memorandum (No. 16) is to inform and update the Town of Great Barrington (Town) of the ongoing operation, maintenance and monitoring (OMM) activities being conducted by AECOM Technical Services, Inc. (AECOM) for the water carbon treatment system (“the system”) which began operation on June 12, 2019 and is located in the basement of the United States Postal Service (USPS) Main Post Office Building. This memorandum is being sent in response to the Town’s request for routine transmittal of OMM information. This memorandum includes historical information since startup and reports on system OMM conducted in March, May and July 2024.

System Operation:

The system was started on June 12, 2019 and was installed to treat water from basement sumps #1 and #2 and from sump #3, the latter which collects groundwater flow from the building’s underlying tile drain system. The water flow from sumps #1 and #2 and from the tile drain system (via Sump #3) consists of groundwater impacted by chlorinated solvents released from the abutting former Ried Dry Cleaner property and is now being treated by activated carbon (two 200-lb vessels in series) prior to discharge to the town sewer. The system is equipped with a Sensaphone® Sentinel Monitoring System (with cellular connection), which allows AECOM to remotely monitor the system between in-person system inspections. The remote monitoring system provides AECOM data with information on system operation (on/off), total flow and if water is present on the floor.

The system was installed at the request of the Town Department of Public Works (DPW) and the MassDEP and in accordance with the modified Immediate Response Action (IRA) Plan prepared by AECOM and submitted to

MassDEP on May 13, 2019. The MassDEP approved the modified IRA Plan on May 14, 2019 in an email sent to AECOM and USPS, and to the Town of Great Barrington DPW. In their May 14, 2019 approval, the MassDEP stated that they “defer to the POTW regarding the treated groundwater discharge, limits and discharge sampling schedule.” The OMM Plan for the system (prepared by AECOM) was included in the May 2019 Modified IRA Plan and provides a proposed schedule for system inspections, sampling and discharge limits. The proposed discharge limits for the treated effluent are based upon the Method 1 GW-1 standards per the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000. These proposed discharge limits were reviewed and considered acceptable to MassDEP.

System OMM Summary – March, May and July 2024:

A summary of the system operation since startup (June 12, 2019) July 13, 2023 is provided in **Table 1** (Water Carbon Treatment System - VOC Analytical Results) and **Table 2** (OMM Summary Data). All system checks were conducted (connection valves, alarms, pressure gauges, etc.) on three dates noted above during this reporting period. As shown on **Table 2**, the system checks indicated the system was running and the remote monitoring system was on and operating normally. A changeout of the liquid-phase granular activated carbon for the lead vessel was performed on February 22, 2024. During this changeout, the secondary vessel was rotated to primary, with the changed out carbon vessel switched to secondary position. The discharge pump was also replaced in April 2024 due to noise likely caused by worn bearings. Hosing sections prior to, between, and after the carbon vessels were also replaced at this time due to wear.

Sampling Results – March, May and July 2024:

As part of the March, May and July 2024 OMM visits, AECOM collected water samples from the influent (prior to first carbon), midfluent (between carbons) and effluent (final treated water after second carbon) for laboratory analysis of VOCs by EPA Method 8260C. Samples were transported to and analyzed by Phoenix Environmental Laboratories, Inc., in Manchester, Connecticut. Copies of the laboratory analytical reports are attached.

The sampling results are summarized in **Table 1**. All effluent sample results were non-detect. The detected CVOCs in the influent and mid-point samples, which were at levels consistent with past sampling rounds, are related to groundwater migration from the adjacent former Ried Dry Cleaner property. Following the low level detections of tetrahydrofuran (THF) reported for the November 2023 midfluent and effluent samples, THF was again detected in the May 2024 midfluent sample only; however, the subsequent July 2024 samples did not show detections of THF. AECOM will continue to review the results of routine water sampling to determine whether there is a recurrence of THF.

An AECOM subcontractor with a Grade 2 (at a minimum) Wastewater Treatment Plant Operator certification inspected the system in April and July 2024.

Findings/Conclusion:

The system is working as intended. The midfluent and effluent samples collected in March, May and July 2024, indicate that breakthrough is not occurring and that treated water effluent to the Town's WWTP is below the required MCP Method 1 GW-1 standards (which is protective of drinking water). The CVOC impacted water from the sumps and tile drain system continues to be collected, treated and discharged to the town sewer in accordance with the proposed discharge limits per the May 2019 OMM Plan under the IRA.

Attachments:

Table 1 - Water Carbon Treatment System - VOC Analytical Results

Table 2 – OMM Summary Data

Phoenix Environmental Lab Reports (March, May and July 2024)

TABLE 1
Water Carbon Treatment System - VOC Analytical Results
Operation, Maintenance and Monitoring - June 20, 2019 through July 18, 2024
USPS Main Post Office, 222 Main Street, Great Barrington, MA

Date	Sample	Total VOC Concentration (ug/L)	Total CVOC Concentration (ug/L)	Concentration (ug/L)									
				CVOCs				Petroleum Compounds				Other VOCs	
				cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Methyl tert Butyl Ether (MTBE)	Isopropylbenzene	Methyl ethyl ketone (MEK)	Tetrahydrofuran (THF)
6/20/2019	INFLUENT	347.7	225.8	27	1.8	180	17	<0.70	1.9	<1.0	<1.0	< 5.0	120
6/20/2019	MIDFLUENT	2.6	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.70	< 1.0	<1.0	<1.0	< 5.0	2.6
6/20/2019	EFFLUENT	330	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.70	< 1.0	<1.0	<1.0	80	250
7/2/2019	INFLUENT	303.1	152.7	19	1.7	120	12	<0.70	<1.0	1.2	<1.0	9.2	140
7/2/2019	MIDFLUENT	17.8	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	5.8	12
7/2/2019	EFFLUENT	85	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	27	58
7/31/2019	INFLUENT	186.8	166.8	29	2.8	120	15	<0.70	<1.0	<1.0	<1.0	< 5.0	20
7/31/2019	MIDFLUENT	<1.0 to <5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
7/31/2019	EFFLUENT	7.9	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	7.9
9/19/2019	INFLUENT	216.5	206.4	35	3.4	150	18	1.3	<1.0	<1.0	1.7	<5.0	7.1
9/19/2019	MIDFLUENT	<0.7 to <5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
9/19/2019	EFFLUENT	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	2.9
12/11/2019	INFLUENT	969	969	87	<5.0	860 E	22	<3.5	<5.0	<5.0	<5.0	<25	<13
12/11/2019	MIDFLUENT	14	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	14
12/11/2019	EFFLUENT	<0.7 to <5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
3/11/2020	INFLUENT	579	579	63	1	490	25	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
3/11/2020	MIDFLUENT	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	3.6
3/11/2020	EFFLUENT	6.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	6.5
5/11/2020	INFLUENT	857	857	68	1	760	28	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
5/11/2020	MIDFLUENT	<1.0 to <5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
5/11/2020	EFFLUENT	15	<5.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	15
7/9/2020	INFLUENT	211.6	211.6	38	2.6	160	11	<0.70	<1.0	<1.0	<1.0	<5.0	<2.5
7/9/2020	MIDFLUENT	5.1	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	5.1
7/9/2020	EFFLUENT	7.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.70	<1.0	<1.0	<1.0	<5.0	7.0
9/18/2020	INFLUENT	217	216	38	3.1	160	15	0.81	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
9/18/2020	MIDFLUENT	< 0.70 to <5.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
9/18/2020	EFFLUENT	4.7	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	4.7
11/19/2020	INFLUENT	418	417.7	48	1.7	350	18	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
11/19/2020	MIDFLUENT	15.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.4	< 1.0	< 1.0	8.9	< 5.0	3.3
11/19/2020	EFFLUENT	5.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	5.1
1/26/2021	INFLUENT	588	588	64	< 5.0	500	24	< 3.5	< 5.0	< 5.0	< 5.0	< 25	< 13
1/26/2021	MIDFLUENT	< 0.70 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
1/26/2021	EFFLUENT	< 0.70 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
3/4/2021	INFLUENT	828	828	69	1	730	28	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
3/4/2021	MIDFLUENT	< 0.70 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
3/4/2021	EFFLUENT	< 0.70 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
5/4/2021	INFLUENT	897	897	89	<1.0	770	38	<5.0	<10	<10	<10	<5.0	<2.5
5/4/2021	MIDFLUENT	< 0.5 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.50	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5
5/4/2021	EFFLUENT	< 0.5 to <5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.50	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5

TABLE 1
Water Carbon Treatment System - VOC Analytical Results
Operation, Maintenance and Monitoring - June 20, 2019 through July 18, 2024
USPS Main Post Office, 222 Main Street, Great Barrington, MA

Date	Sample	Total VOC Concentration (ug/L)	Total CVOC Concentration (ug/L)	Concentration (ug/L)									
				CVOCs				Petroleum Compounds				Other VOCs	
				cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Methyl tert Butyl Ether (MTBE)	Isopropylbenzene	Methyl ethyl ketone (MEK)	Tetrahydrofuran (THF)
7/8/2021 7/8/2021 7/8/2021	INFLUENT MIDFLUENT EFFLUENT	936 10 < 0.7 to <5.0	936 10 <0.70 to <1.0	90 10 < 1.0	1 < 1.0 < 1.0	810 < 1.0 < 1.0	35 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 5.0 < 5.0 < 5.0	< 2.5 < 2.5 < 2.5
9/1/2021 9/1/2021 9/1/2021	INFLUENT MIDFLUENT EFFLUENT	460 35 < 0.7 to <5.0	459.6 35 <0.70 to <1.0	48 35 < 1.0	1.6 < 1.0 < 1.0	390 < 1.0 < 1.0	20 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 5.0 < 5.0 < 5.0	< 2.5 < 2.5 < 2.5
11/19/2021 11/19/2021 11/19/2021	INFLUENT MIDFLUENT EFFLUENT	336 57 < 0.7 to <5.0	336.3 57 <0.70 to <1.0	56 57 < 1.0	1.3 < 1.0 < 1.0	260 < 1.0 1.0	19 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 5.0 < 5.0 < 5.0	< 2.5 < 2.5 < 2.5
1/27/2022 1/27/2022 1/27/2022	INFLUENT MIDFLUENT EFFLUENT	95 <0.5 to <5.0 < 0.5 to <5.0	94.9 <0.70 to <1.0 <0.70 to <1.0	20 <1.0 < 1.0	<1.0 < 1.0 < 1.0	71 < 1.0 < 1.0	3.9 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 1.0 < 1.0 < 1.0	< 5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
3/8/2022 3/8/2022 3/8/2022	INFLUENT MIDFLUENT EFFLUENT	843 <0.5 to <5.0 < 0.5 to <5.0	843 <0.70 to <1.0 <0.70 to <1.0	79 <1.0 < 1.0	<5.0 < 1.0 < 1.0	730 1.4 < 1.0	34 < 1.0 < 1.0	< 3.5 < 0.70 < 0.70	< 5.0 < 1.0 < 1.0	< 5.0 < 1.0 < 1.0	< 5.0 < 1.0 < 1.0	< 25 < 5.0 < 5.0	<13 <2.5 <2.5
5/22/2022 5/22/2022 5/22/2022	INFLUENT MIDFLUENT EFFLUENT	418 4 < 0.5 to <5.0	418 3.8 <0.70 to <1.0	47 <1.0 < 1.0	<5.0 < 1.0 < 1.0	350 3.8 < 1.0	21 < 1.0 < 1.0	<0.70 < 0.70 < 0.70	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
7/11/2022 7/11/2022 7/11/2022	INFLUENT MIDFLUENT EFFLUENT	219.4 <0.70 to <5.0 <0.70 to <5.0	219.4 <0.70 to <1.0 <0.70 to <1.0	36 <1.0 < 1.0	1.4 < 1.0 < 1.0	170 < 1.0 < 1.0	12 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
9/7/2022 9/7/2022 9/7/2022	INFLUENT MIDFLUENT EFFLUENT	332.0 <0.70 to <5.0 <0.70 to <5.0	328 <0.70 to <1.0 <0.70 to <1.0	52 <1.0 < 1.0	< 1.0 < 1.0 < 1.0	260 < 1.0 < 1.0	16 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	1.1 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
11/17/2022 11/17/2022 11/17/2022	INFLUENT MIDFLUENT EFFLUENT	319 <0.70 to <5.0 <0.70 to <5.0	319 <0.70 to <1.0 <0.70 to <1.0	63 <1.0 < 1.0	< 1.0 < 1.0 < 1.0	240 < 1.0 < 1.0	16 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
1/10/2023 1/10/2023 1/10/2023	INFLUENT MIDFLUENT EFFLUENT	966 <0.70 to <5.0 <0.70 to <5.0	966 <0.70 to <1.0 <0.70 to <1.0	85 <1.0 < 1.0	< 1.0 < 1.0 < 1.0	850 < 1.0 < 1.0	31 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
3/10/2023 3/10/2023 3/10/2023	INFLUENT MIDFLUENT EFFLUENT	928 7 <0.70 to <5.0	928 7 <0.70 to <1.0	87 7.2 < 1.0	< 1.0 < 1.0 < 1.0	810 < 1.0 < 1.0	31 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5
5/17/2023 5/17/2023 5/17/2023	INFLUENT MIDFLUENT EFFLUENT	508 25 <0.70 to <5.0	508 25 <0.70 to <1.0	66 24 < 1.0	< 1.0 < 1.0 < 1.0	420 1.3 < 1.0	22 < 1.0 < 1.0	< 0.70 < 0.70 < 0.70	< 1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<1.0 < 1.0 < 1.0	<5.0 < 5.0 < 5.0	<2.5 <2.5 <2.5

TABLE 1
Water Carbon Treatment System - VOC Analytical Results
Operation, Maintenance and Monitoring - June 20, 2019 through July 18, 2024
USPS Main Post Office, 222 Main Street, Great Barrington, MA

Date	Sample	Total VOC Concentration (ug/L)	Total CVOC Concentration (ug/L)	Concentration (ug/L)									
				CVOCs				Petroleum Compounds				Other VOCs	
				cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Methyl tert Butyl Ether (MTBE)	Isopropylbenzene	Methyl ethyl ketone (MEK)	Tetrahydrofuran (THF)
7/18/2023	INFLUENT	695	695	87	< 1.0	580	28	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
7/18/2023	MIDFLUENT	80	80	79	< 1.0	1.2	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
7/18/2023	EFFLUENT	<0.70 to <5.0	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
9/6/2023	INFLUENT	186	186	36	< 1.0	140	10	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
9/6/2023	MIDFLUENT	60	60	58	< 1.0	2.1	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
9/6/2023	EFFLUENT	<0.70 to <5.0	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
11/2/2023	INFLUENT	175	175	37	< 1.0	130	8	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
11/2/2023	MIDFLUENT	92	89	89	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	3.0
11/2/2023	EFFLUENT	3	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	2.5
1/10/2024	INFLUENT	601	601	61	< 1.0	480	60	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
1/10/2024	MIDFLUENT	74	74	70	< 1.0	3.0	1.4	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
1/10/2024	EFFLUENT	<0.70 to <5.0	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
5/8/2024	INFLUENT	468	468	71	< 1.0	360	37	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
5/8/2024	MIDFLUENT	10	4.3	2.0	< 1.0	2.3	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	5.7
5/8/2024	EFFLUENT	<0.70 to <5.0	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
7/18/2024	INFLUENT	102	101.9	21	< 1.0	74	6.9	< 0.70	< 1.0	<1.0	<1.0	<5.0	<2.5
7/18/2024	MIDFLUENT	4.6	4.6	2.1	< 1.0	2.5	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5
7/18/2024	EFFLUENT	<0.70 to <5.0	<0.70 to <1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 5.0	<2.5

Note:
VOC analysis by SW Method 8260C.
COCs = Contaminants of Concern from former Ried Dry Cleaner property include chlorinated volatile organic compounds (CVOCs).
System started up June 12, 2019.
Total VOCs = CVOCs + petroleum compounds (MTBE) + other (MEK and THF related to system piping glue).MTBE is related to a release from an off-site upgradient source.
Total Chlorinated VOCs (CVOCs) are contaminants of concern related to former Ried Dry Cleaner property.
Trip Blanks analyzed were not detected for VOCs.

TABLE 2
 OMM Summary Data
 June 12, 2019 through July 18, 2024
 USPS Main Post Office, 221 Main Street, Great Barrington, MA

Date ⁽¹⁾	System On?	Licensed wastewater operator Present?	Sensaphone Autodialer ^(4,5) On?	Water On Floor?	Sumps Operational?	Total Flow (gals)	Approx. Flow Rate ⁽³⁾ (GPM)	Effluent pH	Headspace PID - TVOCs (ppm)				Ambient Air PID - TVOCs (ppm)				
									Sump 1	Sump 2	Sump 3	Tile Drain					
									Fuel Room	Storage Room	Break Room	Manhole	Fuel Room	Storage Room	Break Room	Boiler Room	Stamp Room
June 12, 2019	Yes		Yes	No	Yes	963	5	8.02	12	3.0	25	_(2)	-	-	-	-	-
July 2, 2019	Yes		Yes	No	Yes	1,832	≈5	8.05	5.5	1.4	44.2	-	0.90	0.30	0.0	-	-
July 31, 2019	Yes		No-Offline	No	Yes	3,344	4	8.22	1.9	4.4	3.0	-	1.40	0.70	0.0	-	-
September 19, 2019	Yes		Yes	Yes - rain	Yes	6,512	5	7.96	0.348	2.34	0.65	2.3	0.40	0.39	0.25	0.24	0.288
December 11, 2019	Yes		Yes	Yes - rain	Yes	43,826	≈4.4	7.83	5.4	5.4	10.0	-	1.20	0.80	0.60	0.70	0.80
March 11, 2020	Yes		Yes	No	Yes	92,664	≈5	7.40	7.6	3.88	6.33	0.0	0.575	0.22	0.08	0.051	0.14
May 11, 2020	Yes		Yes	No (damp)	Yes	128,376	≈4	7.28	10.2	2.7	12	0.0	0.71	0.21	0.125	0.04	0.114
July 9, 2020	Yes		Yes	No	Yes	136,351	≈4.5	7.84	0.82	2.8	0.18	2.7	0.86	1.02	0.07	0.11	0.42
September 18, 2020	Yes		Yes	No	Yes	142,610	4.5	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
November 19, 2020	Yes		Yes	No	Yes	154,677	4.5	7.55	0.234	0.47	0.23	0.0	0.036	0.011	0.0	0.00	0.0
January 26, 2021	Yes		Yes	No	Yes	188,341	4.5	7.40	500	490	6.16	0.1	0.615	0.10	0.17	0.05	0.115
March 4, 2021	Yes		Yes	No	Yes	194,224	4.5	8.60	5.4	4.30	5.80	0.048	0.58	0.136	0.202	0.016	NM
May 4, 2021	Yes		Yes	No	Yes	221,000	4.5	7.59	22.5	6.15	32.75	0.1	1.45	0.265	0.30	0.135	NM
July 8, 2021	Yes		Yes	Yes - rain	Yes	263,180	4.5	8.70	2.0	5.50	2.16	17.5	0.88	0.600	0.09	0.150	NM
September 1, 2021	Yes	Yes	Yes	Yes - rain	Yes	330,260	4.5	7.38	0.6	7.7	9.03	13.5	0.375	0.28	0.04	0.03	NM
November 19, 2021	Yes	No	Yes	Yes - rain	Yes	376,852	4.5	7.47	9.7	18	8.90	0.57	1.42	0.56	0.08	0.09	NM
January 27, 2022	Yes	Yes	No-Offline	No	Yes	389,586	4.5	7.3	1.0	1.4	0.20	0.01	0.11	0.20	0.012	0.078	NM
March 8, 2022	Yes	Yes	Yes	No	Yes	410,560	4.5	8.25	5.6	7.9	20.00	0.002	0.875	0.18	0.014	0	NM
May 25, 2022	Yes	Yes	Yes	Yes - rain	Yes	464,860	4.5	7.15	11.8	6.025	11.68	0.375	0.505	0.35	0.052	0.16	NM
July 11, 2022	Yes	No	Yes	Yes - rain	Yes	473,680	4.5	7.15	0.0	3.046	4.47	1.15	0	0.00	0	0	NM
September 7, 2022	Yes	No	Yes	Yes - rain	Yes	483,827	4.5	8.59	0.1	3.85	8.25	0.99	0.135	0.00	0	0	NM
November 17, 2022	Yes	No	Yes	Yes - rain	Yes	513,534	4.5	7.57	8.3	7.4	14.25	0	0.99	0.13	0.004	0.065	NM
January 10, 2023	Yes	No	Yes	No	Yes	556,063	4.5	7.22	35.0	50	33.00	0	1.2	40.00	3.38	0.22	NM
March 8, 2023	Yes	Yes	Yes	Yes - rain	Yes	601,365	4.5	7.95	11.5	7	11.00	0	0.88	11.00	0.74	0	NM
May 16, 2023	Yes	No	Yes	No	Yes	652,220	4.5	7.44	1.2	1.105	1.06	0.024	0.252	0.05	0.008	0.018	NM
July 13, 2023	Yes	No	Yes	Yes - rain	Yes	685,250	4.5	7.34	0.2	2.7	0.03	14	0.175	0.11	0.025	0.058	NM
September 6, 2023	Yes	No	Yes	No	Yes	737,020	4.5	7.45	0.5	7.1	1.50	22	0.32	1.03	0.098	0.265	NM
November 2, 2023	Yes	No	Yes	No	Yes	766,348	4.5	7.26	11.5	20.5	16.50	0	0	0	0	0	NM
January 10, 2024	Yes	Yes	Yes	No	Yes	808,440	4.5	7.98	13.0	1.4	24.00	NM	0	0	0	0	NM
March 7, 2024	Yes	No	Yes	No	Yes	847,470	4.5	8.36	0.6	4.135	44.80	0	0	0	0	0	NM
May 8, 2024	Yes	No	Yes	N	Yes	914,050	4.5	7.87	11.0	24	44.00	0.367	0	0	0	0	NM
July 18, 2024	Yes	No	Yes	No	Yes	929,320	4.5	7.51	0.0	4.2	0.00	NM	0	0	0	0	NM

Note:
 Results are in gallons (gals), gallons per minute (GPM), and parts per million (ppm).
 1. OMM checks of system conducted by AECOM on dates listed above.
 2. (-) indicates not measured.
 3. Flow Rate is estimated and measured at the totalizer with the system ON.
 4. Sensaphone® Sentinel Monitoring System went offline on Monday, July 29, 2019 at 01:34 AM. Troubleshooting unit, modem, antenna. Restarted on Monday August 6, 2019.
 5. Sensaphone® Remote Monitoring System was offline from October 9, 2019 through December 10, 2019. The broken/cut antenna wire was repaired on December 11, 2019.
 6. NM= Not Measured.



Wednesday, March 13, 2024

Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Project ID: USPS GREAT BARRINGTON
SDG ID: GCQ22928
Sample ID#s: CQ22928 - CQ22931

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

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

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

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

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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



SDG Comments

March 13, 2024

SDG I.D.: GCQ22928

8260 Analysis:

1,2-Dibromoethane doesn't meet GW-1 criteria, this compound is analyzed by GC/FID to achieve this criteria.

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

Phoenix reporting levels may exceed those referenced in the CAM protocol. Please refer to criteria sheet for comparisons to requested MCP standards.



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Sample Id Cross Reference

March 13, 2024

SDG I.D.: GCQ22928

Project ID: USPS GREAT BARRINGTON

Client Id	Lab Id	Matrix
TRIP BLANK	CQ22928	WATER
INFLUENT	CQ22929	GROUND WATER
MIDFLUENT	CQ22930	GROUND WATER
EFFLUENT	CQ22931	GROUND WATER



Environmental Laboratories, Inc.

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

Analysis Report

March 13, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21

Custody Information

Collected by: JH
Received by: LB
Analyzed by: see "By" below

Date

03/07/24
03/08/24

Time

8:20
11:15

Laboratory Data

SDG ID: GCQ22928
Phoenix ID: CQ22928

Project ID: USPS GREAT BARRINGTON
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	03/09/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2-Dibromoethane	ND	0.25	ug/L	1	03/09/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	03/09/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	03/09/24	MH	SW8260D

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	03/09/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	03/09/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	03/09/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chloroform	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	03/09/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	03/09/24	MH	SW8260D
Dibromomethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	03/09/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Tetrachloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	03/09/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	03/09/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
Trichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	03/09/24	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	03/09/24	MH	70 - 130 %
% Dibromofluoromethane	94		%	1	03/09/24	MH	70 - 130 %

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99		%	1	03/09/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	40	ug/L	1	03/09/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

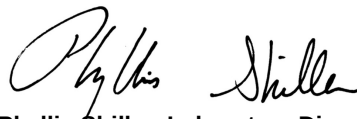
Comments:

TRIP BLANK INCLUDED.

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

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



Phyllis Shiller, Laboratory Director

March 13, 2024

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.

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

Analysis Report

March 13, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: GROUND WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21

Custody Information

Collected by: JH
Received by: LB
Analyzed by: see "By" below

Date

03/07/24
03/08/24

Time

8:20
11:15

Laboratory Data

SDG ID: GCQ22928
Phoenix ID: CQ22929

Project ID: USPS GREAT BARRINGTON
Client ID: INFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	10	03/12/24	MH	SW8260D
1,1,1-Trichloroethane	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L	10	03/12/24	MH	SW8260D
1,1,2-Trichloroethane	ND	5.0	ug/L	10	03/12/24	MH	SW8260D
1,1-Dichloroethane	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,1-Dichloroethene	ND	7.0	ug/L	10	03/12/24	MH	SW8260D
1,1-Dichloropropene	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,2,3-Trichloropropane	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,2-Dibromoethane	ND	2.5	ug/L	10	03/12/24	MH	SW8260D
1,2-Dichlorobenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,2-Dichloroethane	ND	5.0	ug/L	10	03/12/24	MH	SW8260D
1,2-Dichloropropane	ND	3.0	ug/L	10	03/12/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,3-Dichlorobenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,3-Dichloropropane	ND	10	ug/L	10	03/12/24	MH	SW8260D
1,4-Dichlorobenzene	ND	5.0	ug/L	10	03/12/24	MH	SW8260D
2,2-Dichloropropane	ND	10	ug/L	10	03/12/24	MH	SW8260D
2-Chlorotoluene	ND	10	ug/L	10	03/12/24	MH	SW8260D
2-Hexanone	ND	50	ug/L	10	03/12/24	MH	SW8260D
2-Isopropyltoluene	ND	10	ug/L	10	03/12/24	MH	SW8260D
4-Chlorotoluene	ND	10	ug/L	10	03/12/24	MH	SW8260D
4-Methyl-2-pentanone	ND	50	ug/L	10	03/12/24	MH	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	250	ug/L	10	03/12/24	MH	SW8260D
Acrylonitrile	ND	10	ug/L	10	03/12/24	MH	SW8260D
Benzene	ND	5.0	ug/L	10	03/12/24	MH	SW8260D
Bromobenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
Bromochloromethane	ND	10	ug/L	10	03/12/24	MH	SW8260D
Bromodichloromethane	ND	3.0	ug/L	10	03/12/24	MH	SW8260D
Bromoform	ND	4.0	ug/L	10	03/12/24	MH	SW8260D
Bromomethane	ND	7.0	ug/L	10	03/12/24	MH	SW8260D
Carbon Disulfide	ND	50	ug/L	10	03/12/24	MH	SW8260D
Carbon tetrachloride	ND	2.5	ug/L	10	03/12/24	MH	SW8260D
Chlorobenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
Chloroethane	ND	10	ug/L	10	03/12/24	MH	SW8260D
Chloroform	ND	10	ug/L	10	03/12/24	MH	SW8260D
Chloromethane	ND	10	ug/L	10	03/12/24	MH	SW8260D
cis-1,2-Dichloroethene	110	10	ug/L	10	03/12/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	2.5	ug/L	10	03/12/24	MH	SW8260D
Dibromochloromethane	ND	2.5	ug/L	10	03/12/24	MH	SW8260D
Dibromomethane	ND	10	ug/L	10	03/12/24	MH	SW8260D
Dichlorodifluoromethane	ND	10	ug/L	10	03/12/24	MH	SW8260D
Ethylbenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
Hexachlorobutadiene	ND	2.5	ug/L	10	03/12/24	MH	SW8260D
Isopropylbenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
m&p-Xylene	ND	10	ug/L	10	03/12/24	MH	SW8260D
Methyl ethyl ketone	ND	50	ug/L	10	03/12/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	ug/L	10	03/12/24	MH	SW8260D
Methylene chloride	ND	5.0	ug/L	10	03/12/24	MH	SW8260D
Naphthalene	ND	10	ug/L	10	03/12/24	MH	SW8260D
n-Butylbenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
n-Propylbenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
o-Xylene	ND	10	ug/L	10	03/12/24	MH	SW8260D
p-Isopropyltoluene	ND	10	ug/L	10	03/12/24	MH	SW8260D
sec-Butylbenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
Styrene	ND	10	ug/L	10	03/12/24	MH	SW8260D
tert-Butylbenzene	ND	10	ug/L	10	03/12/24	MH	SW8260D
Tetrachloroethene	860	50	ug/L	50	03/11/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	25	ug/L	10	03/12/24	MH	SW8260D
Toluene	ND	10	ug/L	10	03/12/24	MH	SW8260D
Total Xylenes	ND	10	ug/L	10	03/12/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	10	ug/L	10	03/12/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	2.5	ug/L	10	03/12/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	50	ug/L	10	03/12/24	MH	SW8260D
Trichloroethene	100	10	ug/L	10	03/12/24	MH	SW8260D
Trichlorofluoromethane	ND	10	ug/L	10	03/12/24	MH	SW8260D
Trichlorotrifluoroethane	ND	10	ug/L	10	03/12/24	MH	SW8260D
Vinyl chloride	ND	2.5	ug/L	10	03/12/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (10x)	97		%	10	03/12/24	MH	70 - 130 %
% Bromofluorobenzene (10x)	95		%	10	03/12/24	MH	70 - 130 %
% Dibromofluoromethane (10x)	98		%	10	03/12/24	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (10x)	100		%	10	03/12/24	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	03/11/24	MH	70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	03/11/24	MH	70 - 130 %
% Dibromofluoromethane (50x)	103		%	50	03/11/24	MH	70 - 130 %
% Toluene-d8 (50x)	90		%	50	03/11/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	400	ug/L	10	03/12/24	MH	SW8260D (OXY)
Diethyl ether	ND	10	ug/L	10	03/12/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	10	ug/L	10	03/12/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	10	ug/L	10	03/12/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	10	ug/L	10	03/12/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

Volatile Comment:

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

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



Phyllis Shiller, Laboratory Director

March 13, 2024

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.

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

Analysis Report

March 13, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: GROUND WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21

Custody Information

Collected by: JH
Received by: LB
Analyzed by: see "By" below

Date

03/07/24
03/08/24

Time

8:25
11:15

Laboratory Data

SDG ID: GCQ22928
Phoenix ID: CQ22930

Project ID: USPS GREAT BARRINGTON
Client ID: MIDFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	03/09/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2-Dibromoethane	ND	0.25	ug/L	1	03/09/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	03/09/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	03/09/24	MH	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	03/09/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	03/09/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	03/09/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chloroform	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	03/09/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	03/09/24	MH	SW8260D
Dibromomethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	03/09/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Tetrachloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	03/09/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	03/09/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
Trichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	03/09/24	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	03/09/24	MH	70 - 130 %
% Dibromofluoromethane	94		%	1	03/09/24	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	03/09/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	40	ug/L	1	03/09/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

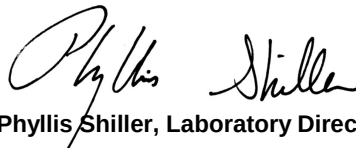
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

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



Phyllis Shiller, Laboratory Director

March 13, 2024

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.

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

Analysis Report

March 13, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: GROUND WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21

Custody Information

Collected by: JH
Received by: LB
Analyzed by: see "By" below

Date

03/07/24
03/08/24

Time

8:30
11:15

Laboratory Data

SDG ID: GCQ22928
Phoenix ID: CQ22931

Project ID: USPS GREAT BARRINGTON
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	03/09/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2-Dibromoethane	ND	0.25	ug/L	1	03/09/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	03/09/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	03/09/24	MH	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	03/09/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	03/09/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	03/09/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chloroform	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	03/09/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	03/09/24	MH	SW8260D
Dibromomethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	03/09/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Tetrachloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	03/09/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	03/09/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	03/09/24	MH	SW8260D
Trichloroethene	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	03/09/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	03/09/24	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	03/09/24	MH	70 - 130 %
% Dibromofluoromethane	92		%	1	03/09/24	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	03/09/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	40	ug/L	1	03/09/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	03/09/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

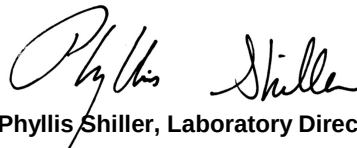
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

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



Phyllis Shiller, Laboratory Director

March 13, 2024

Reviewed and Released by: Ethan Lee, Project Manager



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

QA/QC Report

March 13, 2024

QA/QC Data

SDG I.D.: GCQ22928

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 721690 (ug/L), QC Sample No: CQ22185 (CQ22928, CQ22930, CQ22931)										
Volatiles - Water, Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	104	98	5.9				70 - 130	20
1,1,1-Trichloroethane	ND	1.0	111	106	4.6				70 - 130	20
1,1,2,2-Tetrachloroethane	ND	0.50	106	98	7.8				70 - 130	20
1,1,2-Trichloroethane	ND	1.0	111	103	7.5				70 - 130	20
1,1-Dichloroethane	ND	1.0	113	107	5.5				70 - 130	20
1,1-Dichloroethene	ND	1.0	112	102	9.3				70 - 130	20
1,1-Dichloropropene	ND	1.0	108	102	5.7				70 - 130	20
1,2,3-Trichlorobenzene	ND	1.0	106	101	4.8				70 - 130	20
1,2,3-Trichloropropane	ND	1.0	113	104	8.3				70 - 130	20
1,2,4-Trichlorobenzene	ND	1.0	107	102	4.8				70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	111	104	6.5				70 - 130	20
1,2-Dibromo-3-chloropropane	ND	1.0	98	88	10.8				70 - 130	20
1,2-Dibromoethane	ND	1.0	110	101	8.5				70 - 130	20
1,2-Dichlorobenzene	ND	1.0	111	105	5.6				70 - 130	20
1,2-Dichloroethane	ND	1.0	113	104	8.3				70 - 130	20
1,2-Dichloropropane	ND	1.0	108	100	7.7				70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	111	105	5.6				70 - 130	20
1,3-Dichlorobenzene	ND	1.0	110	103	6.6				70 - 130	20
1,3-Dichloropropane	ND	1.0	115	105	9.1				70 - 130	20
1,4-Dichlorobenzene	ND	1.0	112	104	7.4				70 - 130	20
1,4-dioxane	ND	100	120	100	18.2				40 - 160	20
2,2-Dichloropropane	ND	1.0	121	115	5.1				70 - 130	20
2-Chlorotoluene	ND	1.0	109	104	4.7				70 - 130	20
2-Hexanone	ND	5.0	112	101	10.3				40 - 160	20
2-Isopropyltoluene	ND	1.0	113	107	5.5				70 - 130	20
4-Chlorotoluene	ND	1.0	110	102	7.5				70 - 130	20
4-Methyl-2-pentanone	ND	5.0	106	99	6.8				40 - 160	20
Acetone	ND	5.0	107	101	5.8				40 - 160	20
Acrylonitrile	ND	5.0	117	110	6.2				70 - 130	20
Benzene	ND	0.70	109	103	5.7				70 - 130	20
Bromobenzene	ND	1.0	110	103	6.6				70 - 130	20
Bromochloromethane	ND	1.0	112	105	6.5				70 - 130	20
Bromodichloromethane	ND	0.50	108	99	8.7				70 - 130	20
Bromoform	ND	1.0	88	79	10.8				70 - 130	20
Bromomethane	ND	1.0	135	128	5.3				40 - 160	20
Carbon Disulfide	ND	1.0	111	106	4.6				70 - 130	20
Carbon tetrachloride	ND	1.0	103	99	4.0				70 - 130	20
Chlorobenzene	ND	1.0	114	107	6.3				70 - 130	20
Chloroethane	ND	1.0	120	114	5.1				70 - 130	20
Chloroform	ND	1.0	113	107	5.5				70 - 130	20
Chloromethane	ND	1.0	105	101	3.9				40 - 160	20

QA/QC Data

SDG I.D.: GCQ22928

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,2-Dichloroethene	ND	1.0	114	108	5.4				70 - 130	20
cis-1,3-Dichloropropene	ND	0.40	109	102	6.6				70 - 130	20
Dibromochloromethane	ND	0.50	101	92	9.3				70 - 130	20
Dibromomethane	ND	1.0	108	103	4.7				70 - 130	20
Dichlorodifluoromethane	ND	1.0	105	100	4.9				40 - 160	20
Di-isopropyl ether	ND	1.0	113	104	8.3				70 - 130	20
Ethyl ether	ND	1.0	112	105	6.5				70 - 130	20
Ethyl tert-butyl ether	ND	1.0	111	103	7.5				70 - 130	20
Ethylbenzene	ND	1.0	116	107	8.1				70 - 130	20
Hexachlorobutadiene	ND	0.40	103	100	3.0				70 - 130	20
Isopropylbenzene	ND	1.0	111	104	6.5				70 - 130	20
m&p-Xylene	ND	1.0	115	107	7.2				70 - 130	20
Methyl ethyl ketone	ND	5.0	115	107	7.2				40 - 160	20
Methyl t-butyl ether (MTBE)	ND	1.0	112	102	9.3				70 - 130	20
Methylene chloride	ND	1.0	106	100	5.8				70 - 130	20
Naphthalene	ND	1.0	111	102	8.5				70 - 130	20
n-Butylbenzene	ND	1.0	112	106	5.5				70 - 130	20
n-Propylbenzene	ND	1.0	113	105	7.3				70 - 130	20
o-Xylene	ND	1.0	114	106	7.3				70 - 130	20
p-Isopropyltoluene	ND	1.0	110	105	4.7				70 - 130	20
sec-Butylbenzene	ND	1.0	109	104	4.7				70 - 130	20
Styrene	ND	1.0	113	105	7.3				70 - 130	20
tert-amyl methyl ether	ND	1.0	107	101	5.8				70 - 130	20
tert-Butylbenzene	ND	1.0	109	104	4.7				70 - 130	20
Tetrachloroethene	ND	1.0	104	97	7.0				70 - 130	20
Tetrahydrofuran (THF)	ND	2.5	112	104	7.4				70 - 130	20
Toluene	ND	1.0	109	103	5.7				70 - 130	20
trans-1,2-Dichloroethene	ND	1.0	114	106	7.3				70 - 130	20
trans-1,3-Dichloropropene	ND	0.40	109	102	6.6				70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	105	96	9.0				70 - 130	20
Trichloroethene	ND	1.0	111	104	6.5				70 - 130	20
Trichlorofluoromethane	ND	1.0	117	110	6.2				70 - 130	20
Trichlorotrifluoroethane	ND	1.0	111	102	8.5				70 - 130	20
Vinyl chloride	ND	1.0	109	104	4.7				70 - 130	20
% 1,2-dichlorobenzene-d4	98	%	100	99	1.0				70 - 130	20
% Bromofluorobenzene	96	%	102	100	2.0				70 - 130	20
% Dibromofluoromethane	95	%	94	96	2.1				70 - 130	20
% Toluene-d8	99	%	100	101	1.0				70 - 130	20

Comment:

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

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.

The RPD criteria for the LCS/LCSD is 20%,

The MS/MSD RPD criteria is listed above.

QA/QC Batch 721879 (ug/L), QC Sample No: CQ23210 (CQ22929 (50X))

Volatiles - Ground Water

Tetrachloroethene	ND	1.0	104	103	1.0				70 - 130	20
% 1,2-dichlorobenzene-d4	97	%	99	100	1.0				70 - 130	20
% Bromofluorobenzene	97	%	97	98	1.0				70 - 130	20
% Dibromofluoromethane	100	%	96	100	4.1				70 - 130	20
% Toluene-d8	92	%	97	96	1.0				70 - 130	20

QA/QC Data

SDG I.D.: GCQ22928

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Comment:										
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.										
Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.										
The RPD criteria for the LCS/LCSD is 20%,										
The MS/MSD RPD criteria is listed above.										
QA/QC Batch 721838 (ug/L), QC Sample No: CQ24116 (CQ22929 (10X))										
<u>Volatiles - Ground Water</u>										
1,1,1,2-Tetrachloroethane	ND	1.0	96	94	2.1				70 - 130	20
1,1,1-Trichloroethane	ND	1.0	93	88	5.5				70 - 130	20
1,1,2,2-Tetrachloroethane	ND	0.50	99	96	3.1				70 - 130	20
1,1,2-Trichloroethane	ND	1.0	96	93	3.2				70 - 130	20
1,1-Dichloroethane	ND	1.0	92	87	5.6				70 - 130	20
1,1-Dichloroethene	ND	1.0	94	89	5.5				70 - 130	20
1,1-Dichloropropene	ND	1.0	93	89	4.4				70 - 130	20
1,2,3-Trichlorobenzene	ND	1.0	95	91	4.3				70 - 130	20
1,2,3-Trichloropropane	ND	1.0	98	97	1.0				70 - 130	20
1,2,4-Trichlorobenzene	ND	1.0	96	93	3.2				70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	95	91	4.3				70 - 130	20
1,2-Dibromo-3-chloropropane	ND	1.0	113	107	5.5				70 - 130	20
1,2-Dibromoethane	ND	1.0	99	92	7.3				70 - 130	20
1,2-Dichlorobenzene	ND	1.0	92	89	3.3				70 - 130	20
1,2-Dichloroethane	ND	1.0	95	92	3.2				70 - 130	20
1,2-Dichloropropane	ND	1.0	92	88	4.4				70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	97	92	5.3				70 - 130	20
1,3-Dichlorobenzene	ND	1.0	93	90	3.3				70 - 130	20
1,3-Dichloropropane	ND	1.0	96	91	5.3				70 - 130	20
1,4-Dichlorobenzene	ND	1.0	93	91	2.2				70 - 130	20
1,4-dioxane	ND	100	100	97	3.0				40 - 160	20
2,2-Dichloropropane	ND	1.0	98	90	8.5				70 - 130	20
2-Chlorotoluene	ND	1.0	95	91	4.3				70 - 130	20
2-Hexanone	ND	5.0	111	106	4.6				40 - 160	20
2-Isopropyltoluene	ND	1.0	97	93	4.2				70 - 130	20
4-Chlorotoluene	ND	1.0	94	89	5.5				70 - 130	20
4-Methyl-2-pentanone	ND	5.0	97	95	2.1				40 - 160	20
Acetone	ND	5.0	88	97	9.7				40 - 160	20
Acrylonitrile	ND	5.0	102	93	9.2				70 - 130	20
Benzene	ND	0.70	93	88	5.5				70 - 130	20
Bromobenzene	ND	1.0	94	90	4.3				70 - 130	20
Bromochloromethane	ND	1.0	93	88	5.5				70 - 130	20
Bromodichloromethane	ND	0.50	94	91	3.2				70 - 130	20
Bromoform	ND	1.0	106	98	7.8				70 - 130	20
Bromomethane	ND	1.0	107	101	5.8				40 - 160	20
Carbon Disulfide	ND	1.0	97	90	7.5				70 - 130	20
Carbon tetrachloride	ND	1.0	97	91	6.4				70 - 130	20
Chlorobenzene	ND	1.0	93	88	5.5				70 - 130	20
Chloroethane	ND	1.0	98	91	7.4				70 - 130	20
Chloroform	ND	1.0	92	87	5.6				70 - 130	20
Chloromethane	ND	1.0	100	94	6.2				40 - 160	20
cis-1,2-Dichloroethene	ND	1.0	90	86	4.5				70 - 130	20
cis-1,3-Dichloropropene	ND	0.40	94	92	2.2				70 - 130	20
Dibromochloromethane	ND	0.50	100	96	4.1				70 - 130	20
Dibromomethane	ND	1.0	93	92	1.1				70 - 130	20

QA/QC Data

SDG I.D.: GCQ22928

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dichlorodifluoromethane	ND	1.0	101	92	9.3				40 - 160	20
Di-isopropyl ether	ND	1.0	94	88	6.6				70 - 130	20
Ethyl ether	ND	1.0	93	90	3.3				70 - 130	20
Ethyl tert-butyl ether	ND	1.0	94	91	3.2				70 - 130	20
Ethylbenzene	ND	1.0	96	91	5.3				70 - 130	20
Hexachlorobutadiene	ND	0.40	98	95	3.1				70 - 130	20
Isopropylbenzene	ND	1.0	96	93	3.2				70 - 130	20
m&p-Xylene	ND	1.0	95	90	5.4				70 - 130	20
Methyl ethyl ketone	ND	5.0	93	93	0.0				40 - 160	20
Methyl t-butyl ether (MTBE)	ND	1.0	95	91	4.3				70 - 130	20
Methylene chloride	ND	1.0	87	82	5.9				70 - 130	20
Naphthalene	ND	1.0	100	98	2.0				70 - 130	20
n-Butylbenzene	ND	1.0	96	92	4.3				70 - 130	20
n-Propylbenzene	ND	1.0	97	91	6.4				70 - 130	20
o-Xylene	ND	1.0	97	91	6.4				70 - 130	20
p-Isopropyltoluene	ND	1.0	96	92	4.3				70 - 130	20
sec-Butylbenzene	ND	1.0	95	91	4.3				70 - 130	20
Styrene	ND	1.0	98	92	6.3				70 - 130	20
tert-amyl methyl ether	ND	1.0	94	91	3.2				70 - 130	20
tert-Butylbenzene	ND	1.0	96	92	4.3				70 - 130	20
Tetrahydrofuran (THF)	ND	2.5	90	83	8.1				70 - 130	20
Toluene	ND	1.0	94	89	5.5				70 - 130	20
trans-1,2-Dichloroethene	ND	1.0	95	86	9.9				70 - 130	20
trans-1,3-Dichloropropene	ND	0.40	97	94	3.1				70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	101	99	2.0				70 - 130	20
Trichloroethene	ND	1.0	93	87	6.7				70 - 130	20
Trichlorofluoromethane	ND	1.0	101	92	9.3				70 - 130	20
Trichlorotrifluoroethane	ND	1.0	96	91	5.3				70 - 130	20
Vinyl chloride	ND	1.0	100	93	7.3				70 - 130	20
% 1,2-dichlorobenzene-d4	100	%	101	102	1.0				70 - 130	20
% Bromofluorobenzene	95	%	104	101	2.9				70 - 130	20
% Dibromofluoromethane	102	%	102	99	3.0				70 - 130	20
% Toluene-d8	101	%	101	101	0.0				70 - 130	20

Comment:

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

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.

The RPD criteria for the LCS/LCSD is 20%,

The MS/MSD RPD criteria is listed above.

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

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

March 13, 2024

Wednesday, March 13, 2024

Criteria: MA: CAM, GW1

State: MA

Sample Criteria Exceedances Report

GCQ22928 - AECOM-CHELM

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ22928	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	25		10	ug/L
CQ22928	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22928	\$8260GWR	Tetrahydrofuran (THF)	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ22928	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22928	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	0.25	0.02	0.02	ug/L
CQ22928	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	0.25	0.02	0.02	ug/L
CQ22928	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	40	0.3	0.3	ug/L
CQ22928	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	40	0.3	0.3	ug/L
CQ22929	\$8260GWR	Total Xylenes	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,3,5-Trimethylbenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	2,2-Dichloropropane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,4-Dichlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22929	\$8260GWR	Dibromochloromethane	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ22929	\$8260GWR	1,3-Dichloropropane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,3-Dichlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Dibromomethane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Dichlorodifluoromethane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	2-Chlorotoluene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Hexachlorobutadiene	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ22929	\$8260GWR	2-Hexanone	MA / CAM Protocol / VOA AQ RL	ND	50		10	ug/L
CQ22929	\$8260GWR	1,2-Dichloropropane	MA / CAM Protocol / VOA AQ RL	ND	3.0		2	ug/L
CQ22929	\$8260GWR	Isopropylbenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Methyl ethyl ketone	MA / CAM Protocol / VOA AQ RL	ND	50		10	ug/L
CQ22929	\$8260GWR	Ethylbenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Bromoform	MA / CAM Protocol / VOA AQ RL	ND	4.0		2	ug/L
CQ22929	\$8260GWR	4-Chlorotoluene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	4-Methyl-2-pentanone	MA / CAM Protocol / VOA AQ RL	ND	50		10	ug/L
CQ22929	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	250		10	ug/L
CQ22929	\$8260GWR	Acrylonitrile	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Benzene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22929	\$8260GWR	Bromobenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Chloroethane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Bromodichloromethane	MA / CAM Protocol / VOA AQ RL	ND	3.0		2	ug/L
CQ22929	\$8260GWR	Chloromethane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Bromomethane	MA / CAM Protocol / VOA AQ RL	ND	7.0		2	ug/L
CQ22929	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	50		2	ug/L
CQ22929	\$8260GWR	Carbon tetrachloride	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ22929	\$8260GWR	p-Isopropyltoluene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Chlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Methyl t-butyl ether (MTBE)	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Chloroform	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L

Wednesday, March 13, 2024

Criteria: MA: CAM, GW1

State: MA

Sample Criteria Exceedances Report

GCQ22928 - AECOM-CHELM

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ22929	\$8260GWR	Bromochloromethane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,1-Dichloropropene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	n-Propylbenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Trichlorotrifluoroethane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Vinyl chloride	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ22929	\$8260GWR	1,2,4-Trimethylbenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,2,4-Trichlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,2-Dibromo-3-chloropropane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,2,3-Trichlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,2-Dibromoethane	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ22929	\$8260GWR	1,1-Dichloroethene	MA / CAM Protocol / VOA AQ RL	ND	7.0		2	ug/L
CQ22929	\$8260GWR	1,1-Dichloroethane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,1,2-Trichloroethane	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22929	\$8260GWR	1,1,2,2-Tetrachloroethane	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ22929	\$8260GWR	1,1,1-Trichloroethane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,1,1,2-Tetrachloroethane	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22929	\$8260GWR	1,2,3-Trichloropropane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,2-Dichloroethane	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22929	\$8260GWR	n-Butylbenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	2-Isopropyltoluene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	o-Xylene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	cis-1,3-Dichloropropene	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ22929	\$8260GWR	sec-Butylbenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Trichlorofluoromethane	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	tert-Butylbenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Methylene chloride	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22929	\$8260GWR	1,2-Dichlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	Tetrahydrofuran (THF)	MA / CAM Protocol / VOA AQ RL	ND	25		2	ug/L
CQ22929	\$8260GWR	Toluene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	trans-1,2-Dichloroethene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	trans-1,3-Dichloropropene	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ22929	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	50		2	ug/L
CQ22929	\$8260GWR	Styrene	MA / CAM Protocol / VOA AQ RL	ND	10		2	ug/L
CQ22929	\$8260GWR	1,1,2,2-Tetrachloroethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	2.5	2	2	ug/L
CQ22929	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	2.5	0.02	0.02	ug/L
CQ22929	\$8260GWR	Tetrachloroethene	MA / CMR 310.40.1600 / GW-1 (mg/l)	860	50	5	5	ug/L
CQ22929	\$8260GWR	cis-1,2-Dichloroethene	MA / CMR 310.40.1600 / GW-1 (mg/l)	110	10	20	20	ug/L
CQ22929	\$8260GWR	cis-1,3-Dichloropropene	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	2.5	0.5	0.5	ug/L
CQ22929	\$8260GWR	Carbon tetrachloride	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	2.5	2	2	ug/L
CQ22929	\$8260GWR	Dibromochloromethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	2.5	2	2	ug/L
CQ22929	\$8260GWR	Hexachlorobutadiene	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	2.5	0.6	0.6	ug/L
CQ22929	\$8260GWR	Vinyl chloride	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	2.5	2	2	ug/L

Wednesday, March 13, 2024

Criteria: MA: CAM, GW1

State: MA

Sample Criteria Exceedances Report

GCQ22928 - AECOM-CHELM

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ22929	\$8260GWR	Trichloroethene	MA / CMR 310.40.1600 / GW-1 (mg/l)	100	10	5	5	ug/L
CQ22929	\$8260GWR	trans-1,3-Dichloropropene	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	2.5	0.5	0.5	ug/L
CQ22929	\$8260GWR	Vinyl chloride	MA / GROUNDWATER STANDARDS / GW-1	ND	2.5	2	2	ug/L
CQ22929	\$8260GWR	Trichloroethene	MA / GROUNDWATER STANDARDS / GW-1	100	10	5	5	ug/L
CQ22929	\$8260GWR	cis-1,2-Dichloroethene	MA / GROUNDWATER STANDARDS / GW-1	110	10	70	70	ug/L
CQ22929	\$8260GWR	Tetrachloroethene	MA / GROUNDWATER STANDARDS / GW-1	860	50	5	5	ug/L
CQ22929	\$8260GWR	Hexachlorobutadiene	MA / GROUNDWATER STANDARDS / GW-1	ND	2.5	0.6	0.6	ug/L
CQ22929	\$8260GWR	Dibromochloromethane	MA / GROUNDWATER STANDARDS / GW-1	ND	2.5	2	2	ug/L
CQ22929	\$8260GWR	1,1,2,2-Tetrachloroethane	MA / GROUNDWATER STANDARDS / GW-1	ND	2.5	2	2	ug/L
CQ22929	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	2.5	0.02	0.02	ug/L
CQ22929	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	400	0.3	0.3	ug/L
CQ22929	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	400	0.3	0.3	ug/L
CQ22930	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	25		10	ug/L
CQ22930	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22930	\$8260GWR	Tetrahydrofuran (THF)	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ22930	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22930	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	0.25	0.02	0.02	ug/L
CQ22930	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	0.25	0.02	0.02	ug/L
CQ22930	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	40	0.3	0.3	ug/L
CQ22930	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	40	0.3	0.3	ug/L
CQ22931	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	25		10	ug/L
CQ22931	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22931	\$8260GWR	Tetrahydrofuran (THF)	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ22931	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ22931	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	0.25	0.02	0.02	ug/L
CQ22931	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	0.25	0.02	0.02	ug/L
CQ22931	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	40	0.3	0.3	ug/L
CQ22931	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	40	0.3	0.3	ug/L

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

MassDEP Analytical Protocol Certification Form					
Laboratory Name: Phoenix Environmental Laboratories, Inc. Project #:					
Project Location: USPS GREAT BARRINGTON			RTN:		
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] CQ22928, CQ22929, CQ22930, CQ22931					
Matrices: ☒ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☒ Other: WATER					
CAM Protocol (check all that apply below)					
8260 VOC CAM II A ☒	7470/7471 Hg CAM III B ☐	MassDEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9012 Total Cyanide/PAC CAM V1 A ☐	6860 Perchlorate CAM VIII B ☐	
Affirmative responses to questions A through F are required for "Presumptive Certainty" status					
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature*) in the field or laboratory, and prepared/analyzed with method holding times? (* see narrative)			☒ Yes ☐ No	
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?			☒ Yes ☐ No	
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?			☒ Yes ☐ No	
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?			☒ Yes ☐ No	
E	a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 methods only: Was the complete analyte list reported for each method?			☐ Yes ☐ No ☐ Yes ☐ No	
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?			☒ Yes ☐ No	
Responses to questions G, H and I below is required for "Presumptive Certainty" status					
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?			☐ Yes ☒ No	
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056(2)(k) and WSC-07-350					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?			☒ Yes ☐ No	
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?			☒ Yes ☐ No	
<i>All negative responses must be addressed in an attached laboratory narrative.</i>					
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.					
Authorized Signature: _____		Date: Wednesday, March 13, 2024 Printed Name: Ethan Lee Position: Project Manager			



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



MCP Certification Report

March 13, 2024

SDG I.D.: GCQ22928

SDG Comments

8260 Analysis:

1,2-Dibromoethane doesn't meet GW-1 criteria, this compound is analyzed by GC/FID to achieve this criteria.

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

Phoenix reporting levels may exceed those referenced in the CAM protocol. Please refer to criteria sheet for comparisons to requested MCP standards.

Volatile Analyses:

Elevated reporting limits for volatiles due to the presence of target and/or non-target material.

VOA Narration

Were all QA/QC performance criteria specified in the MADEP document CAM achieved? Yes.

Instrument:

CHEM02 03/09/24-1

Michael Hahn, Chemist 03/09/24

CQ22928 (1X), CQ22930 (1X), CQ22931 (1X)

Chem02 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.

EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM02/VT-P030824):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2,2-Tetrachloroethane 0.171 (0.2), 1,1,2-Trichloroethane 0.080 (0.2), 1,2,3-Trichlorobenzene 0.281 (0.4), 1,2,4-Trichlorobenzene 0.354 (0.4), 1,2-Dibromoethane 0.089 (0.2), 1,2-Dichloropropane 0.565 (0.6), 1,2-Dichloropropane 0.165 (0.2), Acrylonitrile 0.030 (0.05), Bromochloromethane 0.092 (0.1), Bromodichloromethane 0.194 (0.3), Bromoform 0.057 (0.1), cis-1,3-Dichloropropene 0.239 (0.3), Dibromochloromethane 0.119 (0.2), Ethylbenzene 0.277 (0.4), Tetrahydrofuran (THF) 0.024 (0.05), trans-1,3-Dichloropropene 0.178 (0.3), Trichloroethene 0.168 (0.2)

The following compounds did not meet the minimum response factor of 0.05: 1,2-Dibromo-3-chloropropane 0.025 (0.05), 2-Hexanone 0.040 (0.05), Acetone 0.026 (0.05), Acrylonitrile 0.030 (0.05), Methyl ethyl ketone 0.033 (0.05), Tetrahydrofuran (THF) 0.024 (0.05)

Continuing Calibration Verification (CHEM02/0309_04-VT-P030824) (MCP Compliance):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

97% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2,2-Dichloropropane 24%H (20%), Bromomethane 23%H (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2,2-Tetrachloroethane 0.185 (0.2), 1,1,2-Trichloroethane 0.088 (0.2), 1,2,3-Trichlorobenzene 0.309 (0.4), 1,2,4-Trichlorobenzene 0.394 (0.4), 1,2-Dibromoethane 0.098 (0.2), 1,2-Dichloropropane 0.177 (0.2), Acrylonitrile 0.035 (0.05), Bromodichloromethane 0.210 (0.3), Bromoform 0.050 (0.1), cis-1,3-Dichloropropene 0.266 (0.3), Dibromochloromethane 0.118 (0.2), Ethylbenzene 0.319 (0.4), Tetrahydrofuran (THF) 0.027 (0.05), trans-1,3-Dichloropropene 0.198 (0.3), Trichloroethene 0.190 (0.2)

The following compounds did not meet the minimum MCP response factor of 0.05: 1,1,2,2-Tetrachloroethane 0.171 (0.2), 1,1,2-Trichloroethane 0.080 (0.2), 1,2,3-Trichlorobenzene 0.281 (0.4), 1,2,4-Trichlorobenzene 0.354 (0.4), 1,2-Dibromoethane 0.089 (0.2), 1,2-Dichloropropane 0.165 (0.2), Acrylonitrile 0.030 (0.05), Bromodichloromethane 0.194 (0.3), Bromoform 0.057 (0.1), cis-1,3-Dichloropropene 0.239 (0.3), Dibromochloromethane 0.119 (0.2), Ethylbenzene 0.277 (0.4), Tetrahydrofuran (THF) 0.024



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MCP Certification Report

March 13, 2024

SDG I.D.: GCQ22928

VOA Narration

(0.05), trans-1,3-Dichloropropene 0.178 (0.3), Trichloroethene 0.168 (0.2)

CHEM02 03/11/24-3

Michael Hahn, Chemist 03/11/24

CQ22929 (10X)

Chem02 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.

EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM02/VT-P031124):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 24% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2,2-Tetrachloroethane 0.135 (0.2), 1,1,2-Trichloroethane 0.079 (0.2), 1,2,3-Trichlorobenzene 0.278 (0.4), 1,2,4-Trichlorobenzene 0.361 (0.4), 1,2-Dibromoethane 0.099 (0.2), 1,2-Dichloropropene 0.165 (0.2), Acrylonitrile 0.027 (0.05), Bromodichloromethane 0.188 (0.3), Bromoform 0.042 (0.1), cis-1,3-Dichloropropene 0.233 (0.3), Dibromochloromethane 0.119 (0.2), Ethylbenzene 0.289 (0.4), Isopropylbenzene 0.383 (0.4), Tetrahydrofuran (THF) 0.026 (0.05), trans-1,3-Dichloropropene 0.169 (0.3), trans-1,4-dichloro-2-butene 0.042 (0.05), Trichloroethene 0.198 (0.2)

The following compounds did not meet the minimum response factor of 0.05: 1,2-Dibromo-3-chloropropane 0.018 (0.05), 2-Hexanone 0.040 (0.05), Acetone 0.026 (0.05), Acrylonitrile 0.027 (0.05), Bromoform 0.042 (0.05), Methyl ethyl ketone 0.035 (0.05), Tetrahydrofuran (THF) 0.026 (0.05), trans-1,4-dichloro-2-butene 0.042 (0.05)

Continuing Calibration Verification (CHEM02/0311_20-VT-P031124) (MCP Compliance):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2-Hexanone 23%H (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2,2-Tetrachloroethane 0.141 (0.2), 1,1,2-Trichloroethane 0.080 (0.2), 1,2,3-Trichlorobenzene 0.281 (0.4), 1,2,4-Trichlorobenzene 0.365 (0.4), 1,2-Dibromoethane 0.101 (0.2), 1,2-Dichlorobenzene 0.594 (0.6), 1,2-Dichloropropene 0.160 (0.2), Acrylonitrile 0.030 (0.05), Bromodichloromethane 0.193 (0.3), Bromoform 0.047 (0.1), cis-1,3-Dichloropropene 0.235 (0.3), Dibromochloromethane 0.126 (0.2), Ethylbenzene 0.298 (0.4), Isopropylbenzene 0.393 (0.4), Tetrahydrofuran (THF) 0.024 (0.05), trans-1,3-Dichloropropene 0.174 (0.3), trans-1,4-dichloro-2-butene 0.046 (0.05), Trichloroethene 0.197 (0.2)

The following compounds did not meet the minimum MCP response factor of 0.05: 1,1,2,2-Tetrachloroethane 0.135 (0.2), 1,1,2-Trichloroethane 0.079 (0.2), 1,2,3-Trichlorobenzene 0.278 (0.4), 1,2,4-Trichlorobenzene 0.361 (0.4), 1,2-Dibromoethane 0.099 (0.2), 1,2-Dichlorobenzene 0.611 (0.6), 1,2-Dichloropropene 0.165 (0.2), Acrylonitrile 0.027 (0.05), Bromodichloromethane 0.188 (0.3), Bromoform 0.042 (0.1), cis-1,3-Dichloropropene 0.233 (0.3), Dibromochloromethane 0.119 (0.2), Ethylbenzene 0.289 (0.4), Isopropylbenzene 0.383 (0.4), Tetrahydrofuran (THF) 0.026 (0.05), trans-1,3-Dichloropropene 0.169 (0.3), trans-1,4-dichloro-2-butene 0.042 (0.05), Trichloroethene 0.198 (0.2)

CHEM17 03/11/24-1

Michael Hahn, Chemist 03/11/24

CQ22929 (50X)

Chem 17 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.

EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM17/VT-030424):

97% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

The following compounds did not meet the minimum response factor of 0.05: None.



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MCP Certification Report

March 13, 2024

SDG I.D.: GCQ22928

VOA Narration

Continuing Calibration Verification (CHEM17/0311_02-VT-030424) (MCP Compliance):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum MCP response factor of 0.05: None.

QC (Batch Specific):

Batch 721690 (CQ22185) CHEM02 3/9/2024-1

CQ22928(1X), CQ22930(1X), CQ22931(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.
The RPD criteria for the LCS/LCSD is 20%,
The MS/MSD RPD criteria is listed above.

Batch 721838 (CQ24116) CHEM02 3/11/2024-3

CQ22929(10X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.
The RPD criteria for the LCS/LCSD is 20%,
The MS/MSD RPD criteria is listed above.

Batch 721879 (CQ23210) CHEM17 3/11/2024-1

CQ22929(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.
The RPD criteria for the LCS/LCSD is 20%,
The MS/MSD RPD criteria is listed above.

We attest under the pains and penalties of perjury 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.

ATTACHMENT C



Wednesday, May 15, 2024

Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Project ID: USPS GREAT BARRINGTON
SDG ID: GCQ69962
Sample ID#s: CQ69962 - CQ69965

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

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

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

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

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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SDG Comments

May 15, 2024

SDG I.D.: GCQ69962

8260 Analysis:

1,2-Dibromoethane doesn't meet GW-1 criteria, this compound is analyzed by GC/FID to achieve this criteria.

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

Phoenix reporting levels may exceed those referenced in the CAM protocol. Please refer to criteria sheet for comparisons to requested MCP standards.



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Sample Id Cross Reference

May 15, 2024

SDG I.D.: GCQ69962

Project ID: USPS GREAT BARRINGTON

Client Id	Lab Id	Matrix
TRIP BLANK	CQ69962	WATER
INFLUENT	CQ69963	GROUND WATER
MIDFLUENT	CQ69964	GROUND WATER
EFFLUENT	CQ69965	GROUND WATER



Environmental Laboratories, Inc.

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

Analysis Report

May 15, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21

Custody Information

Collected by: JH
Received by: SR1
Analyzed by: see "By" below

Date

05/08/24

Time

05/09/24 10:40

Laboratory Data

SDG ID: GCQ69962
Phoenix ID: CQ69962

Project ID: USPS GREAT BARRINGTON
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/10/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2-Dibromoethane	ND	0.25	ug/L	1	05/10/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	05/10/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/10/24	MH	SW8260D

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	05/10/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	05/10/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	05/10/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Chloroform	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/10/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	05/10/24	MH	SW8260D
Dibromomethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	05/10/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Tetrachloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/10/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/10/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
Trichloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/10/24	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	05/10/24	MH	70 - 130 %
% Dibromofluoromethane	106		%	1	05/10/24	MH	70 - 130 %

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	05/10/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	50	ug/L	1	05/10/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

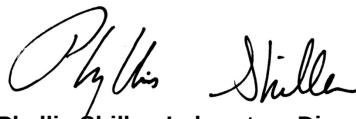
Comments:

TRIP BLANK INCLUDED.

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

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



Phyllis Shiller, Laboratory Director

May 15, 2024

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.

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

Analysis Report

May 15, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: GROUND WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21

Custody Information

Collected by: JH
Received by: SR1
Analyzed by: see "By" below

Date

05/08/24
05/09/24

Time

11:55
10:40

Laboratory Data

SDG ID: GCQ69962
Phoenix ID: CQ69963

Project ID: USPS GREAT BARRINGTON
Client ID: INFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/10/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2-Dibromoethane	ND	0.25	ug/L	1	05/10/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	05/10/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/10/24	MH	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	05/10/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	05/10/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	05/10/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Chloroform	1.1	1.0	ug/L	1	05/10/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
cis-1,2-Dichloroethene	71	1.0	ug/L	1	05/10/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/10/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	05/10/24	MH	SW8260D
Dibromomethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	05/10/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Tetrachloroethene	360	20	ug/L	20	05/13/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/10/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/10/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
Trichloroethene	37	1.0	ug/L	1	05/10/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/10/24	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	05/10/24	MH	70 - 130 %
% Dibromofluoromethane	110		%	1	05/10/24	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	05/10/24	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (20x)	101		%	20	05/13/24	MH	70 - 130 %
% Bromofluorobenzene (20x)	94		%	20	05/13/24	MH	70 - 130 %
% Dibromofluoromethane (20x)	109		%	20	05/13/24	MH	70 - 130 %
% Toluene-d8 (20x)	100		%	20	05/13/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	50	ug/L	1	05/10/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

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



Phyllis Shiller, Laboratory Director

May 15, 2024

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.

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

Analysis Report

May 15, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: GROUND WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21

Custody Information

Collected by: JH
Received by: SR1
Analyzed by: see "By" below

Date

05/08/24
05/09/24

Time

12:00
10:40

Laboratory Data

SDG ID: GCQ69962
Phoenix ID: CQ69964

Project ID: USPS GREAT BARRINGTON
Client ID: MIDFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/13/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,2-Dibromoethane	ND	0.25	ug/L	1	05/13/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	05/13/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	05/13/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/13/24	MH	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	05/13/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	05/13/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	05/13/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	05/13/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Chloroform	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
cis-1,2-Dichloroethene	2.0	1.0	ug/L	1	05/13/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/13/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	05/13/24	MH	SW8260D
Dibromomethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	05/13/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	05/13/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Tetrachloroethene	2.3	1.0	ug/L	1	05/13/24	MH	SW8260D
Tetrahydrofuran (THF)	5.7	2.5	ug/L	1	05/13/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/13/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/13/24	MH	SW8260D
Trichloroethene	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	05/13/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/13/24	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	05/13/24	MH	70 - 130 %
% Dibromofluoromethane	108		%	1	05/13/24	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	05/13/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	50	ug/L	1	05/13/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	05/13/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	1.0	ug/L	1	05/13/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	05/13/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	05/13/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

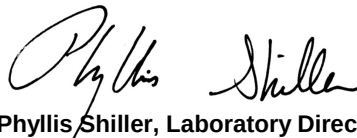
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

May 15, 2024

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.

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

Analysis Report

May 15, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: GROUND WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21

Custody Information

Collected by: JH
Received by: SR1
Analyzed by: see "By" below

Date

05/08/24
05/09/24

Time

12:05
10:40

Laboratory Data

SDG ID: GCQ69962
Phoenix ID: CQ69965

Project ID: USPS GREAT BARRINGTON
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/10/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2-Dibromoethane	ND	0.25	ug/L	1	05/10/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	05/10/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/10/24	MH	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	05/10/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	05/10/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	05/10/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Chloroform	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/10/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	05/10/24	MH	SW8260D
Dibromomethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	05/10/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Tetrachloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/10/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/10/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/10/24	MH	SW8260D
Trichloroethene	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	05/10/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/10/24	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	05/10/24	MH	70 - 130 %
% Dibromofluoromethane	106		%	1	05/10/24	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	05/10/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	50	ug/L	1	05/10/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	05/10/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

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



Phyllis Shiller, Laboratory Director

May 15, 2024

Reviewed and Released by: Ethan Lee, Project Manager



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

QA/QC Report

May 15, 2024

QA/QC Data

SDG I.D.: GCQ69962

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 731271 (ug/L), QC Sample No: CQ69962 (CQ69962, CQ69963, CQ69965)										
Volatiles - Water, Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	98	98	0.0				70 - 130	20
1,1,1-Trichloroethane	ND	1.0	93	103	10.2				70 - 130	20
1,1,2,2-Tetrachloroethane	ND	0.50	94	97	3.1				70 - 130	20
1,1,2-Trichloroethane	ND	1.0	94	95	1.1				70 - 130	20
1,1-Dichloroethane	ND	1.0	93	94	1.1				70 - 130	20
1,1-Dichloroethene	ND	1.0	93	94	1.1				70 - 130	20
1,1-Dichloropropene	ND	1.0	93	110	16.7				70 - 130	20
1,2,3-Trichlorobenzene	ND	1.0	96	100	4.1				70 - 130	20
1,2,3-Trichloropropane	ND	1.0	88	93	5.5				70 - 130	20
1,2,4-Trichlorobenzene	ND	1.0	98	101	3.0				70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	97	99	2.0				70 - 130	20
1,2-Dibromo-3-chloropropane	ND	1.0	83	87	4.7				70 - 130	20
1,2-Dibromoethane	ND	1.0	95	98	3.1				70 - 130	20
1,2-Dichlorobenzene	ND	1.0	100	103	3.0				70 - 130	20
1,2-Dichloroethane	ND	1.0	96	96	0.0				70 - 130	20
1,2-Dichloropropane	ND	1.0	96	99	3.1				70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	96	98	2.1				70 - 130	20
1,3-Dichlorobenzene	ND	1.0	98	101	3.0				70 - 130	20
1,3-Dichloropropane	ND	1.0	97	100	3.0				70 - 130	20
1,4-Dichlorobenzene	ND	1.0	100	103	3.0				70 - 130	20
1,4-dioxane	ND	100	98	103	5.0				40 - 160	20
2,2-Dichloropropane	ND	1.0	94	94	0.0				70 - 130	20
2-Chlorotoluene	ND	1.0	99	101	2.0				70 - 130	20
2-Hexanone	ND	5.0	87	90	3.4				40 - 160	20
2-Isopropyltoluene	ND	1.0	99	101	2.0				70 - 130	20
4-Chlorotoluene	ND	1.0	100	103	3.0				70 - 130	20
4-Methyl-2-pentanone	ND	5.0	87	91	4.5				40 - 160	20
Acetone	ND	5.0	82	78	5.0				40 - 160	20
Acrylonitrile	ND	5.0	80	80	0.0				70 - 130	20
Benzene	ND	0.70	102	103	1.0				70 - 130	20
Bromobenzene	ND	1.0	100	103	3.0				70 - 130	20
Bromochloromethane	ND	1.0	99	99	0.0				70 - 130	20
Bromodichloromethane	ND	0.50	95	97	2.1				70 - 130	20
Bromoform	ND	1.0	82	84	2.4				70 - 130	20
Bromomethane	ND	1.0	98	102	4.0				40 - 160	20
Carbon Disulfide	ND	1.0	92	92	0.0				70 - 130	20
Carbon tetrachloride	ND	1.0	110	123	11.2				70 - 130	20
Chlorobenzene	ND	1.0	101	104	2.9				70 - 130	20
Chloroethane	ND	1.0	104	104	0.0				70 - 130	20
Chloroform	ND	1.0	92	105	13.2				70 - 130	20
Chloromethane	ND	1.0	103	107	3.8				40 - 160	20

QA/QC Data

SDG I.D.: GCQ69962

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,2-Dichloroethene	ND	1.0	95	95	0.0				70 - 130	20
cis-1,3-Dichloropropene	ND	0.40	92	93	1.1				70 - 130	20
Dibromochloromethane	ND	0.50	90	92	2.2				70 - 130	20
Dibromomethane	ND	1.0	95	96	1.0				70 - 130	20
Dichlorodifluoromethane	ND	1.0	98	102	4.0				40 - 160	20
Di-isopropyl ether	ND	1.0	92	89	3.3				70 - 130	20
Ethyl ether	ND	1.0	84	83	1.2				70 - 130	20
Ethyl tert-butyl ether	ND	1.0	90	90	0.0				70 - 130	20
Ethylbenzene	ND	1.0	99	101	2.0				70 - 130	20
Hexachlorobutadiene	ND	0.40	97	96	1.0				70 - 130	20
Isopropylbenzene	ND	1.0	98	102	4.0				70 - 130	20
m&p-Xylene	ND	1.0	100	101	1.0				70 - 130	20
Methyl ethyl ketone	ND	5.0	80	101	23.2				40 - 160	20
Methyl t-butyl ether (MTBE)	ND	1.0	87	86	1.2				70 - 130	20
Methylene chloride	ND	1.0	94	88	6.6				70 - 130	20
Naphthalene	ND	1.0	87	92	5.6				70 - 130	20
n-Butylbenzene	ND	1.0	97	97	0.0				70 - 130	20
n-Propylbenzene	ND	1.0	98	100	2.0				70 - 130	20
o-Xylene	ND	1.0	97	99	2.0				70 - 130	20
p-Isopropyltoluene	ND	1.0	96	98	2.1				70 - 130	20
sec-Butylbenzene	ND	1.0	97	98	1.0				70 - 130	20
Styrene	ND	1.0	95	96	1.0				70 - 130	20
tert-amyl methyl ether	ND	1.0	90	93	3.3				70 - 130	20
tert-Butylbenzene	ND	1.0	96	98	2.1				70 - 130	20
Tetrachloroethene	ND	1.0	98	99	1.0				70 - 130	20
Tetrahydrofuran (THF)	ND	2.5	86	115	28.9				70 - 130	20
Toluene	ND	1.0	96	97	1.0				70 - 130	20
trans-1,2-Dichloroethene	ND	1.0	98	96	2.1				70 - 130	20
trans-1,3-Dichloropropene	ND	0.40	91	94	3.2				70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	88	91	3.4				70 - 130	20
Trichloroethene	ND	1.0	100	102	2.0				70 - 130	20
Trichlorofluoromethane	ND	1.0	99	101	2.0				70 - 130	20
Trichlorotrifluoroethane	ND	1.0	98	99	1.0				70 - 130	20
Vinyl chloride	ND	1.0	93	95	2.1				70 - 130	20
% 1,2-dichlorobenzene-d4	101	%	100	102	2.0				70 - 130	20
% Bromofluorobenzene	94	%	101	100	1.0				70 - 130	20
% Dibromofluoromethane	107	%	99	109	9.6				70 - 130	20
% Toluene-d8	99	%	99	99	0.0				70 - 130	20

Comment:

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

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.

The RPD criteria for the LCS/LCSD is 20%,

The MS/MSD RPD criteria is listed above.

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

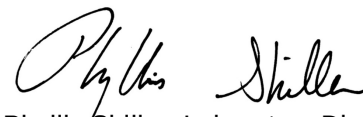
QA/QC Data

SDG I.D.: GCQ69962

Parameter	Blk		LCS	LCSD	LCS	MS	MSD	MS	% Rec	% RPD
	Blank	RL								
			%	%	RPD	%	%	RPD	Limits	Limits

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

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


Phyllis Shiller, Laboratory Director
May 15, 2024

Wednesday, May 15, 2024

Criteria: MA: CAM, GW1

State: MA

Sample Criteria Exceedances Report

GCQ69962 - AECOM-CHELM

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ69962	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	25		10	ug/L
CQ69962	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ69962	\$8260GWR	Tetrahydrofuran (THF)	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ69962	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ69962	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	0.25	0.02	0.02	ug/L
CQ69962	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	0.25	0.02	0.02	ug/L
CQ69962	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	50	0.3	0.3	ug/L
CQ69962	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	50	0.3	0.3	ug/L
CQ69963	\$8260GWR	Tetrahydrofuran (THF)	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ69963	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ69963	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	25		10	ug/L
CQ69963	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ69963	\$8260GWR	Trichloroethene	MA / CMR 310.40.1600 / GW-1 (mg/l)	37	1.0	5	5	ug/L
CQ69963	\$8260GWR	cis-1,2-Dichloroethene	MA / CMR 310.40.1600 / GW-1 (mg/l)	71	1.0	20	20	ug/L
CQ69963	\$8260GWR	Tetrachloroethene	MA / CMR 310.40.1600 / GW-1 (mg/l)	360	20	5	5	ug/L
CQ69963	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	0.25	0.02	0.02	ug/L
CQ69963	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	0.25	0.02	0.02	ug/L
CQ69963	\$8260GWR	Trichloroethene	MA / GROUNDWATER STANDARDS / GW-1	37	1.0	5	5	ug/L
CQ69963	\$8260GWR	Tetrachloroethene	MA / GROUNDWATER STANDARDS / GW-1	360	20	5	5	ug/L
CQ69963	\$8260GWR	cis-1,2-Dichloroethene	MA / GROUNDWATER STANDARDS / GW-1	71	1.0	70	70	ug/L
CQ69963	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	50	0.3	0.3	ug/L
CQ69963	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	50	0.3	0.3	ug/L
CQ69964	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ69964	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ69964	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	25		10	ug/L
CQ69964	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	0.25	0.02	0.02	ug/L
CQ69964	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	0.25	0.02	0.02	ug/L
CQ69964	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	50	0.3	0.3	ug/L
CQ69964	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	50	0.3	0.3	ug/L
CQ69965	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	25		10	ug/L
CQ69965	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ69965	\$8260GWR	Tetrahydrofuran (THF)	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CQ69965	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CQ69965	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	0.25	0.02	0.02	ug/L
CQ69965	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	0.25	0.02	0.02	ug/L
CQ69965	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	50	0.3	0.3	ug/L
CQ69965	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	50	0.3	0.3	ug/L

Wednesday, May 15, 2024

Criteria: MA: CAM, GW1

State: MA

Sample Criteria Exceedances Report

GCQ69962 - AECOM-CHELM

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

MassDEP Analytical Protocol Certification Form					
Laboratory Name: Phoenix Environmental Laboratories, Inc. Project #:					
Project Location: USPS GREAT BARRINGTON			RTN:		
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] CQ69962, CQ69963, CQ69964, CQ69965					
Matrices: ☒ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☒ Other: WATER					
CAM Protocol (check all that apply below)					
8260 VOC CAM II A ☒	7470/7471 Hg CAM III B ☐	MassDEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9012 Total Cyanide/PAC CAM V1 A ☐	6860 Perchlorate CAM VIII B ☐	
Affirmative responses to questions A through F are required for "Presumptive Certainty" status					
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature*) in the field or laboratory, and prepared/analyzed with method holding times? (* see narrative)			☒ Yes ☐ No	
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?			☒ Yes ☐ No	
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?			☒ Yes ☐ No	
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?			☒ Yes ☐ No	
E	a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 methods only: Was the complete analyte list reported for each method?			☐ Yes ☐ No ☐ Yes ☐ No	
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?			☒ Yes ☐ No	
Responses to questions G, H and I below is required for "Presumptive Certainty" status					
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?			☐ Yes ☒ No	
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056(2)(k) and WSC-07-350					
H	Were all QC performance standards specified in the CAM protocol(s) achieved? See Section: VOA Narration .			☐ Yes ☒ No	
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?			☒ Yes ☐ No	
<i>All negative responses must be addressed in an attached laboratory narrative.</i>					
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.					
Authorized Signature: _____		Date: Wednesday, May 15, 2024 Printed Name: Ethan Lee Position: Project Manager			



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



MCP Certification Report

May 15, 2024

SDG I.D.: GCQ69962

SDG Comments

8260 Analysis:

1,2-Dibromoethane doesn't meet GW-1 criteria, this compound is analyzed by GC/FID to achieve this criteria.

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

Phoenix reporting levels may exceed those referenced in the CAM protocol. Please refer to criteria sheet for comparisons to requested MCP standards.

VOA Narration

Were all QA/QC performance criteria specified in the MADEP document CAM achieved? No.

QC Batch 731271 (Samples: CQ69962, CQ69963, CQ69965): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Methyl ethyl ketone, Tetrahydrofuran (THF))

Instrument:

CHEM23 05/10/24-1

Michael Hahn, Chemist 05/10/24

CQ69962 (1X), CQ69963 (1X), CQ69965 (1X)

Initial Calibration Evaluation (CHEM23/VOA23_050624):

97% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 23% (20%), Diethyl ether 23% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Bromodichloromethane 0.283 (0.3), Ethylbenzene 0.399 (0.4)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM23/0510_02-VOA23_050624) (MCP Compliance):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

97% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Acrylonitrile 24%L (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: Bromodichloromethane 0.274 (0.3)

The following compounds did not meet the minimum MCP response factor of 0.05: Bromodichloromethane 0.283 (0.3)

CHEM23 05/13/24-1

Michael Hahn, Chemist 05/13/24

CQ69963 (20X), CQ69964 (1X)

Initial Calibration Evaluation (CHEM23/VOA23_050624):

97% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 23% (20%), Diethyl ether 23% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Bromodichloromethane 0.283 (0.3), Ethylbenzene 0.399 (0.4)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM23/0513_02-VOA23_050624) (MCP Compliance):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Bromoform 24%L (20%)



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MCP Certification Report

May 15, 2024

SDG I.D.: GCQ69962

VOA Narration

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.197 (0.2), Bromodichloromethane 0.272 (0.3)

The following compounds did not meet the minimum MCP response factor of 0.05: 1,1,2-Trichloroethane 0.212 (0.2), Bromodichloromethane 0.283 (0.3)

QC (Batch Specific):

Batch 731271 (CQ69962) CHEM23 5/10/2024-1

CQ69962(1X), CQ69963(1X), CQ69965(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: Methyl ethyl ketone(23.2%), Tetrahydrofuran (THF)(28.9%)

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

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.

The RPD criteria for the LCS/LCSD is 20%,

The MS/MSD RPD criteria is listed above.

We attest under the pains and penalties of perjury 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.

GCR 69962

Shannon Wilhelm

To: Rebecca Merz
Subject: RE: USPS Great Barrington OMM Samples

From: Harshman, Jeff <jeff.harshman@aecom.com>
Sent: Thursday, May 9, 2024 9:24 AM
To: Rebecca Merz <Rebeccam@phoenixlabs.com>
Cc: Matos, Raimundo <Raimundo.Matos@aecom.com>
Subject: USPS Great Barrington OMM Samples

Hi Rebecca:

I shipped the May 2024 OMM samples yesterday to Phoenix via overnight FedEx for delivery today (Thursday). I just realized that the date on the samples and COC is wrong: it should be 5.8.24 NOT 5.6.24. Please make the correction once you receive the samples. Let me know if you need anything else. Thanks!

Jeffrey K. Harshman, PG, STS
Senior Geologist, Environment, New England
D (603) 606-4815 M (603) 401-7322
jeff.harshman@aecom.com

AECOM
1155 Elm Street, Suite 401
Manchester, NH 03101, USA
T (603) 606-4800



Thursday, July 25, 2024

Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Project ID: USPS GREAT BARRINGTON
SDG ID: GCR22553
Sample ID#s: CR22553 - CR22556

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

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

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

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

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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



SDG Comments

July 25, 2024

SDG I.D.: GCR22553

8260 Analysis:

1,2-Dibromoethane doesn't meet GW-1 criteria, this compound is analyzed by GC/FID to achieve this criteria.

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

Phoenix reporting levels may exceed those referenced in the CAM protocol. Please refer to criteria sheet for comparisons to requested MCP standards.



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Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

July 25, 2024

SDG I.D.: GCR22553

Project ID: USPS GREAT BARRINGTON

Client Id	Lab Id	Matrix
TRIP BLANK	CR22553	WATER
INFLUENT	CR22554	GROUND WATER
MIDFLUENT	CR22555	GROUND WATER
EFFLUENT	CR22556	GROUND WATER



Environmental Laboratories, Inc.

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

Analysis Report

July 25, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21-2024

Custody Information

Collected by: JH
Received by: SR1
Analyzed by: see "By" below

Date

07/18/24

Time

12:08

Laboratory Data

SDG ID: GCR22553
Phoenix ID: CR22553

Project ID: USPS GREAT BARRINGTON
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	07/19/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,2-Dibromoethane	ND	0.25	ug/L	1	07/19/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	07/19/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	07/19/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	07/19/24	MH	SW8260D

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	07/19/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	07/19/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	07/19/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	07/19/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Chloroform	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	07/19/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	07/19/24	MH	SW8260D
Dibromomethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	07/19/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	07/19/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Tetrachloroethene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	07/19/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	07/19/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	07/19/24	MH	SW8260D
Trichloroethene	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	07/19/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	07/19/24	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	07/19/24	MH	70 - 130 %
% Dibromofluoromethane	89		%	1	07/19/24	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	91		%	1	07/19/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	40	ug/L	1	07/19/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	07/19/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	1.0	ug/L	1	07/19/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	07/19/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	07/19/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

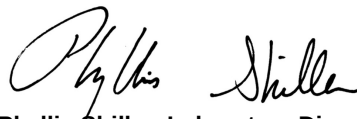
Comments:

TRIP BLANK INCLUDED.

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

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



Phyllis Shiller, Laboratory Director

July 25, 2024

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.

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

Analysis Report

July 25, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: GROUND WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21-2024

Custody Information

Collected by: JH
Received by: SR1
Analyzed by: see "By" below

Date

07/18/24
07/19/24

Time

11:30
12:08

Laboratory Data

SDG ID: GCR22553
Phoenix ID: CR22554

Project ID: USPS GREAT BARRINGTON
Client ID: INFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	07/20/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2-Dibromoethane	ND	0.25	ug/L	1	07/20/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	07/20/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	07/20/24	MH	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	07/20/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	07/20/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	07/20/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chloroform	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
cis-1,2-Dichloroethene	21	1.0	ug/L	1	07/20/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	07/20/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	07/20/24	MH	SW8260D
Dibromomethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	07/20/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Tetrachloroethene	74	5.0	ug/L	5	07/21/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	07/20/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	07/20/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
Trichloroethene	6.9	1.0	ug/L	1	07/20/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	07/20/24	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	07/20/24	MH	70 - 130 %
% Dibromofluoromethane	90		%	1	07/20/24	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	94		%	1	07/20/24	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (5x)	97		%	5	07/21/24	MH	70 - 130 %
% Bromofluorobenzene (5x)	100		%	5	07/21/24	MH	70 - 130 %
% Dibromofluoromethane (5x)	93		%	5	07/21/24	MH	70 - 130 %
% Toluene-d8 (5x)	88		%	5	07/21/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	40	ug/L	1	07/20/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

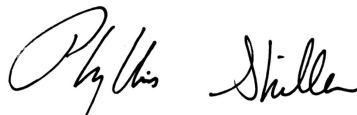
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

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



Phyllis Shiller, Laboratory Director

July 25, 2024

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.

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

Analysis Report

July 25, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: GROUND WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21-2024

Custody Information

Collected by: JH
Received by: SR1
Analyzed by: see "By" below

Date

07/18/24
07/19/24

Time

11:35
12:08

Laboratory Data

SDG ID: GCR22553
Phoenix ID: CR22555

Project ID: USPS GREAT BARRINGTON
Client ID: MIDFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	07/20/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2-Dibromoethane	ND	0.25	ug/L	1	07/20/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	07/20/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	07/20/24	MH	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	07/20/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	07/20/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	07/20/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chloroform	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
cis-1,2-Dichloroethene	2.1	1.0	ug/L	1	07/20/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	07/20/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	07/20/24	MH	SW8260D
Dibromomethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	07/20/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Tetrachloroethene	2.5	1.0	ug/L	1	07/20/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	07/20/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	07/20/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
Trichloroethene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	07/20/24	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	07/20/24	MH	70 - 130 %
% Dibromofluoromethane	93		%	1	07/20/24	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	91		%	1	07/20/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	40	ug/L	1	07/20/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

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



Phyllis Shiller, Laboratory Director

July 25, 2024

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.

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

Analysis Report

July 25, 2024

FOR: Attn: Raimundo Matos
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: GROUND WATER
Location Code: AECOM-CHELM
Rush Request: Standard
P.O.#: 60624296.21-2024

Custody Information

Collected by: JH
Received by: SR1
Analyzed by: see "By" below

Date

07/18/24
07/19/24

Time

11:40
12:08

Laboratory Data

SDG ID: GCR22553
Phoenix ID: CR22556

Project ID: USPS GREAT BARRINGTON
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	07/20/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2-Dibromoethane	ND	0.25	ug/L	1	07/20/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	07/20/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	07/20/24	MH	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	07/20/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	07/20/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	07/20/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chloroform	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	07/20/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	07/20/24	MH	SW8260D
Dibromomethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	07/20/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Tetrachloroethene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	07/20/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	07/20/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	07/20/24	MH	SW8260D
Trichloroethene	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	07/20/24	MH	SW8260D
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	07/20/24	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	07/20/24	MH	70 - 130 %
% Dibromofluoromethane	90		%	1	07/20/24	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	90		%	1	07/20/24	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	40	ug/L	1	07/20/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)
Di-isopropyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	07/20/24	MH	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

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



Phyllis Shiller, Laboratory Director

July 25, 2024

Reviewed and Released by: Ethan Lee, Project Manager



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

QA/QC Report

July 25, 2024

QA/QC Data

SDG I.D.: GCR22553

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 741293 (ug/L), QC Sample No: CR22112 (CR22553, CR22554, CR22555, CR22556)										
Volatiles - Water, Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	114	108	5.4				70 - 130	20
1,1,1-Trichloroethane	ND	1.0	95	89	6.5				70 - 130	20
1,1,2,2-Tetrachloroethane	ND	0.50	109	106	2.8				70 - 130	20
1,1,2-Trichloroethane	ND	1.0	104	101	2.9				70 - 130	20
1,1-Dichloroethane	ND	1.0	94	88	6.6				70 - 130	20
1,1-Dichloroethene	ND	1.0	95	88	7.7				70 - 130	20
1,1-Dichloropropene	ND	1.0	100	92	8.3				70 - 130	20
1,2,3-Trichlorobenzene	ND	1.0	119	113	5.2				70 - 130	20
1,2,3-Trichloropropane	ND	1.0	111	104	6.5				70 - 130	20
1,2,4-Trichlorobenzene	ND	1.0	118	110	7.0				70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	112	106	5.5				70 - 130	20
1,2-Dibromo-3-chloropropane	ND	1.0	123	113	8.5				70 - 130	20
1,2-Dibromoethane	ND	1.0	110	105	4.7				70 - 130	20
1,2-Dichlorobenzene	ND	1.0	111	106	4.6				70 - 130	20
1,2-Dichloroethane	ND	1.0	103	98	5.0				70 - 130	20
1,2-Dichloropropane	ND	1.0	104	98	5.9				70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	112	105	6.5				70 - 130	20
1,3-Dichlorobenzene	ND	1.0	110	105	4.7				70 - 130	20
1,3-Dichloropropane	ND	1.0	107	102	4.8				70 - 130	20
1,4-Dichlorobenzene	ND	1.0	110	105	4.7				70 - 130	20
1,4-dioxane	ND	100	117	108	8.0				40 - 160	20
2,2-Dichloropropane	ND	1.0	94	90	4.3				70 - 130	20
2-Chlorotoluene	ND	1.0	113	106	6.4				70 - 130	20
2-Hexanone	ND	5.0	106	99	6.8				40 - 160	20
2-Isopropyltoluene	ND	1.0	113	106	6.4				70 - 130	20
4-Chlorotoluene	ND	1.0	110	101	8.5				70 - 130	20
4-Methyl-2-pentanone	ND	5.0	102	97	5.0				40 - 160	20
Acetone	ND	5.0	98	97	1.0				40 - 160	20
Acrylonitrile	ND	5.0	98	96	2.1				70 - 130	20
Benzene	ND	0.70	103	95	8.1				70 - 130	20
Bromobenzene	ND	1.0	115	108	6.3				70 - 130	20
Bromochloromethane	ND	1.0	97	91	6.4				70 - 130	20
Bromodichloromethane	ND	0.50	106	101	4.8				70 - 130	20
Bromoform	ND	1.0	113	111	1.8				70 - 130	20
Bromomethane	ND	1.0	96	100	4.1				40 - 160	20
Carbon Disulfide	ND	1.0	100	91	9.4				70 - 130	20
Carbon tetrachloride	ND	1.0	93	86	7.8				70 - 130	20
Chlorobenzene	ND	1.0	110	103	6.6				70 - 130	20
Chloroethane	ND	1.0	89	82	8.2				70 - 130	20
Chloroform	ND	1.0	96	84	13.3				70 - 130	20
Chloromethane	ND	1.0	107	105	1.9				40 - 160	20

QA/QC Data

SDG I.D.: GCR22553

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,2-Dichloroethene	ND	1.0	95	93	2.1				70 - 130	20
cis-1,3-Dichloropropene	ND	0.40	103	97	6.0				70 - 130	20
Dibromochloromethane	ND	0.50	115	110	4.4				70 - 130	20
Dibromomethane	ND	1.0	95	102	7.1				70 - 130	20
Dichlorodifluoromethane	ND	1.0	98	91	7.4				40 - 160	20
Di-isopropyl ether	ND	1.0	95	92	3.2				70 - 130	20
Ethyl ether	ND	1.0	92	88	4.4				70 - 130	20
Ethyl tert-butyl ether	ND	1.0	99	94	5.2				70 - 130	20
Ethylbenzene	ND	1.0	110	102	7.5				70 - 130	20
Hexachlorobutadiene	ND	0.40	109	103	5.7				70 - 130	20
Isopropylbenzene	ND	1.0	114	105	8.2				70 - 130	20
m&p-Xylene	ND	1.0	108	102	5.7				70 - 130	20
Methyl ethyl ketone	ND	5.0	84	85	1.2				40 - 160	20
Methyl t-butyl ether (MTBE)	ND	1.0	96	93	3.2				70 - 130	20
Methylene chloride	ND	1.0	89	86	3.4				70 - 130	20
Naphthalene	ND	1.0	124	115	7.5				70 - 130	20
n-Butylbenzene	ND	1.0	110	103	6.6				70 - 130	20
n-Propylbenzene	ND	1.0	112	103	8.4				70 - 130	20
o-Xylene	ND	1.0	111	105	5.6				70 - 130	20
p-Isopropyltoluene	ND	1.0	112	103	8.4				70 - 130	20
sec-Butylbenzene	ND	1.0	110	102	7.5				70 - 130	20
Styrene	ND	1.0	111	105	5.6				70 - 130	20
tert-amyl methyl ether	ND	1.0	106	100	5.8				70 - 130	20
tert-Butylbenzene	ND	1.0	112	105	6.5				70 - 130	20
Tetrachloroethene	ND	1.0	106	98	7.8				70 - 130	20
Tetrahydrofuran (THF)	ND	2.5	88	86	2.3				70 - 130	20
Toluene	ND	1.0	105	98	6.9				70 - 130	20
trans-1,2-Dichloroethene	ND	1.0	96	90	6.5				70 - 130	20
trans-1,3-Dichloropropene	ND	0.40	103	99	4.0				70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	98	94	4.2				70 - 130	20
Trichloroethene	ND	1.0	108	98	9.7				70 - 130	20
Trichlorofluoromethane	ND	1.0	89	83	7.0				70 - 130	20
Trichlorotrifluoroethane	ND	1.0	90	85	5.7				70 - 130	20
Vinyl chloride	ND	1.0	95	89	6.5				70 - 130	20
% 1,2-dichlorobenzene-d4	98	%	100	102	2.0				70 - 130	20
% Bromofluorobenzene	98	%	99	100	1.0				70 - 130	20
% Dibromofluoromethane	90	%	95	93	2.1				70 - 130	20
% Toluene-d8	90	%	100	98	2.0				70 - 130	20

Comment:

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

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.

The RPD criteria for the LCS/LCSD is 20%,

The MS/MSD RPD criteria is listed above.

QA/QC Batch 741467 (ug/L), QC Sample No: CR22898 (CR22554 (5X))

Volatiles - Ground Water

Tetrachloroethene	ND	1.0	104	99	4.9				70 - 130	20
% 1,2-dichlorobenzene-d4	97	%	98	101	3.0				70 - 130	20
% Bromofluorobenzene	97	%	97	99	2.0				70 - 130	20
% Dibromofluoromethane	90	%	86	92	6.7				70 - 130	20
% Toluene-d8	85	%	95	95	0.0				70 - 130	20

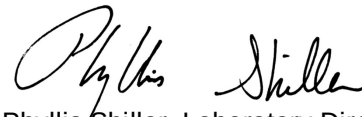
QA/QC Data

SDG I.D.: GCR22553

Parameter	Blank	Blk	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	%	%
		RL							Rec Limits	RPD Limits
Comment:										
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.										
Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.										
The RPD criteria for the LCS/LCSD is 20%,										
The MS/MSD RPD criteria is listed above.										

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

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


Phyllis Shiller, Laboratory Director
July 25, 2024

Thursday, July 25, 2024

Criteria: MA: CAM, GW1

State: MA

Sample Criteria Exceedances Report

GCR22553 - AECOM-CHELM

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CR22553	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	25		10	ug/L
CR22553	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CR22553	\$8260GWR	Tetrahydrofuran (THF)	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CR22553	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CR22553	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	0.25	0.02	0.02	ug/L
CR22553	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	0.25	0.02	0.02	ug/L
CR22553	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	40	0.3	0.3	ug/L
CR22553	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	40	0.3	0.3	ug/L
CR22554	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	25		10	ug/L
CR22554	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CR22554	\$8260GWR	Tetrahydrofuran (THF)	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CR22554	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CR22554	\$8260GWR	Tetrachloroethene	MA / CMR 310.40.1600 / GW-1 (mg/l)	74	5.0	5	5	ug/L
CR22554	\$8260GWR	cis-1,2-Dichloroethene	MA / CMR 310.40.1600 / GW-1 (mg/l)	21	1.0	20	20	ug/L
CR22554	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	0.25	0.02	0.02	ug/L
CR22554	\$8260GWR	Trichloroethene	MA / CMR 310.40.1600 / GW-1 (mg/l)	6.9	1.0	5	5	ug/L
CR22554	\$8260GWR	Tetrachloroethene	MA / GROUNDWATER STANDARDS / GW-1	74	5.0	5	5	ug/L
CR22554	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	0.25	0.02	0.02	ug/L
CR22554	\$8260GWR	Trichloroethene	MA / GROUNDWATER STANDARDS / GW-1	6.9	1.0	5	5	ug/L
CR22554	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	40	0.3	0.3	ug/L
CR22554	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	40	0.3	0.3	ug/L
CR22555	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CR22555	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	25		10	ug/L
CR22555	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CR22555	\$8260GWR	Tetrahydrofuran (THF)	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CR22555	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	0.25	0.02	0.02	ug/L
CR22555	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	0.25	0.02	0.02	ug/L
CR22555	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	40	0.3	0.3	ug/L
CR22555	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	40	0.3	0.3	ug/L
CR22556	\$8260GWR	Acetone	MA / CAM Protocol / VOA AQ RL	ND	25		10	ug/L
CR22556	\$8260GWR	Carbon Disulfide	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CR22556	\$8260GWR	Tetrahydrofuran (THF)	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CR22556	\$8260GWR	trans-1,4-dichloro-2-butene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CR22556	\$8260GWR	1,2-Dibromoethane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	0.25	0.02	0.02	ug/L
CR22556	\$8260GWR	1,2-Dibromoethane	MA / GROUNDWATER STANDARDS / GW-1	ND	0.25	0.02	0.02	ug/L
CR22556	\$MCPADD-WM	1,4-Dioxane	MA / CMR 310.40.1600 / GW-1 (mg/l)	ND	40	0.3	0.3	ug/L
CR22556	\$MCPADD-WM	1,4-Dioxane	MA / GROUNDWATER STANDARDS / GW-1	ND	40	0.3	0.3	ug/L

Thursday, July 25, 2024

Criteria: MA: CAM, GW1
State: MA

Sample Criteria Exceedances Report

GCR22553 - AECOM-CHELM

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

MassDEP Analytical Protocol Certification Form					
Laboratory Name: Phoenix Environmental Laboratories, Inc. Project #:					
Project Location: USPS GREAT BARRINGTON RTN:					
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] CR22553, CR22554, CR22555, CR22556					
Matrices: ☒ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☒ Other: WATER					
CAM Protocol (check all that apply below)					
8260 VOC CAM II A ☒	7470/7471 Hg CAM III B ☐	MassDEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9012 Total Cyanide/PAC CAM V1 A ☐	6860 Perchlorate CAM VIII B ☐	
Affirmative responses to questions A through F are required for "Presumptive Certainty" status					
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature*) in the field or laboratory, and prepared/analyzed with method holding times? (* see narrative)			☒ Yes ☐ No	
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?			☒ Yes ☐ No	
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?			☒ Yes ☐ No	
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?			☒ Yes ☐ No	
E	a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 methods only: Was the complete analyte list reported for each method?			☐ Yes ☐ No ☐ Yes ☐ No	
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?			☒ Yes ☐ No	
Responses to questions G, H and I below is required for "Presumptive Certainty" status					
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?			☐ Yes ☒ No	
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056(2)(k) and WSC-07-350					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?			☒ Yes ☐ No	
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?			☒ Yes ☐ No	
<i>All negative responses must be addressed in an attached laboratory narrative.</i>					
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.					
Authorized Signature: <u>Ethan Lee</u> Date: Thursday, July 25, 2024 Printed Name: Ethan Lee Position: Project Manager					



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



MCP Certification Report

July 25, 2024

SDG I.D.: GCR22553

SDG Comments

8260 Analysis:

1,2-Dibromoethane doesn't meet GW-1 criteria, this compound is analyzed by GC/FID to achieve this criteria.

8260 Analysis:

1,4-Dioxane doesn't meet GW-1 criteria, this compound is analyzed by 8270SIM to achieve this criteria.

Phoenix reporting levels may exceed those referenced in the CAM protocol. Please refer to criteria sheet for comparisons to requested MCP standards.

VOA Narration

Were all QA/QC performance criteria specified in the MADEP document CAM achieved? Yes.

Instrument:

CHEM17 07/19/24-1

Michael Hahn, Chemist 07/19/24

CR22553 (1X), CR22554 (1X), CR22555 (1X), CR22556 (1X)

Chem 17 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.

EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM17/VT-071024):

98% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 28% (20%), Bromomethane 22% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.169 (0.2), 1,2,3-Trichlorobenzene 0.360 (0.4), 1,2-Dibromoethane 0.151 (0.2), Bromoform 0.065 (0.1), Dibromochloromethane 0.162 (0.2), Tetrahydrofuran (THF) 0.039 (0.05), trans-1,3-Dichloropropene 0.284 (0.3)

The following compounds did not meet the minimum response factor of 0.05: 1,2-Dibromo-3-chloropropane 0.034 (0.05), Acetone 0.037 (0.05), Tetrahydrofuran (THF) 0.039 (0.05)

Continuing Calibration Verification (CHEM17/0719_02-VT-071024) (MCP Compliance):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

97% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 1,2-Dibromo-3-chloropropane 21%H (20%), Bromomethane 31%L (20%), Naphthalene 21%H (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.171 (0.2), 1,2-Dibromoethane 0.159 (0.2), Bromoform 0.072 (0.1), Dibromochloromethane 0.183 (0.2), Tetrahydrofuran (THF) 0.032 (0.05), trans-1,3-Dichloropropene 0.281 (0.3)

The following compounds did not meet the minimum MCP response factor of 0.05: 1,1,2-Trichloroethane 0.169 (0.2), 1,2-Dibromoethane 0.151 (0.2), Bromoform 0.065 (0.1), Dibromochloromethane 0.162 (0.2), Tetrahydrofuran (THF) 0.039 (0.05), trans-1,3-Dichloropropene 0.284 (0.3)

CHEM17 07/20/24-1

Michael Hahn, Chemist 07/20/24

CR22554 (5X)

Chem 17 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.

EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM17/VT-071024):

98% of target compounds met criteria.



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



MCP Certification Report

July 25, 2024

SDG I.D.: GCR22553

VOA Narration

The following compounds had %RSDs >20%: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM17/0720_02-VT-071024) (MCP Compliance):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum MCP response factor of 0.05: None.

QC (Batch Specific):

Batch 741293 (CR22112) CHEM17 7/19/2024-1

CR22553(1X), CR22554(1X), CR22555(1X), CR22556(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.
The RPD criteria for the LCS/LCSD is 20%,
The MS/MSD RPD criteria is listed above.

Batch 741467 (CR22898) CHEM17 7/20/2024-1

CR22554(5X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 10%.
The RPD criteria for the LCS/LCSD is 20%,
The MS/MSD RPD criteria is listed above.

We attest under the pains and penalties of perjury 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.

Form Approved, OMB No. 2050-0039

DESIGNATED FACILITY	TRANSPORTER	INT'L	GENERATOR
	→		←

ATTACHMENT D

Office Workers Imminent Hazard - Indoor Air: Table OAIH-1 Basement Indoor Air Exposure Point Concentration (EPC)

Based on Office Workers' Exposure (5 Years for Cancer and Noncancer)

ELCR (all chemicals) = 5.0E-06

HI (all chemicals) = 1.8E+00

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (µg/m³)	ELCR _{air}	HQ _{air}	Notes
ACETONE	3.5E+00		1.0E-03	
BENZENE	2.8E-01	3.6E-08	2.1E-02	
DICHLOROETHYLENE, CIS-1,2-	6.8E+00		2.2E-01	
DICHLOROETHYLENE, TRANS-1,2-	9.8E-02		3.2E-04	
ETHYLBENZENE	1.5E-01		3.4E-05	
DICHLOROMETHANE	4.6E-01	7.5E-11	1.8E-04	
TETRACHLOROETHYLENE	9.1E+01	4.5E-06	5.2E-01	
TOLUENE	6.0E-01		2.7E-05	
TRICHLOROETHYLENE	6.8E+00	4.6E-07	7.8E-01	For pregnant women, the occupational IH concentration is 24 µg/m3. For all others, IH HQ is 10. See TCE tabs and links.
XYLENES (Mixed Isomers)	7.1E-01		1.6E-03	
NAPHTHALENE	3.3E+00		2.5E-01	
VINYL CHLORIDE	6.0E-02	4.3E-09	1.4E-04	
TRICHLOROETHANE, 1,1,1-	5.9E-02		2.7E-06	

Office Workers Imminent Hazard - Indoor Air: Table OAIH-2

Equations to Calculate Cancer Risk

Method 3 Lookup Tables Version v0624

Cancer Risk from Inhalation

$$\text{ELCR} = \text{LADE} * \text{URF}$$

$$\text{LADE} = \frac{[\text{OHM}]_{\text{air}} * \text{EF}_c * \text{ED} * \text{EP}_c}{\text{AP}_{\text{lifetime}}}$$

Exposure Factor	Value	Units
URF	OHM specific	$(\mu\text{g}/\text{m}^3)^{-1}$
LADE	OHM specific	$\mu\text{g}/\text{m}^3$
$[\text{OHM}]_{\text{air}}$	OHM specific	$\mu\text{g}/\text{m}^3$
EF_c	0.687	event/day
ED	0.333	day/event
EP_c	5	years
$\text{AP}_{\text{lifetime}}$	70	years

Office Workers Imminent Hazard - Indoor Air: Table OAIH-2A

Equations to Calculate Trichloroethylene Cancer Risk Trichloroethylene

Method 3 Lookup Tables Version v0624

Cancer Risk from Inhalation

$$\text{ELCR}^{\text{total}} = \text{ELCR}^{\text{mut}} + \text{ELCR}^{\text{nonmut}}$$

TCE has mutagenic effects on kidney and non-mutagenic effects on liver and non-hodgkins lymphoma (NHL).

$$\text{ELCR}^{\text{mut}} = \text{LADE} * \text{URF}^{\text{mut}}$$

$$\text{ELCR}^{\text{nonmut}} = \text{LADE} * \text{URF}^{\text{nonmut}}$$

$$\text{LADE} = \frac{[\text{OHM}]_{\text{air}} * \text{EF}_c * \text{ED} * \text{EP}_c}{\text{AP}_{\text{lifetime}}}$$

Parameter	Value	Units
URF	OHM-specific	($\mu\text{g}/\text{m}^3$) ⁻¹
LADE	age/OHM-specific	$\mu\text{g}/\text{m}^3$
[OHM] _{air}	OHM specific	$\mu\text{g}/\text{m}^3$
EF _c	0.687	event/day
ED	0.333	day/event
EP _c	5	years
AP _{lifetime}	70	years

Trichloroethylene

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material (OHM)	EPC ($\mu\text{g}/\text{m}^3$)
Trichloroethylene	6.8E+00

Fact Sheet, TCE Toxicity Information: Implications for Chronic and Shorter-Term Exposure, August 15, 2014
(published January 23, 2013, revised 4/18/13 and 3/27/2014).

<https://www.mass.gov/doc/tce-toxicity-information-implications-for-chronic-and-shorter-term-exposure-fact-sheet/download>

Office Workers Imminent Hazard - Indoor Air: Table OAIH-5a Chemical-Specific Data

Oil or Hazardous Material	Non-Mutagenic (Liver and NHL) URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Mutagenic (Kidney) URF ($\mu\text{g}/\text{m}^3$) ⁻¹	RfC mg/m^3
Trichloroethylene	3.10E-06	1.00E-06	2.00E-03

Excess Lifetime Cancer Risk (ELCR) Calculations

Oil or Hazardous Material	EPC ($\mu\text{g}/\text{m}^3$)	Non-Mutagenic Effect	Mutagenic Effect	Total ELCR _{air}
		(Liver and NHL) ELCR _{air}	(Kidney) ELCR _{air}	
Trichloroethylene	6.8E+00	3.4E-07	1.1E-07	4.6E-07

Office Workers Imminent Hazard - Indoor Air: Table OAIH-3

Equations to Calculate Noncancer Risk

Method 3 Lookup Tables Version v0624

Noncancer Risk from Inhalation

$$HQ = \frac{ADE}{RfC}$$

$$ADE = \frac{[OHM]_{air} * EF_{nc} * ED * EP_{nc} * C}{AP}$$

Exposure Factor	Value	Units
RfC	OHM specific	mg/m ³
ADE	OHM specific	mg/m ³
[OHM] _{air}	OHM specific	µg/m ³
EF _{nc}	0.687	event/day
ED	0.333	day/event
EP _{nc}	5	years
C	0.001	mg/µg
AP	5	year

Office Workers Imminent Hazard - Indoor Air: Table OAIH-4 Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	See Table OAIH-2 and OAIH-2a.
URF - Unit Risk Factor	chemical specific	$(\mu\text{g}/\text{m}^3)^{-1}$	Risk per concentration unit. See Table OAIH-5 and OSAI-5a.
LADE - Lifetime Average Daily Exposure	chemical specific	$\mu\text{g}/\text{m}^3$	See Table OAIH-2 and OAIH-2a.
HQ - Hazard Quotient	chemical specific	dimensionless	Ratio of ADE to reference concentration.
RfC - Reference Concentration	chemical specific	mg/m^3	See Table OAIH-5 and OAIH-5a.
ADE - Average Daily Exposure	chemical specific	mg/m^3	See Table OAIH-3.
EPC - Exposure Point Concentration	chemical specific	$\mu\text{g}/\text{m}^3$	See Table OAIH-1.
EF - Exposure Frequency for cancer and noncancer	0.687	event/day	5 of 7 days in a week, 50 weeks per year out of 52 weeks.
ED - Exposure Duration	0.333	day/event	8 of 24 hours in a day.
EP _{nc} - Exposure Period for noncancer	5	year	MCP Method 1 Standards.
EP _c - Exposure Period for cancer	5	year	
AP - Averaging Period for noncancer	5	year	
AP _{lifetime} - Averaging Period for lifetime for cancer	70	year	

Office Workers and Office Workers Imminent Hazard - Indoor Air: Table OAIH-5 Chemical-Specific Data

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	URF ($\mu\text{g}/\text{m}^3$) ⁻¹	RfC mg/m^3	Notes
ACETONE		8.00E-01	
BENZENE	7.80E-06	3.00E-03	
DICHLOROETHYLENE, CIS-1,2-		7.00E-03	
DICHLOROETHYLENE, TRANS-1,2-		7.00E-02	
ETHYLBENZENE		1.00E+00	
DICHLOROMETHANE	1.00E-08	6.00E-01	
TETRACHLOROETHYLENE	3.00E-06	4.00E-02	
TOLUENE		5.00E+00	
TRICHLOROETHYLENE		2.00E-03	TCE has two URF values; see TCE C Tab!
XYLENES (Mixed Isomers)		1.00E-01	
NAPHTHALENE		3.00E-03	
VINYL CHLORIDE	4.40E-06	1.00E-01	
TRICHLOROETHANE, 1,1,1-		5.00E+00	

Office Workers or Teachers and Students in K-12 - Indoor Air: Table OSA-1**Basement Indoor Air Exposure Point Concentration (EPC)****Based on an Office Worker or Teacher Exposure in K-12 in Schools (27 Years for Cancer and 7 Years for Noncancer)***

Shortforms Version June 2024

Method 3 Lookup Tables Version v0624

ELCR (all chemicals) = 2.0E-06**HI (all chemicals) = 1.3E-01****Risk-based concentrations are protective of students.*****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC ($\mu\text{g}/\text{m}^3$)	ELCR _{air}	HQ _{air}	Notes
ACETONE	3.5E+00		7.5E-05	
BENZENE	2.8E-01	1.4E-08	1.6E-03	
DICHLOROETHYLENE, CIS-1,2-	6.8E+00		1.7E-02	
DICHLOROETHYLENE, TRANS-1,2-	9.8E-02		2.4E-05	
ETHYLBENZENE	1.5E-01		2.6E-06	
DICHLOROMETHANE	4.6E-01	3.0E-11	1.3E-05	
TETRACHLOROETHYLENE	9.1E+01	1.8E-06	3.9E-02	
TOLUENE	6.0E-01		2.1E-06	
TRICHLOROETHYLENE	6.8E+00	1.8E-07	5.8E-02	ELCR calculations are on the "TCE C" tab.
XYLENES (Mixed Isomers)	7.1E-01		1.2E-04	
NAPHTHALENE	3.3E+00		1.9E-02	
VINYL CHLORIDE	6.0E-02	1.7E-09	1.0E-05	
TRICHLOROETHANE, 1,1,1-	5.9E-02		2.0E-07	

Office Workers or Teachers and Students in K-12 - Indoor Air: Table OSA-2

Equations to Calculate Cancer Risk

Method 3 Lookup Tables Version v0624

Cancer Risk from Inhalation

$$ELCR = LADE * URF$$

$$LADE = \frac{[OHM]_{air} * EF * ED * EP_c}{AP_{lifetime}}$$

Exposure Factor	Value	Units
URF	OHM specific	$(\mu\text{g}/\text{m}^3)^{-1}$
LADE	OHM specific	$\mu\text{g}/\text{m}^3$
$[OHM]_{air}$	OHM specific	$\mu\text{g}/\text{m}^3$
EF	0.412	event/day
ED	0.042	day/event
EP_c	7	years
$AP_{lifetime}$	70	years

Office Workers or Teachers and Students in K-12 - Indoor Air:
Table OSA-2a
Equations to Calculate Cancer Risk

Trichloroethylene

Method 3 Lookup Tables Version v0624

Cancer Risk from Inhalation

$$\text{ELCR}^{\text{total}} = \text{ELCR}^{\text{mut}} + \text{ELCR}^{\text{nonmut}}$$

TCE has mutagenic effects on kidney and non-mutagenic effects on liver and non-hodgkins lymphoma (NHL).

$$\text{ELCR}^{\text{mut}} = \text{LADE} * \text{URF}^{\text{mut}}$$

$$\text{ELCR}^{\text{nonmut}} = \text{LADE} * \text{URF}^{\text{nonmut}}$$

$$\text{LADE} = \frac{[\text{OHM}]_{\text{air}} * \text{EF} * \text{ED} * \text{EP}_c}{\text{AP}_{\text{lifetime}}}$$

Parameter	Value	Units
URF	OHM-specific	$(\mu\text{g}/\text{m}^3)^{-1}$
LADE	age/OHM-specific	$\mu\text{g}/\text{m}^3$
$[\text{OHM}]_{\text{air}}$	OHM specific	$\mu\text{g}/\text{m}^3$
EF	0.412	event/day
ED	0.042	day/event
EP_c	27	years
$\text{AP}_{\text{lifetime}}$	70	years

Trichloroethylene

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material (OHM)	EPC ($\mu\text{g}/\text{m}^3$)
Trichloroethylene	6.8E+00

Fact Sheet, TCE Toxicity Information: Implications for Chronic and Shorter-Term Exposure, August 15, 2014
(published January 23, 2013, revised 4/18/13 and 3/27/2014).

<https://www.mass.gov/doc/tce-toxicity-information-implications-for-chronic-and-shorter-term-exposure-fact-sheet/download>

Office Workers or Teachers and Students in K-12 - Indoor Air: Table OSA-5a

Chemical-Specific Data

Oil or Hazardous Material	Non-Mutagenic (Liver and NHL) URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Mutagenic (Kidney) URF ($\mu\text{g}/\text{m}^3$) ⁻¹	RfC mg/m ³
Trichloroethylene	3.10E-06	1.00E-06	2.00E-03

Excess Lifetime Cancer Risk (ELCR) Calculations

Oil or Hazardous Material	EPC ($\mu\text{g}/\text{m}^3$)	Non-Mutagenic Effect	Mutagenic Effect	Total ELCR _{air}
		(Liver and NHL) ELCR _{air}	(Kidney) ELCR _{air}	
Trichloroethylene	6.8E+00	1.4E-07	4.5E-08	1.8E-07

Office Workers or Teachers and Students in K-12 - Indoor Air:
Table OSA-3
Equations to Calculate Noncancer Risk

Method 3 Lookup Tables Version v0624

Noncancer Risk from Inhalation

$$HQ = \frac{ADE}{RfC}$$

$$ADE = \frac{[OHM]_{air} * EF * ED * EP_{nc} * C}{AP_{nc}}$$

Exposure Factor	Value	Units
RfC	OHM specific	mg/m ³
ADE	OHM specific	mg/m ³
[OHM] _{air}	OHM specific	µg/m ³
EF	0.412	event/day
ED	0.042	day/event
EP _{nc}	7	years
C	0.001	mg/µg
AP _{nc}	7	year

Office Workers or Teachers and Students in K-12 - Indoor Air:
Table OSA-4
Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	See Table OSA-2, and OSA-2a.
URF - Unit Risk Factor	chemical specific	$(\mu\text{g}/\text{m}^3)^{-1}$	Risk per concentration unit. See Table OSA-5 and OSA-5a.
LADE - Lifetime Average Daily Exposure	chemical specific	$\mu\text{g}/\text{m}^3$	See Table OSA-2, and OSA-2a.
HQ - Hazard Quotient	chemical specific	dimensionless	Ratio of ADE to reference concentration.
RfC - Reference Concentration	chemical specific	mg/m^3	See Table OSA-5, and OSA-5a.
ADE - Average Daily Exposure	chemical specific	mg/m^3	See Table OSA-3.
EPC - Exposure Point Concentration	chemical specific	$\mu\text{g}/\text{m}^3$	See Table OSA-1.
EF - Exposure Frequency	0.412	event/day	3 of 7 days in a week, and 50 weeks out of 52 weeks per year.
ED - Exposure Duration	0.042	day/event	1 of 24 hours in a day.
EP_{nc} - Exposure Period for Noncancer	7	year	MCP Method 1 Standards.
EP_{c} - Exposure Period for Cancer	27	year	
AP_{nc} - Averaging Period for noncancer	7	year	
$\text{AP}_{\text{lifetime}}$ - Averaging Period for lifetime	70	year	

Office Workers or Teachers and Students in K-12 - Indoor Air: Table OSA-5

Chemical-Specific Data

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	URF ($\mu\text{g}/\text{m}^3$) ⁻¹	RfC mg/m^3	Notes
ACETONE		8.00E-01	
BENZENE	7.80E-06	3.00E-03	
DICHLOROETHYLENE, CIS-1,2-		7.00E-03	
DICHLOROETHYLENE, TRANS-1,2-		7.00E-02	
ETHYLBENZENE		1.00E+00	
DICHLOROMETHANE	1.00E-08	6.00E-01	
TETRACHLOROETHYLENE	3.00E-06	4.00E-02	
TOLUENE		5.00E+00	
TRICHLOROETHYLENE		2.00E-03	See TCE C Tab!
XYLENES (Mixed Isomers)		1.00E-01	
NAPHTHALENE		3.00E-03	
VINYL CHLORIDE	4.40E-06	1.00E-01	
TRICHLOROETHANE, 1,1,1-		5.00E+00	

Office Workers or Teachers and Students in K-12 - Indoor Air: Table OSA-1**First Floor Indoor Air Exposure Point Concentration (EPC)****Based on an Office Worker or Teacher Exposure in K-12 in Schools (27 Years for Cancer and 7 Years for Noncancer)***

Shortforms Version June 2024

Method 3 Lookup Tables Version v0624

ELCR (all chemicals) = 1.2E-05**HI (all chemicals) = 6.7E-01****Risk-based concentrations are protective of students.*****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC ($\mu\text{g}/\text{m}^3$)	ELCR _{air}	HQ _{air}	Notes
ACETONE	1.7E+01		4.9E-03	
BENZENE	7.5E-01	5.2E-07	5.7E-02	
CARBON TETRACHLORIDE	3.1E-01	1.6E-07	7.1E-04	
CHLOROFORM	3.7E+00	7.5E-06	1.3E-03	
DICHLOROETHANE, 1,2-	7.3E-02	1.7E-07	2.4E-03	
DICHLOROETHYLENE, CIS-1,2-	7.9E-01		2.6E-02	
ETHYLBENZENE	7.2E-01		1.6E-04	
METHYL TERT BUTYL ETHER	7.5E-02		5.7E-06	
DICHLOROMETHANE	6.9E-01	6.1E-10	2.6E-04	
STYRENE	6.7E-01	3.4E-08	1.5E-04	
TETRACHLOROETHYLENE	1.2E+01	3.2E-06	6.9E-02	
TOLUENE	8.4E+00		3.8E-04	
TRICHLOROETHANE, 1,1,1-	1.4E-01		6.4E-06	
TRICHLOROETHYLENE	8.8E-01	3.2E-07	1.0E-01	ELCR calculations are on the "TCE C" tab.

Office Workers or Teachers and Students in K-12 - Indoor Air: Table OSA-1**First Floor Indoor Air Exposure Point Concentration (EPC)****Based on an Office Worker or Teacher Exposure in K-12 in Schools (27 Years for Cancer and 7 Years for Noncancer)*****Risk-based concentrations are protective of students.*****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

ELCR (all chemicals) = 1.2E-05**HI (all chemicals) = 6.7E-01**

Oil or Hazardous Material	EPC ($\mu\text{g}/\text{m}^3$)	ELCR_{air}	HQ_{air}	Notes
XYLENES (Mixed Isomers)	3.0E+00		6.8E-03	
NAPHTHALENE	5.2E+00		4.0E-01	

Office Workers or Teachers and Students in K-12 - Indoor Air: Table OSA-2

Equations to Calculate Cancer Risk

Method 3 Lookup Tables Version v0624

Cancer Risk from Inhalation

$$ELCR = LADE * URF$$

$$LADE = \frac{[OHM]_{air} * EF * ED * EP_c}{AP_{lifetime}}$$

Exposure Factor	Value	Units
URF	OHM specific	$(\mu\text{g}/\text{m}^3)^{-1}$
LADE	OHM specific	$\mu\text{g}/\text{m}^3$
$[OHM]_{air}$	OHM specific	$\mu\text{g}/\text{m}^3$
EF	0.687	event/day
ED	0.333	day/event
EP_c	7	years
$AP_{lifetime}$	70	years

Office Workers or Teachers and Students in K-12 - Indoor Air:
Table OSA-2a
Equations to Calculate Cancer Risk

Trichloroethylene

Method 3 Lookup Tables Version v0624

Cancer Risk from Inhalation

$$\text{ELCR}^{\text{total}} = \text{ELCR}^{\text{mut}} + \text{ELCR}^{\text{nonmut}}$$

TCE has mutagenic effects on kidney and non-mutagenic effects on liver and non-hodgkins lymphoma (NHL).

$$\text{ELCR}^{\text{mut}} = \text{LADE} * \text{URF}^{\text{mut}}$$

$$\text{ELCR}^{\text{nonmut}} = \text{LADE} * \text{URF}^{\text{nonmut}}$$

$$\text{LADE} = \frac{[\text{OHM}]_{\text{air}} * \text{EF} * \text{ED} * \text{EP}_c}{\text{AP}_{\text{lifetime}}}$$

Parameter	Value	Units
URF	OHM-specific	$(\mu\text{g}/\text{m}^3)^{-1}$
LADE	age/OHM-specific	$\mu\text{g}/\text{m}^3$
$[\text{OHM}]_{\text{air}}$	OHM specific	$\mu\text{g}/\text{m}^3$
EF	0.687	event/day
ED	0.333	day/event
EP_c	27	years
$\text{AP}_{\text{lifetime}}$	70	years

Trichloroethylene

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material (OHM)	EPC ($\mu\text{g}/\text{m}^3$)
Trichloroethylene	8.8E-01

Fact Sheet, TCE Toxicity Information: Implications for Chronic and Shorter-Term Exposure, August 15, 2014
(published January 23, 2013, revised 4/18/13 and 3/27/2014).

<https://www.mass.gov/doc/tce-toxicity-information-implications-for-chronic-and-shorter-term-exposure-fact-sheet/download>

Office Workers or Teachers and Students in K-12 - Indoor Air: Table OSA-5a

Chemical-Specific Data

Oil or Hazardous Material	Non-Mutagenic (Liver and NHL) URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Mutagenic (Kidney) URF ($\mu\text{g}/\text{m}^3$) ⁻¹	RfC mg/m ³
Trichloroethylene	3.10E-06	1.00E-06	2.00E-03

Excess Lifetime Cancer Risk (ELCR) Calculations

Oil or Hazardous Material	EPC ($\mu\text{g}/\text{m}^3$)	Non-Mutagenic Effect	Mutagenic Effect	Total ELCR _{air}
		(Liver and NHL) ELCR _{air}	(Kidney) ELCR _{air}	
Trichloroethylene	8.8E-01	2.4E-07	7.8E-08	3.2E-07

Office Workers or Teachers and Students in K-12 - Indoor Air:
Table OSA-3
Equations to Calculate Noncancer Risk

Method 3 Lookup Tables Version v0624

Noncancer Risk from Inhalation

$$HQ = \frac{ADE}{RfC}$$

$$ADE = \frac{[OHM]_{air} * EF * ED * EP_{nc} * C}{AP_{nc}}$$

Exposure Factor	Value	Units
RfC	OHM specific	mg/m ³
ADE	OHM specific	mg/m ³
[OHM] _{air}	OHM specific	µg/m ³
EF	0.687	event/day
ED	0.333	day/event
EP _{nc}	7	years
C	0.001	mg/µg
AP _{nc}	7	year

Office Workers or Teachers and Students in K-12 - Indoor Air:
Table OSA-4
Definitions and Exposure Factors

Method 3 Lookup Tables Version v0624

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	See Table OSA-2, and OSA-2a.
URF - Unit Risk Factor	chemical specific	$(\mu\text{g}/\text{m}^3)^{-1}$	Risk per concentration unit. See Table OSA-5 and OSA-5a.
LADE - Lifetime Average Daily Exposure	chemical specific	$\mu\text{g}/\text{m}^3$	See Table OSA-2, and OSA-2a.
HQ - Hazard Quotient	chemical specific	dimensionless	Ratio of ADE to reference concentration.
RfC - Reference Concentration	chemical specific	mg/m^3	See Table OSA-5, and OSA-5a.
ADE - Average Daily Exposure	chemical specific	mg/m^3	See Table OSA-3.
EPC - Exposure Point Concentration	chemical specific	$\mu\text{g}/\text{m}^3$	See Table OSA-1.
EF - Exposure Frequency	0.687	event/day	5 of 7 days in a week, and 50 weeks out of 52 weeks per year.
ED - Exposure Duration	0.333	day/event	8 of 24 hours in a day.
EP_{nc} - Exposure Period for Noncancer	7	year	MCP Method 1 Standards.
EP_{c} - Exposure Period for Cancer	27	year	
AP_{nc} - Averaging Period for noncancer	7	year	
$\text{AP}_{\text{lifetime}}$ - Averaging Period for lifetime	70	year	

Office Workers or Teachers and Students in K-12 - Indoor Air: Table OSA-5

Chemical-Specific Data

Method 3 Lookup Tables Version v0624

Oil or Hazardous Material	URF ($\mu\text{g}/\text{m}^3$) ⁻¹	RfC mg/m^3	Notes
ACETONE		8.00E-01	
BENZENE	7.80E-06	3.00E-03	
CARBON TETRACHLORIDE	6.00E-06	1.00E-01	
CHLOROFORM	2.30E-05	6.60E-01	
DICHLOROETHANE, 1,2-	2.60E-05	7.00E-03	
DICHLOROETHYLENE, CIS-1,2-		7.00E-03	
ETHYLBENZENE		1.00E+00	
METHYL TERT BUTYL ETHER		3.00E+00	
DICHLOROMETHANE	1.00E-08	6.00E-01	
STYRENE	5.70E-07	1.00E+00	
TETRACHLOROETHYLENE	3.00E-06	4.00E-02	
TOLUENE		5.00E+00	
TRICHLOROETHANE, 1,1,1-		5.00E+00	
TRICHLOROETHYLENE		2.00E-03	See TCE C Tab!
XYLENES (Mixed Isomers)		1.00E-01	
NAPHTHALENE		3.00E-03	