Site Characterization Report
Standard Gage & Coal Storage Off-Site
Poughkeepsie, New York
Site No. C314131A

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Prepared for:

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Table of Contents

Section **Page**

1 Introduction 1-1
1.1 Site Location and Description 1-1
1.2 Site History 1-1
1.3 Previous Off-Site Environmental Activities 1-2
1.4 Off-Site Geology 1-2

2 Site Characterization Activities 2-1
2.1 Soil Vapor Intrusion Sampling 2-2
2.2 Soil Borings and Soil Sampling 2-4
2.3 Monitoring Well Installation and Groundwater Sampling 2-4
2.3.1 Monitoring Well Installation 2-4
2.3.2 Monitoring Well Development 2-5
2.3.3 Groundwater Sampling Procedures and Analyses 2-5
2.4 Sump Water Sampling 2-5
2.5 Decontamination Procedures 2-5
2.6 Investigation-Derived Waste Disposal 2-6
2.7 Quality Assurance/Quality Control 2-6

3 Results 3-1
3.1 Site Geology and Hydrogeology 3-1
3.2 Analytical Results 3-2
3.2.1 Indoor Air and Sub Slab Vapor Results 3-2
3.2.2 Soil and Groundwater Results 3-4

4 Discussion 4-1
4.1 Summary 4-1
4.2 Recommendations 4-2

5 References 5-1

List of Appendices, Tables, and Figures

Appendices

Appendix A NYSDEC Site No. C314131, Fact Sheet

Appendix B Soil Vapor Intrusion Sampling Procedures

Appendix C Structure Sampling Questionnaire and Building Inventories

Appendix D Geologic Logs and Monitoring Well Construction

Appendix E Camp Station Data

Appendix F Investigation Derived Waste Documentation

Appendix G Data Usability Summary Reports

Appendix H Laboratory Analytical Reports

Tables

Table 1 Groundwater Level Summary

Table 1A Summary of Analytical Results for Soil Vapor Intrusion Samples, Structure OS-01

Table 1B Summary of Analytical Results for Soil Vapor Intrusion Samples, Structure OS-04

Table 1C Summary of Analytical Results for Soil Vapor Intrusion Samples, Structure OS-07

Table 2 Summary of Analytical Results for Soil Samples, Structure OS-01

Table 3 Summary of Analytical Results for Groundwater Samples, Structure OS-01

Table 5A Indoor Air Analytical Results Compared with NYSDOH Guidance, Structure OS-01

Table 5B Soil Vapor Intrusion Analytical Results Compared with NYSDOH Decision Matrices, Structure OS-01

Table 6A Indoor Air Analytical Results Compared with NYSDOH Guidance, Structure OS-04

Table 6B Soil Vapor Intrusion Analytical Results Compared with NYSDOH Decision Matrices, Structure OS-04

Table 7A Indoor Air Analytical Results Compared with NYSDOH Guidance, Structure OS-07

Table 7B Soil Vapor Intrusion Analytical Results Compared with NYSDOH Decision Matrices, Structure OS-07

Figures

Figure 1 Site Location Plan

Figure 2A Soil Vapor Intrusion Sampling Locations, Collected March 17, 2023, Structure OS-01, First Floor

Figure 2B Soil Vapor Intrusion Sampling Locations, Collected March 17, 2023, Structure OS-01, Basement

Figure 3 Soil Vapor Intrusion Sampling Locations, Collected February 8, 2023, Structure OS-04

Figure 4 Soil Vapor Intrusion Sampling Locations, Collected February 8, 2023, Structure OS-07

Figure 5 Subsurface Investigation, September 2023/April 2024, Structure OS-01

Figure 6 Groundwater Elevation Contour Map, April 30, 2024, Structure OS-01

1 Introduction

On behalf of New York State Department of Environmental Conservation (NYSDEC), Ecology and Environmental Engineering and Geology, P.C. (E & E) conducted site characterization activities associated with identifying off-site impacts related to the Standard Gage & Coal Storage site, Brownfield Cleanup Program (BCP) Site Number C314131 (the Site). The off-site portion of the BCP Site work activities, and the focus of the following scope of work, is referred to as C314131A.

This Site Characterization Report presents the results of activities conducted pursuant to Work Assignment D009807-26 (WA26). The scope of work was developed to determine if contaminants have migrated off-site and impacted groundwater and soil vapor beneath the adjacent/nearby parcels, and the indoor air in structures on those parcels. There were no on-site investigation activities conducted at the Site under WA26.

The elements of the site characterization work in this Work Assignment included the following:

- Soil vapor intrusion (SVI) sampling at three (3) off-site structures; and,
- A subsurface investigation at one adjacent parcel that included the drilling of two soil borings, the installation of two monitoring wells, and the collection of soil and groundwater samples for laboratory analysis.

1.1 Site Location and Description

The Site is located at 58 Parker Avenue and 164 Garden Street, Poughkeepsie, New York. The investigation was conducted off-site at adjacent and nearby parcels to the southeast (**Figure 1**). The property is in a moderately developed industrial, commercial, and residential area. The topography of the Site and surrounding off-site area generally slopes toward the Fall Kill Creek to the south.

1.2 Site History

The Site historically contained manufacturing and warehouse buildings on two parcels (Parker Ave parcel and Garden Street parcel) separated by a rail spur/utility corridor. The primary site use since the early 1900s was coal storage and manufacturing facilities. Standard Gage Co., Inc. was active from approximately

the 1950s through the early 2000s and was a generator of numerous waste products including ignitable waste, corrosive waste, solvents, spent cyanide, and various other wastes from electroplating, stripping, and quenching operations. Spent solvents were reportedly discharged into a former floor drain in a building on the Parker Ave parcel. Previous environmental investigations conducted by other consultants demonstrated the potential for off-site migration of chlorinated volatile organic compounds (CVOCs), including tetrachloroethene (PCE) and trichloroethene (TCE).

In December 2024, a Final Engineering Report (FER) for the Site was submitted by another consultant. NYSDEC approved the FER and issued a Certificate of Completion (December 27, 2024). The NYSDEC Fact Sheet indicating the BCP cleanup requirements to address the site-related contamination have been met is included as **Appendix A**.

1.3 Previous Off-Site Environmental Activities

Prior to E & E involvement in 2022, environmental activities were completed at 154 Garden Street, the parcel adjacent to the Site to the south. This work was done by another consultant on behalf of the property owner and included SVI sampling and the installation of a passive sub-slab ventilation system at the single structure on the parcel. The system was installed beneath the western/slab-on-grade portion of the structure. Past operations at this parcel included a fuel-oil company.

During 2022, E & E was contracted by NYSDEC (WA26) to conduct site characterization activities for the off-site portion of the BCP Site, which included 154 Garden Street (identified by E & E as OS-01). These activities were completed between late-2022 and mid-2024 and included SVI sampling at several off-site structures downgradient of the Site, including OS-01, and a subsurface investigation at OS-01.

A summary of the SVI sampling activities, sample locations, analytical results, and recommendations are discussed in this report and can be found in E & E's Soil Vapor Intrusion Sampling Results 2022/2023 Letter, October 2023. The findings of the subsurface investigation are discussed in this SCR.

1.4 Off-Site Geology

Based on drill cuttings and soil samples collected during E & E's 2024 subsurface investigation activities, the overburden adjacent to the Site to the south consists primarily of fine to medium sand and silt with gravel from grade to the weathered bedrock surface at approximately 8 to 11 ft bg (feet below grade). Coal fragments and ash were observed during drilling from grade to approximately 5 ft bg. The borings were advanced into the weathered bedrock zone in attempt to locate competent bedrock. At approximately 18 to 22 ft bg, the borings were terminated due to increasingly difficult drilling, low sample recovery, and rock fragments in the tip of the split-spoons. Competent bedrock was not defined during this

investigation but may be close to the 18 to 22 termination depth of these drilling activities. Groundwater appeared to be approximately 9 ft bg during drilling.

2 Site Characterization Activities

Site characterization activities for the off-site portion of the BCP Site were performed between late 2022 and mid 2024 in accordance with E & E's Master Quality Assurance Project Plan (QAPP) (E & E 2020a) and Field Activities Plan (FAP) (E & E 2020b). The scope of work included SVI sampling at three off-site structures and the drilling of two soil borings and the installation of two groundwater monitoring wells. Groundwater samples were also collected from the basement sump pits at OS-01. Indoor air, soil vapor, soil, and groundwater samples were collected for laboratory analysis of VOCs during these activities. A summary of the SVI sampling analytical results is presented in **Table 1A** through **Table 1C**. A summary of the subsurface investigation analytical results is presented in **Table 2** and **Table 3**.

LaBella Associates (LaBella) of Ballston Spa, New York, was subcontracted to provide drilling and monitoring well installation services. Dig Safely New York was contacted for mark-outs of underground utilities prior to beginning intrusive activities in accordance with New York Code Rule 753.

Laboratory analytical services for soil vapor and indoor/outdoor air were provided by Con-Test, A Pace Analytical Laboratory (Pace), located in East Longmeadow, Massachusetts. Laboratory analytical services for soil and groundwater were provided by Phoenix Environmental Laboratories (Phoenix), located in Manchester, CT.

Level D personal protective equipment (PPE) was required for field personnel. Daily safety briefings were conducted to ensure that work activities did not present hazardous conditions for field personnel and community. The work zone air quality for activities that involved soil disturbance were monitored with a photo-ionization detector (PID). A site-specific health and safety plan (HASP) was on-site during field activities.

A Community Air Monitoring Plan (CAMP) was implemented during drilling and soil disturbance activities. CAMP stations were staged upwind and downwind of the work to monitor for airborne VOCs using PIDs and particulates (i.e., dust) using DustTraks.

2.1 Soil Vapor Intrusion Sampling

SVI sampling was completed at three off-site structures during the 2022/2023 heating season. Some structures from the original list provided by NYSDEC were not sampled abecause property owners were unresponsive to access request letters or denied access. The locations of the off-site structures and a summary of the SVI sampling activities are shown on **Figure 1**.

The following is a summary of the three structures sampled:

Structure ID	Tax Parcel ID	Property Address
OS-1	[redacted]	[redacted], Poughkeepsie, NY 12601
OS-4		[redacted], Poughkeepsie, NY 12601
OS-7		[redacted], Poughkeepsie, NY 12601

All E & E SVI sampling activities were conducted in accordance with the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006; and subsequent updates. A summary of E & E's SVI Sampling Procedures is included as **Appendix B**. The completed NYSDEC Structure Sampling Questionnaires and Building Inventory Forms for all sampled structures are included in **Appendix C**.

Structure OS-1

Structure OS-01 at [redacted] Garden Street is a single-story brick and masonry building with the western portion slab-on-grade and eastern portion with a basement. Past operations included a fuel-oil company. As part of the 2022/2023 heating season SVI activities, a building inspection and chemical inventory were completed on March 16 and 17, 2023. At the time of the inspection, the building was vacant. The first floor consisted of a garage/warehouse area and several rooms/offices, and the basement was an unfinished storage space and boiler room. Two groundwater sumps were observed in the basement; both were uncovered and contained water. There were no stored chemical products observed in the building. A fuel-oil stain was observed near the boiler in the basement.

SVI sampling was conducted at OS-01 on one occasion during the 2022/2023 heating season, on March 16 and 17, 2023. Sampling included the collection of one (1) sub-slab soil vapor sample and one (1) indoor air sample in the basement, three (3) sub-slab soil vapor samples and two (2) indoor air samples on the first floor, and one (1) outdoor air sample upwind of the building. All samples were collected concurrently over a 24-hour period. All samples were shipped under a chain-of-custody to Pace for laboratory analysis by United States Environmental Protection Agency (USEPA) Method TO-15. A building layout showing the sampling locations is included as **Figure 2A** and **Figure 2B**.

The passive sub-slab ventilation system control valve was closed for more than 30 days prior to collecting the samples; and the system valve was opened after the samples were collected.

Structure OS-4

Structure OS-04 at [redacted] Garden Street is a three-story, single-family house with an unfinished basement. As part of the 2022/2023 heating season SVI activities, a building inspection and chemical inventory were completed on February 7 and 8, 2023. At the time of the inspection, the house was occupied by the owners. Several chemical products were observed to be stored in the basement; including paint, joint compound, and empty gasoline and kerosene containers.

SVI sampling was conducted at OS-4 on one occasion during the 2022/2023 heating season, on February 7 and 8, 2023. Sampling included the collection of one (1) sub-slab soil vapor sample and one (1) indoor air sample in the basement, and one (1) outdoor air sample upwind of the building. All samples were collected concurrently over a 24-hour period. All samples were shipped under chain-of-custody to Pace for laboratory analysis of VOCs by USEPA TO-15. A building layout showing the sampling locations is included as **Figure 3**.

Structure OS-7

Structure OS-07 at [redacted] Garden Street is a single-story brick and masonry commercial building. As part of the 2022/2023 heating season activities, a building inspection and chemical inventory were competed on February 7 and 8, 2023. At the time of the inspection, the building was occupied by a refrigeration and heating, ventilation and air conditioning (HVAC) product supplier. Numerous chemical products were observed in both the retail and warehouse portions of the building, primarily related to refrigeration and HVAC operation and maintenance.

SVI sampling was conducted at OS-7 on one occasion during the 2022/2023 heating season, on February 7 and 8, 2023. Sampling included the collection of three (3) sub-slab soil vapor samples and three (3) indoor air samples on the first floor, and one (1) outdoor air sample upwind of the building. All samples were collected concurrently over a 24-hour period and shipped to Pace for laboratory analysis by USEPA Method TO-15. A building layout showing sample locations is included in **Figure 4**.

After sampling, two chemical products were found in the structure to contain TCE: “Sid Harvey’s Spruce-Up Spray Degreaser” and “Mitco High Pressure Coil Cleaner Aerosol”. Three chemical products were found to contain trans-1,2-dichloroethene (1,2-DCE); “Qwik System Flush”, “Mitco Line-Set Flush”, and “Nu-Calgon Rx11-Flush”. One chemical product was found to contain methylene chloride; “KO Dirt Blaster Degreaser & Cleaner”.

2.2 Soil Borings and Soil Sampling

On September 20, 2023, E & E personnel supervised the drilling of two soil borings and the installation of two monitoring wells (MW-B1 and MW-B2) adjacent to structure OS-01. The boring and monitoring well locations were determined by NYSDEC and were based on previously identified recognized environmental conditions (RECs) at the BCP Site. The borings were drilled by LaBella using the hollow-stem auger (HSA) drilling method. Utility clearance was conducted by LaBella ahead of the investigation activities. A site plan showing the soil borings and monitoring well locations is included as **Figure 5**.

During the drilling, soil samples were collected continuously in advance of the borehole using a decontaminated 2-foot long, 2-inch diameter split-spoon sampling device from grade to the termination depth of each boring (approximately 20 ft bg). The soil cores were described on a geologic log, examined for evidence of contamination (staining, odors, etc.), and screened with a photoionization detector (PID) for the presence of VOCs. Soil samples were collected for laboratory analysis from the 4- to 5-foot interval at each boring. The samples were containerized in laboratory-provided glassware, properly labeled, and placed on ice in a cooler. The samples were transported under a chain-of-custody to Pace for laboratory analysis by USEPA Method 8260D. The geologic logs are included as **Appendix D**.

The air monitoring data indicated there were no VOCs or particulates were detected above the action levels for the upwind and downwind stations. The CAMP station data is provided as **Appendix E**.

2.3 Monitoring Well Installation and Groundwater Sampling

2.3.1 Monitoring Well Installation

On September 20, 2023, E & E personnel supervised the installation of monitoring wells MW-B1 and MW-B2 within each soil boring. Each well was constructed with 2-inch diameter 10-slot PVC well screen from 5 ft bg to the termination depth and PVC riser pipe from 0.5 ftbg to 5 ftbg. The screen was set from 5 to 18 ft bg at MW-B1 and from 5 to 20 ft bg at MW-B2. The annular space surrounding each well screen was filled with No. 1 filter sand from the bottom of the screen to approximately 2 ft above the top of the screen. A 2-foot-thick bentonite seal was placed on top of the filter sand and the remaining annular space was filled with filter sand. The well casing at each well was cut approximately 0.5-foot below grade. Each well was fitted with a watertight cap, locked for security and completed at grade with an 8-inch diameter manhole cover encased in concrete pad. The well construction information is included on the geologic logs in **Appendix D**.

On April 30, 2024, E & E personnel conducted a top-of-casing (TOC) elevation survey for MW-B1 and MW-B2. The TOC elevations were related to the TOC elevations of existing BCP Site wells MW-9 and MW-10. The elevations are included on **Table 4**.

2.3.2 Monitoring Well Development

On March 25, 2024, both monitoring wells were developed by E & E personnel. The extended time between well installation and well development was due to property access issues. A submersible pump was used to evacuate groundwater from each well. Both wells went dry after approximately 10 gallons of water was removed, and groundwater recharge was slow. Pumping was repeated several times as groundwater recovered. An approximate total of 25 gallons was purged from each well. No sediment was encountered at the bottom of each well after development activities.

2.3.3 Groundwater Sampling Procedures and Analyses

On April 30, 2024, E & E personnel collected groundwater samples from MW-B1 and MW-B2. An oil-water interface probe was used to gauge the groundwater level and total depth at each well; and at existing wells MW-9 and MW-10. No non-aqueous phase liquid (NAPL) was measured in any of the wells. The probe was decontaminated prior to use at each well. The depth to groundwater measurements are included in **Table 4**.

Groundwater samples were collected using the USEPA Region 2 low-flow sampling protocol. Groundwater was purged from each well at a constant rate of approximately 150 milliliters per minute (ml/min) using a peristaltic pump and dedicated polyethylene tubing, and geochemical parameters were measured at regular intervals using a multi-parameter meter. The wells were purged until specific parameters met stabilization criteria per the USEPA sampling protocol.

Following stabilization, samples were containerized in laboratory-provided glassware, properly labeled, and placed on ice in a cooler. The samples were transported under a chain-of-custody to Phoenix for laboratory analysis by USEPA Method 8260D.

2.4 Sump Water Sampling

On April 30, 2024, E & E personnel collected groundwater samples from two sump pits (Sump-1 and Sump-2) located in the basement of structure OS-01 using a peristaltic pump and dedicated polyethylene tubing. Both sump pits were uncovered and contained water. There was no sheen observed on the surface of the standing water, or evidence of contamination in each sump. The samples were containerized in laboratory-provided glassware, properly labeled, and placed on ice in a cooler. The samples were transported under a chain-of-custody to Phoenix for laboratory analysis by USEPA Method 8260D.

2.5 Decontamination Procedures

The following procedures were used for all non-dedicated equipment and tools including downhole equipment such as the split-spoon sampling device:

- Initially remove all foreign matter.
- Scrub with brushes in a laboratory-grade detergent solution.

- Rinse with potable water.
- Rinse with distilled water.

2.6 Investigation-Derived Waste Disposal

E & E personnel ensured that all Investigation Derived Waste (IDW) generated during the drilling/decontamination activities, well development, and groundwater sampling was properly stored in labeled 55-gallon steel drums. All drums were securely staged onsite for later disposal. The drum disposal activities were coordinated by Innovative Recycling Technologies (IRT) of Lindenhurst, New York. The drums were properly characterized as non-hazardous waste and transported from the site by IRT for disposal at JG Environmental LLC of Lancaster, Pennsylvania. The drum disposal documentation, waste profile and the waste disposal manifest, is included in **Appendix F**.

2.7 Quality Assurance/Quality Control

Quality assurance/quality control (QA/QC) procedures were performed in accordance with E & E's 2020 *Master Quality Assurance Project Plan for New York State Department of Environmental Conservation Projects*, Contract No. D009807 (E & E 2022a). Specific QA/QC activities included:

- Collection of field duplicates at a rate of 1 per 20 samples.
- Documentation of all data and observations on field data sheets and/or in the field logbooks.
- Operation and calibration of all field instruments in accordance with operating instructions as supplied by the manufacturer.
- Ensure all laboratory deliverables were validated by an E & E chemist prior to release.

Laboratory deliverables were reviewed for quality assurance by an E & E chemist in accordance with NYSDEC's general reporting requirements. The data were qualified following guidelines in EPA Region 2 data validation standard operating procedures. The data review included an evaluation of the following:

- Sample preservation,
- Holding times,
- Reporting limits,
- Laboratory blanks,
- MS/MSD samples,
- Laboratory control samples,
- Field duplicates,
- Sample result verification, and
- Method-specific quality control samples.

Details of the data review are provided in the data usability summary reports (DUSRs) provided in **Appendix G**.

Laboratory reports were provided as NYSDEC DER-10 Category B deliverables separate of this report.

3 Results

3.1 Site Geology and Hydrogeology

Based on drill cuttings and soil samples collected during the E & E's 2024 subsurface investigation activities, the overburden adjacent to the Site to the south consists primarily of fine to medium sand and silt with gravel from grade to the weathered bedrock surface at approximately 8 to 11 ft bg. Coal fragments and ash were observed during drilling from grade to approximately 5 ft bg. The borings were advanced into the weathered bedrock zone in attempt to locate competent bedrock. At approximately 18 to 22 ft bg, the borings were terminated due to increasingly difficult drilling, low sample recovery, and rock fragments in the tip of the split-spoons. Competent bedrock was not defined during this investigation but may be close to the 18-22 termination depth of these drilling activities. Groundwater appeared to be approximately 9 ft bg during drilling. The geologic logs are included as **Appendix D**.

Headspace analysis of the soil samples was conducted at a minimum of 2-foot increments using a MiniRAE 3000 PID. The PID readings were above background levels for samples screened at boring MW-B1 from grade to approximately 11 ft bg. The highest readings were 158 ppm (parts per million) for the 0.5 to 2-foot interval and 103 ppm for the 4 to 5-foot interval. The PID readings were at background levels for the samples screened at boring MW-B1 from 11 ft bg to the termination depth (18 ft bg) and for all samples screened from boring MW-B2 (grade to the termination depth [22 ft bg]). The PID readings are included on the geologic logs in **Appendix D**.

The groundwater flow beneath the OS-01 parcel, as calculated on April 30, 2024, has a hydraulic gradient of 0.06 feet per foot and flows southwest toward the Fall Kill Creek. A groundwater elevation contour map was generated using depth-to-water measurements and survey data obtained from the monitoring wells installed as part of this site characterization (MW-B1 and MW-B2) and two existing wells associated with the BCP Site (MW-9 and MW-10). The depth to groundwater was 9.02 ft btoc (feet below top of casing) at MW-B1 and 9.28 ft btoc at MW-B2; and was 9.35 ft btoc at MW-9 and 12.07 ft btoc at MW-10. The water level summary is shown on **Table 4**. The groundwater elevation map is shown on **Figure 6**.

The BCP Site wells on the Garden Street Parcel were observed to be decommissioned (concrete patch observed at the well locations), and the wells on the Parker Ave Parcel were inaccessible due to fencing/active construction.

3.2 Analytical Results

Table 1 through **Table 7** present the analytical results of SVI samples, soil samples, and groundwater samples collected during the site characterization activities.

The soil vapor intrusion data were compared to NYSDOH Guidance (NYSDOH 2006, and subsequent updates). NYSDOH Guidance provides Immediate Action Levels for indoor air samples for PCE (300 µg/m^3) and TCE (20 µg/m^3); and Air Guideline Values for indoor air samples for PCE (30 µg/m^3), TCE (2 µg/m^3), and methylene chloride (60 µg/m^3). At the time of sampling, NYSDOH provides decision matrices for eight VOCs that correlate sub-slab vapor and indoor air concentrations with relevant response actions; including PCE and TCE.

Contaminant concentrations in soil were compared to the NYSDEC Unrestricted Use Soil Cleanup Objectives (USCO) from 6 NYCRR Part 375. The groundwater analytical results were compared to the NYSDEC standards and guidance values provided in the *Technical and Operational Guidance Series (TOGS) Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, 1998 (NYSDEC 1988, with updates). Final laboratory reports are provided in **Appendix H**. Analytical data packages were uploaded to NYSDEC EQuIS on March 26, 2024 (SVI sampling) and February 19, 2025 (soil and groundwater sampling).

3.2.1 Indoor Air and Sub Slab Vapor Results

Structure OS-1

The results of laboratory analysis indicate PCE concentrations ranged from non-detect to 7.9 µg/m^3 (sample SS-1B). Sample SS-1B was collected from beneath the western/slab-on-grade portion of the building, which is the closest sample location to the BCP Site Parker Ave parcel. The corresponding indoor air sample, IA-1, had a PCE concentration of 0.68 µg/m^3. The outdoor air sample, OA-1, had a similar PCE concentration (0.73 µg/m^3).

The results of laboratory analysis indicate that TCE concentrations were also highest in the soil vapor samples from beneath the slab-on-grade portion of the building close to the Parker Ave parcel. The TCE concentrations at SS-1A and SS-1B were 53 µg/m^3 and 270 µg/m^3, respectively. The corresponding indoor air sample, IA-1, had a TCE concentration of 0.32 µg/m^3. TCE was not detected in the outdoor air sample or from either the sub-slab or indoor air samples in the basement. The TCE results trigger response actions in accordance with NYSDEC decision matrix guidance.

A summary of indoor air analytical results compared with the NYSDOH Immediate Action Levels and Air Guideline Values, and a summary of SVI analytical results compared with the NYSDOH Decision Matrices are provided on **Table 5A** and **Table 5B**.

Structure OS-4

The results of laboratory analysis indicate PCE was detected at a concentration of 0.32 µg/m^3 in the indoor air sample (IA-1); and, at a similar concentration in the outdoor air sample (0.25 µg/m^3).

The results of laboratory analysis indicate TCE was not detected in the sub-slab or indoor air samples. TCE was detected in the outdoor air sample at a concentration of 4.7 µg/m^3.

A summary of indoor air analytical results compared with the NYSDOH Immediate Action Levels and Air Guideline Values, and a summary of SVI analytical results compared with the NYSDOH Decision Matrices are provided on **Table 6A** and **Table 6B**.

Structure OS-7

The results of laboratory analysis indicate PCE was detected at the highest concentration in the sub-slab soil vapor sample from the northwest (front) portion of the building (SS-1 at 13 µg/m^3), which is the closest location to the BCP Site. The PCE concentrations in indoor air samples ranged from 0.84 µg/m^3 (IA-3) to 1.1 µg/m^3 (IA-1). PCE was detected in the outdoor air sample at a concentration of 0.25 µg/m^3.

The results of laboratory analysis indicate TCE was detected at the highest concentration in the indoor air sample from the front portion of the building (IA-1 at 49 µg/m^3). The TCE concentration in the sub-slab soil vapor sample at this location was 8.8 µg/m^3. TCE was detected in the outdoor air sample at a concentration of 4.7 µg/m^3. These TCE results trigger response actions in accordance with NYSDEC guidance.

A summary of indoor air analytical results compared with the NYSDOH Immediate Action Levels and Air Guideline Values, and a summary of SVI analytical results compared with the NYSDOH Decision Matrices are provided on **Table 7A** and **Table 7B**.

3.2.2 Soil and Groundwater Results

The results of laboratory analysis indicated there were virtually no VOCs detected above the laboratory method detection limits (MDLs) for VOCs in the soil samples; and no soil samples contained VOCs at concentrations above NYSDEC Unrestricted Use Soil Cleanup Objectives (USCO).

The results of laboratory analysis indicated that were no VOCs detected above the laboratory MDLs for VOCs in the groundwater samples from the newly installed monitoring wells or existing basement sumps.

A summary of soil analytical results compared with the USCO, and a summary of groundwater analytical results compared with TOGS are provided on **Table 2** and **Table 3**, respectively.

4 Discussion

4.1 Summary

The results of the site characterization activities indicate that site-related VOCs have not significantly impacted the groundwater or soil vapor in the overburden of the off-site study area.

The analytical results of soil and groundwater samples collected at OS-01 near the boundary with the BCP site indicate there were no detections of VOCs that exceeded applicable NYSDEC criteria; including the sump water samples collected from the basement of OS-01. The SVI results for samples collected at structure OS-01 suggest that soil vapor beneath the western portion of the 154 Garden Street parcel, near the boundary with the BCP Site, may have been impacted by site-related TCE. While there were no TCE detections in indoor air samples at concentrations in exceedance of NYSDOH Air Guideline Values, the TCE concentrations in the western-most sub-slab soil vapor sample (SS-1B) was sufficiently high (270 ug/m3) to prompt a "mitigate" response action on the NYSDOH decision matrix for that compound. No other compounds were detected at concentrations that triggered response actions based on the decision matrices.

The SVI results for samples collected at structure OS-04 indicate there were no PCE or TCE concentrations, or any other compounds on the NYSDOH guidance/decision matrices, that triggered a response action. All eight decision matrix compounds were not detected in the sub-slab vapor sample.

The SVI results for samples collected at structure OS-7 indicate that the detected TCE concentrations in indoor air samples are likely associated with use of at least two TCE-containing chemical products as part of business operations ("Sid Harvey's Spruce-Up Spray Degreaser" and "Mitco High Pressure Coil Cleaner Aerosol"). TCE was detected at a concentration above the Immediate Action Level in the indoor air sample from the retail shop (IA-1 at 49 $\mu g/m^3$) where these chemical products were stored/displayed. TCE was also detected at concentrations above the Air Guideline Value in both indoor samples from the warehouse (IA-2 at 4.2 $\mu g/m^3$ and IA-3 at 3.1 $\mu g/m^3$). The TCE concentration in the upwind outdoor sample also exceeded the Air Guideline Value (OA-1 at 4.7 $\mu g/m^3$) and may have contributed to the indoor air detections. The TCE concentrations for sub-slab and indoor air samples triggered response actions on the decision matrices. There were

no detections of PCE in the indoor samples that exceeded the Immediate Action Levels, Air Guideline Values, or that prompted action on the decision matrices.

4.2 Recommendations

Based on the results of the off-site characterization activities at OS-01, additional soil and groundwater investigation at this parcel is not recommended for the area south of the Site.

It is recommended that the existing passive sub-slab ventilation system at structure OS-01 remain open due to the detected TCE concentrations in the sub-slab soil vapor samples beneath the western/slab-on-grade portion of the structure. Based on the findings of the off-site activities and the proximity of this parcel to the BCP Site, it is recommended that appropriate environmental activities are conducted in conjunction with any future development.

Based on the SVI data, no further action is recommended for structure OS-4.

The SVI results for indoor air samples collected at structure OS-7 indicate that the detected TCE concentrations are in exceedance of NYSDOH guidance levels and are likely associated with use of at least two TCE-containing chemical products as part of business operations.

5 References

Ecology and Environment Engineering and Geology, P.C. (E & E). 2020a. *Master Quality Assurance Project Plan (QAPP) for New York State Department of Environmental Conservation Projects, Contract No. D009807* May 2020.

Ecology and Environment Engineering and Geology, P.C. (E & E). 2020b. *Field Activities Plan (FAP) for the Division of Environmental Remediation Standby Engineering Services, Contract D009807*, 2022.

New York State Department of Environmental Conservation (NYSDEC). 2010. DER-10, Technical Guidance for Site Investigation and Remediation, May 2010.

New York State Department of Environmental Conservation (NYSDEC) 1998. *Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* 1998 with updates.

New York State Department of Health (NYSDOH). 2006. *Guidance for Evaluating Soil Vapor Intrusion in the State of New York,* October 2006 with updates.

Tables

Table 1A: Summary of Analytical Results for Soil Vapor Intrusion Samples
2022/2023 Heating Season
Structure OS-01

Location:	Basement	Basement	1st Floor	1st Floor	1st Floor	1st Floor	1st Floor	Outdoor
Sample ID	SS-3	IA-3	SS-1A	SS-1B	SS-2	IA-1	IA-2	OA-1
Sample Type:	Soil Vapor	Indoor Air	Soil Vapor	Soil Vapor	Soil Vapor	Indoor Air	Indoor Air	Outdoor Air
Sample Date:	3/17/2023	3/17/2023	3/17/2023	3/17/2023	3/17/2023	3/17/2023	3/17/2023	3/17/2023
Lab Report No:	23C2788	23C2788	23C2787	23C2787	23C2789	23C2789	23C2789	23C2786
Analyte								
VOCs by Method TO15 (ug/m3)								
1,1,1-Trichloroethane (TCA)	**1.5**	0.15 U	**16**	**17**	**0.44 J**	0.15 U	0.15 U	0.15 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.85 U	**0.45 J**	0.85 U	0.85 U	0.85 U	**0.47 J**	**0.45 J**	**0.47 J**
1,2,4-Trimethylbenzene	**2.1**	**0.65**	**1.1**	**1.2**	**1.7**	**0.68**	**0.80**	**0.20**
1,3,5-Trimethylbenzene (Mesitylene)	**0.57**	**0.14 J**	**0.41 J**	**0.77**	**0.47 J**	**0.17 J**	**0.14 J**	0.091 U
1,3-Butadiene	**0.36**	0.065 U	0.19 U	0.19 U	0.19 U	0.065 U	0.065 U	0.065 U
2-Hexanone	**3.9**	**0.15**	**3.8**	**4.7**	**6.0**	**0.35**	**0.52**	0.072 U
4-Ethyltoluene	**0.52**	**0.16 J**	0.30 U	0.30 U	**0.42 J**	**0.21**	**0.19**	0.11 U
Acetone	**22**	**10**	**330 J**	**210**	**21**	**17**	**15**	**11**
Benzene	**1.3**	**0.81**	**2.1**	**4.6**	**0.84**	**0.76**	**0.79**	**0.81**
Carbon Disulfide	0.29 U	0.10 U	**5.1**	**2.0 J**	0.29 U	0.10 U	0.10 U	0.10 U
Carbon Tetrachloride	0.50 U	**0.45**	0.50 U	0.50 U	0.50 U	**0.45**	**0.45**	**0.45**
Chloroform	**0.57**	0.16 U	**1.8**	**3.4**	0.46 U	0.16 U	0.16 U	0.16 U
Chloromethane (Methyl Chloride)	**0.42**	**0.71**	**0.25 J**	**0.31 J**	0.16 U	**0.86**	**0.80**	**0.98**
Cis-1,2-Dichloroethylene	0.29 U	0.10 U	0.29 U	**0.73**	0.29 U	0.10 U	0.10 U	0.10 U
Cyclohexane	**0.43**	**0.12 J**	**0.68 J**	**1.8**	0.21 U	**0.13**	**0.12**	**0.14**
Dichlorodifluoromethane	**1.3**	**0.96**	**1.4 J**	**1.5**	**1.3**	**1.2**	**1.0**	**1.1**
Ethanol	**39 J**	**4.3 J**	**210 J**	**200 J**	**65 J**	**9.1 J**	**7.8 J**	**12 J**
Ethyl Acetate	**6.1**	0.64 U	1.8 U	1.8 U	1.8 U	0.64 U	**1.2 J**	0.64 U
Ethylbenzene	**0.97**	**0.23**	**0.84**	**1.1**	**0.97**	**0.27**	**0.24**	**0.28**
Isopropanol	1.7 UJ	**1.7 J**	**12 J**	**6.8 J**	**3.2 J**	**2.1 J**	**1.7 J**	**1.3 J**
m,p-Xylene	**3.7**	**0.71**	**3.0**	**3.7**	**3.5**	**0.90**	**0.77**	**0.93**
Methyl Ethyl Ketone (2-Butanone)	**21**	1.1 U	**28**	**33**	**30**	**1.8 J**	**2.2 J**	1.1 U
Methyl Isobutyl Ketone	0.22 U	0.077 U	**0.66 J**	**0.76**	**0.33 J**	**0.15**	**0.17**	**0.089 J**
Methylene Chloride	1.6 U	0.57 U	1.6 U	1.6 U	1.6 U	0.57 U	**0.62 J**	0.57 U
Naphthalene	**0.45 J**	0.14 UJ	0.40 UJ	**6.9 J**	0.40 UJ	**0.16 J**	0.14 UJ	0.14 UJ
N-Heptane	**0.80**	**0.32**	**1.7**	**2.7**	**0.66**	**0.35**	**0.45**	**0.43**
N-Hexane	1.8 U	0.64 U	**3.8 J**	**4.7 J**	1.8 U	0.64 U	**0.80 J**	**0.69 J**
O-Xylene (1,2-Dimethylbenzene)	**2.1**	**0.27**	**1.3**	**1.9**	**1.9**	**0.34**	**0.30**	**0.32**
Propylene	1.5 U	0.53 U	1.5 U	**34**	1.5 U	0.53 U	0.53 U	0.53 U
Styrene	0.22 U	**0.23**	**0.27 J**	0.22 U	0.22 U	**0.21**	**0.22**	0.079 U
Tetrachloroethene (PCE)	**7.2**	**0.68**	**3.4**	**7.9**	0.52 U	**0.68**	**0.62**	**0.73**
Tetrahydrofuran	0.48 U	0.17 U	**0.51 J**	**0.68 J**	0.48 U	0.17 U	0.17 U	0.17 U
Toluene	**3.4**	**1.6**	**3.3**	**6.3**	**3.3**	**1.8**	**1.7**	**2.1**
Trans-1,2-Dichloroethene	0.31 U	0.11 U	0.31 U	**1.3**	0.31 U	0.11 U	0.11 U	0.11 U
Trichloroethene (TCE)	0.36 U	0.13 U	**53**	**270**	0.36 U	**0.32**	**0.14 J**	0.13 U
Trichlorofluoromethane	**0.84 J**	**1.2**	**0.82 J**	**0.83 J**	**0.87 J**	**1.1**	**1.1**	**1.2**
Vinyl Acetate	1.9 U	0.66 U	1.9 U	1.9 U	1.9 U	0.66 U	**1.6 J**	0.66 U
Vinyl Chloride	**0.28**	0.081 U	**0.36 J**	**0.29**	**0.25 J**	0.081 U	0.081 U	0.081 U

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Notes

Table shows only detected compounds or those on the NYSDOH Decision Matrices.

Bold value indicates compound was detected.

Other

VOCs = Volatile organic compounds

µg/m3 = Micrograms per meter cubed

Table 1B: Summary of Analytical Results for Soil Vapor Intrusion Samples
2022/2023 Heating Season
Structure OS-04

Location:	1st Floor	1st Floor	Outdoor
Sample ID:	SS-1	IA-1	OA-1
Sample Type:	Soil Vapor	Indoor Air	Outdoor Air
Date:	2/8/2023	2/8/2023	2/8/2023
Lab Report No:	23B1704	23B1704	23B1705
Analyte			
VOCs by Method TO15 (ug/m3)			
1,1,1-Trichloroethane (TCA)	0.43 U	0.15 U	0.15 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.85 U	**0.48 J**	**0.89 J**
1,2,4-Trimethylbenzene	0.22 U	**0.41**	**0.43**
1,2-Dichloropropane	**0.53**	0.088 U	0.088 U
1,3,5-Trimethylbenzene (Mesitylene)	0.26 U	**0.11 J**	**0.12 J**
2-Hexanone	**0.48**	**0.36**	**0.48**
4-Ethyltoluene	0.30 U	**0.12 J**	**0.13 J**
Acetone	**72**	**12**	**18**
Benzene	**0.43**	**0.81**	**1.1**
Carbon Tetrachloride	0.50 U	**0.37**	**0.41**
Chloroform	**4.5**	0.16 U	0.16 U
Chloromethane (Methyl Chloride)	**0.57**	**0.88**	**1.0**
Cis-1,2-Dichloroethylene	0.29 U	0.10 U	0.10 U
Cyclohexane	0.21 U	**0.30**	**0.38**
Dichlorodifluoromethane	**1.6**	**1.2**	**1.2**
Ethanol	**41**	**13**	**13**
Ethylbenzene	**0.89**	**0.29**	**0.44**
m,p-Xylene	**2.1**	**0.91**	**1.4**
Methyl Ethyl Ketone (2-Butanone)	**8.3 J**	**1.8 J**	**2.7 J**
Methyl Isobutyl Ketone	0.22 U	**0.15**	**0.24**
Methylene Chloride	1.6 U	0.57 U	0.57 U
Naphthalene	0.40 U	**17**	**0.33**
N-Heptane	0.26 U	**0.41**	**0.52**
N-Hexane	1.8 U	**0.74 J**	**0.97 J**
O-Xylene (1,2-Dimethylbenzene)	**1.2**	**0.34**	**0.51**
Styrene	0.22 U	**0.11 J**	**0.084 J**
Tert-Butyl Methyl Ether	0.28 U	0.098 U	0.098 U
Tetrachloroethene (PCE)	0.52 U	**0.32**	**0.25**
Tetrahydrofuran	**0.58 J**	0.17 U	0.17 U
Toluene	**4.0**	**1.7**	**2.1**
Trichloroethene (TCE)	0.36 U	0.13 U	**4.7**
Trichlorofluoromethane	**1.2 J**	**1.3**	**1.4**
Vinyl Acetate	1.9 U	**0.90 J**	**1.6 J**

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Notes

Table shows only detected compounds or those on the NYSDOH Decision Matrices.

Bold value indicates compound was detected.

Table 1C: Summary of Analytical Results for Soil Vapor Intrusion Samples
2022/2023 Heating Season
Structure OS-07

Location:	1st Floor	1st Floor	1st Floor	1st Floor	1st Floor	1st Floor	Outdoor
Sample Name:	SS-1	IA-1	SS-2	IA-2	SS-3	IA-3	OA-1
Sample Type:	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Outdoor Air
Date:	2/8/2023	2/8/2023	2/8/2023	2/8/2023	2/8/2023	2/8/2023	2/8/2023
Lab Report No:	23B1701	23B1701	23B1701	23B1701	23B1703	23B1703	23B1705
Analyte							
VOCs by Method TO15 (ug/m3)							
1,1,1-Trichloroethane (TCA)	**1.9**	0.15 U	**17**	0.15 U	**1.5**	0.15 U	0.15 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.86 J**	**0.48 J**	**2.5 J**	**1.5**	**0.87 J**	**0.47 J**	**0.89 J**
1,2,4-Trimethylbenzene	0.22 U	**8.1**	0.22 U	**2.0**	**3.1**	**2.1**	**0.43**
1,2-Dichlorobenzene	0.35 U	**0.16 J**	0.35 U	0.12 U	0.35 U	0.12 U	0.12 U
1,2-Dichloropropane	**0.67**	0.088 U	**0.55**	0.088 U	0.25 U	0.088 U	0.088 U
1,3,5-Trimethylbenzene (Mesitylene)	**0.28 J**	**2.7**	**0.32 J**	**0.63**	**0.50**	**0.61**	**0.12 J**
1,3-Butadiene	0.19 U	**0.37**	0.19 U	**0.21**	**0.39**	**0.24**	0.065 U
2-Hexanone	**0.64**	**0.34**	**0.57**	**0.63**	0.20 U	**0.61**	**0.48**
4-Ethyltoluene	0.30 U	**2.7**	0.30 U	**0.67**	**0.54**	**0.67**	**0.13 J**
Acetone	**210**	**57**	**74**	**15**	5.7 U	**17**	**18**
Benzene	**1.5**	**1.6**	**1.1**	**3.0**	**3.9**	**4.1**	**1.1**
Carbon Disulfide	**1.8 J**	**0.25 J**	**2.5 J**	0.10 U	**0.54 J**	0.10 U	0.10 U
Carbon Tetrachloride	0.50 U	**0.42**	0.50 U	**0.39**	0.50 U	**0.37**	**0.41**
Chloroform	**2.1**	**0.19**	0.46 U	0.16 U	0.46 U	0.16 U	0.16 U
Chloromethane (Methyl Chloride)	**0.45**	**1.1**	**0.80**	**1.0**	**0.88**	**0.99**	**1.0**
Cyclohexane	**0.70**	**0.90**	**0.50**	**2.1**	**3.5**	**3.9**	**0.38**
Dichlorodifluoromethane	**1.6**	**1.3**	**1.8**	**1.1**	**1.8**	**1.1**	**1.2**
Ethanol	**110**	**200**	**120**	**110**	**150**	**150**	**13**
Ethyl Acetate	**3.6 J**	**1.1 J**	**4.9**	0.64 U	1.8 U	0.64 U	0.64 U
Ethylbenzene	**2.0**	**1.2**	**2.1**	**1.7**	**2.3**	**2.7**	**0.44**
Isopropanol	**16**	**9.2**	**18**	**6.1**	4.8 U	2.2 U	1.5 U
m,p-Xylene	**4.6**	**3.4**	**4.4**	**3.9**	**5.5**	**5.9**	**1.4**
Methyl Ethyl Ketone (2-Butanone)	**10 J**	**2.6 J**	**9.6 J**	**2.7 J**	3.1 U	**2.0 J**	**2.7 J**
Methyl Isobutyl Ketone	**1.4**	**0.23**	**0.85**	**0.28**	0.22 U	**0.30**	**0.24**
Methylene Chloride	1.6 U	**1.7**	1.6 U	**0.60 J**	1.6 U	**0.66 J**	0.57 U
Naphthalene	**0.61**	**0.14 J**	**0.56**	**0.21**	0.40 U	**0.28**	**0.33**
N-Heptane	**1.7**	**1.2**	**0.76**	**2.1**	**3.3**	**3.5**	**0.52**
N-Hexane	**3.5 J**	**2.4 J**	1.8 U	**6.0**	**9.6 J**	**11**	**0.97 J**
O-Xylene (1,2-Dimethylbenzene)	**3.6**	**1.5**	**2.5**	**1.5**	**2.0**	**2.1**	**0.51**
Styrene	**0.31 J**	**1.2**	**0.31 J**	**3.2**	**3.6**	**5.7**	**0.084 J**
Tert-Butyl Methyl Ether	**0.74**	0.098 U	0.28 U	0.098 U	0.28 U	0.098 U	0.098 U
Tetrachloroethene (PCE)	**13**	**1.1**	**4.4**	**0.85**	**1.7**	**0.84**	**0.25**
Tetrahydrofuran	**0.89 J**	**1.8**	**0.80 J**	**0.25 J**	**0.80 J**	**0.19 J**	0.17 U
Toluene	**9.1**	**6.7**	**7.3**	**6.5**	**10**	**10**	**2.1**
Trans-1,2-Dichloroethene	**18**	**120**	**5.1**	**7.2**	**4.7**	**5.0**	0.11 U
Trichloroethene (TCE)	**8.8**	**49**	**2.6**	**4.2**	**3.6**	**3.1**	**4.7**
Trichlorofluoromethane	**1.4 J**	**1.4**	**1.3 J**	**1.6**	**1.4 J**	**1.3**	**1.4**
Vinyl Acetate	1.9 U	**2.2 J**	1.9 U	0.66 U	1.9 U	0.66 U	**1.6 J**

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Notes

Table shows only detected compounds or those on the NYSDOH Decision Matrices.

Bold value indicates compound was detected.

Other

VOCs = Volatile organic compounds

µg/m3 = Micrograms per meter cubed

Table 2: Summary of Analytical Results for Soil Samples
Structure OS-01

Analyte	Table 375-6.8(a): Unrestricted Use SCOs [1]	Location: MW-B1 Sample ID: MW-B1(4-5)20230920 Sample Type: Soil Sample Date: 09/20/23 Lab Report No: 23I2909	Location: MW-B2 Sample ID: MW-B2(4-5)20230920 Sample Type: Soil Sample Date: 09/20/23 Lab Report No: 23I2909
VOCs by USEPA Method SW8260 (µg/kg)			
1,1,1-Trichloroethane (TCA)	680	0.72 U	0.65 U
1,1-Dichloroethene	330	0.77 U	0.7 U
1,2,4-Trimethylbenzene	3,600	0.72 U	0.65 U
1,2-Dichlorobenzene	1,100	**6.7**	0.45 U
1,3,5-Trimethylbenzene (Mesitylene)	8,400	0.55 U	0.49 U
Acetone	50	**9.6 J**	7.7 U
Benzene	60	0.55 U	0.49 U
Carbon Tetrachloride	760	0.74 U	0.67 U
Cis-1,2-Dichloroethene	250	0.6 U	0.54 U
Cyclohexane	N/A	--	--
Ethylbenzene	1,000	0.56 U	0.51 U
Isooctane (2,2,4-Trimethylpentane)	N/A	--	--
m,p-Xylene	260	1.3 U	1.2 U
Methylene Chloride	50	0.91 U	0.81 U
n-Butylbenzene	1,200	**0.81 J**	0.55 U
n-Heptane	N/A	--	--
n-Hexane	N/A	--	--
Naphthalene	N/A	0.68 U	0.61 U
o-Xylene (1,2-Dimethylbenzene)	260	0.53 U	0.47 U
Tetrachloroethene (PCE)	1,300	0.79 U	0.71 U
Toluene	700	0.64 U	0.57 U
Trichloroethene (TCE)	470	0.76 U	0.68 U
Vinyl Chloride	20	0.7 U	0.63 U

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Notes

Table shows only detected compounds or contaminants of concern.

Bold value indicates compound was detected.

N/A = Not regulated/no available criteria

SCO = Soil Cleanup Objective

µg/kg = Micrograms per kilogram

-- = Compound not analyzed

VOCs = Volatile organic compounds

1. 6 NYCRR Subpart 375-6, Remedial Soil Program Cleanup Objectives, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives. Updated Feb. 28, 2023.

Table 3: Summary of Analytical Results for Groundwater Samples
Structure OS-01

Analyte	NY TOGS 1.1.1 WQ/GA Table 1 [1]	Location: MW-B1 Sample ID: MW-B1-20240430 (1) Sample Type: Groundwater Sample Date: 04/30/24 Lab Report No: GCQ64221	Location: MW-B2 Sample ID: MW-B2-20240430 (1) Sample Type: Groundwater Sample Date: 04/30/24 Lab Report No: GCQ64221	Location: Basement Sump 1 Sample ID: W-1-20240430 (1) Sample Type: Groundwater Sample Date: 04/30/24 Lab Report No: GCQ64221	Location: Basement Sump 2 Sample ID: W-2-20240430 (1) Sample Type: Groundwater Sample Date: 04/30/24 Lab Report No: GCQ64221
VOCs by USEPA Method SW8260 (µg/L)					
1,1,1,2-Tetrachloroethane	5	0.25 U	0.25 U	0.25 U	0.25 U
1,1,1-Trichloroethane (TCA)	5	0.25 U	0.25 U	0.25 U	0.25 U
1,1,2,2-Tetrachloroethane	5	0.25 U	0.25 U	0.25 U	0.25 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ
1,1,2-Trichloroethane	1	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethane	5	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	5	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloropropene	5	0.25 U	0.25 U	0.25 U	0.25 U
1,2,3-Trichlorobenzene	5	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ
1,2,3-Trichloropropane	0.04	0.25 U	0.25 U	0.25 U	0.25 U
1,2,4-Trichlorobenzene	5	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ
1,2,4-Trimethylbenzene	5	0.25 U	0.25 U	0.25 U	0.25 U
1,2-Dibromo-3-Chloropropane	0.04	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ
1,2-Dibromoethane	0.0006	0.25 U	0.25 U	0.25 U	0.25 U
1,2-Dichlorobenzene	3	0.25 U	0.25 U	0.25 U	0.25 U
1,2-Dichloroethane	0.6	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	1	0.25 U	0.25 U	0.25 U	0.25 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dichlorobenzene	3	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dichloropropane	5	0.25 U	0.25 U	0.25 U	0.25 U
1,4-Dichlorobenzene	3	0.25 U	0.25 U	0.25 U	0.25 U
2,2-Dichloropropane	5	0.25 U	0.25 U	0.25 U	0.25 U
2-Chlorotoluene	5	0.25 U	0.25 U	0.25 U	0.25 U
2-Hexanone	50	2.5 U	2.5 U	2.5 U	2.5 U
4-Chlorotoluene	5	0.25 U	0.25 U	0.25 U	0.25 U
Acetone	50	2.5 U	2.5 U	2.5 U	2.5 U
Acrolein	5	2.5 U	2.5 U	2.5 U	2.5 U
Acrylonitrile	5	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	1	0.25 U	0.25 U	0.25 U	0.25 U
Bromobenzene	5	0.25 U	0.25 U	0.25 U	0.25 U
Bromochloromethane	5	0.25 U	0.25 U	0.25 U	0.25 U
Bromodichloromethane	50	0.25 U	0.25 U	0.25 U	0.25 U
Bromoform	50	0.25 U	0.25 U	0.25 U	0.25 U
Bromomethane	5	0.25 U	0.25 UJ	0.25 U	0.25 U
Carbon Disulfide	N/A	0.25 U	0.25 U	0.25 U	0.25 U
Carbon Tetrachloride	5	0.25 U	0.25 U	0.25 U	0.25 U
Chlorobenzene	5	0.25 U	0.25 U	0.25 U	0.25 U
Chloroethane	5	0.25 U	0.25 U	0.25 U	0.25 U
Chloroform	7	0.25 U	0.25 U	0.25 U	0.25 U
Chloromethane (Methyl Chloride)	5	0.25 U	0.25 U	0.25 U	0.25 U
Cis-1,2-Dichloroethene	5	0.25 U	0.25 U	0.25 U	0.25 U
Cis-1,3-Dichloropropene	0.4	0.25 U	0.25 U	0.25 U	0.25 U
Cyclohexane	N/A	--	--	--	--
Cymene (4-Isopropyltoluene)	5	0.25 U	0.25 U	0.25 U	0.25 U
Dibromochloromethane	50	0.25 U	0.25 U	0.25 U	0.25 U
Dibromomethane	5	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane	5	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ
Ethylbenzene	5	0.25 U	0.25 U	0.25 U	0.25 U
Hexachlorobutadiene	0.5	0.20 U	0.20 U	0.20 U	0.20 U
Isooctane (2,2,4-Trimethylpentane)	N/A	--	--	--	--
Isopropylbenzene (Cumene)	5	0.25 U	0.25 U	0.25 U	0.25 U
m,p-Xylene	5	0.25 U	0.25 U	0.25 U	0.25 U

Table 3: Summary of Analytical Results for Groundwater Samples (continued)
Structure OS-01

Analyte	NY TOGS 1.1.1 WQ/GA Table 1 [1]	Location: MW-B1 Sample ID: MW-B1-20240430 (1) Sample Type: Groundwater Sample Date: 04/30/24 Lab Report No: GCQ64221	Location: MW-B2 Sample ID: MW-B2-20240430 (1) Sample Type: Groundwater Sample Date: 04/30/24 Lab Report No: GCQ64221	Location: Basement Sump 1 Sample ID: W-1-20240430 (1) Sample Type: Groundwater Sample Date: 04/30/24 Lab Report No: GCQ64221	Location: Basement Sump 2 Sample ID: W-2-20240430 (1) Sample Type: Groundwater Sample Date: 04/30/24 Lab Report No: GCQ64221
VOCs by USEPA Method SW8260 (µg/L)					
Methyl Ethyl Ketone (2-Butanone)	50	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Isobutyl Ketone	N/A	2.5 U	2.5 U	2.5 U	2.5 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	5	0.25 U	0.25 U	0.25 U	0.25 U
n-Heptane	N/A	--	--	--	--
n-Hexane	N/A	--	--	--	--
n-Propylbenzene	5	0.25 U	0.25 U	0.25 U	0.25 U
Naphthalene	N/A	1.0 U	1.0 U	1.0 U	1.0 U
o-Cymene (O-Isopropyltoluene)	N/A	0.25 U	0.25 U	0.25 U	0.25 U
o-Xylene (1,2-Dimethylbenzene)	5	0.25 U	0.25 U	0.25 U	0.25 U
Sec-Butylbenzene	5	0.25 U	0.25 U	0.25 U	0.25 U
Styrene	5	0.25 U	0.25 U	0.25 U	0.25 U
t-Butylbenzene	5	0.25 U	0.25 U	0.25 U	0.25 U
Tert-Butyl Methyl Ether	N/A	0.25 U	0.25 U	0.25 U	0.25 U
Tetrachloroethene (PCE)	5	0.25 U	0.25 U	0.25 U	0.25 U
Tetrahydrofuran	50	2.5 U	2.5 U	2.5 U	2.5 U
Toluene	5	0.25 U	0.25 U	0.25 U	0.25 U
Trans-1,2-Dichloroethene	5	0.25 U	0.25 U	0.25 U	0.25 U
Trans-1,3-Dichloropropene	0.4	0.25 U	0.25 U	0.25 U	0.25 U
Trans-1,4-Dichloro-2-Butene	5	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Trichloroethene (TCE)	5	0.25 U	0.25 U	0.25 U	0.25 U
Trichlorofluoromethane	5	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ
Vinyl Chloride	2	0.25 U	0.25 U	0.25 U	0.25 U

Key:

Qualifiers

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Notes

N/A = No standard or guidance value available

VOCs = Volatile organic compounds

µg/L = Micrograms per Liter

-- = Compound not analyzed

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

Table 4: Groundwater Level Summary

Well ID	Date	Well Total Depth (ft btoc)	Well Top of Casing Elevation (ft msl)	Depth To Groundwater (ft btoc)	Groundwater Elevation (ft msl)
MW-B1	04/30/24	17.45	157.29	9.02	148.27
MW-B2	04/30/24	19.90	156.57	9.28	147.29
MW-9	04/30/24	14.36	152.37	9.35	143.02
MW-10	04/30/24	20.20	151.06	12.07	138.99

Key:

ft msl = Feet mean sea level

ft btoc = Feet below well top of casing

Table 5A: Indoor Air Analytical Results Compared with NYSDOH Guidance
2022/2023 Heating Season
Structure OS-01

Location:	Basement	1st Floor	1st Floor	Outdoor	NYSDOH	NYSDOH
Sample ID	IA-3	IA-1	IA-2	OA-1	Air Guideline	Immediate
Sample Type:	Indoor Air	Indoor Air	Indoor Air	Outdoor Air	Value	Action Level
Sample Date:	3/17/2023	3/17/2023	3/17/2023	3/17/2023		
Analyte						
VOCs by USEPA Method TO-15 (ug/m3)						
Methylene Chloride	0.57 U	0.57 U	**0.62 J**	0.57 U	60	NA
Tetrachloroethylene (PCE)	**0.68**	**0.68**	**0.62**	**0.73**	30	300
Trichloroethylene (TCE)	0.13 U	**0.32**	**0.14 J**	0.13 U	2	20

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Indicates exceedance of Air Guidline Value

Indicates exceedence of Immediate Action Level

Notes

Table shows only the three compounds that have NYSDOH Air Guideline Values and Immediation Action Levels.

Air Guidline Values and Immediate Action Levels applicable to indoor air analytical results only; Outdoor air sample results included for reference.

Bold value indicates compound was detected.

Other

VOCs = Volatile organic compounds

µg/m3 = Micrograms per cubic meter

Table 5B: Soil Vapor Intrusion Analytical Results Compared with NYSDOH Decision Matrices
2022/2023 Heating Season
Structure OS-01

Location:	Basement	Basement			NYSDOH Decision Matrix
Sample ID:	SS-3	IA-3			Recommended Actions
Sample Type:	Soil Vapor	Indoor Air			
Sample Date:	3/17/2023	3/17/2023			
Analyte					
VOCs by USEPA Method TO-15 (ug/m3)					
1,1,1-Trichloroethane (TCA)	**1.5**	0.15 U	---	---	No Further Action
1,1-Dichloroethylene	0.30 U	0.11 U	---	---	No Further Action
Carbon Tetrachloride	0.50 U	**0.45**	---	---	No Further Action
Cis-1,2-Dichloroethylene	0.29 U	0.10 U	---	---	No Further Action
Methylene Chloride	1.6 U	0.57 U	---	---	No Further Action
Tetrachloroethylene (PCE)	**7.2**	**0.68**	---	---	No Further Action
Trichloroethylene (TCE)	0.36 U	0.13 U	---	---	No Further Action
Vinyl Chloride	**0.28**	0.081 U	---	---	No Further Action

Location:	1st Floor	1st Floor	1st Floor		NYSDOH Decision Matrix
Sample ID:	SS-1A	SS-1B	IA-1		Recommended Actions
Sample Type:	Soil Vapor	Soil Vapor	Indoor Air		
Sample Date:	3/17/2023	3/17/2023	3/17/2023		
Analyte					
VOCs by USEPA Method TO-15 (ug/m3)					
1,1,1-Trichloroethane (TCA)	**16**	**17**	0.15 U	---	No Further Action
1,1-Dichloroethylene	0.30 U	0.30 U	0.11 U	---	No Further Action
Carbon Tetrachloride	0.50 U	0.50 U	**0.45**	---	No Further Action
Cis-1,2-Dichloroethylene	0.29 U	**0.73**	0.10 U	---	No Further Action
Methylene Chloride	1.6 U	1.6 U	0.57 U	---	No Further Action
Tetrachloroethylene (PCE)	**3.4**	**7.9**	**0.68**	---	No Further Action
Trichloroethylene (TCE)	**53**	**270**	**0.32**	---	Mitigate
Vinyl Chloride	**0.36 J**	**0.29**	0.081 U	---	No Further Action

Location:	1st Floor	1st Floor			NYSDOH Decision Matrix
Sample ID:	SS-2	IA-2			Recommended Actions
Sample Type:	Soil Vapor	Indoor Air			
Sample Date:	3/17/2023	3/17/2023			
Analyte					
VOCs by USEPA Method TO-15 (ug/m3)					
1,1,1-Trichloroethane (TCA)	**0.44 J**	0.15 U	---	---	No Further Action
1,1-Dichloroethylene	0.30 U	0.11 U	---	---	No Further Action
Carbon Tetrachloride	0.50 U	**0.45**	---	---	No Further Action
Cis-1,2-Dichloroethylene	0.29 U	0.10 U	---	---	No Further Action
Methylene Chloride	1.6 U	**0.62 J**	---	---	No Further Action
Tetrachloroethylene (PCE)	0.52 U	**0.62**	---	---	No Further Action
Trichloroethylene (TCE)	0.36 U	**0.14 J**	---	---	No Further Action
Vinyl Chloride	**0.25 J**	0.081 U	---	---	No Further Action

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Notes

Table shows only the compounds included in the NYSDOH Decision Matrices.

Bold value indicates compound was detected.

Other

VOCs = Volatile organic compounds

µg/m3 = Micrograms per cubic meter

Table 6A: Indoor Air Analytical Results Compared with NYSDOH Guidance
2022/2023 Heating Season
Structure OS-04

Analyte / Location: / Sample ID: / Sample Type: / Sample Date:	1st Floor SS-1 Soil Vapor 2/8/2023	1st Floor IA-1 Indoor Air 2/8/2023	Outdoor OA-1 Outdoor Air 2/8/2023	NYSDOH Air Guideline Value	NYSDOH Immediate Action Level
VOCs by USEPA Method TO-15 (ug/m3)					
Methylene Chloride	1.6 U	0.57 U	0.57 U	60	NA
Tetrachloroethylene (PCE)	0.52 U	**0.32**	**0.25**	30	300
Trichloroethylene (TCE)	0.36 U	0.13 U	**4.7**	2	20

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Indicates exceedance of Air Guidline Value

Indicates exceedence of Immediate Action Level

Notes

Table shows only the three compounds that have NYSDOH Air Guideline Values and Immediation Action Levels.

Air Guidline Values and Immediate Action Levels applicable to indoor air analytical results only; Outdoor air sample results included for reference.

Bold value indicates compound was detected.

Other

VOCs = Volatile organic compounds

µg/m3 = Micrograms per cubic meter

Table 6B: Soil Vapor Intrusion Analytical Results Compared with NYSDOH Decision Matrices
2022/2023 Heating Season
Structure OS-04

Location: / Sample ID: / Sample Type: / Sample Date: / Analyte	1st Floor SS-1 Soil Vapor 2/8/2023	1st Floor IA-1 Indoor Air 2/8/2023	NYSDOH Decision Matrix Recommended Actions
VOCs by USEPA Method TO-15 (ug/m3)			
1,1,1-Trichloroethane (TCA)	0.43 U	0.15 U	No Further Action
1,1-Dichloroethylene	0.30 U	0.11 U	No Further Action
Carbon Tetrachloride	0.50 U	**0.37**	No Further Action
Cis-1,2-Dichloroethylene	0.29 U	0.10 U	No Further Action
Methylene Chloride	1.6 U	0.57 U	No Further Action
Tetrachloroethylene (PCE)	0.52 U	**0.32**	No Further Action
Trichloroethylene (TCE)	0.36 U	0.13 U	No Further Action
Vinyl Chloride	0.23 U	0.081 U	No Further Action

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Notes

Table shows only the compounds included in the NYSDOH Decision Matrices.

Bold value indicates compound was detected.

Other

VOCs = Volatile organic compounds

µg/m3 = Micrograms per cubic meter

Table 7A: Indoor Air Analytical Results Compared with NYSDOH Guidance
2022/2023 Heating Season
Structure OS-07

Location: / Sample ID / Sample Type: / Sample Date: / Analyte	1st Floor IA-1 Indoor Air 2/8/2023	1st Floor IA-2 Indoor Air 2/8/2023	1st Floor IA-3 Indoor Air 2/8/2023	Outdoor OA-1 Outdoor Air 2/8/2023	NYSDOH Air Guideline Value	NYSDOH Immediate Action Level
VOCs by USEPA Method TO-15 (ug/m3)						
Methylene Chloride	**1.7**	**0.60 J**	**0.66 J**	0.57 U	60	NA
Tetrachloroethylene (PCE)	**1.1**	**0.85**	**0.84**	**0.25**	30	300
Trichloroethylene (TCE)	**49**	**4.2**	**3.1**	**4.7**	2	20

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Indicates exceedance of Air Guidline Value

Indicates exceedence of Immediate Action Level

Notes

Table shows only the three compounds that have NYSDOH Air Guideline Values and Immediation Action Levels.

Air Guidline Values and Immediate Action Levels applicable to indoor air analytical results only; Outdoor air sample results included for reference.

Bold value indicates compound was detected.

Other

VOCs = Volatile organic compounds

µg/m3 = Micrograms per cubic meter

Table 7B: Soil Vapor Intrusion Analytical Results Compared with NYSDOH Decision Matrices
2022/2023 Heating Season
Structure OS-07

Location: / Sample ID: / Sample Type: / Sample Date: / Analyte	1st Floor SS-1 Soil Vapor 2/8/2023	1st Floor IA-1 Indoor Air 2/8/2023	NYSDOH Decision Matrix Recommended Actions
VOCs by USEPA Method TO-15 (ug/m3)			
1,1,1-Trichloroethane (TCA)	**1.9**	0.15 U	No Further Action
1,1-Dichloroethylene	0.30 U	0.11 U	No Further Action
Carbon Tetrachloride	0.50 U	**0.42**	No Further Action
Cis-1,2-Dichloroethylene	0.29 U	0.10 U	No Further Action
Methylene Chloride	1.6 U	**1.7**	No Further Action
Tetrachloroethylene (PCE)	**13**	**1.1**	No Further Action
Trichloroethylene (TCE)	**8.8**	**49**	Mitigate
Vinyl Chloride	0.23 U	0.081 U	No Further Action

Location: / Sample ID: / Sample Type: / Sample Date: / Analyte	1st Floor SS-2 Soil Vapor 2/8/2023	1st Floor IA-2 Indoor Air 2/8/2023	NYSDOH Decision Matrix Recommended Actions
VOCs by USEPA Method TO-15 (ug/m3)			
1,1,1-Trichloroethane (TCA)	**17**	0.15 U	No Further Action
1,1-Dichloroethylene	0.30 U	0.11 U	No Further Action
Carbon Tetrachloride	0.50 U	**0.39**	No Further Action
Cis-1,2-Dichloroethylene	0.29 U	0.10 U	No Further Action
Methylene Chloride	1.6 U	**0.60 J**	No Further Action
Tetrachloroethylene (PCE)	**4.4**	**0.85**	No Further Action
Trichloroethylene (TCE)	**2.6**	**4.2**	Identify Source(s) and Resample or Mitigate
Vinyl Chloride	0.23 U	0.081 U	No Further Action

Location: / Sample ID: / Sample Type: / Sample Date: / Analyte	1st Floor SS-3 Soil Vapor 2/8/2023	1st Floor IA-3 Indoor Air 2/8/2023	NYSDOH Decision Matrix Recommended Actions
VOCs by USEPA Method TO-15 (ug/m3)			
1,1,1-Trichloroethane (TCA)	**1.5**	0.15 U	No Further Action
1,1-Dichloroethylene	0.30 U	0.11 U	No Further Action
Carbon Tetrachloride	0.50 U	**0.37**	No Further Action
Cis-1,2-Dichloroethylene	0.29 U	0.10 U	No Further Action
Methylene Chloride	1.6 U	**0.66 J**	No Further Action
Tetrachloroethylene (PCE)	**1.7**	**0.84**	No Further Action
Trichloroethylene (TCE)	**3.6**	**3.1**	Identify Source(s) and Resample or Mitigate
Vinyl Chloride	0.23 U	0.081 U	No Further Action

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Notes

Table shows only the compounds included in the NYSDOH Decision Matrices.

Bold value indicates compound was detected.

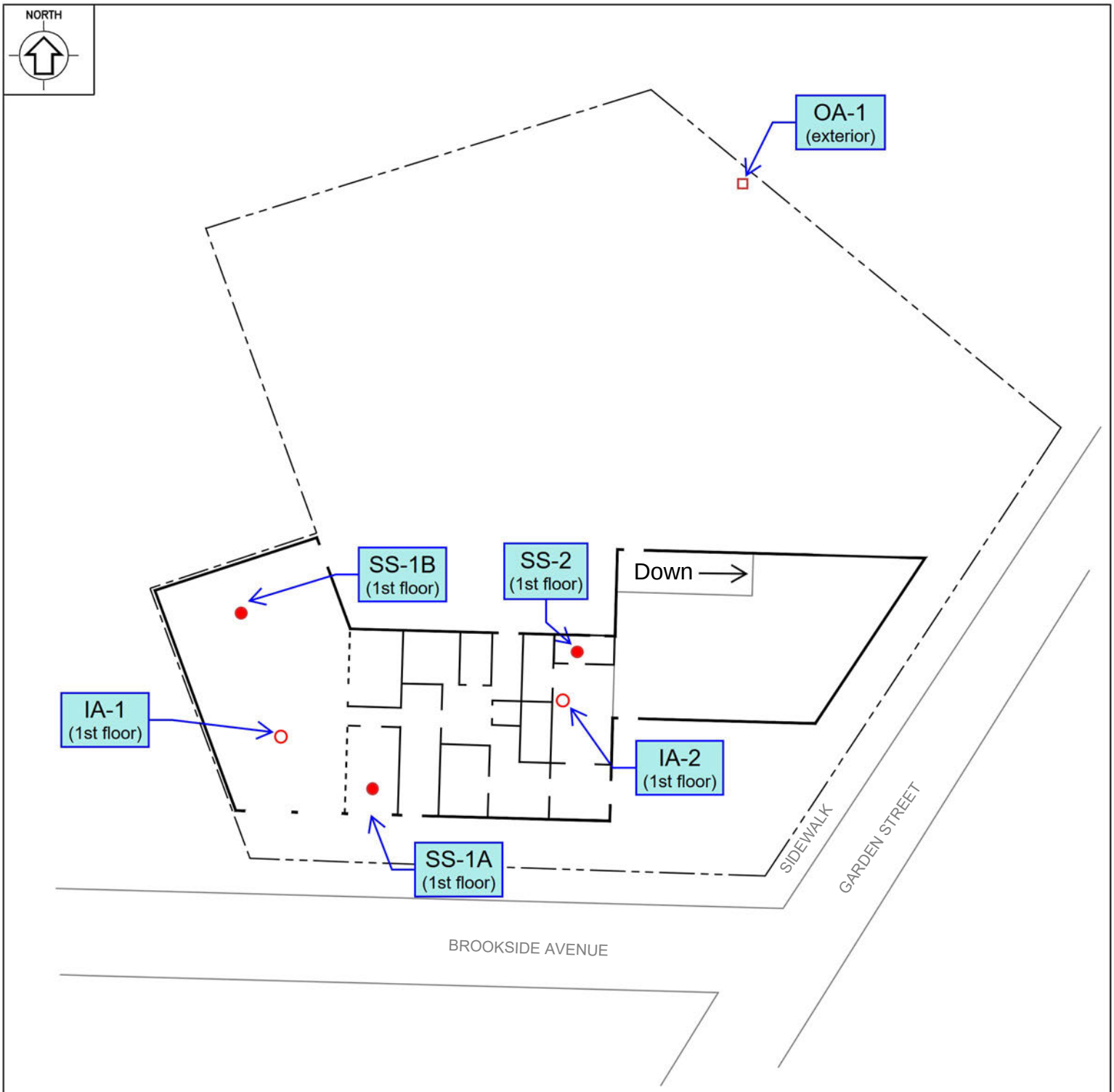
Other

VOCs = Volatile organic compounds

µg/m3 = Micrograms per cubic meter

Figures


N
PARKER AVE
164 GARDEN STREET
STANDARD GAGE & COAL
58 PARKER AVENUE
STANDARD GAGE & COAL
OS-01
GARDEN ST
OS-07
OS-05 & 06
Fall Kill Creek
OS-02
OS-03
OS-04
LEGEND
BROWNFIELD CLEANUP PROGRAM SITE
OFF-SITE STRUCTURE SVI SAMPLING COMPLETED
OFF-SITE STRUCTURE SVI SAMPLING NOT COMPLETED
SURFACE WATER
TAX PARCEL BOUNDARY
NOTES:
SVI - SOIL VAPOR INTRUSION
OS-# - OFF-SITE STRUCTURE IDENTIFICATION
ALL SHADED OFF-SITE STRUCTURES DESIGNATED FOR SVI SAMPLING DURING THE 2022/2023 HEATING SEASON.
Division of Environmental Remediation
SITE LOCATION PLAN
SOIL VAPOR INTRUSION SAMPLING
2022/2023 HEATING SEASON
STANDARD GAGE & COAL STORAGE OFF-SITE
NYSDEC SITE NO. C314131A
58 PARKER AVE & 164 GARDEN ST
POUGHKEEPSIE, NY 12601
ecology and environment
engineering and geology, p.c.
40 La Riviere Dr., Suite 320
Buffalo, New York 14202
DRAWING NO.: FIGURE 1
DATE: MAY 2023
SCALE: 0 50 100 200 Feet



SCALE: 0' 15' 30' Feet

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SUB-SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AMBIENT AIR SAMPLE LOCATION
- OUTDOOR AMBIENT AIR SAMPLE LOCATION

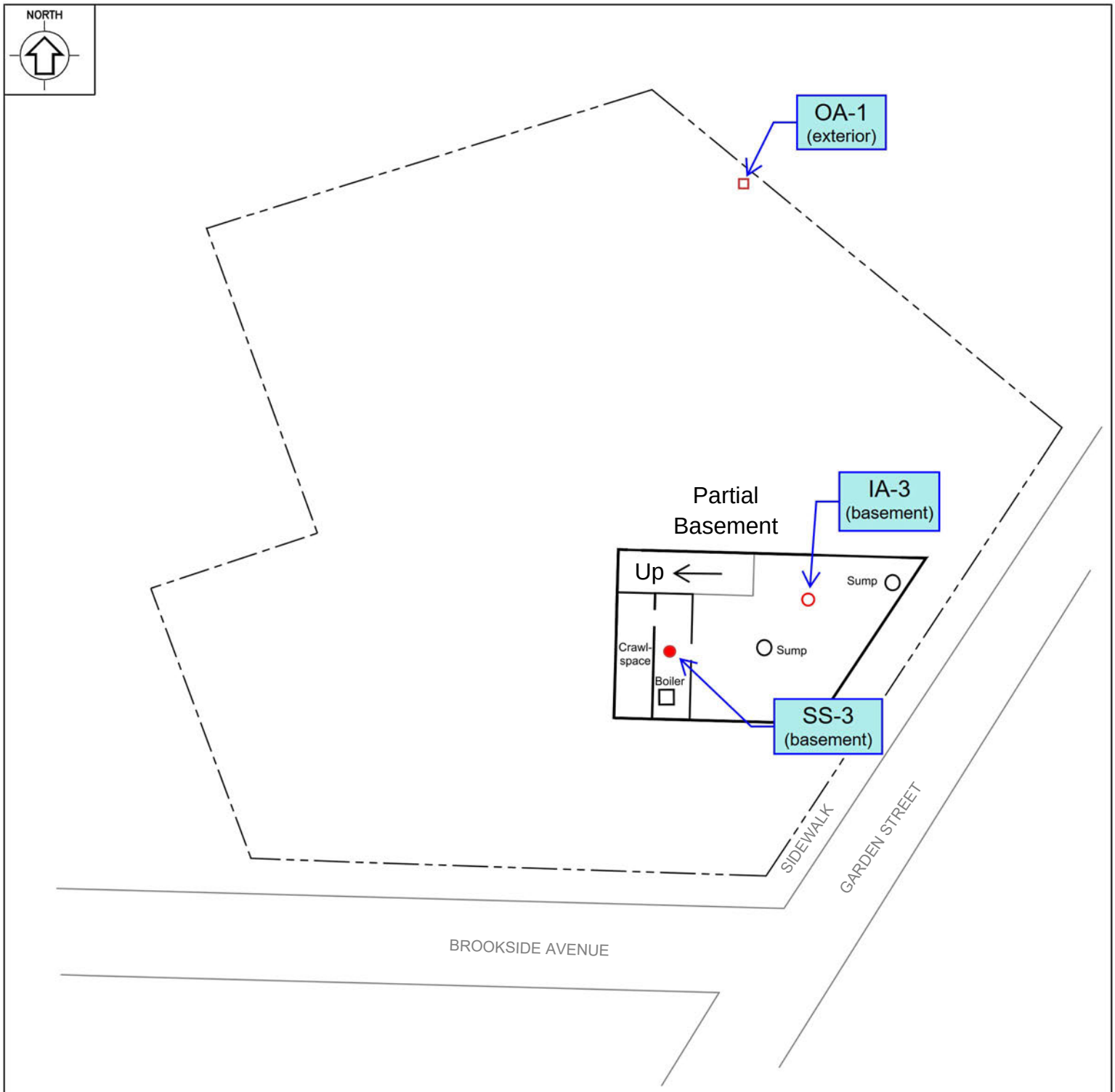
NOTE: SAMPLE LOCATIONS ARE APPROXIMATE.

SOIL VAPOR INTRUSION SAMPLING LOCATIONS
COLLECTED MARCH 17, 2023
STANDARD GAGE & COAL
NYSDEC SITE NO. C314131A
STRUCTURE OS-01
FIRST FLOOR

Division of Environmental Remediation

ecology and environment engineering and geology, p.c.
40 La Riviere Dr. Suite 320
Buffalo, New York 14202

DRAWING NO: FIG. 2A
DATE: SEPT 2023
SCALE: APPROX. 1" = 30'-0"



SCALE: 0' 15' 30' Feet

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SUB-SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AMBIENT AIR SAMPLE LOCATION
- OUTDOOR AMBIENT AIR SAMPLE LOCATION

NOTE: SAMPLE LOCATIONS ARE APPROXIMATE.

SOIL VAPOR INTRUSION SAMPLING LOCATIONS
COLLECTED MARCH 17, 2023
STANDARD GAGE & COAL
NYSDEC SITE NO. C314131A
STRUCTURE OS-01
BASEMENT

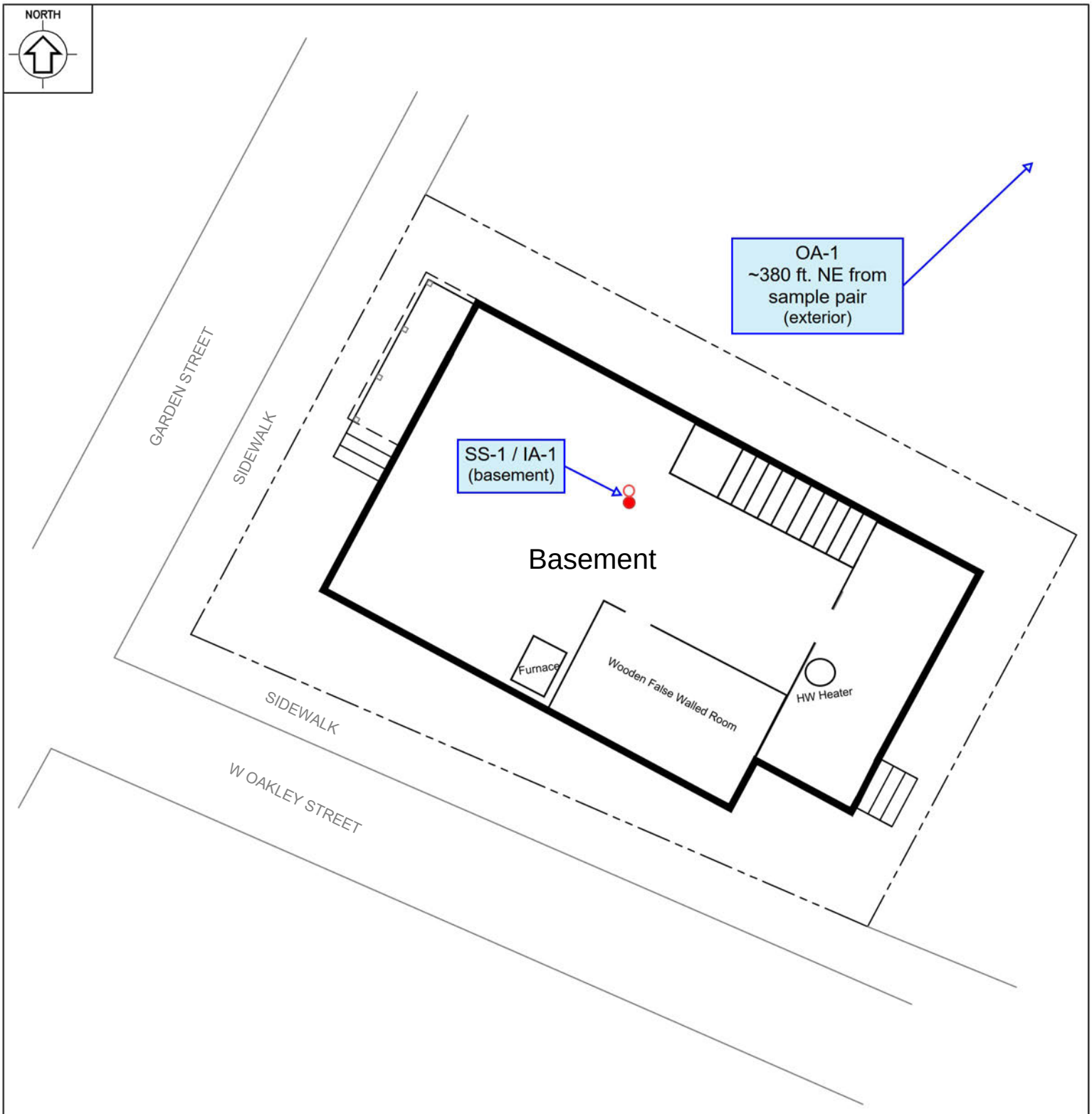
Division of Environmental Remediation

ecology and environment
engineering and geology, p.c.
40 La Riviere Dr. Suite 320
Buffalo, New York 14202

DRAWING NO: FIG. 2B

DATE: SEPT 2023

SCALE: APPROX. 1" = 30'-0"



0' 5' 10'
SCALE: Feet

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SUB-SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AMBIENT AIR SAMPLE LOCATION
- OUTDOOR AMBIENT AIR SAMPLE LOCATION

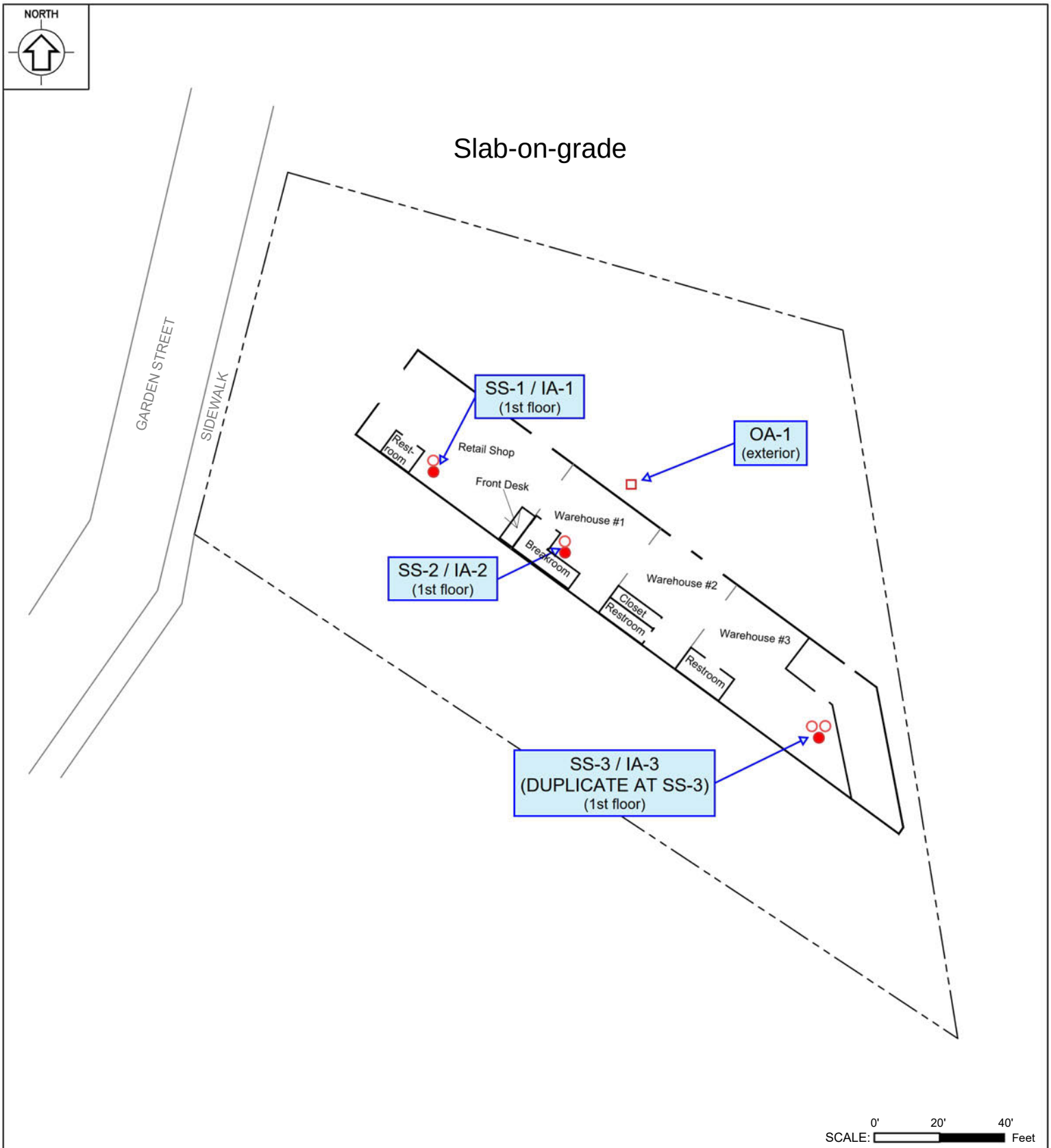
NOTE: SAMPLE LOCATIONS ARE APPROXIMATE.

SOIL VAPOR INTRUSION SAMPLING LOCATIONS
COLLECTED FEBRUARY 8, 2023
STANDARD GAGE & COAL
NYSDEC SITE NO. C31413A
STRUCTURE OS-04

Division of Environmental Remediation

ecology and environment
engineering and geology, p.c.
40 La Riviere Dr. Suite 320
Buffalo, New York 14202

DRAWING NO: FIG. 3
DATE: SEPT 2023
SCALE: APPROX. 1" = 10'-0"



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SUB-SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AMBIENT AIR SAMPLE LOCATION
- OUTDOOR AMBIENT AIR SAMPLE LOCATION

NOTE: SAMPLE LOCATIONS ARE APPROXIMATE.

SOIL VAPOR INTRUSION SAMPLING LOCATIONS
COLLECTED FEBRUARY 8, 2023
STANDARD GAGE & COAL
NYSDEC SITE NO. C314131A
STRUCTURE 0S-07

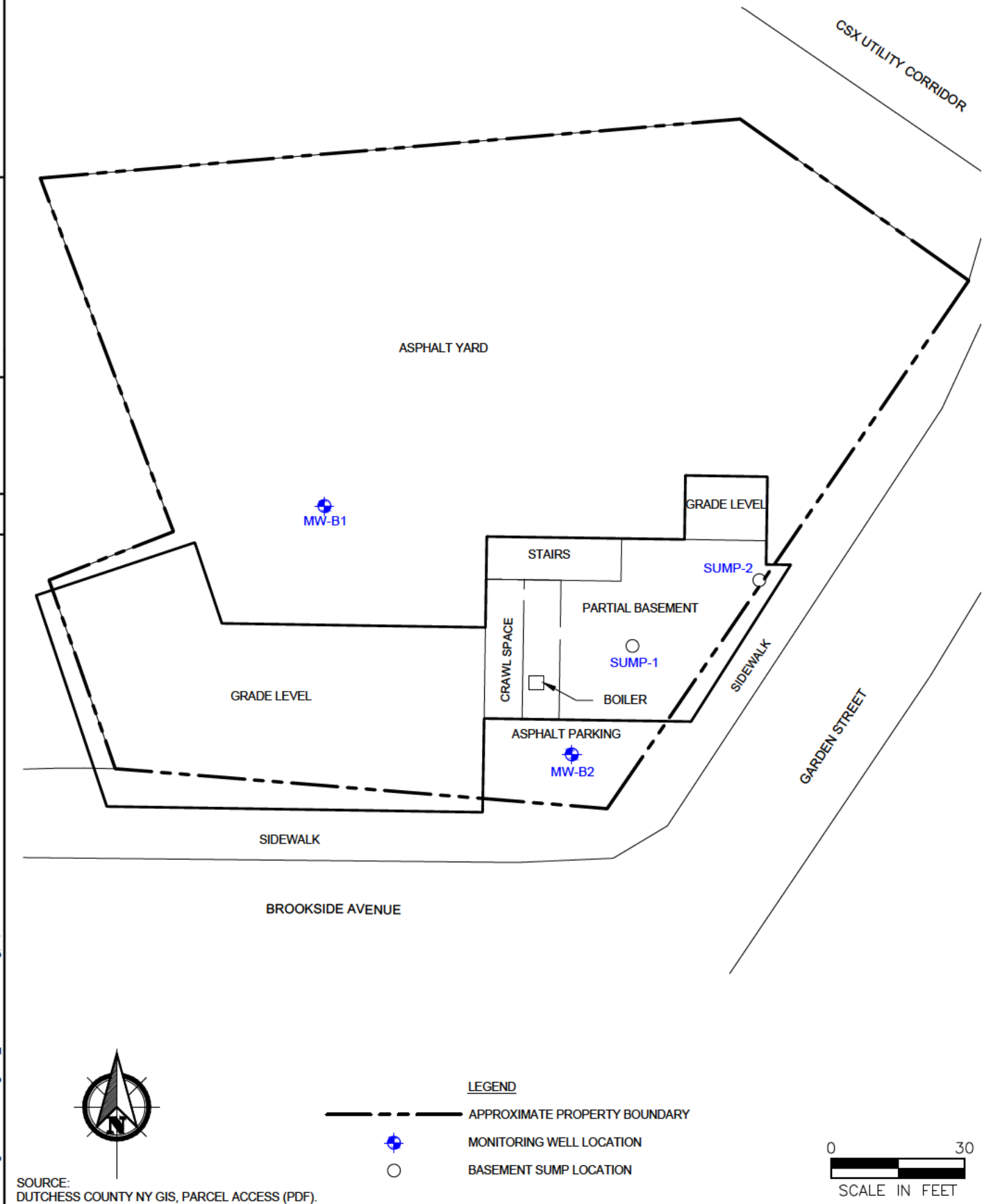
Division of Environmental Remediation

ecology and environment engineering and geology, p.c.
40 La Riviere Dr. Suite 320
Buffalo, New York 14202

DRAWING NO: FIG. 4

DATE: SEPT 2023

SCALE: APPROX. 1" = 40'-0"



SOURCE:
DUTCHESS COUNTY NY GIS, PARCEL ACCESS (PDF).

DWG Date: 07/11/24
Checked: DM
Approved: RW
Drawn By: RAC
A

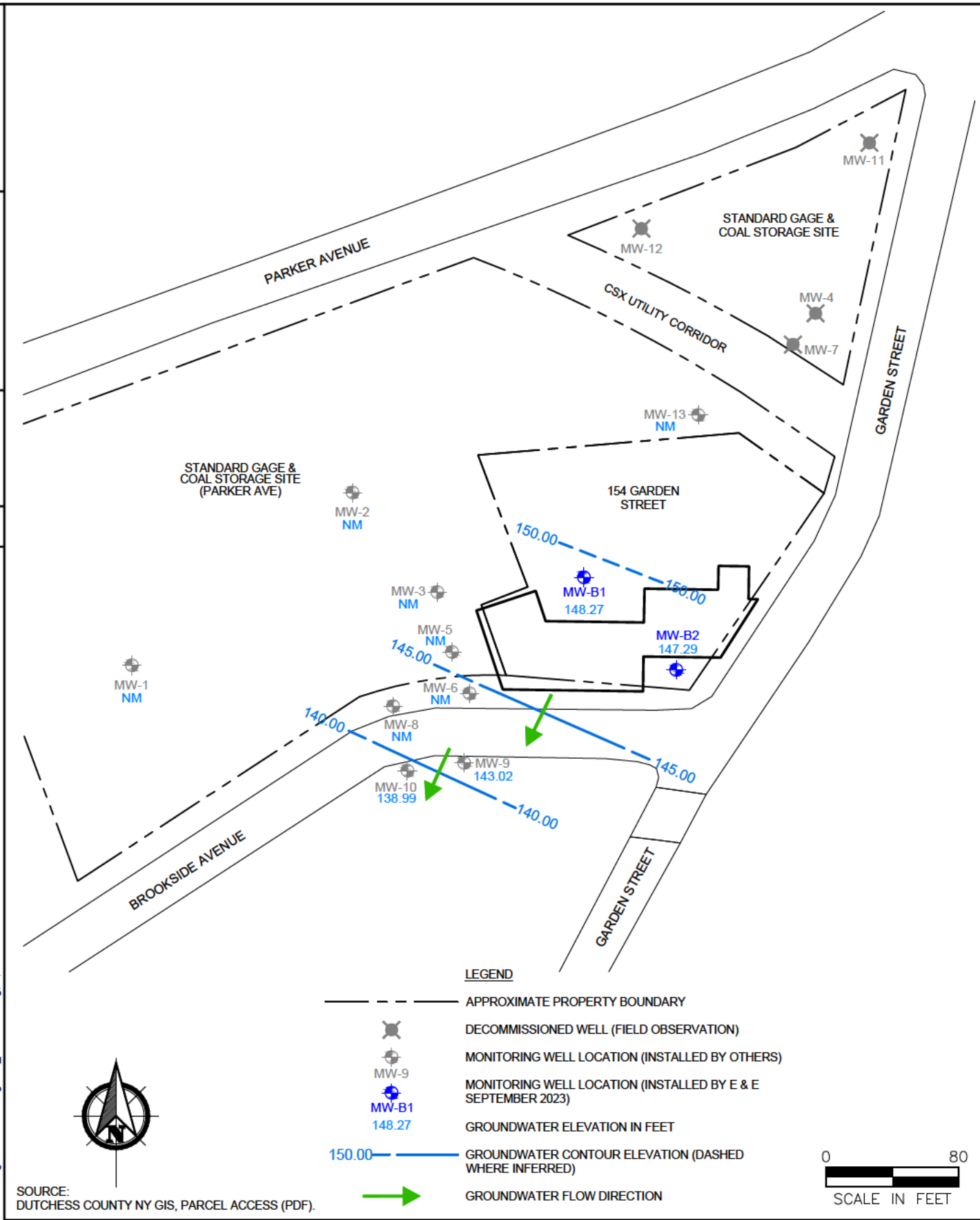
O:\DWG\NYS DEC\Standard Gage & Coal Storage\F1_SSInvest23-24.dwg, A, 7/11/2024 2:01:01 PM

WSP USA Inc.
40 La Riviere Drive
Suite 320
Buffalo, New York 14202
(716) 853-1220

Standard Gage & Coal Storage
NYSDEC Site No. C314131A
Off-Site Structure OS-01

SUBSURFACE INVESTIGATION
SEPTEMBER 2023/APRIL 2024

FIGURE 5



SOURCE:
DUTCHESS COUNTY NY GIS, PARCEL ACCESS (PDF).

DWG Date: 07/11/24
Checked: DM
Approved: RW
Drawn By: RAC
A

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WSP USA Inc.
40 La Riviere Drive
Suite 320
Buffalo, New York 14202
(716) 853-1220

Standard Gage & Coal Storage
NYSDEC Site No. C314131A
Off-Site Structure OS-01

GROUNDWATER ELEVATION CONTOUR MAP - APRIL 30, 2024

FIGURE 6

A NYSDEC Site No. C314131, Fact Sheet

NEW YORK STATE | Department of Environmental Conservation

Where to Find Information
Access project documents through the DECinfo Locator/on-line repository and at this location:

https://www.dec.ny.gov/data/DecDocs/C314131/.

Document Repository
Adriance Memorial Library
93 Market Street
Poughkeepsie, New York 12601

Who to Contact
Comments and questions are welcome and should be directed as follows:

Project-Related Questions
Mark Domaracki, Project Manager
NYSDEC
625 Broadway
Albany NY 12233
(518) 402-9832
mark.domaracki@dec.ny.gov

Project-Related Health Questions
Mark Sergott, P.G., Project Manager
NYSDOH – Bureau of Environmental Exposure Investigation
ESP - Corning Tower, Room 1787
Albany New York 12237
(518) 402-7860
beei@health.ny.gov

For more information about New York's Brownfield Cleanup Program, visit:
https://dec.ny.gov/environmental-protection/site-cleanup/brownfield-and-state-superfund-programs/brownfield

FACT SHEET

Brownfield Cleanup Program

Standard Gage & Coal
58 Parker & 164 Garden St.
Poughkeepsie, NY, 12601

SITE No. C314131
NYSDEC REGION 3

December 2024

NYSDEC Certifies Cleanup Requirements Achieved at Brownfield Site

The New York State Department of Environmental Conservation (NYSDEC) has determined that the cleanup requirements to address contamination related to the Standard Gage & Coal site ("site") located at 58 Parker Avenue and 164 Garden Street, Poughkeepsie, New York under New York State's Brownfield Cleanup Program have been met. Please see the map for the site location.

The cleanup activities were performed by Northside Junction, LLC ("applicant") with oversight provided by the New York State Department of Environmental Conservation (NYSDEC). NYSDEC has approved a Final Engineering Report (FER) and issued a Certificate of Completion (COC) for the site.

- Access the FER, Notice of COC and other project documents online through the DECinfo Locator: https://extapps.dec.ny.gov/data/DecDocs/C314131/.
- The documents also are available at the location(s) identified at left under "Where to Find Information."

Completion of the Project: The following activities have been completed to achieve the remedial action objectives:

- Excavation - Excavation and off-site disposal of about 750 cubic yards of contaminated material exceeding the protection of groundwater standards, the site-specific cleanup criteria. Clean fill was brought in to replace the excavated soil and to establish the design grades at the site;
- Soil Vapor Extraction System – This system was installed to prevent contaminated soil vapors from leaving the site;
- Sub-Slab Depressurization System - This system was installed in on-site buildings to prevent exposure to contaminated soil vapor in indoor air;
- Site Cover System – The site cover is designed to meet Restricted Residential soil cleanup objectives and Commercial soil cleanup objectives based on the site use. The site cover consists of the structures (buildings, pavement, sidewalks) and one-foot of clean soil cover in commercial use areas and two-foot clean soil cover in restricted residential use areas.
- An Environmental Easement was recorded to prevent future exposure to any contamination remaining at the site and to ensure implementation of the Site Management Plan (SMP).

- Development of an SMP for long-term management of residual contamination as required by the Environmental Easement, including plans for: (1) Institutional and Engineering Controls (IC/ECs); (2) monitoring; (3) operation and maintenance; and (4) reporting.

Final Engineering Report Approved: NYSDEC has approved the FER, which:

1) Describes the cleanup activities completed.
2) Certifies that cleanup requirements have been achieved for the site.
3) Describes any institutional/engineering controls to be used. An *institutional control* is a non-physical restriction on use of the site, such as a deed restriction, when contamination left over after the cleanup action makes the site suitable for some, but not all uses. An *engineering control* is a physical barrier or method to manage contamination such as a cap or vapor barrier.
4) Certifies that a site management plan for any engineering controls used at the site has been approved by NYSDEC.

The following institutional controls have been put in place on the site:

- Site Management Plan
- Groundwater Use Restriction
- Land Use Restriction
- Environmental Easement

The following engineering controls have been put in place on the site:

- Cover System
- Soil Vapor Extraction System

Next Steps: With its receipt of a COC, the applicant is eligible to redevelop the site. In addition, the applicant is eligible for tax credits to offset the costs of performing cleanup activities and for redevelopment of the site. A COC may be modified or revoked if, for example, there is a failure to comply with the terms of the order or agreement with NYSDEC.

Site Description: The approximately 2.6-acre site consists of two parcels separated by a formerly used rail spur. The parcels, 58 Parker Avenue and 164 Garden Street, are located in Poughkeepsie, New York. The site is located in a mixed commercial, industrial, residential, and recreational use neighborhood. Site reuse is approved for commercial and recreational use.

58 Parker Avenue has been redeveloped for commercial and recreational use. Four on-site buildings have been refurbished and five buildings were demolished. The refurbished buildings have been improved with a sub slab depressurization system or vapor barrier. The buildings are commercial use office spaces and community meeting space. Commercial standards have been achieved in commercial use areas of the property. The area adjacent to the former rail spur meets restricted residential standards for recreational use as a park.

The 164 Garden Street parcel is developed with a single-story commercial warehouse which is currently vacant. The parcel has been remediated and meets commercial standards.

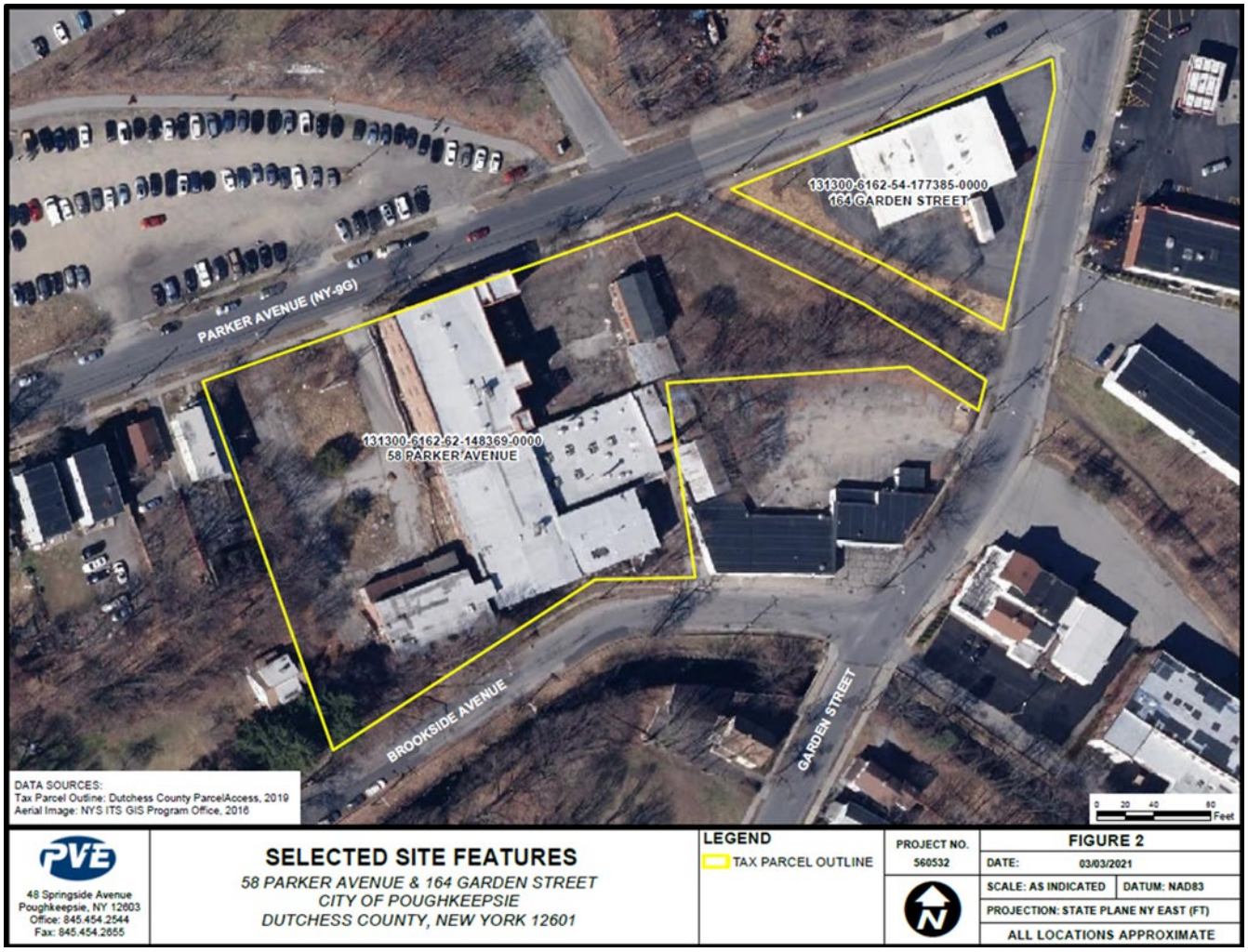
Additional site details, including environmental and health assessment summaries, are available on NYSDEC's Environmental Site Remediation Database (by entering the site ID, C314131) at: https://extapps.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=3

Brownfield Cleanup Program: New York's Brownfield Cleanup Program (BCP) encourages the voluntary cleanup of contaminated properties known as "brownfields" so that they can be reused and redeveloped. These uses may include recreation, housing, business or other uses. A brownfield site is any real property where a contaminant is present at levels exceeding the soil cleanup objectives or other health-based or environmental standards, criteria or guidance adopted by NYSDEC that are applicable based on the reasonably anticipated use of the property, in accordance with applicable regulations.

For more information about the BCP, visit: https://dec.ny.gov/environmental-protection/site-cleanup/brownfield-and-state-superfund-programs/brownfield

We encourage you to share this fact sheet with neighbors and tenants, and/or post this fact sheet in a prominent area of your building for others to see.

Site Location



Stay Informed With DEC Delivers
Sign up to receive site updates by email: https://dec.ny.gov/environmental-protection/site-cleanup/regional-remediation-project-information/environmental-cleanup-email-newsletters

Note: Please disregard if you already have signed up and received this fact sheet electronically.

DECinfo Locator
Interactive map to access DEC documents and public data about the environmental quality of specific sites: https://dec.ny.gov/maps/interactive-maps/decinfo-locator

NEW YORK STATE | Department of Environmental Conservation

Kathy Hochul, Governor | Sean Mahar, Interim Commissioner www.dec.ny.gov

Translation Available. Don't see your language? Ask!

English	To have this document translated into a language you can understand, contact the person below. There is no charge for the translation.
Español **Spanish**	Si necesita la traducción de este documento a un idioma que pueda entender, comuníquese con la persona indicada abajo. La traducción es gratis.
简体字 **Simplified Chinese**	如需將此文件翻譯成您能理解的語言版本，請聯絡下方人員。本次翻譯不收取費用。
Русский **Russian**	Чтобы получить перевод этого документа на понятный вам язык, свяжитесь с представителем, данные которого указаны ниже. Плата за эту услугу не взимается.
אידיש **Yiddish**	צו האבן די דאקומענט איבערגעטייטשט אין א שפראך וואס איר קענט פארשטיין, פארבינדט זיך מיט די פערזאן אונטן. די איבערטייטשונג איז פריי פון אפצאל.
বাঙালি **Bengali**	এই নথিটি আপনি বুঝতে পারেন এমন একটি ভাষায় অনুবাদ করতে, নিম্নলিখিত ব্যক্তির সাথে যোগাযোগ করুন। অনুবাদের জন্য কোন চার্জ দিতে হবে না।
한국어 **Korean**	이 언어를 본인이 이해할 수 있는 언어로 받아보려면 아래 담당자에게 문의하십시오. 번역료는 없습니다.
Kreyòl Ayisyen **Haitian Creole**	Pou yo ka tradwi dokiman sa nan yon lang ou ka konprann, kontakte moun ki anba a. Ou p'ap peye anyen pou tradiksyon an.
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العربية **Arabic**	لترجمة هذا المستند إلى لغة يمكنك فهمها، تواصل مع الشخص أدناه. لا يتم تطبيق رسوم مقابل الترجمة.
Języky Polski **Polish**	Aby uzyskać tłumaczenie tego dokumentu na język, który jest dla Ciebie zrozumiały, skontaktuj się z poniższą osobą. Za tłumaczenie nie jest pobierana żadna opłata.

Contact: Mark Domaracki, 518-402-9832, mark.domaracki@dec.ny.gov

B

Soil Vapor Intrusion Sampling Procedures

ecology and environment
engineering and geology, p.c.

Soil Vapor Intrusion Sampling Procedures
Region 3 SVI Off-Site
Multiple Sites
2022/2023 Heating Season

1 Introduction

Ecology and Environment Engineering and Geology, P.C. (E & E), on behalf of the New York State Department of Environmental Conservation (NYSDEC), conducted off-site soil vapor intrusion (SVI) sampling activities associated with multiple State Superfund Program (SSF) and Brownfield Cleanup Program (BCP) sites located in NYSDEC Region 3. For each site, NYSDEC designated the off-site properties/structures to be sampled and notified property owners. E & E ensured signed access agreements were obtained, coordinated sampling events with the owners or their representatives, and conducted the sampling procedures as specified in the sections below.

All work activities were performed in accordance with the NYSDEC *DER-10 Technical Guidance for Site Investigation and Remediation (May 2010)* and the New York State Department of Health (NYSDOH) *Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006 and associated updates)*; and, in accordance with E & E's *Master Quality Assurance Project Plan (2020)* and *Field Activities Plan (2020)*.

2 Building Inspection and Chemical Inventory

Prior to each sampling event, a building inspection was conducted to identify conditions that could affect or interfere with SVI sampling. The building foundation floor slab and walls were inspected for cracks, utility penetrations, or any other pathways for soil vapor or exterior air to enter the building. The owner/representative was interviewed to determine building details and layout, current occupants and use, and information about the heating, ventilation, and cooling (HVAC) systems. Sampling was completed when the building heating system was on.

An inventory of chemical products within the building was completed to identify potential sources of SVI sampling interference. The basement/first floor air was screened for the presence of volatile organic compounds (VOCs) using a ppbRAE photoionization detector (PID). The building inspection and chemical inventory data were recorded on the NYSDEC *Structure Sampling Questionnaire and Building Inventory* form.

3 SVI Sampling Procedures

The sampling protocol included the collection of at least one sub-slab soil vapor sample from beneath the foundation floor slab and one collocated indoor air sample approximately 3 to 5 feet above the floor (a sample pair). The actual samples collected may have differed for a variety of reasons including the presence of crawlspaces, partial basements, or groundwater directly beneath the slab. Multiple sample pairs were collected for large buildings or if there were significant interior partitions. Samples were collected in areas with relatively low foot traffic, and away from any conditions that could affect or interfere with SVI sampling. One outdoor air sample was collected upwind of the building approximately 3 to 5 feet above the ground and away from any potential sources of VOCs.

The sub-slab soil vapor sampling points (vapor points) were installed in the foundation floor slab per manufacturer specifications and in accordance with procedures recommended in New York State Department of Health (NYSDOH) guidance. Each vapor point consisted of a brass fitting with a silicone sleeve (Vapor Pin®) installed in a 5/8-inch diameter hole drilled through the floor slab. A tracer gas leak test using helium was conducted at each location to confirm the vapor points were completely sealed within the slab. A complete seal was documented at all locations prior to sampling.

All samples were collected concurrently over a 24-hour period using laboratory provided stainless-steel Summa canisters. Each canister was fitted with a regulator calibrated by the laboratory to maintain a consistent differential vacuum pressure and intake flow rate for the complete 24-hour collection period. Sample nomenclature was as follows: SS-# for sub-slab samples, IA-# for indoor air samples, CS-# for crawlspace samples, and OA-# for outdoor air samples.

Sample data were recorded for each location; including the sample identification number, canister and regulator numbers (provided by the laboratory), and vacuum gauge start/end readings and times. At the completion of the sampling event, the sample canisters and regulators were packaged in the original box and transported under a chain-of-custody to a New York State Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis of VOCs by United States Environmental Protection Agency (USEPA) Method TO-15.

The analyte list for USEPA Method TO-15 includes chlorinated VOCs as well as petroleum related VOCs. For all analytes, the laboratory reporting limits were generally less than 1 microgram per cubic meter ($\mu g/m^3$). Laboratory reporting was consistent with the NYSDEC *DER-10* Category B deliverable requirements.

4 Quality Assurance/Quality Control

The following Quality Assurance/Quality Control (QA/QC) procedures were performed as part of the SVI sampling activities:

- Collected field duplicate samples at a rate of one per 20 original samples (5%);
- Conducted tracer gas leak detection for all installed vapor points;
- Operated and calibrated field instruments in accordance with manufacturer specifications;
- Ensured all laboratory deliverables were validated by an E & E chemist prior to release; and,
- Documented all field data and observations on field data sheets and maintained a digital photo log.

Standard data validation was performed. All laboratory deliverables were reviewed for completeness, validated, and data usability summary reports (DUSRs) were prepared by an E & E chemist. DUSRs were prepared in accordance with the NYSDEC *DER-10 Appendix 2B* and USEPA Region 2 data validation procedures.

5 Health and Safety Plan

A site-specific health and safety plan (HASP) was prepared for the field activities and is included as an appendix to the original sampling and analysis plan (SAP) for each site.

C Structure Sampling Questionnaire and Building Inventories

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Standard Gage & Coal Off-Site | Site Code: C314131A | Operable Unit:

Building Code: OS-01 | Building Name: Concrete Rocks

Address: 154 Garden Street | Apt/Suite No:

City: Poughkeepsie | State: NY | Zip: 12601 | County: Dutchess

Contact Information

Preparer's Name: Ian Arturo/Dave Morelli | Phone No: (914) 461-2966

Preparer's Affiliation: Environmental Consultant | Company Code: WSP USA

Purpose of Investigation: Off-Site SVI | Date of Inspection: Mar 17, 2023

Contact Name: James Bishop | Affiliation: OWNER

Phone No: (845) 546-3497 | Alt. Phone No: | Email:

Number of Occupants (total): 0 | Number of Children: 0

☐ Occupant Interviewed? ☐ Owner Occupied? ☐ Owner Interviewed?

Owner Name (if different): | Owner Phone:

Owner Mailing Address:

Building Details

Bldg Type (Res/Com/Ind/Mixed): COMMERCIAL/MIXED | Bldg Size (S/M/L): MEDIUM

If Commercial or Industrial Facility, Select Operations: VACANT

If Residential Select Structure Type:

Number of Floors: 1 | Approx. Year Construction: 1935 | ☒ Building Insulated? | ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

Somewhat drafty - gaps around windows/doors/pipes.

Foundation Description

Foundation Type: BASEMENT-PARTIAL | Foundation Depth (bgs): -7 | Unit: FEET

Foundation Floor Material: POURED CONCRETE

Foundation Wall Material: CONCRETE BLOCK

Foundation Floor Thickness: 4.0-12

Foundation Wall Thickness: 6

Unit: INCHES

☒ Floor penetrations? Describe Floor Penetrations: 2 sumps in basement (full of water, pumps off)

☒ Wall penetrations? Describe Wall Penetrations: various utilities, windows, doors

Basement is: UNFINISHED | Basement is: WET | ☒ Sumps/Drains? | Water In Sump?: YES

Describe Foundation Condition (cracks, seepage, etc.) : cracks, water at grade, seepage

☐ Radon Mitigation System Installed? ☒ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: RADIANT HEATING | Heat Fuel Type: OIL | ☒ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: ELECTRIC | Clothes Dryer Fuel Type: NO CLOTHES DRYER

Water Htr Vent Location: NONE | Dryer Vent Location: NONE

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Concrete Rocks Bldg Code: OS-01 Date: Mar 17, 2023

Bldg Address: 154 Garden Street Apt/Suite No:

Bldg City/State/Zip: Poughkeepsie NY, 12601

Make and Model of PID: PpbRae 3000 Date of Calibration: Mar 17, 2023

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	fuel oil staining					☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? Yes Were there any elevated PID readings taken on site? No ☐ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Standard Gage & Coal Off-Site Site Code: C314131A Operable Unit:

Building Code: OS-01 Building Name: Concrete Rocks

Address: 154 Garden Street Apt/Suite No:

City: Poughkeepsie State: NY Zip: 12601 County: Dutchess

Factors Affecting Indoor Air Quailty

Frequency Basement/Lowest Level is Occupied?: ALMOST NEVER Floor Material: CEMENT

☐ Inhabited? ☐ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: NONE ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener:

☐ Cleaning Products Used Recently?: Description of Cleaning Products:

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products:

☐ New Carpet or Furniture? Location of New Carpet/Furniture:

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics:

☐ Recent Painting/Staining? Location of New Painting:

☐ Solvent or Chemical Odors? Describe Odors (if any):

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used:

☐ Recent Pesticide/Rodenticide? Description of Last Use:

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

Some spilled fuel oil with absorbent on ground of boiler room in basement. Slight fuel oil odors in that room.

☐ Any Prior Testing For Radon? If So, When?:

☒ Any Prior Testing For VOCs? If So, When?: SSDS in November 2019

Sampling Conditions

Weather Conditions: PARTLY CLOUDY Outdoor Temperature: 31-54 °F

Current Building Use: VACANT Barometric Pressure: 29.74-30.02 in(hg)

Product Inventory Complete? Yes ☒ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: OS-01	**Address: 154 Garden St, Poughkeepsie, NY 12601**

Sampling Information								
Sampler Name(s): Ian Arturo/Dave Morelli				**Sampler Company Code:** WSP USA				
Sample Collection Date(s): 3/16/23 to 3/17/23				**Date Samples Sent To Lab:** 3/17/23				
Summa Canister Information								
Sample ID	SS-1A	SS-1B	IA-1	SS-2	IA-2	SS-3	IA-3	OA-1
Location Type	Sub-Slab	Sub-Slab	First Floor	Sub-Slab	First Floor	Sub-Slab	Basement	Outdoor
Matrix	Soil Vapor	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Outdoor Air
Canister ID	2972	2976	1808	2185	2189	1801	1236	2440
Regulator ID	3531	3095	3734	3462	3355	3351	3686	3733
Sampling Method	Summa	Summa	Summa	Summa	Summa	Summa	Summa	Summa
Sampling Area Info								
Slab Material	Concrete	Concrete	N/A	Concrete	N/A	Concrete	N/A	N/A
Slab Thickness (inches)	12	12	N/A	10	N/A	4	N/A	N/A
Sub-Slab Material	Soil/Subbase	Soil/Subbase	N/A	Soil	N/A	Soil	N/A	N/A
Sub-Slab Moisture	Dry	Dry	N/A	Dry	N/A	Moist	N/A	N/A
Seal Type	Vapor Pin	Vapor Pin	N/A	Vapor Pin	N/A	Vapor Pin	N/A	N/A
Seal Adequate	✓	✓	N/A	✓	N/A	✓	N/A	N/A
Sample Time and Vacuum Readings								
Start Date	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023	3/16/2023
Start Time	11:00	11:25	11:35	12:00	12:00	12:45	12:45	13:05
Vacuum Gauge Start	29.5	29	29.5	29.5	29	29	29	28
End Date	3/17/2023	3/17/2023	3/17/2023	3/17/2023	3/17/2023	3/17/2023	3/17/2023	3/17/2023
End Time	11:00	11:25	11:35	12:00	12:00	12:45	12:45	13:05
Vacuum Gauge End	9	10	7	8	9	11	9	5.5
Sample Duration (hrs)	24	24	24	24	24	24	24	24
Vacuum Gauge Unit	-Hg"	-Hg"	-Hg"	-Hg"	-Hg"	-Hg"	-Hg"	-Hg"
Sample QA/QC Readings								
Vapor Port Purge	✓	✓	N/A	✓	N/A	✓	N/A	N/A
Purge PID Reading	2800	1200	N/A	2900	N/A	2100	N/A	N/A
PID Reading Unit	ppb	ppb	N/A	ppb	N/A	ppb	N/A	N/A
Tracer Test Type	Helium	Helium	N/A	Helium	N/A	Helium	N/A	N/A
Tracer Test Pass	✓	✓	N/A	✓	N/A	✓	N/A	N/A

N/A - Not applicable

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Standard Gage & Coal Off-Site | Site Code: 0314131A | Operable Unit:

Building Code: OS-04 | Building Name:

Address: 145 Garden Street | Apt/Suite No:

City: Poughkeepsie | State: NY | Zip: 12601 | County: Dutchess

Contact Information

Preparer's Name: Ian Arturo/Dave Morelli | Phone No: (914) 461-2966

Preparer's Affiliation: Environmental Consultant | Company Code: WSP USA

Purpose of Investigation: Off-Site SVI | Date of Inspection: Feb 8, 2023

Contact Name: Eunice Johnson | Affiliation: OWNER

Phone No: (845) 454-7113 | Alt. Phone No: (845) 505-3578 | Email:

Number of Occupants (total): 3 | Number of Children: 0

☒ Occupant Interviewed? ☒ Owner Occupied? ☒ Owner Interviewed?

Owner Name (if different): James Johnson (co-owner) | Owner Phone: (845) 214-3096

Owner Mailing Address:

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL | Bldg Size (S/M/L): SMALL

If Commercial or Industrial Facility, Select Operations:

If Residential Select Structure Type: SINGLE FAMILY RES

Number of Floors: 3 | Approx. Year Construction: | ☒ Building Insulated? | ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

Unfinished basement, no apparent drafts.

Foundation Description

Foundation Type: BASEMENT | Foundation Depth (bgs): 5 | Unit: FEET

Foundation Floor Material: POURED CONCRETE | Foundation Floor Thickness: 4

Foundation Wall Material: LAID-UP STONE | Foundation Wall Thickness: 12 | Unit: INCHES

☒ Floor penetrations? Describe Floor Penetrations: slight depression for municipal water pit

☒ Wall penetrations? Describe Wall Penetrations: various utilities (HVAC, sewer, water, etc.), windows

Basement is: UNFINISHED | Basement is: DRY | ☐ Sumps/Drains? | Water In Sump?: N/A

Describe Foundation Condition (cracks, seepage, etc.) : some cracks with mortar missing

☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: FORCED AIR | Heat Fuel Type: GAS | ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS | Clothes Dryer Fuel Type: NO CLOTHES DRYER

Water Htr Vent Location: OUTSIDE | Dryer Vent Location: NONE

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: _____ Bldg Code: OS-04 Date: Feb 8, 2023

Bldg Address: 145 Garden Street Apt/Suite No: _____

Bldg City/State/Zip: Poughkeepsie NY, 12601

Make and Model of PID: PpbRae 3000 Date of Calibration: Feb 8, 2023

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	Various paint cans/buckets	1-5 gal	U	xylene; toluene; stoddard solvent; 2-(2-butoxyethoxy)-ethanol; titanium dioxide	0	☐
Basement	All Purpose Joint Compound	5 gal	U	attapulgite; limestone; mica; starch; crystalline silica	0	☐
Basement	empty kerosene containers		U	kerosene	0	☐
Basement	empty gasoline container		U	gasoline	0	☐
						☐
						☐
						☐
						☐
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						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? Yes Were there any elevated PID readings taken on site? No ☐ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Standard Gage & Coal Off-Site Site Code: 0314131A Operable Unit:

Building Code: OS-04 Building Name:

Address: 145 Garden Street Apt/Suite No:

City: Poughkeepsie State: NY Zip: 12601 County: Dutchess

Factors Affecting Indoor Air Quailty

Frequency Basement/Lowest Level is Occupied?: ALMOST NEVER Floor Material: CEMENT

☒ Inhabited? ☒ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: NONE ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener:

☒ Cleaning Products Used Recently?: Description of Cleaning Products: household cleaners (not in basement)

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products:

☐ New Carpet or Furniture? Location of New Carpet/Furniture:

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics:

☐ Recent Painting/Staining? Location of New Painting:

☐ Solvent or Chemical Odors? Describe Odors (if any):

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used:

☒ Recent Pesticide/Rodenticide? Description of Last Use: mothballs used over a year ago for mice

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

none observed

☐ Any Prior Testing For Radon? If So, When?:

☐ Any Prior Testing For VOCs? If So, When?:

Sampling Conditions

Weather Conditions: MOSTLY CLOUDY Outdoor Temperature: 28 to 46 °F

Current Building Use: SINGLE FAMILY RES Barometric Pressure: 29.52 to 29.81 in(hg)

Product Inventory Complete? Yes ☒ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: OS-04	**Address: 145 Garden St, Poughkeepsie, NY 12601**

Sampling Information								
Sampler Name(s): Ian Arturo/Mike DeFelice				**Sampler Company Code:** WSP USA				
Sample Collection Date(s): 2/7/23 to 2/8/23				**Date Samples Sent To Lab:** 2/8/23				
Summa Canister Information								
Sample ID	SS-1	IA-1	OA-1	--	--	--	--	--
Location Type	Sub-Slab	First Floor	Outdoor	--	--	--	--	--
Matrix	Soil Vapor	Indoor Air	Outdoor Air	--	--	--	--	--
Canister ID	1218	1324	1982	--	--	--	--	--
Regulator ID	3650	3524	3670	--	--	--	--	--
Sampling Method	Summa	Summa	Summa	--	--	--	--	--
Sampling Area Info								
Slab Material	Concrete	N/A	N/A	--	--	--	--	--
Slab Thickness (inches)	4	N/A	N/A	--	--	--	--	--
Sub-Slab Material	Soil/Subbase	N/A	N/A	--	--	--	--	--
Sub-Slab Moisture	Dry	N/A	N/A	--	--	--	--	--
Seal Type	Vapor Pin	N/A	N/A	--	--	--	--	--
Seal Adequate	✓	N/A	N/A	--	--	--	--	--
Sample Time and Vacuum Readings								
Start Date	2/7/2023	2/7/2023	2/7/2023	--	--	--	--	--
Start Time	10:15	10:15	13:00	--	--	--	--	--
Vacuum Gauge Start	29	29	30	--	--	--	--	--
End Date	2/8/2023	2/8/2023	2/8/2023	--	--	--	--	--
End Time	10:15	10:15	13:00	--	--	--	--	--
Vacuum Gauge End	7.5	7	8	--	--	--	--	--
Sample Duration (hrs)	24	24	24	--	--	--	--	--
Vacuum Gauge Unit	-Hg"	-Hg"	-Hg"	--	--	--	--	--
Sample QA/QC Readings								
Vapor Port Purge	✓	N/A	N/A	--	--	--	--	--
Purge PID Reading	25.2	N/A	N/A	--	--	--	--	--
PID Reading Unit	ppb	N/A	N/A	--	--	--	--	--
Tracer Test Type	Helium	N/A	N/A	--	--	--	--	--
Tracer Test Pass	✓	N/A	N/A	--	--	--	--	--

N/A - Not applicable

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Standard Gage & Coal Off-Site | Site Code: C314131A | Operable Unit:

Building Code: OS-07 | Building Name: Sid Harvey's

Address: 161 Garden Street | Apt/Suite No:

City: Poughkeepsie | State: NY | Zip: 12601 | County: Dutchess

Contact Information

Preparer's Name: Ian Arturo/Dave Morelli | Phone No: (914) 461-2966

Preparer's Affiliation: Environmental Consultant | Company Code: WSP USA

Purpose of Investigation: Off-Site SVI | Date of Inspection: Feb 8, 2023

Contact Name: John Donnelly | Affiliation: TENANT

Phone No: (845) 454-4430 | Alt. Phone No: | Email:

Number of Occupants (total): 5 | Number of Children:

☒ Occupant Interviewed? ☐ Owner Occupied? ☐ Owner Interviewed?

Owner Name (if different): | Owner Phone:

Owner Mailing Address:

Building Details

Bldg Type (Res/Com/Ind/Mixed): COMMERCIAL/MIXED | Bldg Size (S/M/L): LARGE

If Commercial or Industrial Facility, Select Operations: OTHER

If Residential Select Structure Type:

Number of Floors: 1 | Approx. Year Construction: | ☒ Building Insulated? ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

back warehouse uninsulated (concrete block walls).

Foundation Description

Foundation Type: BASEMENT | Foundation Depth (bgs): | Unit: FEET

Foundation Floor Material: POURED CONCRETE

Foundation Wall Material: CONCRETE BLOCK

Foundation Floor Thickness: 10

Foundation Wall Thickness:

Unit: INCHES

☐ Floor penetrations? Describe Floor Penetrations:

☒ Wall penetrations? Describe Wall Penetrations: various utilities (HAVC, water, etc.), windows, doors

Basement is: | Basement is: | ☐ Sumps/Drains? | Water In Sump?:

Describe Foundation Condition (cracks, seepage, etc.) : good, no cracks observed

☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: FORCED AIR | Heat Fuel Type: GAS | ☒ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: ELECTRIC | Clothes Dryer Fuel Type: NO CLOTHES DRYER

Water Htr Vent Location: NONE | Dryer Vent Location: NONE

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Sid Harvey's Bldg Code: OS-07 Date: Feb 8, 2023

Bldg Address: 161 Garden Street Apt/Suite No:

Bldg City/State/Zip: Poughkeepsie NY, 12601

Make and Model of PID: PpbRae 3000 Date of Calibration: Feb 8, 2023

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Retail Shop	Qwik System Flush	12 oz	UO	(E)-1,2-Dichloroethene (trans-1,2-DCE); 1,1,1,2-tetrafluoroethane	0	☒
Retail Shop	Mitco Line-Set Flush	12 oz	UO	trans-1,2-Dichloroethylene (trans-1,2-DCE); 1,1,1,2,2,3,4,5,5,5-decafluoropentane; (1,1,1,2-Tetrafluoroethane; Ethyl Alcohol	0	☒
Retail Shop	Nu-Calgon Rx11-Flush	12 oz	UO	(E)-1,2-Dichloroethene (trans-1,2-DCE); 1,1,1,2-tetrafluoroethane; 1,1,1,2,2,3,4,5,5,5-decafluoropentane	0	☒
Retail Shop	Mitco Foaming Coil Cleaner	12 oz	UO	sodium hydroxide; sodium gluconate; propane/n-butane	0	☐
Retail Shop	Mitco High Pressure Coil Clean	12 oz	UO	trichloroethylene (TCE); orange terpenes; CO2	0	☒
Retail Shop	Cryo-Tek 100 Antifreeze	5 gal	UO	propylene glycol	0	☐
Warehouse	Shur Shot Synthetic Lubricant	9 oz	U	propane; butane	0	☐
Retail Shop	KO Dirt Blaster Degreaser & Cle	12 oz	UO	methylene chloride; d-limonene	**0**	☒
Retail Shop	boiler water treatment contain	1 quart	UO	potassium hydroxide	0	☐
Retail Shop	Mitco Sure Flo Descaling Soluti	5 gal	UO	phosphoric acid; citric acid	0	☐
Retail Shop	ComStar Grease Blaster	12 oz	UO	dipropylene glycol monoethyl ethe	0	☐
Retail Shop	Spray Nine Grez-Off	32 oz	UO	sodium metasilicate	0	☐
Retail Shop	Big Blu Microleak Detector	1 gal	UO	No hazardous ingredients listed in SDS	0	☐
Retail Shop	DGT Spray	12 oz	UO	citrus terpenes; nonylphenol ethoxylate; propane; n-butane	0	☐
Retail Shop	SH Fuel Oil & Biofuel Condition	8 oz	UO	aromatic naptha; 1,2,4-trimethylbenzene; glycol ethers	0	☐
Retail Shop	Nu-Calgon A/C Re-New	6 oz	UO	proprietary ester; benzene, C10-16- Alkyl Deriv.	0	☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? Yes Were there any elevated PID readings taken on site? Yes ☒ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Sid Harvey's Bldg Code: OS-07 Date: Feb 8, 2023

Bldg Address: 161 Garden Street Apt/Suite No:

Bldg City/State/Zip: Poughkeepsie NY, 12601

Make and Model of PID: PpbRae 3000 Date of Calibration: Feb 8, 2023

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Retail Shop	SH Spruce-Up Spray Degreaser	12 oz	UO	trichloroethlyene (TCE); 1,2-butylene oxide; CO2	0	☒
Warehouse	Acetylene gas tanks		UO	acetylene dissolved	0	☐
Warehouse	Gel chafing fuel canisters	6 oz	UO	propylene glycol; ethanol	0	☐
Warehouse	SH Odor Neutralizer Spray	13 oz	U	heptane; propane; n-butane; propylene glycol methyl ether	0	☐
Warehouse	ZEP High Traffic Floor Finish	5 gal	UO	2-(2-ethoxyethoxy)-ethanol; diethylene glycol monoethyl ether; ethoxydiglycol; tributoxyethyl phosphate	0	☐
Warehouse	various refrigerant tanks	25 lbs	UO	R-422D (blend of R-125, R-134A, & R-600A); R-404A (blend of R-125, R-134A, & R-143A); R-410A (blend of R-32 & R-125); R-22	0	☐
Warehouse	various refrigerant tanks	25 lbs	UO	R-407C (blend of R-32, R-125, & R-134A); R-427A (blend of R-32, R-125, R-143A, & R-134A); R-438A (blend of R-32, R-125, R-134a, butane and ipentane)	0	☐
Retail Shop	Sludgehammer Corrosion Inhit	1 gal	UO	tetrapotassium pyrophosphate; potassium hydroxide; pentasodium triphosphate, 2-	**0**	☐
Retail Shop	Dreumex Grime Grabber		UO	(Poly(oxy-1,2-ethanediyl, a-undecyl-w-hydroxy), petroleum distillates	0	☐
Retail Shop	ComStar Monkey Wrench	12 oz	UO	hydrotreated light-aliphatic; amyl acetate	0	☐
Retail Shop	Nu-Calgon Evap Foam No Rins	5 gal	UO	Butane; Diethylene glycol monoethyl ether; 2-butoxy-ethanol; Propane; SLS; Tetrasodium ethylenediamine; sodium metasilicate	0	☐
Retail Shop	hand & surface cleaner towels		UO	(Poly(oxy-1,2-ethanediyl), a-undecyl-w--hydroxy-); sodium xylene sulfonate; Ethoxylated Amine	0	☐
Retail Shop	Mitco Gas Leak Detector	1 gal	UO	polyethylene glycol; isopropanol; monododecyl ester; ethanol; amides	0	☐
Warehouse	ComStar Super Grease Cutter	12 oz	U	D-limonene; dipropylene glycol monomethyl ether ; petroleum distillates	0	☐
Retail Shop	SH Hurri-Clean Clear-Coil	1 gal	UO	dipropylene glycol monoethyl ether; sodium sulfite	0	☐
Retail Shop	Mitco Vacuum Pump Oil	1 gal	UO	(2,6-Dl-tert-butylphenol); zinc alkyldithiophosphate	0	☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? Yes Were there any elevated PID readings taken on site? Yes ☒ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Standard Gage & Coal Off-Site Site Code: C314131A Operable Unit:

Building Code: OS-07 Building Name: Sid Harvey's

Address: 161 Garden Street Apt/Suite No:

City: Poughkeepsie State: NY Zip: 12601 County: Dutchess

Factors Affecting Indoor Air Quailty

Frequency Basement/Lowest Level is Occupied?: OCCASIONALLY Floor Material: CEMENT

☐ Inhabited? ☒ HVAC System On? ☒ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: NONE ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener:

☒ Cleaning Products Used Recently?: Description of Cleaning Products: bleach, mop & glow spray

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products:

☐ New Carpet or Furniture? Location of New Carpet/Furniture:

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics:

☐ Recent Painting/Staining? Location of New Painting:

☒ Solvent or Chemical Odors? Describe Odors (if any): various chemical odors in showroom

☒ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: degreasers (contain TCE)

☐ Recent Pesticide/Rodenticide? Description of Last Use:

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

Chemicals in showroom, including chlorinated solvents.
Degreasers with TCE are used by staff.

☐ Any Prior Testing For Radon? If So, When?:

☐ Any Prior Testing For VOCs? If So, When?:

Sampling Conditions

Weather Conditions: MOSTLY CLOUDY Outdoor Temperature: 28 to 46 °F

Current Building Use: OTHER Barometric Pressure: 29.52 to 29.81 in(hg)

Product Inventory Complete? Yes ☒ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: OS-07	**Address: 161 Garden St, Poughkeepsie, NY 12601**

Sampling Information								
Sampler Name(s): Ian Arturo/Mike DeFelice				**Sampler Company Code:** WSP USA				
Sample Collection Date(s): 2/7/23 to 2/8/23				**Date Samples Sent To Lab:** 2/8/23				
Summa Canister Information								
Sample ID	SS-1	IA-1	SS-2	IA-2	SS-3	SS-DUP1	IA-3	OA-1
Location Type	Sub-Slab	First Floor	Sub-Slab	First Floor	Sub-Slab	Sub-Slab	First Floor	Outdoor
Matrix	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Soil Vapor	Indoor Air	Outdoor Air
Canister ID	2226	1268	1998	1711	1986	1505	1820	1982
Regulator ID	3671	3068	3740	3739	3659	3659	3522	3670
Sampling Method	Summa	Summa	Summa	Summa	Summa	Summa	Summa	Summa
Sampling Area Info								
Slab Material	Concrete	N/A	Concrete	N/A	Concrete	Concrete	N/A	N/A
Slab Thickness (inches)	10	N/A	10	N/A	10	10	N/A	N/A
Sub-Slab Material	Soil/Subbase	N/A	Soil/Subbase	N/A	Soil/Subbase	Soil/Subbase	N/A	N/A
Sub-Slab Moisture	Dry	N/A	Dry	N/A	Dry	Dry	N/A	N/A
Seal Type	Vapor Pin	N/A	Vapor Pin	N/A	Vapor Pin	Vapor Pin	N/A	N/A
Seal Adequate	✓	N/A	✓	N/A	✓	✓	N/A	N/A
Sample Time and Vacuum Readings								
Start Date	2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023
Start Time	11:45	11:45	12:15	12:15	12:45	12:45	12:45	13:00
Vacuum Gauge Start	29	30	30	30	30	30	29.5	30
End Date	2/8/2023	2/8/2023	2/8/2023	2/8/2023	2/8/2023	2/8/2023	2/8/2023	2/8/2023
End Time	11:45	11:45	12:15	12:15	11:30	11:30	12:45	13:00
Vacuum Gauge End	6	4	8.5	7.5	0	0	7	8
Sample Duration (hrs)	24	24	24	24	22.75	22.75	24	24
Vacuum Gauge Unit	-Hg"	-Hg"	-Hg"	-Hg"	-Hg"	-Hg"	-Hg"	-Hg"
Sample QA/QC Readings								
Vapor Port Purge	✓	N/A	✓	N/A	✓	✓	N/A	N/A
Purge PID Reading	4600	N/A	3260	N/A	4500	4500	N/A	N/A
PID Reading Unit	ppb	N/A	ppb	N/A	ppb	ppb	N/A	N/A
Tracer Test Type	Helium	N/A	Helium	N/A	Helium	Helium	N/A	N/A
Tracer Test Pass	✓	N/A	✓	N/A	✓	✓	N/A	N/A

N/A - Not applicable

D

Geologic Logs and Monitoring Well Construction

Geologic Log **Monitoring Well Construction**	**OWNER:** NYSDEC **BORING / WELL NO:** MW-B1 **PAGE** 1 **OF** 2

SITE LOCATION: NYSDEC Site No. C314131A Standard Gage & Coal Storage Off-Site: 154 Garden St, Poughkeepsie, NY	**SCREEN SIZE & TYPE:** PVC 2-inch Diameter **SLOT NO:** 10 Slot **SETTING:** 5 – 18
DATE COMPLETED: September 20, 2023	**SAND PACK SIZE & TYPE:** No. 1 Filter Sand **SETTING:** 3 – 18
DRILLING COMPANY: LaBella Associates Ballston Spa, NY	**CASING SIZE & TYPE:** PVC 2-inch Diameter **SETTING:** 0.5 – 5
DRILLING METHOD: Hollow-Stem Auger 4.25-inch Diameter	
SAMPLING METHOD: Split Spoon Sampler 2-inch Diameter	**SEAL TYPE:** Bentonite **SETTING:** 1 – 3
OBSERVER: Ian Arturo	
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:** Sand
ELEVATION OF RP: ---	**STATIC WATER LEVEL:**
STICK-UP: NA	**DEVELOPMENT METHOD:**
SURFACE COMPLETION: Manhole 8-inch Diameter, Flush	**DURATION:** **YIELD:**

REMARKS: *Sample collected and submitted for laboratory analysis.

ABBREVIATIONS: SS = split spoon C = cuttings G = grab MC = Macrocore REC = recovery PPM = parts per million

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
0	2	SS	9-8-7-6	1.2	77	0 – 0.5 ft: ASPHALT, concrete fragments.
					158	0.5 – 2 ft: FILL MATERIAL (coal, slag, ash), some sand (fine), little silt, dark brown, dry, loose, moderate petroleum odor.
2	4	SS	1-2-1-1	0.8	9	2 – 3 ft: COAL fragments, some sand (fine), some ash, little silt, dark brown, moist, loose, moderate petroleum odor.
					5	3 – 4 ft: COAL fragments and silt, some sand (fine), little cobble (sub-angular), little ash, dark brown, moist, loose, moderate petroleum odor.
*4	6	SS	1-1-1-3	1.2	103	4 – 5 ft: COAL fragments, some sand (fine), little cobble (sub-angular), little ash, dark brown, moist, loose, moderate petroleum odor.
					1	5 – 6 ft: SAND (fine) and silt, some coal fragments, brown, moist, loose, no petroleum odor.
6	8	SS	3-3-3-3	1.5	8	6 – 8 ft: SILT, some sand (fine), little coal fragments, brown, moist, loose.
8	10	SS	4-4-7-9	1.8	3	8 – 10 ft: SILT and sand (fine), some rock fragments, little gravel (rounded, sub-angular), brown, moist, firm.

Geologic Log **Monitoring Well Construction**	**OWNER:** NYSDEC **BORING / WELL NO:** MW-B1 **PAGE** 2 **OF** 2

SITE LOCATION: NYSDEC Site No. C314131A Standard Gage & Coal Storage Off-Site: 154 Garden St, Poughkeepsie, NY	**SCREEN SIZE & TYPE:** **SLOT NO:** **SETTING:**
DATE COMPLETED: September 20, 2023	**SAND PACK SIZE & TYPE:** **SETTING:**
DRILLING COMPANY: LaBella Associates Ballston Spa, NY	**CASING SIZE & TYPE:** **SETTING:**
DRILLING METHOD: Hollow-Stem Auger 4.25-inch Diameter	
SAMPLING METHOD: Split Spoon Sampler 2-inch Diameter	**SEAL TYPE:** **SETTING:**
OBSERVER: Ian Arturo	
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:**
ELEVATION OF RP: ---	**STATIC WATER LEVEL:**
STICK-UP: NA	**DEVELOPMENT METHOD:**
SURFACE COMPLETION: Manhole 8-inch Diameter, Flush	**DURATION:** **YIELD:**
REMARKS:	

ABBREVIATIONS: SS = split spoon C = cuttings G = grab MC = Macrocore REC = recovery PPM = parts per million

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
10	12	SS	29-21-14-27	1.4	2	10 – 10.5 ft: SILT and sand (fine), some rock fragments, brown, saturated, loose. Groundwater at apx 10 ft bg.
					2	10.5 – 11 ft: ROCK fragments (gray), some silt, some sand (fine), brown, saturated, loose.
					0	11 – 12 ft: WEATHERED BEDROCK (flaky, fine sand, silt) with rock fragments, dark gray, moist, firm.
12	14	SS	17-19-21-14	2.0	0	12 – 14 ft: WEATHERED BEDROCK (flaky, fine sand, silt) with rock fragments, dark gray, moist, firm.
14	16	SS	17-54-14-100/5	0.8	0	14 – 16 ft: WEATHERED BEDROCK (flaky, fine sand, silt) with rock fragments, dark gray, moist, firm.
16	18	SS	8-35-32-69	0.7	0	16 – 18 ft: WEATHERED BEDROCK and rock fragments, rock in tip, moist, firm.
						End of Boring: 18 ft bg

Geologic Log **Monitoring Well Construction**	**OWNER:** NYSDEC **BORING / WELL NO:** MW-B2 **PAGE** 1 **OF** 2

SITE LOCATION: NYSDEC Site No. C314131A Standard Gage & Coal Storage Off-Site: 154 Garden St, Poughkeepsie, NY	**SCREEN SIZE & TYPE:** PVC 2-inch Diameter **SLOT NO:** 10 Slot **SETTING:** 5-20
DATE COMPLETED: September 20, 2023	**SAND PACK SIZE & TYPE:** No. 1 Filter Sand
DRILLING COMPANY: LaBella Associates Ballston Spa, NY	**SETTING:** 3 – 20
	CASING SIZE & TYPE: PVC 2-inch Diameter
DRILLING METHOD: Hollow-Stem Auger 4.25-inch Diameter	**SETTING:** 0.5 – 5
SAMPLING METHOD: Split Spoon Sampler 2-inch Diameter	**SEAL TYPE:** Bentonite
OBSERVER: Ian Arturo	**SETTING:** 1 – 3
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:** Sand
ELEVATION OF RP: ---	**STATIC WATER LEVEL:**
STICK-UP: NA	**DEVELOPMENT METHOD:**
SURFACE COMPLETION: Manhole 8-inch Diameter, Flush	**DURATION:** **YIELD:**

REMARKS: *Sample collected and submitted for laboratory analysis.

ABBREVIATIONS: SS = split spoon C = cuttings G = grab MC = Macrocore REC = recovery PPM = parts per million

DEPTH (FEET)		SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
FROM	TO					
0	2	SS	50-25-11-9	0.9	0	0 – 2 ft: ASPHALT, concrete and slate fragments.
2	4	SS	2-2-2-2	1.0	0	2 – 4 ft: ROCK fragments, some sand (medium to fine), little silt, black, brown, moist.
*4	6	SS	2-4-2-2	0.7	0	4 – 4.5 ft: ROCK fragments.
					0	4.5 – 6 ft: ROCK fragments, some gravel, some sand (medium to fine), black, brown, moist, loose.
6	8	SS	2-2-5-4	1.2	0	6 – 7 ft: ROCK fragments and sand (medium to fine), black, brown, moist, loose, tile fragment 7 ft.
					0	7 - 7.5 ft: SAND (medium to fine) and silt, some rock fragments, brown, moist.
					0	7.5 – 8 ft: SILT, some rock fragments (flakey), little sand (fine), dark gray, moist, brick fragment at 7.7 ft.
8	10	SS	18-25-17-3	1.0	0	8 – 10 ft: WEATHERED BEDROCK (rock fragments, silt, fine sand), dark gray, saturated, loose; larger rock fragments and less silt/sand at bottom. Groundwater at apx 8 ft bg.

Geologic Log **Monitoring Well Construction**	**OWNER:** NYSDEC **BORING / WELL NO:** MW- B2 **PAGE** 2 **OF** 2

SITE LOCATION: NYSDEC Site No. C314131A Standard Gage & Coal Storage Off-Site: 154 Garden St, Poughkeepsie, NY	**SCREEN SIZE & TYPE:** **SLOT NO:** **SETTING:**
DATE COMPLETED: September 20, 2023	**SAND PACK SIZE & TYPE:**
DRILLING COMPANY: LaBella Associates Ballston Spa, NY	**SETTING:**
	CASING SIZE & TYPE:
DRILLING METHOD: Hollow-Stem Auger 4.25-inch Diameter	**SETTING:**
SAMPLING METHOD: Split Spoon Sampler 2-inch Diameter	**SEAL TYPE:**
OBSERVER: Ian Arturo	**SETTING:**
REFERENCE POINT (RP): Grade	**BACKFILL TYPE:**
ELEVATION OF RP: ---	**STATIC WATER LEVEL:**
STICK-UP: NA	**DEVELOPMENT METHOD:**
SURFACE COMPLETION: Manhole 8-inch Diameter, Flush	**DURATION:** **YIELD:**
REMARKS:	

ABBREVIATIONS: SS = split spoon C = cuttings G = grab MC = Macrocore REC = recovery PPM = parts per million

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	PID READING (PPM)	DESCRIPTION
10	12	SS	16-19-100/5	2.0	0	10 – 11.5 ft: WEATHERED BEDROCK w/oxidation (silt, fine sand), dark gray, very moist, firm.
					0	11.5 – 12 ft: WEATHERED BEDROCK (flaky rock fragments, silt, fine sand), blue-gray, moist, firm.
12	14	SS	15-17-21-15	1.0	0	12 – 13.5 ft: WEATHERED BEDROCK (flaky rock fragments, silt, fine sand), blue-gray, moist, firm.
					0	13.5 – 14 ft: WEATHERED BEDROCK (rock fragments, little sand), blue-gray, dry, firm.
14	16	SS	15-19-28-27	0.8	0	14 – 16 ft: WEATHERED BEDROCK (rock fragments /competent) graded to rock fragments w/sand/silt, moist, gray, firm.
16	18	SS	23-24-24-21	0.8	0	16 – 18 ft: WEATHERED BEDROCK (rock fragments, fine sand, silt), moist to saturated, gray, firm.
18	20	SS	11-18-12-12	0.2	0	18 – 20 ft: WEATHERED BEDROCK (rock fragments, fine sand, silt), saturated, gray, firm. Sheen-like on water surface, no odor.
20	22	SS	11-13-12-100/1	0.8	0	20 – 22 ft: WEATHERED BEDROCK (rock fragments, sandy, silty), gray, saturated, firm; rock in tip.
						End of Boring: 22 ft bg

E Camp Station Data

Standard Gage & Coal Storage Off-Site
Off-Site Subsurface Investigation: 154 Garden St, Poughkeepsie, NY
Summary of Community Air Monitoring Data

Activity	Community Monitoring			
	Background Level[1]	Action Level[2]	Daily Average[3]	
			Upwind	Downwind
MW-01B Drilling and Well Installation				
Particulate Monitoring[4] (mg/m3)	0.027	0.127	0.025	0.014
Volatile Organic Compound Monitoring[5] (ppm)	0	5	0.1	0
MW-02B Drilling and Well Installation				
Particulate Monitoring[4] (mg/m3)	0.029	0.129	0.029	0.017
Volatile Organic Compound Monitoring[5] (ppm)	0	5	0.1	0

Notes:

1. Background level establish at the beginning of each work day by the first reading from the upwind monitor, a minimum of 15 minutes before commencing field operations.

2. Action level for particulate monitoring is the background plus 0.1 mg/m3. Action level for volatile organic compond monitoring is 5 ppm.

3. Particulate readings measured and reported for respirable dust less than 10 micrometers in size referred to as PM-10 per NYSDOH guidelines.

Standard Gage Coal Storage
154 Garden St, Poughkeepsie, NY
Upwind Dust Concentration for MW-B1 Installation

Location	154 Garden St	**Units**	mg/m^3
Station	Upwind	**Average**	0.025
Instrument Name	Dust Trak II 8530	**Minimum**	0.005
		Maximum	0.03

Date & Time	**Elapsed Time (s)**	**Mass**
9/20/23 10:12 AM	900	0.027
9/20/23 10:27 AM	1800	0.027
9/20/23 10:42 AM	2700	0.028
9/20/23 10:57 AM	3600	0.021
9/20/23 11:12 AM	4500	0.017
9/20/23 11:27 AM	5400	0.025
9/20/23 11:42 AM	6300	0.005
9/20/23 11:57 AM	7200	0.027
9/20/23 12:12 PM	8100	0.03
9/20/23 12:27 PM	9000	0.029
9/20/23 12:42 PM	9900	0.029
9/20/23 12:57 PM	10800	0.029

Standard Gage Coal Storage
154 Garden St, Poughkeepsie, NY
Upwind Dust Concentration for MW-B2 Installation

Location	154 Garden St	**Units**	mg/m^3
Station	Upwind	**Average**	0.029
Instrument Name	Dust Trak II 8530	**Minimum**	0.028
		Maximum	0.03

Date & Time	**Elapsed Time (s)**	**Mass**
9/20/23 1:12 PM	11700	0.03
9/20/23 1:27 PM	12600	0.03
9/20/23 1:42 PM	13500	0.029
9/20/23 1:57 PM	14400	0.029
9/20/23 2:12 PM	15300	0.03
9/20/23 2:27 PM	16200	0.029
9/20/23 2:42 PM	17100	0.029
9/20/23 2:57 PM	18000	0.03
9/20/23 3:12 PM	18900	0.029
9/20/23 3:27 PM	19800	0.028
9/20/23 3:42 PM	20700	0.028
9/20/23 3:57 PM	21600	0.028
9/20/23 4:12 PM	22500	0.028
9/20/23 4:27 PM	23400	0.028
9/20/23 4:42 PM	24300	0.028
9/20/23 4:57 PM	25200	0.029
9/20/23 5:12 PM	26100	0.029

Standard Gage Coal Storage
154 Garden St, Poughkeepsie, NY
Downwind Dust Concentration for MW-B1 Installation

Location	154 Garden St	**Units**	mg/m^3
Station	Downwind	**Average**	0.014
Instrument Name	Dust Trak II 8530	**Minimum**	0.01
		Maximum	0.02

Date & Time	**Elapsed Time (s)**	**Mass**
9/20/23 10:14 AM	0	0.012
9/20/23 10:12 AM	900	0.012
9/20/23 10:27 AM	1800	0.013
9/20/23 10:42 AM	2700	0.013
9/20/23 10:57 AM	3600	0.013
9/20/23 11:12 AM	4500	0.015
9/20/23 11:27 AM	5400	0.015
9/20/23 11:42 AM	6300	0.014
9/20/23 11:57 AM	7200	0.015
9/20/23 12:12 PM	8100	0.015
9/20/23 12:27 PM	9000	0.015
9/20/23 12:42 PM	9900	0.015
9/20/23 12:57 PM	10800	0.016
9/20/23 1:12 PM	11700	0.017

Standard Gage Coal Storage
154 Garden St, Poughkeepsie, NY
Downwind Dust Concentration for MW-B2 Installation

Location	154 Garden St	**Units**	mg/m^3
Station	Downwind	**Average**	0.017
Instrument Name	Dust Trak II 8530	**Minimum**	0.02
		Maximum	0.03

Date & Time	**Elapsed Time (s)**	**Mass**
9/20/23 1:27 PM	0	0.017
9/20/23 1:42 PM	900	0.017
9/20/23 1:57 PM	1800	0.017
9/20/23 2:12 PM	2700	0.017
9/20/23 2:27 PM	3600	0.018
9/20/23 2:42 PM	4500	0.025
9/20/23 2:57 PM	5400	0.018
9/20/23 3:12 PM	6300	0.017
9/20/23 3:27 PM	7200	0.017
9/20/23 3:42 PM	8100	0.017
9/20/23 3:57 PM	9000	0.017
9/20/23 4:12 PM	9900	0.017
9/20/23 4:27 PM	10800	0.016
9/20/23 4:42 PM	11700	0.016
9/20/23 4:57 PM	12600	0.015
9/20/23 5:12 PM	13500	0.016

Standard Gage Coal Storage
154 Garden St, Poughkeepsie, NY
Upwind VOC Concentration for MW-B1 Installation

Location	154 Garden St	**Units**	ppm
Station	Upwind	**Average**	0.131
Instrument Name	MiniRAE 3000	**Minimum**	0.00
		Maximum	0.20

Date & Time	Elapsed Time (s)	Concentration
9/20/23 9:31 AM	0	0
9/20/23 9:46 AM	900	0
9/20/23 10:01 AM	1800	0
9/20/23 10:16 AM	2700	0
9/20/23 10:31 AM	3600	0.1
9/20/23 10:46 AM	4500	0.1
9/20/23 11:01 AM	5400	0.1
9/20/23 11:16 AM	6300	0.2
9/20/2023 11:31:21 AM	7200	0.2
9/20/2023 11:46:21 AM	8100	0.2
9/20/2023 12:01:21 PM	9000	0.2
9/20/2023 12:16:21 PM	9900	0.2
9/20/2023 12:31:21 PM	10800	0.2
9/20/2023 12:46:21 PM	11700	0.2
9/20/2023 1:01:21 PM	12600	0.2
9/20/2023 1:16:21 PM	13500	0.2

Standard Gage Coal Storage
154 Garden St, Poughkeepsie, NY
Upwind VOC Concentration for MW-B2 Installation

Location	154 Garden St	**Units**	ppm
Station	Upwind	**Average**	0.146
Instrument Name	MiniRAE 3000	**Minimum**	0.00
		Maximum	0.20

Date & Time	Elapsed Time (s)	Concentration
9/20/2023 1:31:21 PM	0	0.2
9/20/2023 1:46:21 PM	900	0.2
9/20/2023 2:01:21 PM	1800	0.2
9/20/2023 2:16:21 PM	2700	0.2
9/20/2023 2:31:21 PM	3600	0.2
9/20/2023 2:46:21 PM	4500	0.2
9/20/2023 3:01:21 PM	5400	0.2
9/20/2023 3:16:21 PM	6300	0.2
9/20/2023 3:31:21 PM	7200	0.1
9/20/2023 3:46:21 PM	8100	0.1
9/20/23 4:01 PM	9000	0.1
9/20/23 4:16 PM	9900	0
9/20/23 4:31 PM	10800	0

Standard Gage Coal Storage
154 Garden St, Poughkeepsie, NY
Downwind VOC Concentration for MW-B1 Installation

Location	154 Garden St	**Units**	ppm
Station	Downwind	**Average**	0.00
Instrument Name	MiniRAE 3000	**Minimum**	0.00
		Maximum	0.00

Date & Time	Elapsed Time (s)	Concentration
9/20/23 9:31 AM	0	0.0
9/20/23 9:46 AM	900	0.0
9/20/23 10:01 AM	1800	0.0
9/20/23 10:16 AM	2700	0.0
9/20/23 10:31 AM	3600	0.0
9/20/23 10:46 AM	4500	0.0
9/20/23 11:01 AM	5400	0.0
9/20/23 11:16 AM	6300	0.0
9/20/23 11:31 AM	7200	0.0
9/20/23 11:46 AM	8100	0.0
9/20/2023 12:01:21 PM	9000	0.0
9/20/2023 12:16:21 PM	9900	0.0
9/20/2023 12:31:21 PM	10800	0.0
9/20/2023 12:46:21 PM	11700	0.0
9/20/2023 1:01:21 PM	12600	0.0
9/20/2023 1:16:21 PM	13500	0.0

Standard Gage Coal Storage
154 Garden St, Poughkeepsie, NY
Downwind VOC Concentration for MW-B2 Installation

Location	154 Garden St	**Units**	ppm
Station	Downwind	**Average**	0.00
Instrument Name	MiniRAE 3000	**Minimum**	0.00
		Maximum	0.00

Date & Time	Elapsed Time (s)	Concentration
9/20/2023 1:31:21 PM	0	0.0
9/20/2023 1:46:21 PM	900	0.0
9/20/2023 2:01:21 PM	1800	0.0
9/20/2023 2:16:21 PM	2700	0.0
9/20/2023 2:31:21 PM	3600	0.0
9/20/2023 2:46:21 PM	4500	0.0
9/20/2023 3:01:21 PM	5400	0.0
9/20/2023 3:16:21 PM	6300	0.0
9/20/2023 3:31:21 PM	7200	0.0
9/20/2023 3:46:21 PM	8100	0.0
9/20/23 4:01 PM	9000	0.0
9/20/23 4:16 PM	9900	0.0
9/20/23 4:31 PM	10800	0.0

F

Investigation Derived Waste Documentation

Profile Number: _____

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GENERATOR WASTE PROFILE SHEET

Section 1 – General Information

Generator Name: NYSDEC, Site C314131A Standard Gage & Coal Off-Site		
Site Address: 154 Garden Street		
Town, State, Zip: Poughkeepsie, NY 12601		
Mail Address: 625 Broadway		
Town, State, Zip: Albany, NY 12233		
Facility Contact/Title: Mark Domaracki		
Email Address:		
Phone: (518)402-9832	Fax:	EIN #

Section 2 – Billing Information

Name: Innovative Recycling Technologies, Inc.		
Mail Address: 690 N. Queens Avenue		
Town, State, Zip: Lindenhurst, NY 11757		
Contact/Title: John Dull		
Email Address: jdull@irtwaste.com		
Phone: (631)225-3044	Fax: (631)225-3056	EPA ID#

Section 3 – Waste Composition

Name and Description of Material: Non-Hazardous Soil		
Process Generating Waste: From site investigation.		
Estimated Annual Volume: 2X55 gallon drums		
Quantity: 2		
Type of Shipment: Bulk ☐	Drums ☑	Other ☐

Waste Description (Chemical Composition):
Soil 100%

Section 4 – Material Properties

Total Metals		Yes	No
Arsenic	> 10 ppm	☐	☑
Barium	> 2000 ppm	☐	☑
Cadmium	> 20 ppm	☐	☑
Chromium	> 100 ppm	☐	☑
Lead	> 100 ppm	☐	☑
Mercury	> 4 ppm	☐	☑
Selenium	> 20 ppm	☐	☑
Silver	> 100 ppm	☐	☑
Other Metals (List above)		☐	☑

Section 4 – Material Properties Cont.

Compounds		Yes	No
Sulfur	> 1.5%	☐	☑
Nitrogen	> 20%	☐	☑
Chlorine	> 0.3%	☐	☑
Flourine	> 738 ppm	☐	☑
Bromine	> 300 ppm	☐	☑
Iodine	> 50 ppm	☐	☑
Flashpoint	< 140°F	☐	☑

This determination was based upon: ☑ Analytical Data ☐ Generator Knowledge

Section 4 – Material Properties Continued

Physical State: ☑ Solid ☐ Liquid ☐ Sludge

Reactivity: ☐ Water Reactive ☐ Acid Reactive ☐ Alkaline Reactive
☐ Oxidizer ☑ None

Color: Brown

Odor: ☑ None ☐ Mild ☐ Strong ☐ Other: _____

pH: ☐ <2 ☐ >2-6 ☑ >6-9 ☐ >9-12.5 ☐ >12.5 ☐ NA

Section 5 – Regulatory Waste Classification

Is this waste an EPA Listed Waste per 40 CFR 261? ☐ Yes ☑ No

Is this waste an EPA Characteristic Hazardous Waste per 40 CFR 261? ☐ Yes ☑ No

The regulatory classifications above were based upon:

- ☑ Analytical Data (attach all relevant analysis)
- ☐ Generator Knowledge (check all that apply):
  - ☐ Knowledge of the waste regulations
  - ☐ MSDS provided for material(s)
  - ☐ Information describing the process and materials generating the waste

Proper DOT Shipping Description:

Shipping Name: Non-Hazardous Soil Non-DOT Regulated Material

UN/NA: _____ PG: _____ Waste Codes: _____

Attach all relevant Material Safety Data Sheets, Laboratory Analyses, Waste Sampling Plans, Flow Chart or Process Schematic if available. Attach separate sheets to disclose all known and suspected hazards, special handling precautions and additional comments.

Desired Destruction Method: ☐ Waste to Energy ☑ Landfill ☐ Recycling/Treatment

Section 6 – Certifications

GENERATOR'S CERTIFICATIONS

I hereby certify the above information is correct to the best of my knowledge. I further certify that JG Environmental will be notified in writing of any process change, which could significantly alter the composition and/or chemical/physical properties of the waste described above.

Print Name: Dave Morelli Title: PM/Geologist

As Agent for NYSDEC

Generator Signature: Dave Morelli Date: 5/7/24

(Must be signed)

Profile Number: _____

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GENERATOR WASTE PROFILE SHEET

Section 1 – General Information

Generator Name: NYSDEC, Site C314131A Standard Gage & Coal Off-Site		
Site Address: 154 Garden Street		
Town, State, Zip: Poughkeepsie, NY 12601		
Mail Address: 625 Broadway		
Town, State, Zip: Albany, NY 12233		
Facility Contact/Title: Mark Domaracki		
Email Address:		
Phone: (518)402-9832	Fax:	EIN #

Section 2 – Billing Information

Name: Innovative Recycling Technologies, Inc.		
Mail Address: 690 N. Queens Avenue		
Town, State, Zip: Lindenhurst, NY 11757		
Contact/Title: John Dull		
Email Address: jdull@irtwaste.com		
Phone: (631)225-3044	Fax: (631)225-3056	EPA ID#

Section 3 – Waste Composition

Name and Description of Material: Non-Hazardous Purge Water		
Process Generating Waste: From site investigation.		
Estimated Annual Volume: 1X55 gallon drum		
Quantity: 1		
Type of Shipment: Bulk ☐	Drums ☑	Other ☐

Waste Description (Chemical Composition):
Water 100%

Section 4 – Material Properties

Total Metals		Yes	No
Arsenic	> 10 ppm	☐	☑
Barium	> 2000 ppm	☐	☑
Cadmium	> 20 ppm	☐	☑
Chromium	> 100 ppm	☐	☑
Lead	> 100 ppm	☐	☑
Mercury	> 4 ppm	☐	☑
Selenium	> 20 ppm	☐	☑
Silver	> 100 ppm	☐	☑
Other Metals (List above)		☐	☑

Section 4 – Material Properties Cont.

Compounds		Yes	No
Sulfur	> 1.5%	☐	☑
Nitrogen	> 20%	☐	☑
Chlorine	> 0.3%	☐	☑
Flourine	> 738 ppm	☐	☑
Bromine	> 300 ppm	☐	☑
Iodine	> 50 ppm	☐	☑
Flashpoint	< 140°F	☐	☑

This determination was based upon: ☑ Analytical Data ☐ Generator Knowledge

Section 4 – Material Properties Continued

Physical State: ☐ Solid ☑ Liquid ☐ Sludge

Reactivity: ☐ Water Reactive ☐ Acid Reactive ☐ Alkaline Reactive
☐ Oxidizer ☑ None

Color: Clear

Odor: ☑ None ☐ Mild ☐ Strong ☐ Other: _____

pH: ☐ <2 ☐ >2-6 ☑ >6-9 ☐ >9-12.5 ☐ >12.5 ☐ NA

Section 5 – Regulatory Waste Classification

Is this waste an EPA Listed Waste per 40 CFR 261? ☐ Yes ☑ No

Is this waste an EPA Characteristic Hazardous Waste per 40 CFR 261? ☐ Yes ☑ No

The regulatory classifications above were based upon:

☑ Analytical Data (attach all relevant analysis)

☐ Generator Knowledge (check all that apply):

- ☐ Knowledge of the waste regulations
- ☐ MSDS provided for material(s)
- ☐ Information describing the process and materials generating the waste

Proper DOT Shipping Description:

Shipping Name: Non-Hazardous Purge Water Non-DOT Regulated Material

UN/NA: _____ PG: _____ Waste Codes: _____

Attach all relevant Material Safety Data Sheets, Laboratory Analyses, Waste Sampling Plans, Flow Chart or Process Schematic if available. Attach separate sheets to disclose all known and suspected hazards, special handling precautions and additional comments.

Desired Destruction Method: ☐ Waste to Energy ☑ Landfill ☐ Recycling/Treatment

Section 6 – Certifications

GENERATOR'S CERTIFICATIONS

I hereby certify the above information is correct to the best of my knowledge. I further certify that JG Environmental will be notified in writing of any process change, which could significantly alter the composition and/or chemical/physical properties of the waste described above.

Print Name: Dave Monelli Title: PM/Geologist

As Agent for NYSDEC

Generator Signature: _____ Date: 5/7/24

(Must be signed)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N / A	1	(267) 406-0083	45335

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany NY 12233
Generator's Phone: 518 402-9832

Generator's Site Address (if different than mailing address)
NYSDEC, Site C314131A Standard Gage & Coal Off Site
154 Garden Street
Poughkeepsie NY 12601

6. Transporter 1 Company Name
Innovative Recycling Technologies, Inc.
U.S. EPA ID Number: NYR000134940

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
JG Environmental, LLC
776 Flory Mill Road
Lancaster PA 17601
Facility's Phone: 717 945-5080
U.S. EPA ID Number: PA DEP #101712

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Soil Non-DOT Regulated Material	2	DM	600	P	
2.	Non Hazardous Purge Water Non-DOT Regulated Material	1	DM	300	P	
3.						
4.						

13. Special Handling Instructions and Additional Information
9.1) 2405-044-SOL
9.2) 2405-045-SOL

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Mike Keitt, AS Agent for NYSDEC — Signature — Month: 5 — Day: 13 — Year: 24

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: 1030
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Francis McShane — Signature — Month: 5 — Day: 13 — Year: 24

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Scott High — Signature — Month: 5 — Day: 16 — Year: 24

G Data Usability Summary Reports

Data Usability Summary Report	Project: Standard Gage & Coal - Air SVI
Date Completed: March 12, 2023	Completed by: Devon Richards; Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- Determination of Volatile Organic Compounds [VOCs] in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry [GC/MS] (EPA Method TO-15, 1999).
- EPA Region 2 Data Validation SOP HW-31 Revision 6.

Compliance with the project QA program is indicated in the checklist and tables below. Any concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0026.08	23B1701 23B1703 23B1704 23B1705 23C2786 23C2787 23C2788 23C2789	Con-Test, A Pace Analytical Laboratory

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	ID Corrections
23B1701	AS	SS-1	23B1701-01	2/8/2023 11:45		SS-1-OS-07
23B1701	AI	IA-1	23B1701-02	2/8/2023 11:45		IA-1-OS-07
23B1701	AS	SS-2	23B1701-03	2/8/2023 12:15		SS-2-OS-07
23B1701	AI	IA-2	23B1701-04	2/8/2023 12:15		IA-2-OS-07
23B1703	AS	SS-3	23B1703-01	2/8/2023 11:30		SS-3-OS-07
23B1703	AS	SS-DUP1	23B1703-02	2/8/2023 11:30		SS-DUP1-OS-07
23B1703	AI	IA-3	23B1703-03	2/8/2023 12:45		IA-3-OS-07
23B1704	AS	SS-1	23B1704-01	2/8/2023 10:15		SS-1-OS-04
23B1704	AI	IA-1	23B1704-02	2/8/2023 10:15		IA-1-OS-04
23B1705	AO	OA-1	23B1705-01	2/8/2023 13:00		OA-1-OS-07
23C2786	AO	OA-1	23C2787-01	3/17/2023 13:05		OA-1-OS-01
23C2787	AS	SS-1A	23C2787-01	3/17/2023 11:00		SS-1A-OS-01
23C2787	AS	SS-1B	23C2787-02	3/17/2023 11:25		SS-1B-OS-01
23C2788	AS	SS-3	23C2788-01	3/17/2023 12:45		SS-3-OS-01
23C2788	AI	IA-3	23C2788-02	3/17/2023 12:45		IA-3-OS-01
23C2789	AI	IA-2	23C2789-01	3/17/2023 12:00		IA-2-OS-01
23C2789	AS	SS-2	23C2789-02	3/17/2023 12:00		SS-2-OS-01
23C2789	AI	IA-1	23C2789-03	3/17/2023 11:35		IA-1-OS-01

Data Usability Summary Report	Project: Standard Gage & Coal - Air SVI
Date Completed: March 12, 2023	Completed by: Devon Richards; Eridania Marte

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
23B1701	AI/AS	TO-15	VOCs In Ambient Air By GC/MS	4	N
23B1703	AI/AS	TO-15	VOCs In Ambient Air By GC/MS	2	N
23B1703	AS	TO-15	VOCs In Ambient Air By GC/MS	1	FD
23B1704	AI/AS	TO-15	VOCs In Ambient Air By GC/MS	2	N
23B1705	AO	TO-15	VOCs In Ambient Air By GC/MS	1	N
23C2786	AO	TO-15	VOCs In Ambient Air By GC/MS	1	N
23C2787	AS	TO-15	VOCs In Ambient Air By GC/MS	2	N
23C2788	AI/AS	TO-15	VOCs In Ambient Air By GC/MS	2	N
23C2788	AI/AS	TO-15	VOCs In Ambient Air By GC/MS	3	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes. Sample ID names were updated to create unique sample identifications between building properties.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes. Thermal preservation is not required for air canisters. Samples SS-3-OS-07 and SS-DUP1-OS-07 exhibited a final vacuum of zero. The flow controllers were verified and the RPD for vacuum at receipt and final vacuum was less than 20%. No qualification was made on these findings.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	Yes. 1 field duplicate collected. Trip blank not required. MS/MSD not applicable to Method TO-15. No equipment blank required – The individual canisters were cleaned and checked prior to use.
Case narrative present and complete?	Yes.
Any holding time violations (See table below)?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD/DU Outside Limits (Table 4)
- LCS Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to Tables List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	Yes.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs. (see Table 2A)	Method blank B332700-BLK1 had a positive detection of isopropanol above the MDL but below the RL. The associated sample results with positive detections above the MDL but below the RL were U qualified as non-detect, and the MDL was elevated to the sample results. All other associated sample results were greater than the RL and the method blank detection.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	Not applicable.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. LCS B336239-BS1 recovered below the lower limits for multiple analytes. The associated sample results with positive detections were J qualified as estimated and the non-detect sample results were UJ qualified as estimated non-detect.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit?	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%?	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 5)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes. Three samples were diluted to bring ethanol within calibration range. No data usability issues were observed. Acetone exceeded calibration range for sample SS-1A-OS-01. The sample was not re-analyzed; therefore, sample result was J qualified as estimated.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate and laboratory duplicates results show good precision for all compounds except TICs (see Table 7 for field duplicate results and Table 4A for laboratory duplicate results)?	Laboratory duplicate performed on sample SS-1A-OS-01 failed RPD limits for multiple analytes. Parent sample results were J qualified as estimated values.

Data Usability Summary Report	Project: Standard Gage & Coal - Air SVI
Date Completed: March 12, 2023	Completed by: Devon Richards; Eridania Marte

Summary of Findings
VOCs - TO-15 • Isopropanol was U qualified as non-detect for six sample results due to method blank detection. See Table 2A for associated sample results. • Multiple analytes were J and UJ qualified as estimated values due to LCS low recovery. See Table 5 for associated sample results. • Acetone exceeded calibration range for sample SS-1A-OS-01. The sample was not re-analyzed; therefore, sample result was J qualified as estimated. • Laboratory duplicate performed on sample SS-1A-OS-01 failed %RPD limits for multiple analytes. The sample results were J qualified s estimated. See Table 4A for associated analytes.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	QL
TO-15	B332700-BLK1	MB	Isopropanol	1.3	J	ug/m3	0.6	3.4

Table 2A - List of Samples Qualified for Method Blank Contamination

Method	Blank Sample	Sample Type	Analyte	Blank Result	Sample Result	Lab Qualifier	Units	MDL	QL	Affected Sample	Qualifier
TO-15	B332700	MB	Isopropanol	1.3	2.2	JD	ug/m3	0.6	3.4	IA-3-OS-07	U
TO-15	B332700	MB	Isopropanol	1.3	4.8	JD	ug/m3	1.7	9.8	SS-3-OS-07	U
TO-15	B332700	MB	Isopropanol	1.3	4.7	JD	ug/m3	1.7	9.8	SS-DUP1-OS-07	U
TO-15	B332700	MB	Isopropanol	1.3	1.3	JD	ug/m3	0.6	3.4	IA-1-OS-04	U
TO-15	B332700	MB	Isopropanol	1.3	2.3	JD	ug/m3	1.7	9.8	SS-1-OS-04	U
TO-15	B332700	MB	Isopropanol	1.3	1.5	JD	ug/m3	0.6	3.4	OA-1-OS-07	U

Table 2B - List of Samples Qualified for Field Blank Contamination
None.

Table 3 - List of Samples with Surrogates outside Control Limits
None.

Table 4 – List of MS/MSD Recoveries outside Control Limits
None.

Table 4A – List of MS/MSD/DU RPD Recoveries

Method	Parent Sample	Sample Type	Analyte	RPD	RPD Limit	Qualifier
TO-15	SS-1A-OS-01	DU	Cyclohexane	29.3	25	J
TO-15	SS-1A-OS-01	DU	Dichlorodifluoromethane (Freon 12)	31.4	25	J
TO-15	SS-1A-OS-01	DU	Isopropanol	28.9	25	J
TO-15	SS-1A-OS-01	DU	4-Methyl-2-pentanone	40.6	25	J
TO-15	SS-1A-OS-01	DU	Vinyl Chloride	29.3	25	J

Table 5 - List of LCS/CCV Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	B336239-BS1	LCS	Ethanol	63.3	70	130	OA-1-OS-01	J
TO-15	B336239-BS1	LCS	Hexachlorobutadiene	68.7	70	130	OA-1-OS-01	UJ
TO-15	B336239-BS1	LCS	Isopropanol	69.0	70	130	OA-1-OS-01	J
TO-15	B336239-BS1	LCS	Naphthalene	64.3	70	130	OA-1-OS-01	UJ
TO-15	B336239-BS1	LCS	1,2,4-Trichlorobenzene	57.5	70	130	OA-1-OS-01	UJ
TO-15	B336239-BS1	LCS	Ethanol	63.3	70	130	SS-1A-OS-01 SS-1B-OS-01	J
TO-15	B336239-BS1	LCS	Hexachlorobutadiene	68.7	70	130	SS-1A-OS-01 SS-1B-OS-01	UJ
TO-15	B336239-BS1	LCS	Isopropanol	69.0	70	130	SS-1A-OS-01 SS-1B-OS-01	J
TO-15	B336239-BS1	LCS	Naphthalene	64.3	70	130	SS-1A-OS-01	UJ
TO-15	B336239-BS1	LCS	Naphthalene	64.3	70	130	SS-1B-OS-01	J
TO-15	B336239-BS1	LCS	1,2,4-Trichlorobenzene	57.5	70	130	SS-1A-OS-01 SS-1B-OS-01	UJ
TO-15	B336239-BS1	LCS	Ethanol	63.3	70	130	IA-3-OS-01 SS-3-OS-01	J
TO-15	B336239-BS1	LCS	Hexachlorobutadiene	68.7	70	130	IA-3-OS-01 SS-3-OS-01	UJ
TO-15	B336239-BS1	LCS	Isopropanol	69.0	70	130	IA-3-OS-01 SS-3-OS-01	UJ
TO-15	B336239-BS1	LCS	Naphthalene	64.3	70	130	IA-3-OS-01 SS-3-OS-01	J
TO-15	B336239-BS1	LCS	1,2,4-Trichlorobenzene	57.5	70	130	IA-3-OS-01 SS-3-OS-01	UJ
TO-15	B336239-BS1	LCS	Ethanol	63.3	70	130	IA-1-OS-01 IA-2-OS-01 SS-2-OS-01	J
TO-15	B336239-BS1	LCS	Hexachlorobutadiene	68.7	70	130	IA-1-OS-01 IA-2-OS-01 SS-2-OS-01	UJ

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	B336239-BS1	LCS	Isopropanol	69.0	70	130	IA-1-OS-01 IA-2-OS-01 SS-2-OS-01	J
TO-15	B336239-BS1	LCS	Naphthalene	64.3	70	130	IA-1-OS-01 IA-2-OS-01 SS-2-OS-01	J
TO-15	B336239-BS1	LCS	1,2,4-Trichlorobenzene	57.5	70	130	IA-1-OS-01 IA-2-OS-01 SS-2-OS-01	UJ

Table 5b – CCV Recoveries outside Control Limits
None.

Table 6 –Samples that were Reanalyzed/Diluted

Method	Sample Name	SDG	Sample Type	Dil. Factor	Notes
TO-15	IA-1-OS-07	23B1701	N	4	Sample was diluted to bring the concentration of ethanol within curve limits.
TO-15	IA-2-OS-07	23B1701	N	4	Sample was diluted to bring the concentration of ethanol within curve limits.
TO-15	IA-3-OS-07	23B1703	N	4	Sample was diluted to bring the concentration of ethanol within curve limits.

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	SS-3-OS-07	SS-DUP1-OS-07	RPD	RPD Rating	Qualifier
TO-15	1,1,1-Trichloroethane (TCA)	ug/m3	AS	0.55	1.5	1.6	6.5%	Good	None
TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	AS	3.1	0.87	0.97	10.9%	Good	None
TO-15	1,2,4-Trimethylbenzene	ug/m3	AS	0.49	3.1	3.1	0.0%	Good	None
TO-15	1,3,5-Trimethylbenzene (Mesitylene)	ug/m3	AS	0.49	0.5	0.43	15.1%	Good	None
TO-15	1,3-Butadiene	ug/m3	AS	0.22	0.39	ND	NC	--	None < 5x PQL
TO-15	4-Ethyltoluene	ug/m3	AS	0.49	0.54	0.46	16.0%	Good	None
TO-15	Acetone	ug/m3	AS	9.5	ND	22	NC	--	None < 5x PQL
TO-15	Benzene	ug/m3	AS	0.32	3.9	3.5	10.8%	Good	None
TO-15	Carbon Disulfide	ug/m3	AS	3.1	0.54	0.57	5.4%	Good	None
TO-15	Chloromethane (Methyl Chloride)	ug/m3	AS	0.41	0.88	0.79	10.8%	Good	None

Data Usability Summary Report	Project: Standard Gage & Coal - Air SVI
Date Completed: March 12, 2023	Completed by: Devon Richards; Eridania Marte

Method	Analyte	Unit	Matrix	PQL	SS-3-OS-07	SS-DUP1-OS-07	RPD	RPD Rating	Qualifier
TO-15	Cyclohexane	ug/m3	AS	0.34	3.5	3.1	12.1%	Good	None
TO-15	Dichlorodifluoromethane	ug/m3	AS	0.49	1.8	1.7	5.7%	Good	None
TO-15	Ethanol	ug/m3	AS	7.5	150	140	6.9%	Good	None
TO-15	Ethylbenzene	ug/m3	AS	0.43	2.3	1.9	19.0%	Good	None
TO-15	m,p-Xylene	ug/m3	AS	0.87	5.5	4.7	15.7%	Good	None
TO-15	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	ug/m3	AS	0.41	ND	0.3	NC	--	None < 5x PQL
TO-15	N-Heptane	ug/m3	AS	0.41	3.3	2.8	16.4%	Good	None
TO-15	N-Hexane	ug/m3	AS	14	9.6	8.2	15.7%	Good	None
TO-15	O-Xylene (1,2-Dimethylbenzene)	ug/m3	AS	0.43	2	1.7	16.2%	Good	None
TO-15	Styrene	ug/m3	AS	0.43	3.6	3	18.2%	Good	None
TO-15	Tetrachloroethylene (PCE)	ug/m3	AS	0.68	1.7	1.7	0.0%	Good	None
TO-15	Tetrahydrofuran	ug/m3	AS	2.9	0.8	0.74	7.8%	Good	None
TO-15	Toluene	ug/m3	AS	0.38	10	8.9	11.6%	Good	None
TO-15	Trans-1,2-Dichloroethene	ug/m3	AS	0.4	4.7	4.2	11.2%	Good	None
TO-15	Trichloroethylene (TCE)	ug/m3	AS	0.54	3.6	3.2	11.8%	Good	None
TO-15	Trichlorofluoromethane	ug/m3	AS	2.2	1.4	1.3	7.4%	Good	None

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
CCV	=	continuing calibration verification
COC	=	chain of custody
%D	=	percent difference
DU	=	laboratory duplicate
DUSR	=	data usability summary report
GC/MS	=	gas chromatography / mass spectrometry
LCS	=	laboratory control sample
MB	=	method blank
MS	=	matrix spike
MSD	=	matrix spike duplicate
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RPD	=	relative percent difference
SDG	=	sample delivery group
TIC	=	tentatively identified compound
VOC	=	volatile organic compound

Data Usability Summary Report	Project: Standard Gage & Coal
Date Completed: May 28, 2024	Completed by: Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs
    - *SOP NO. QA-HWSS-A-004, Rev. 0, Standard Operating Procedure for the Validation of Volatile Data*

The data validation was performed under Category B guidelines. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0026	GCQ64221 23I2909	Phoenix Environmental Laboratories, Inc. Contest – A Pace Analytical Laboratory

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
GCQ64221	WG	FD-20240430 (1)	CQ64225	04/30/24	FD	
GCQ64221	WG	MW-B1-20240430 (1)	CQ64221	04/30/24 13:32		
GCQ64221	WG	MW-B2-20240430 (1)	CQ64222	04/30/24 14:45	MS/MSD	
GCQ64221	WQ	TB-20240430 (1)	CQ64226	04/30/24	TB	
GCQ64221	WG	W-1-20240430 (1)	CQ64223	04/30/24 11:25		
GCQ64221	WG	W-2-20240430 (1)	CQ64224	04/30/24 11:50		
23I2909	SO	MW-B1(4-5)20230920	23I2909-01	2023/09/20 09:50:00		
23I2909	SO	MW-B2(4-5)20230920	23I2909-02	2023/09/20 13:40:00		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
GCQ64221	WG	SW8260D	Volatile Organic Compounds by GC/MS	5	N/FD
GCQ64221	WQ	SW8260D	Volatile Organic Compounds by GC/MS	1	TB
23I2909	SO	SW8260D	Volatile Organic Compounds by GC/MS	4	N

Data Usability Summary Report	Project: Standard Gage & Coal
Date Completed: May 28, 2024	Completed by: Eridania Marte

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. All sample times for SDG GCQ64221 were stamped as 13:32 in the deliverable provided; however, sample times were updated in Table 1 above and EDD to reflect sample times noted on COC. No sample times were provided for field duplicate and trip blank sample.
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Equipment Blank - 1/ set of samples per day?	Yes. 1 field duplicate collected per 4 GW samples. 1 MS/MSD collected per 4 GW samples. 1 trip blanks collected per 4 GW samples. No field QC collected for soil samples. No field duplicates, MS/MSDs, or rinse blanks were collected for groundwater samples. The data will be used to make SVI decisions and no water QC was required.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD and RPD Outside Limits (Table 4)
- LCS/CCV/ICV Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)
- Field Duplicate Results (Table 7)

Go to List

Volatile Organic Compounds by Method 8260D	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < the PQL or < 2 times the PQL for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is MS/MSD within QC criteria (see Table 4A/4B)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	No. Multiple analytes recovered outside of the acceptance criteria in MS and/or MSD associated with parent sample MW-B2-20240430 (1). Bromomethane was UJ qualified as estimated non-detect. No additional qualifications were made.
Is LCS within QC criteria (see Table 5/5A)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Multiple analytes were outside of the acceptance criteria in the LCS and/or LCSD. The LCS recovery were high, while the associated sample results were non-detect. No qualifications were made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit (see Table 5B)?	No. Multiple analytes were noted in the laboratory's non-conformance summaries for SDG GCQ64221 as having not met minimum response factors in the initial calibration based on EPA Method 8260D Table 4 Guidance Response Factors Criteria from EPA Contract Laboratory Program. However, 0.01 RF is used as the laboratory's limit. As the laboratory's RF min is calculated based on their specific instrumentation studies, the laboratory's RF min was used to determine qualifications. All analytes were above the laboratory's RF min; therefore, no qualifications were made. Multiple analytes recovered outside of the laboratory's minimum %RSD acceptance limit in the IC. The associated sample results were UJ qualified as estimated values.
Is continuing calibration for target compounds <20 %D (see Table 5B)?	No. Multiple analytes were noted in the laboratory's non-conformance summaries for SDG GCQ64221 as having not met minimum response factors in multiple CCVs based on EPA Method 8260D Table 4 Guidance Response Factors Criteria from EPA

Volatile Organic Compounds by Method 8260D	
	Contract Laboratory Program. However, 0.01 RF is used as the laboratory's limit. As the laboratory's RF min is calculated based on their specific instrumentation studies, the laboratory's RF min was used to determine qualifications. All analytes were above the laboratory's RF min; therefore, no qualifications were made. Multiple analytes recovered outside of the laboratory's minimum %D acceptance limit in multiple CCVs. The associated sample results were UJ qualified as estimated values.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	All sample results were non-detect; therefore, precision was unable to be determined

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the analyses. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

U – The analyte was analyzed for, but due to blank contamination was flagged as non-detect (U). The result is usable as a non-detect.

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ – The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings
• Multiple analytes were UJ qualified in multiple samples due to poor recovery in the associated IC, ICV and CCV. See Table 5B for associated samples. • Bromomethane was UJ qualified in sample MW-B2-20240430 (1) due to poor MS and MS/MSD RPD recovery.

Table 2 – List of Positive Results for Blank Samples
None.

Table 2A – List of Samples Qualified for Method Blank Contamination
None.

Table 2B – List of Samples Qualified for Field Blank Contamination
None.

Table 3 - List of Samples with Surrogates outside Control Limits
None.

Table 4A – List of MS/MSD Recoveries outside Control Limits

Method	Sample ID	Sample Type	Analyte	MS Rec	MSD Rec	Low Limit	High Limit	Associated Samples	Sample Qualifier
8260D	CQ64222	MS	Bromomethane	65	--	70	130	MW-B2-20240430 (1)	UJ Flag
8260D	CQ64222	MSD	Dichlorodifluoromethane	--	138	70	130	MW-B2-20240430 (1)	None – High & ND
8260D	CQ64222	MSD	Trichlorotrifluoroethane	--	142	70	130	MW-B2-20240430 (1)	None – High & ND

Table 4B – List of MS/MSD RPD outside Control Limits

Method	Sample ID	Sample Type	Analyte	%RPD	%RPD Limit	Associated Samples	Sample Qualifier
8260D	CQ64222	MS/MSD	Bromomethane	35.4	30	MW-B2-20240430 (1)	UJ Flag

Table 5 – List of LCS Recoveries outside Control Limits

Method	Sample ID	Sample Type	Analyte	LCS Rec	LCSD Rec	Low Limit	High Limit	Associated Samples	Sample Qualifier
8260D	CQ64226	LCS/LCSD	Dichlorodifluoromethane	147	148	70	130	FD-20240430 (1) MW-B1-20240430 (1) TB-20240430 (1) W-1-20240430 (1) W-2-20240430 (1)	None – High & ND
			Trichlorotrifluoroethane	136	138	70	130		
			1,2,3-Trichlorobenzene	131	139	70	130		
8260D	CQ64222	LCSD	Dichlorodifluoromethane	--	135	70	130	MW-B2-20240430 (1)	None – High & ND
			1,2,3-Trichlorobenzene	--	132	70	130		

Table 5A – List of LCS RPD outside Control Limits
None.

Table 5B – List of IC/ICV/CCV recoveries outside Control Limits

Method	Calibration ID	Sample Type	Analyte	%D or RF	%D or RF Limit	Associated Samples	Sample Qualifier
8260D	CHEM02 04/30/24 - 04/30/24	IC	Dichlorodifluoromethane	25.9	20	FD-20240430 (1) MW-B1-20240430 (1) MW-B2-20240430 (1) TB-20240430 (1) W-1-20240430 (1) W-2-20240430 (1)	UJ Flag
			Trichlorofluoromethane	21.6	20		UJ Flag
			Trichlorotrifluoroethane	24.5	20		UJ Flag
			trans-1,4-Dichloro-2-butene	24.3	20		UJ Flag
			1,2-Dibromo-3-Chloropropane	30.4	20		UJ Flag
			1,2,4-Trichlorobenzene	26.8	20		UJ Flag
			1,2,3-Trichlorobenzene	31.0	20		UJ Flag
8260D	CHEM02 0503_02.D	CCV	Dichlorodifluoromethane	-29.0	20	FD-20240430 (1) MW-B1-20240430 (1) TB-20240430 (1) W-1-20240430 (1) W-2-20240430 (1)	UJ Flag
8260D	CHEM02 0506_02.D	CCV	Dichlorodifluoromethane	-21.8	20	MW-B2-20240430 (1)	UJ Flag
			Trichlorotrifluoroethane	-27.5	20		UJ Flag
			trans-1,4-Dichloro-2-butene	-22.0	20		UJ Flag
			1,2-Dibromo-3-Chloropropane	-21.4	20		UJ Flag
			1,2,3-Trichlorobenzene	-21.1	20		UJ Flag
8260D	S090412-ICV1	ICV	Bromomethane	-32.4	20	MW-B1(4-5) MW-B2(4-5)	UJ Flag

Table 6 – Samples that were Re-analyzed/Diluted
None.

Table 7 – Summary of Field Duplicate Results
Not applicable.

Data Usability Summary Report	Project: Standard Gage & Coal
Date Completed: May 28, 2024	Completed by: Eridania Marte

Acronym List and Table Key:

CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
IC	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
µg/L	=	micrograms per liter
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal (field) sample
N/A	=	not applicable
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RPD	=	relative percent difference
SDG	=	sample delivery group
SVI	=	soil vapor intrusion
TB	=	trip blank
TRG	=	target compound
WG	=	groundwater
WQ	=	water quality control matrix
%D	=	percent difference
%RSD	=	percent relative standard deviation

H Laboratory Analytical Reports

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

February 27, 2023

Dave Morelli
NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595

Project Location: 05-2A,620-630 Broadway, Kingston, NY
Client Job Number:
Project Number: 2208348
Laboratory Work Order Number: 23B1701

Enclosed are results of analyses for samples as received by the laboratory on February 13, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

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

NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595
ATTN: Dave Morelli

REPORT DATE: 2/27/2023

PURCHASE ORDER NUMBER: R3MULTISVI

PROJECT NUMBER: 2208348

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23B1701

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

PROJECT LOCATION: 05-2A,620-630 Broadway, Kingston, NY

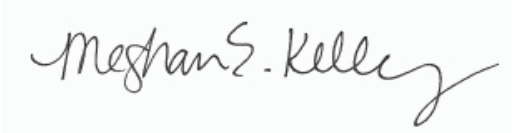
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-1	23B1701-01	Sub Slab		EPA TO-15	
IA-1	23B1701-02	Indoor air		EPA TO-15	
SS-2	23B1701-03	Sub Slab		EPA TO-15	
IA-2	23B1701-04	Indoor air		EPA TO-15	

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CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: SS-1
Sample ID: 23B1701-01
Sample Matrix: Sub Slab
Sampled: 2/8/2023 11:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 2226
Canister Size: 6 liter
Flow Controller ID: 3671
Sample Type: 24 hr

Work Order: 23B1701
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -7.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	87	4.0	2.4		210	9.5	5.7	2	2/22/23 1:54	SFM
Benzene	0.47	0.10	0.076		1.5	0.32	0.24	2	2/22/23 1:54	SFM
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	2/22/23 1:54	SFM
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	2/22/23 1:54	SFM
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	2/22/23 1:54	SFM
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	2/22/23 1:54	SFM
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	2/22/23 1:54	SFM
2-Butanone (MEK)	3.5	4.0	1.1	J	10	12	3.1	2	2/22/23 1:54	SFM
Carbon Disulfide	0.56	1.0	0.092	J	1.8	3.1	0.29	2	2/22/23 1:54	SFM
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	2/22/23 1:54	SFM
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	2/22/23 1:54	SFM
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	2/22/23 1:54	SFM
Chloroform	0.42	0.10	0.095		2.1	0.49	0.46	2	2/22/23 1:54	SFM
Chloromethane	0.22	0.20	0.079		0.45	0.41	0.16	2	2/22/23 1:54	SFM
Cyclohexane	0.20	0.10	0.060		0.70	0.34	0.21	2	2/22/23 1:54	SFM
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	2/22/23 1:54	SFM
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	2/22/23 1:54	SFM
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	2/22/23 1:54	SFM
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	2/22/23 1:54	SFM
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	2/22/23 1:54	SFM
Dichlorodifluoromethane (Freon 12)	0.32	0.10	0.098		1.6	0.49	0.48	2	2/22/23 1:54	SFM
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	2/22/23 1:54	SFM
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	2/22/23 1:54	SFM
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	2/22/23 1:54	SFM
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	2/22/23 1:54	SFM
trans-1,2-Dichloroethylene	4.6	0.10	0.079		18	0.40	0.31	2	2/22/23 1:54	SFM
1,2-Dichloropropane	0.14	0.10	0.054		0.67	0.46	0.25	2	2/22/23 1:54	SFM
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	2/22/23 1:54	SFM
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	2/22/23 1:54	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	2/22/23 1:54	SFM
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	2/22/23 1:54	SFM
Ethanol	59	4.0	1.8		110	7.5	3.3	2	2/22/23 1:54	SFM
Ethyl Acetate	0.99	1.0	0.51	J	3.6	3.6	1.8	2	2/22/23 1:54	SFM
Ethylbenzene	0.45	0.10	0.058		2.0	0.43	0.25	2	2/22/23 1:54	SFM
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	2/22/23 1:54	SFM
Heptane	0.42	0.10	0.064		1.7	0.41	0.26	2	2/22/23 1:54	SFM
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	2/22/23 1:54	SFM
Hexane	1.0	4.0	0.52	J	3.5	14	1.8	2	2/22/23 1:54	SFM
2-Hexanone (MBK)	0.16	0.10	0.050		0.64	0.41	0.20	2	2/22/23 1:54	SFM
Isopropanol	6.4	4.0	0.69		16	9.8	1.7	2	2/22/23 1:54	SFM
Methyl tert-Butyl Ether (MTBE)	0.20	0.10	0.077		0.74	0.36	0.28	2	2/22/23 1:54	SFM
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	2/22/23 1:54	SFM
4-Methyl-2-pentanone (MIBK)	0.34	0.10	0.053		1.4	0.41	0.22	2	2/22/23 1:54	SFM
Naphthalene	0.12	0.10	0.075		0.61	0.52	0.40	2	2/22/23 1:54	SFM
Propene	ND	4.0	0.88		ND	6.9	1.5	2	2/22/23 1:54	SFM
Styrene	0.072	0.10	0.053	J	0.31	0.43	0.22	2	2/22/23 1:54	SFM
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	2/22/23 1:54	SFM

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: SS-1
Sample ID: 23B1701-01
Sample Matrix: Sub Slab
Sampled: 2/8/2023 11:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 2226
Canister Size: 6 liter
Flow Controller ID: 3671
Sample Type: 24 hr

Work Order: 23B1701
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -7.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	1.9	0.10	0.076		13	0.68	0.52	2	2/22/23 1:54	SFM
Tetrahydrofuran	0.30	1.0	0.16	J	0.89	2.9	0.48	2	2/22/23 1:54	SFM
Toluene	2.4	0.10	0.057		9.1	0.38	0.22	2	2/22/23 1:54	SFM
1,2,4 Trichlorobenzene	ND	0 10	0 093		ND	0 74	0 69	2	2/22/23 1 54	SFM
1,1,1-Trichloroethane	0.35	0.10	0.079		1.9	0.55	0.43	2	2/22/23 1:54	SFM
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/22/23 1:54	SFM
Trichloroethylene	1.6	0.10	0.067		8.8	0.54	0.36	2	2/22/23 1:54	SFM
Trichlorofluoromethane (Freon 11)	0.25	0.40	0.12	J	1.4	2.2	0.66	2	2/22/23 1:54	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.11	0.40	0.11	J	0.86	3.1	0.85	2	2/22/23 1:54	SFM
1,2,4-Trimethylbenzene	ND	0.10	0.044		ND	0.49	0.22	2	2/22/23 1:54	SFM
1,3,5-Trimethylbenzene	0.056	0.10	0.053	J	0.28	0.49	0.26	2	2/22/23 1:54	SFM
Vinyl Acetate	ND	2.0	0.54		ND	7.0	1.9	2	2/22/23 1:54	SFM
Vinyl Chloride	ND	0.10	0.090		ND	0.26	0.23	2	2/22/23 1:54	SFM
m&p-Xylene	1.1	0.20	0.11		4.6	0.87	0.49	2	2/22/23 1:54	SFM
o-Xylene	0.84	0.10	0.051		3.6	0.43	0.22	2	2/22/23 1:54	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	104	70-130	2/22/23 1:54	

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: IA-1
Sample ID: 23B1701-02
Sample Matrix: Indoor air
Sampled: 2/8/2023 11:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1268
Canister Size: 6 liter
Flow Controller ID: 3068
Sample Type: 24 hr

Work Order: 23B1701
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -3.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	24	1.4	0.85		57	3.3	2.0	0.702	2/21/23 21:27	SFM
Benzene	0.50	0.035	0.027		1.6	0.11	0.085	0.702	2/21/23 21:27	SFM
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	2/21/23 21:27	SFM
Bromodichloromethane	ND	0 035	0 025		ND	0 24	0 16	0 702	2/21/23 21 27	SFM
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	2/21/23 21:27	SFM
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	2/21/23 21:27	SFM
1,3-Butadiene	0.17	0.035	0.029		0.37	0.078	0.065	0.702	2/21/23 21:27	SFM
2-Butanone (MEK)	0.89	1.4	0.37	J	2.6	4.1	1.1	0.702	2/21/23 21:27	SFM
Carbon Disulfide	0.081	0.35	0.032	J	0.25	1.1	0.10	0.702	2/21/23 21:27	SFM
Carbon Tetrachloride	0.067	0.035	0.028		0.42	0.22	0.18	0.702	2/21/23 21:27	SFM
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	2/21/23 21:27	SFM
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	2/21/23 21:27	SFM
Chloroform	0.038	0.035	0.033		0.19	0.17	0.16	0.702	2/21/23 21:27	SFM
Chloromethane	0.53	0.070	0.028		1.1	0.14	0.058	0.702	2/21/23 21:27	SFM
Cyclohexane	0.26	0.035	0.021		0.90	0.12	0.073	0.702	2/21/23 21:27	SFM
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	2/21/23 21:27	SFM
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	2/21/23 21:27	SFM
1,2-Dichlorobenzene	0.026	0.035	0.020	J	0.16	0.21	0.12	0.702	2/21/23 21:27	SFM
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	2/21/23 21:27	SFM
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	2/21/23 21:27	SFM
Dichlorodifluoromethane (Freon 12)	0.27	0.035	0.034		1.3	0.17	0.17	0.702	2/21/23 21:27	SFM
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	2/21/23 21:27	SFM
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	2/21/23 21:27	SFM
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	2/21/23 21:27	SFM
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	2/21/23 21:27	SFM
trans-1,2-Dichloroethylene	30	0.035	0.028		120	0.14	0.11	0.702	2/21/23 21:27	SFM
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	2/21/23 21:27	SFM
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/21/23 21:27	SFM
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/21/23 21:27	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	2/21/23 21:27	SFM
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	2/21/23 21:27	SFM
Ethanol	100	8.0	3.5		200	15	6.6	4	2/22/23 19:21	SFM
Ethyl Acetate	0.32	0.35	0.18	J	1.1	1.3	0.64	0.702	2/21/23 21:27	SFM
Ethylbenzene	0.27	0.035	0.020		1.2	0.15	0.089	0.702	2/21/23 21:27	SFM
4-Ethyltoluene	0.55	0.035	0.022		2.7	0.17	0.11	0.702	2/21/23 21:27	SFM
Heptane	0.29	0.035	0.022		1.2	0.14	0.092	0.702	2/21/23 21:27	SFM
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	2/21/23 21:27	SFM
Hexane	0.69	1.4	0.18	J	2.4	4.9	0.64	0.702	2/21/23 21:27	SFM
2-Hexanone (MBK)	0.082	0.035	0.018		0.34	0.14	0.072	0.702	2/21/23 21:27	SFM
Isopropanol	3.7	1.4	0.24		9.2	3.4	0.60	0.702	2/21/23 21:27	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	2/21/23 21:27	SFM
Methylene Chloride	0.48	0.35	0.16		1.7	1.2	0.57	0.702	2/21/23 21:27	SFM
4-Methyl-2-pentanone (MIBK)	0.056	0.035	0.019		0.23	0.14	0.077	0.702	2/21/23 21:27	SFM
Naphthalene	0.027	0.035	0.026	J	0.14	0.18	0.14	0.702	2/21/23 21:27	SFM
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	2/21/23 21:27	SFM
Styrene	0.29	0.035	0.018		1.2	0.15	0.079	0.702	2/21/23 21:27	SFM
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	2/21/23 21:27	SFM

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: IA-1
Sample ID: 23B1701-02
Sample Matrix: Indoor air
Sampled: 2/8/2023 11:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1268
Canister Size: 6 liter
Flow Controller ID: 3068
Sample Type: 24 hr

Work Order: 23B1701
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -3.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.16	0.035	0.027		1.1	0.24	0.18	0.702	2/21/23 21:27	SFM
Tetrahydrofuran	0.60	0.35	0.058		1.8	1.0	0.17	0.702	2/21/23 21:27	SFM
Toluene	1.8	0.035	0.020		6.7	0.13	0.076	0.702	2/21/23 21:27	SFM
1,2,4 Trichlorobenzene	ND	0 035	0 033		ND	0 26	0 24	0 702	2/21/23 21 27	SFM
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	2/21/23 21:27	SFM
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	2/21/23 21:27	SFM
Trichloroethylene	9.2	0.035	0.024		49	0.19	0.13	0.702	2/21/23 21:27	SFM
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.4	0.79	0.23	0.702	2/21/23 21:27	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.063	0.14	0.039	J	0.48	1.1	0.30	0.702	2/21/23 21:27	SFM
1,2,4-Trimethylbenzene	1.6	0.035	0.016		8.1	0.17	0.076	0.702	2/21/23 21:27	SFM
1,3,5-Trimethylbenzene	0.55	0.035	0.019		2.7	0.17	0.091	0.702	2/21/23 21:27	SFM
Vinyl Acetate	0.62	0.70	0.19	J	2.2	2.5	0.66	0.702	2/21/23 21:27	SFM
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	2/21/23 21:27	SFM
m&p-Xylene	0.79	0.070	0.039		3.4	0.30	0.17	0.702	2/21/23 21:27	SFM
o-Xylene	0.35	0.035	0.018		1.5	0.15	0.078	0.702	2/21/23 21:27	SFM

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	106	70-130	2/21/23 21:27
4-Bromofluorobenzene (1)	105	70-130	2/22/23 19:21

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

ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: SS-2
Sample ID: 23B1701-03
Sample Matrix: Sub Slab
Sampled: 2/8/2023 12:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1998
Canister Size: 6 liter
Flow Controller ID: 3740
Sample Type: 24 hr

Work Order: 23B1701
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8.5
Receipt Vacuum(in Hg): -8.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	31	4.0	2.4		74	9.5	5.7	2	2/22/23 2:35	SFM
Benzene	0.35	0.10	0.076		1.1	0.32	0.24	2	2/22/23 2:35	SFM
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	2/22/23 2:35	SFM
Bromodichloromethane	ND	0 10	0 070		ND	0 67	0 47	2	2/22/23 2 35	SFM
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	2/22/23 2:35	SFM
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	2/22/23 2:35	SFM
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	2/22/23 2:35	SFM
2-Butanone (MEK)	3.2	4.0	1.1	J	9.6	12	3.1	2	2/22/23 2:35	SFM
Carbon Disulfide	0.80	1.0	0.092	J	2.5	3.1	0.29	2	2/22/23 2:35	SFM
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	2/22/23 2:35	SFM
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	2/22/23 2:35	SFM
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	2/22/23 2:35	SFM
Chloroform	ND	0.10	0.095		ND	0.49	0.46	2	2/22/23 2:35	SFM
Chloromethane	0.39	0.20	0.079		0.80	0.41	0.16	2	2/22/23 2:35	SFM
Cyclohexane	0.15	0.10	0.060		0.50	0.34	0.21	2	2/22/23 2:35	SFM
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	2/22/23 2:35	SFM
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	2/22/23 2:35	SFM
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	2/22/23 2:35	SFM
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	2/22/23 2:35	SFM
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	2/22/23 2:35	SFM
Dichlorodifluoromethane (Freon 12)	0.35	0.10	0.098		1.8	0.49	0.48	2	2/22/23 2:35	SFM
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	2/22/23 2:35	SFM
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	2/22/23 2:35	SFM
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	2/22/23 2:35	SFM
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	2/22/23 2:35	SFM
trans-1,2-Dichloroethylene	1.3	0.10	0.079		5.1	0.40	0.31	2	2/22/23 2:35	SFM
1,2-Dichloropropane	0.12	0.10	0.054		0.55	0.46	0.25	2	2/22/23 2:35	SFM
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	2/22/23 2:35	SFM
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	2/22/23 2:35	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	2/22/23 2:35	SFM
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	2/22/23 2:35	SFM
Ethanol	66	4.0	1.8		120	7.5	3.3	2	2/22/23 2:35	SFM
Ethyl Acetate	1.4	1.0	0.51		4.9	3.6	1.8	2	2/22/23 2:35	SFM
Ethylbenzene	0.48	0.10	0.058		2.1	0.43	0.25	2	2/22/23 2:35	SFM
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	2/22/23 2:35	SFM
Heptane	0.19	0.10	0.064		0.76	0.41	0.26	2	2/22/23 2:35	SFM
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	2/22/23 2:35	SFM
Hexane	ND	4.0	0.52		ND	14	1.8	2	2/22/23 2:35	SFM
2-Hexanone (MBK)	0.14	0.10	0.050		0.57	0.41	0.20	2	2/22/23 2:35	SFM
Isopropanol	7.4	4.0	0.69		18	9.8	1.7	2	2/22/23 2:35	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	2/22/23 2:35	SFM
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	2/22/23 2:35	SFM
4-Methyl-2-pentanone (MIBK)	0.21	0.10	0.053		0.85	0.41	0.22	2	2/22/23 2:35	SFM
Naphthalene	0.11	0.10	0.075		0.56	0.52	0.40	2	2/22/23 2:35	SFM
Propene	ND	4.0	0.88		ND	6.9	1.5	2	2/22/23 2:35	SFM
Styrene	0.072	0.10	0.053	J	0.31	0.43	0.22	2	2/22/23 2:35	SFM
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	2/22/23 2:35	SFM

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: SS-2
Sample ID: 23B1701-03
Sample Matrix: Sub Slab
Sampled: 2/8/2023 12:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1998
Canister Size: 6 liter
Flow Controller ID: 3740
Sample Type: 24 hr

Work Order: 23B1701
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8.5
Receipt Vacuum(in Hg): -8.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.65	0.10	0.076		4.4	0.68	0.52	2	2/22/23 2:35	SFM
Tetrahydrofuran	0.27	1.0	0.16	J	0.80	2.9	0.48	2	2/22/23 2:35	SFM
Toluene	1.9	0.10	0.057		7.3	0.38	0.22	2	2/22/23 2:35	SFM
1,2,4 Trichlorobenzene	ND	0 10	0 093		ND	0 74	0 69	2	2/22/23 2 35	SFM
1,1,1-Trichloroethane	3.1	0.10	0.079		17	0.55	0.43	2	2/22/23 2:35	SFM
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/22/23 2:35	SFM
Trichloroethylene	0.49	0.10	0.067		2.6	0.54	0.36	2	2/22/23 2:35	SFM
Trichlorofluoromethane (Freon 11)	0.23	0.40	0.12	J	1.3	2.2	0.66	2	2/22/23 2:35	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.33	0.40	0.11	J	2.5	3.1	0.85	2	2/22/23 2:35	SFM
1,2,4-Trimethylbenzene	ND	0.10	0.044		ND	0.49	0.22	2	2/22/23 2:35	SFM
1,3,5-Trimethylbenzene	0.066	0.10	0.053	J	0.32	0.49	0.26	2	2/22/23 2:35	SFM
Vinyl Acetate	ND	2.0	0.54		ND	7.0	1.9	2	2/22/23 2:35	SFM
Vinyl Chloride	ND	0.10	0.090		ND	0.26	0.23	2	2/22/23 2:35	SFM
m&p-Xylene	1.0	0.20	0.11		4.4	0.87	0.49	2	2/22/23 2:35	SFM
o-Xylene	0.58	0.10	0.051		2.5	0.43	0.22	2	2/22/23 2:35	SFM

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	102	70-130	2/22/23 2:35

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: IA-2
Sample ID: 23B1701-04
Sample Matrix: Indoor air
Sampled: 2/8/2023 12:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1711
Canister Size: 6 liter
Flow Controller ID: 3739
Sample Type: 24 hr

Work Order: 23B1701
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -7.5
Receipt Vacuum(in Hg): -6.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	6.2	1.4	0.85		15	3.3	2.0	0.702	2/21/23 22:14	SFM
Benzene	0.95	0.035	0.027		3.0	0.11	0.085	0.702	2/21/23 22:14	SFM
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	2/21/23 22:14	SFM
Bromodichloromethane	ND	0 035	0 025		ND	0 24	0 16	0 702	2/21/23 22 14	SFM
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	2/21/23 22:14	SFM
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	2/21/23 22:14	SFM
1,3-Butadiene	0.097	0.035	0.029		0.21	0.078	0.065	0.702	2/21/23 22:14	SFM
2-Butanone (MEK)	0.91	1.4	0.37	J	2.7	4.1	1.1	0.702	2/21/23 22:14	SFM
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	2/21/23 22:14	SFM
Carbon Tetrachloride	0.062	0.035	0.028		0.39	0.22	0.18	0.702	2/21/23 22:14	SFM
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	2/21/23 22:14	SFM
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	2/21/23 22:14	SFM
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	2/21/23 22:14	SFM
Chloromethane	0.48	0.070	0.028		1.00	0.14	0.058	0.702	2/21/23 22:14	SFM
Cyclohexane	0.61	0.035	0.021		2.1	0.12	0.073	0.702	2/21/23 22:14	SFM
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	2/21/23 22:14	SFM
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	2/21/23 22:14	SFM
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	2/21/23 22:14	SFM
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	2/21/23 22:14	SFM
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	2/21/23 22:14	SFM
Dichlorodifluoromethane (Freon 12)	0.23	0.035	0.034		1.1	0.17	0.17	0.702	2/21/23 22:14	SFM
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	2/21/23 22:14	SFM
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	2/21/23 22:14	SFM
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	2/21/23 22:14	SFM
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	2/21/23 22:14	SFM
trans-1,2-Dichloroethylene	1.8	0.035	0.028		7.2	0.14	0.11	0.702	2/21/23 22:14	SFM
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	2/21/23 22:14	SFM
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/21/23 22:14	SFM
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/21/23 22:14	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	2/21/23 22:14	SFM
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	2/21/23 22:14	SFM
Ethanol	59	8.0	3.5		110	15	6.6	4	2/22/23 20:01	SFM
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.702	2/21/23 22:14	SFM
Ethylbenzene	0.38	0.035	0.020		1.7	0.15	0.089	0.702	2/21/23 22:14	SFM
4-Ethyltoluene	0.14	0.035	0.022		0.67	0.17	0.11	0.702	2/21/23 22:14	SFM
Heptane	0.52	0.035	0.022		2.1	0.14	0.092	0.702	2/21/23 22:14	SFM
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	2/21/23 22:14	SFM
Hexane	1.7	1.4	0.18		6.0	4.9	0.64	0.702	2/21/23 22:14	SFM
2-Hexanone (MBK)	0.15	0.035	0.018		0.63	0.14	0.072	0.702	2/21/23 22:14	SFM
Isopropanol	2.5	1.4	0.24		6.1	3.4	0.60	0.702	2/21/23 22:14	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	2/21/23 22:14	SFM
Methylene Chloride	0.17	0.35	0.16	J	0.60	1.2	0.57	0.702	2/21/23 22:14	SFM
4-Methyl-2-pentanone (MIBK)	0.068	0.035	0.019		0.28	0.14	0.077	0.702	2/21/23 22:14	SFM
Naphthalene	0.040	0.035	0.026		0.21	0.18	0.14	0.702	2/21/23 22:14	SFM
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	2/21/23 22:14	SFM
Styrene	0.74	0.035	0.018		3.2	0.15	0.079	0.702	2/21/23 22:14	SFM
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	2/21/23 22:14	SFM

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: IA-2
Sample ID: 23B1701-04
Sample Matrix: Indoor air
Sampled: 2/8/2023 12:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1711
Canister Size: 6 liter
Flow Controller ID: 3739
Sample Type: 24 hr

Work Order: 23B1701
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -7.5
Receipt Vacuum(in Hg): -6.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.13	0.035	0.027		0.85	0.24	0.18	0.702	2/21/23 22:14	SFM
Tetrahydrofuran	0.085	0.35	0.058	J	0.25	1.0	0.17	0.702	2/21/23 22:14	SFM
Toluene	1.7	0.035	0.020		6.5	0.13	0.076	0.702	2/21/23 22:14	SFM
1,2,4 Trichlorobenzene	ND	0 035	0 033		ND	0 26	0 24	0 702	2/21/23 22 14	SFM
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	2/21/23 22:14	SFM
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	2/21/23 22:14	SFM
Trichloroethylene	0.79	0.035	0.024		4.2	0.19	0.13	0.702	2/21/23 22:14	SFM
Trichlorofluoromethane (Freon 11)	0.28	0.14	0.041		1.6	0.79	0.23	0.702	2/21/23 22:14	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.19	0.14	0.039		1.5	1.1	0.30	0.702	2/21/23 22:14	SFM
1,2,4-Trimethylbenzene	0.41	0.035	0.016		2.0	0.17	0.076	0.702	2/21/23 22:14	SFM
1,3,5-Trimethylbenzene	0.13	0.035	0.019		0.63	0.17	0.091	0.702	2/21/23 22:14	SFM
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.702	2/21/23 22:14	SFM
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	2/21/23 22:14	SFM
m&p-Xylene	0.90	0.070	0.039		3.9	0.30	0.17	0.702	2/21/23 22:14	SFM
o-Xylene	0.34	0.035	0.018		1.5	0.15	0.078	0.702	2/21/23 22:14	SFM

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	107	70-130	2/22/23 20:01
4-Bromofluorobenzene (1)	106	70-130	2/21/23 22:14

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

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
23B1701-01 [SS-1]	B332700	1.5	1	N/A	1000	400	300	02/21/23
23B1701-02 [IA-1]	B332700	1.5	1	N/A	1000	400	855	02/21/23
23B1701-03 [SS-2]	B332700	1.5	1	N/A	1000	400	300	02/21/23
23B1701-04 [IA-2]	B332700	1.5	1	N/A	1000	400	855	02/21/23

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
23B1701-02RE1 [IA-1]	B332729	1.5	1	N/A	1000	400	150	02/22/23
23B1701 04RE1 [IA 2]	B332729	1 5	1	N/A	1000	400	150	02/22/23

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

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 - TO-15 Prep											
Blank (B332700-BLK1)					Prepared & Analyzed: 02/21/23						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.35									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	0.55	1.4									J
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									
Propene	ND	1.4									
Styrene	ND	0.035									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 TO 15 Prep											
Blank (B332700-BLK1)					Prepared & Analyzed: 02/21/23						
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0 35									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.42*				*8.00*		*105*	*70-130*			
LCS (B332700-BS1)					Prepared & Analyzed: 02/21/23						
Acetone	5.47				5.00		109	70-130			
Benzene	4.87				5.00		97.4	70-130			
Benzyl chloride	5.26				5.00		105	70-130			
Bromodichloromethane	4.85				5.00		97.0	70-130			
Bromoform	4.87				5.00		97.5	70-130			
Bromomethane	5.42				5.00		108	70-130			
1,3-Butadiene	5.28				5.00		106	70-130			
2-Butanone (MEK)	4.82				5.00		96.5	70-130			
Carbon Disulfide	5.14				5.00		103	70-130			
Carbon Tetrachloride	4.88				5.00		97.7	70-130			
Chlorobenzene	4.66				5.00		93.3	70-130			
Chloroethane	5.72				5.00		114	70-130			
Chloroform	5.24				5.00		105	70-130			
Chloromethane	4.88				5.00		97.7	70-130			
Cyclohexane	4.93				5.00		98.6	70-130			
Dibromochloromethane	4.91				5.00		98.2	70-130			
1,2-Dibromoethane (EDB)	4.76				5.00		95.2	70-130			
1,2-Dichlorobenzene	4.89				5.00		97.8	70-130			
1,3-Dichlorobenzene	5.02				5.00		100	70-130			
1,4-Dichlorobenzene	5.06				5.00		101	70-130			
Dichlorodifluoromethane (Freon 12)	5.48				5.00		110	70-130			
1,1-Dichloroethane	5.17				5.00		103	70-130			
1,2-Dichloroethane	5.50				5.00		110	70-130			
1,1-Dichloroethylene	5.45				5.00		109	70-130			
cis-1,2-Dichloroethylene	5.18				5.00		104	70-130			
trans-1,2-Dichloroethylene	5.15				5.00		103	70-130			
1,2-Dichloropropane	4.72				5.00		94.3	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 TO 15 Prep											
LCS (B332700-BS1)					Prepared & Analyzed: 02/21/23						
cis-1,3-Dichloropropene	4.86				5.00		97.2	70-130			
trans-1,3-Dichloropropene	5.05				5.00		101	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5 22				5 00		104	70 130			
1,4-Dioxane	4.78				5.00		95.6	70-130			
Ethanol	4 60				5 00		92.0	70 130			
Ethyl Acetate	5.16				5.00		103	70-130			
Ethylbenzene	4.94				5.00		98.8	70-130			
4-Ethyltoluene	5.25				5.00		105	70-130			
Heptane	4.73				5.00		94.5	70-130			
Hexachlorobutadiene	4.36				5.00		87.2	70-130			
Hexane	5.35				5.00		107	70-130			
2-Hexanone (MBK)	4.58				5.00		91.7	70-130			
Isopropanol	4.67				5.00		93.5	70-130			
Methyl tert-Butyl Ether (MTBE)	5.21				5.00		104	70-130			
Methylene Chloride	4.36				5.00		87.2	70-130			
4-Methyl-2-pentanone (MIBK)	4.55				5.00		91.0	70-130			
Naphthalene	5.03				5.00		101	70-130			
Propene	4.39				5.00		87.8	70-130			
Styrene	5.20				5.00		104	70-130			
1,1,2,2-Tetrachloroethane	4.64				5.00		92.8	70-130			
Tetrachloroethylene	4.74				5.00		94.8	70-130			
Tetrahydrofuran	5.35				5.00		107	70-130			
Toluene	4.88				5.00		97.6	70-130			
1,2,4-Trichlorobenzene	4.42				5.00		88.5	70-130			
1,1,1-Trichloroethane	4.66				5.00		93.1	70-130			
1,1,2-Trichloroethane	4.67				5.00		93.4	70-130			
Trichloroethylene	4.84				5.00		96.7	70-130			
Trichlorofluoromethane (Freon 11)	5.80				5.00		116	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.03				5.00		101	70-130			
1,2,4-Trimethylbenzene	5.13				5.00		103	70-130			
1,3,5-Trimethylbenzene	5.12				5.00		102	70-130			
Vinyl Acetate	4.32				5.00		86.3	70-130			
Vinyl Chloride	5.58				5.00		112	70-130			
m&p-Xylene	10.0				10.0		100	70-130			
o-Xylene	5.09				5.00		102	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.52*				*8.00*		*107*	*70-130*			

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332729 TO 15 Prep											
Blank (B332729-BLK1)					Prepared & Analyzed: 02/22/23						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0 035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.35									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	0.58	1.4									J
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									
Propene	ND	1.4									
Styrene	ND	0.035									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332729 TO 15 Prep											
Blank (B332729-BLK1)					Prepared & Analyzed: 02/22/23						
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0 35									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.42*				*8.00*		*105*	*70-130*			
LCS (B332729-BS1)					Prepared & Analyzed: 02/22/23						
Acetone	5.40				5.00		108	70-130			
Benzene	4.71				5.00		94.1	70-130			
Benzyl chloride	5.13				5.00		103	70-130			
Bromodichloromethane	4.65				5.00		93.1	70-130			
Bromoform	4.66				5.00		93.2	70-130			
Bromomethane	5.49				5.00		110	70-130			
1,3-Butadiene	5.12				5.00		102	70-130			
2-Butanone (MEK)	4.68				5.00		93.7	70-130			
Carbon Disulfide	4.99				5.00		99.9	70-130			
Carbon Tetrachloride	4.68				5.00		93.5	70-130			
Chlorobenzene	4.50				5.00		90.0	70-130			
Chloroethane	5.74				5.00		115	70-130			
Chloroform	4.97				5.00		99.4	70-130			
Chloromethane	4.72				5.00		94.3	70-130			
Cyclohexane	4.78				5.00		95.6	70-130			
Dibromochloromethane	4.72				5.00		94.4	70-130			
1,2-Dibromoethane (EDB)	4.57				5.00		91.4	70-130			
1,2-Dichlorobenzene	4.68				5.00		93.6	70-130			
1,3-Dichlorobenzene	4.81				5.00		96.3	70-130			
1,4-Dichlorobenzene	4.81				5.00		96.2	70-130			
Dichlorodifluoromethane (Freon 12)	5.12				5.00		102	70-130			
1,1-Dichloroethane	4.99				5.00		99.8	70-130			
1,2-Dichloroethane	5.16				5.00		103	70-130			
1,1-Dichloroethylene	5.18				5.00		104	70-130			
cis-1,2-Dichloroethylene	4.90				5.00		98.1	70-130			
trans-1,2-Dichloroethylene	4.90				5.00		98.0	70-130			
1,2-Dichloropropane	4.65				5.00		93.1	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332729 TO 15 Prep											
LCS (B332729-BS1)					Prepared & Analyzed: 02/22/23						
cis-1,3-Dichloropropene	4.72				5.00		94.3	70-130			
trans-1,3-Dichloropropene	4.81				5.00		96.2	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5 10				5 00		102	70 130			
1,4-Dioxane	4.37				5.00		87.4	70-130			
Ethanol	4 46				5 00		89.3	70 130			
Ethyl Acetate	4.94				5.00		98.9	70-130			
Ethylbenzene	4.73				5.00		94.6	70-130			
4-Ethyltoluene	5.02				5.00		100	70-130			
Heptane	4.69				5.00		93.8	70-130			
Hexachlorobutadiene	4.13				5.00		82.5	70-130			
Hexane	5.16				5.00		103	70-130			
2-Hexanone (MBK)	4.49				5.00		89.8	70-130			
Isopropanol	4.58				5.00		91.6	70-130			
Methyl tert-Butyl Ether (MTBE)	5.00				5.00		100	70-130			
Methylene Chloride	4.21				5.00		84.2	70-130			
4-Methyl-2-pentanone (MIBK)	4.51				5.00		90.2	70-130			
Naphthalene	4.76				5.00		95.2	70-130			
Propene	4.40				5.00		88.1	70-130			
Styrene	4.92				5.00		98.3	70-130			
1,1,2,2-Tetrachloroethane	4.53				5.00		90.7	70-130			
Tetrachloroethylene	4.52				5.00		90.3	70-130			
Tetrahydrofuran	5.12				5.00		102	70-130			
Toluene	4.66				5.00		93.2	70-130			
1,2,4-Trichlorobenzene	4.16				5.00		83.2	70-130			
1,1,1-Trichloroethane	4.46				5.00		89.2	70-130			
1,1,2-Trichloroethane	4.54				5.00		90.7	70-130			
Trichloroethylene	4.60				5.00		91.9	70-130			
Trichlorofluoromethane (Freon 11)	5.69				5.00		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.83				5.00		96.6	70-130			
1,2,4-Trimethylbenzene	4.92				5.00		98.3	70-130			
1,3,5-Trimethylbenzene	4.91				5.00		98.2	70-130			
Vinyl Acetate	4.20				5.00		84.1	70-130			
Vinyl Chloride	5.40				5.00		108	70-130			
m&p-Xylene	9.62				10.0		96.2	70-130			
o-Xylene	4.88				5.00		97.6	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.40*				*8.00*		*105*	*70-130*			

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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).

ANALYST

TPH	Thomas P. Hnitecki
SFM	Sandra F Mateega
STATION	Report Queue Station
RJM	Raymond J. McCarthy
CMR	Catherine M. Rouleau
BRF	Brittany R. Fisk

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S076501-ICV1)			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1141026	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2751702	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2471195	14.446	100	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 (S083823-CCV1)			Lab File ID: G23A052004.D			Analyzed: 02/21/23 12:28			
Bromochloromethane (1)	1120883	8.301	1120883	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2908417	10.075	2908417	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2701966	14.44	2701966	14.44	100	60 - 140	0.0000	+/-0.50	
LCS (B332700-BS1)			Lab File ID: G23A052005.D			Analyzed: 02/21/23 13:07			
Bromochloromethane (1)	1123941	8.3	1120883	8.301	100	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	2900522	10.075	2908417	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2694856	14.44	2701966	14.44	100	60 - 140	0.0000	+/-0.50	
Blank (B332700-BLK1)			Lab File ID: G23A052008.D			Analyzed: 02/21/23 15:13			
Bromochloromethane (1)	1121653	8.301	1120883	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2978892	10.075	2908417	10.075	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2784598	14.44	2701966	14.44	103	60 - 140	0.0000	+/-0.50	
IA-1 (23B1701-02)			Lab File ID: G23A052016.D			Analyzed: 02/21/23 21:27			
Bromochloromethane (1)	1219277	8 3	1120883	8 301	109	60 140	0 0010	+/ 0 50	
1,4-Difluorobenzene (1)	3200263	10.075	2908417	10.075	110	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2978959	14.433	2701966	14.44	110	60 - 140	-0.0070	+/-0.50	
IA-2 (23B1701-04)			Lab File ID: G23A052017.D			Analyzed: 02/21/23 22:14			
Bromochloromethane (1)	1230476	8.301	1120883	8.301	110	60 - 140	0.0000	+/-0.50	
1,4 Difluorobenzene (1)	3306412	10 075	2908417	10 075	114	60 140	0 0000	+/ 0 50	
Chlorobenzene-d5 (1)	3099610	14.44	2701966	14.44	115	60 - 140	0.0000	+/-0.50	
SS-1 (23B1701-01)			Lab File ID: G23A052022.D			Analyzed: 02/22/23 01:54			
Bromochloromethane (1)	1149400	8.3	1120883	8.301	103	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	2934759	10.074	2908417	10.075	101	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	2833110	14.439	2701966	14.44	105	60 - 140	-0.0010	+/-0.50	
SS-2 (23B1701-03)			Lab File ID: G23A052023.D			Analyzed: 02/22/23 02:35			
Bromochloromethane (1)	1260979	8.3	1120883	8.301	112	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	3172399	10.068	2908417	10.075	109	60 - 140	-0.0070	+/-0.50	
Chlorobenzene-d5 (1)	3034750	14.44	2701966	14.44	112	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

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INTERNAL STANDARD AREA AND RT SUMMARY

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Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S083836-CCV1)			Lab File ID: G23A053004.D			Analyzed: 02/22/23 13:57			
Bromochloromethane (1)	1131252	8.301	1131252	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2885573	10.075	2885573	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2686987	14.44	2686987	14.44	100	60 - 140	0.0000	+/-0.50	
LCS (B332729-BS1)			Lab File ID: G23A053005.D			Analyzed: 02/22/23 14:36			
Bromochloromethane (1)	1120256	8.301	1131252	8.301	99	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2853569	10.075	2885573	10.075	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2650494	14.44	2686987	14.44	99	60 - 140	0.0000	+/-0.50	
Blank (B332729-BLK1)			Lab File ID: G23A053010.D			Analyzed: 02/22/23 18:02			
Bromochloromethane (1)	1129557	8.307	1131252	8.301	100	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2965701	10.075	2885573	10.075	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2756567	14.44	2686987	14.44	103	60 - 140	0.0000	+/-0.50	
IA-1 (23B1701-02RE1)			Lab File ID: G23A053012.D			Analyzed: 02/22/23 19:21			
Bromochloromethane (1)	1096368	8.3	1131252	8.301	97	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	2723502	10.075	2885573	10.075	94	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2563726	14.44	2686987	14.44	95	60 - 140	0.0000	+/-0.50	
IA-2 (23B1701-04RE1)			Lab File ID: G23A053013.D			Analyzed: 02/22/23 20:01			
Bromochloromethane (1)	1137204	8.301	1131252	8.301	101	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2991861	10.075	2885573	10.075	104	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2779467	14.44	2686987	14.44	103	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083823-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.76	1.084004	1.249451		15.3	30
Benzene	A	5.00	4.95	0.9129288	0.9040118		-1.0	30
Benzyl chloride	A	5.00	5.49	1.030942	1.132795		9.9	30
Bromodichloromethane	A	5.00	4.99	0.6953811	0.6944226		-0.1	30
Bromoform	A	5.00	5.11	0.5656468	0.5779709		2.2	30
Bromomethane	A	5.00	5.80	0.6009459	0.69763		16.1	30
1,3-Butadiene	A	5.00	5.61	0.5443004	0.6109555		12.2	30
2-Butanone (MEK)	A	5.00	4.92	1.507683	1.482401		-1.7	30
Carbon Disulfide	A	5.00	5.08	2.02748	2.05977		1.6	30
Carbon Tetrachloride	A	5.00	5.06	0.5479998	0.5543524		1.2	30
Chlorobenzene	A	5.00	4.83	0.8809329	0.8505623		-3.4	30
Chloroethane	A	5.00	5.90	0.3452967	0.407189		17.9	30
Chloroform	A	5.00	5.28	1.561184	1.647996		5.6	30
Chloromethane	A	5.00	5.16	0.6821899	0.7042391		3.2	30
Cyclohexane	A	5.00	5.12	0.3600845	0.3684704		2.3	30
Dibromochloromethane	A	5.00	5.09	0.6396581	0.6515576		1.9	30
1,2-Dibromoethane (EDB)	A	5.00	4.96	0.6171207	0.6127349		-0.7	30
1,2-Dichlorobenzene	A	5.00	5.08	0.6937094	0.7054608		1.7	30
1,3-Dichlorobenzene	A	5.00	5.24	0.7409581	0.7766191		4.8	30
1,4-Dichlorobenzene	A	5.00	5.25	0.7218155	0.7577215		5.0	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.53	1.62808	1.799438		10.5	30
1,1-Dichloroethane	A	5.00	5.18	1.342742	1.391539		3.6	30
1,2-Dichloroethane	A	5.00	5.52	0.9627523	1.061936		10.3	30
1,1-Dichloroethylene	A	5.00	5.42	1.140142	1.23549		8.4	30
cis-1,2-Dichloroethylene	A	5.00	5.27	0.9670963	1.018907		5.4	30
trans-1,2-Dichloroethylene	A	5.00	5.22	1.001825	1.045135		4.3	30
1,2-Dichloropropane	A	5.00	4.79	0.3567989	0.3421303		-4.1	30
cis-1,3-Dichloropropene	A	5.00	5.11	0.5092852	0.5207385		2.2	30
trans-1,3-Dichloropropene	A	5.00	5.12	0.4570981	0.4679626		2.4	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.82	1.73998	2.024835		16.4	30
1,4-Dioxane	A	5.00	4.88	0.1857641	0.1811036		-2.5	30
Ethanol	A	5.00	4.69	0.2343264	0.2198196		-6.2	30
Ethyl Acetate	A	5.00	5.56	0.2308163	0.2568075		11.3	30
Ethylbenzene	A	5.00	5.16	1.455024	1.499995		3.1	30
4-Ethyltoluene	A	5.00	5.47	1.413771	1.547917		9.5	30
Heptane	A	5.00	4.91	0.2850308	0.2796485		-1.9	30
Hexachlorobutadiene	A	5.00	4.72	0.4677459	0.441464		-5.6	30
Hexane	A	5.00	5.44	0.8985394	0.918336		8.8	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083823-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.75	0.7712864	0.7321904		-5.1	30
Isopropanol	A	5.00	5.69	1.338902	1.523632		13.8	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.50	1.834723	2.018543		10.0	30
Methylene Chloride	A	5.00	4.41	0.9597215	0.8471121		-11.7	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.73	0.7726854	0.7311733		-5.4	30
Naphthalene	A	5.00	5.19	1.092246	1.133455		3.8	30
Propene	A	5.00	4.71	0.5941328	0.5595346		-5.8	30
Styrene	A	5.00	5.45	0.7890752	0.860134		9.0	30
1,1,2,2-Tetrachloroethane	A	5.00	4.85	0.9851261	0.954727		-3.1	30
Tetrachloroethylene	A	5.00	4.90	0.457194	0.4481791		-2.0	30
Tetrahydrofuran	A	5.00	5.34	0.2957092	0.3160594		6.9	30
Toluene	A	5.00	4.97	1.15399	1.146133		-0.7	30
1,2,4-Trichlorobenzene	A	5.00	4.73	0.4973623	0.4708115		-5.3	30
1,1,1-Trichloroethane	A	5.00	4.94	0.5975698	0.590663		-1.2	30
1,1,2-Trichloroethane	A	5.00	4.78	0.4162703	0.3978857		-4.4	30
Trichloroethylene	A	5.00	4.87	0.3947958	0.3847712		-2.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	6.07	1.463327	1.776138		21.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	5.18	1.432547	1.48524		3.7	30
1,2,4-Trimethylbenzene	A	5.00	5.49	1.156019	1.26957		9.8	30
1,3,5-Trimethylbenzene	A	5.00	5.44	1.190388	1.294979		8.8	30
Vinyl Acetate	A	5.00	4.30	1.986739	1.708464		-14.0	30
Vinyl Chloride	A	5.00	5.83	0.7142115	0.8333016		16.7	30
m&p-Xylene	A	10.0	10.5	1.129066	1.185614		5.0	30
o-Xylene	A	5.00	5.28	1.138955	1.201723		5.5	30

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

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083836-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.62	1.084004	1.21739		12.3	30
Benzene	A	5.00	4.86	0.9129288	0.886886		-2.9	30
Benzyl chloride	A	5.00	5.31	1.030942	1.093986		6.1	30
Bromodichloromethane	A	5.00	4.83	0.6953811	0.6719531		-3.4	30
Bromoform	A	5.00	4.87	0.5656468	0.5506051		-2.7	30
Bromomethane	A	5.00	5.72	0.6009459	0.6871254		14.3	30
1,3-Butadiene	A	5.00	5.39	0.5443004	0.5863564		7.7	30
2-Butanone (MEK)	A	5.00	4.80	1.507683	1.445769		-4.1	30
Carbon Disulfide	A	5.00	4.93	2.02748	2.00016		-1.3	30
Carbon Tetrachloride	A	5.00	4.87	0.5479998	0.5335004		-2.6	30
Chlorobenzene	A	5.00	4.67	0.8809329	0.8233573		-6.5	30
Chloroethane	A	5.00	5.74	0.3452967	0.3967088		14.9	30
Chloroform	A	5.00	5.04	1.561184	1.574475		0.9	30
Chloromethane	A	5.00	4.91	0.6821899	0.6701856		-1.8	30
Cyclohexane	A	5.00	4.94	0.3600845	0.3556157		-1.2	30
Dibromochloromethane	A	5.00	4.91	0.6396581	0.62773		-1.9	30
1,2-Dibromoethane (EDB)	A	5.00	4.76	0.6171207	0.5872225		-4.8	30
1,2-Dichlorobenzene	A	5.00	4.85	0.6937094	0.6732335		-3.0	30
1,3-Dichlorobenzene	A	5.00	5.02	0.7409581	0.7445401		0.5	30
1,4-Dichlorobenzene	A	5.00	5.03	0.7218155	0.7265309		0.7	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.22	1.62808	1.701048		4.5	30
1,1-Dichloroethane	A	5.00	5.02	1.342742	1.347505		0.4	30
1,2-Dichloroethane	A	5.00	5.21	0.9627523	1.002698		4.1	30
1,1-Dichloroethylene	A	5.00	5.23	1.140142	1.193608		4.7	30
cis-1,2-Dichloroethylene	A	5.00	5.00	0.9670963	0.9672087		0.01	30
trans-1,2-Dichloroethylene	A	5.00	4.98	1.001825	0.9973332		-0.4	30
1,2-Dichloropropane	A	5.00	4.78	0.3567989	0.341319		-4.3	30
cis-1,3-Dichloropropene	A	5.00	4.95	0.5092852	0.5044261		-1.0	30
trans-1,3-Dichloropropene	A	5.00	4.92	0.4570981	0.4500475		-1.5	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.62	1.73998	1.957361		12.5	30
1,4-Dioxane	A	5.00	4.50	0.1857641	0.1673678		-9.9	30
Ethanol	A	5.00	4.51	0.2343264	0.211532		-9.7	30
Ethyl Acetate	A	5.00	5.42	0.2308163	0.2500861		8.3	30
Ethylbenzene	A	5.00	4.95	1.455024	1.439977		-1.0	30
4-Ethyltoluene	A	5.00	5.20	1.413771	1.470621		4.0	30
Heptane	A	5.00	4.85	0.2850308	0.2764728		-3.0	30
Hexachlorobutadiene	A	5.00	4.50	0.4677459	0.4212665		-9.9	30
Hexane	A	5.00	5.28	0.8985394	0.8916846		5.7	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083836-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.67	0.7712864	0.7209729		-6.5	30
Isopropanol	A	5.00	5.53	1.338902	1.480368		10.6	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.23	1.834723	1.919323		4.6	30
Methylene Chloride	A	5.00	4.31	0.9597215	0.8264995		-13.9	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.70	0.7726854	0.7258726		-6.1	30
Naphthalene	A	5.00	4.93	1.092246	1.077577		-1.3	30
Propene	A	5.00	4.62	0.5941328	0.5491671		-7.6	30
Styrene	A	5.00	5.13	0.7890752	0.8088977		2.5	30
1,1,2,2-Tetrachloroethane	A	5.00	4.71	0.9851261	0.927437		-5.9	30
Tetrachloroethylene	A	5.00	4.68	0.457194	0.4280363		-6.4	30
Tetrahydrofuran	A	5.00	5.09	0.2957092	0.3009451		1.8	30
Toluene	A	5.00	4.80	1.15399	1.107001		-4.1	30
1,2,4-Trichlorobenzene	A	5.00	4.48	0.4973623	0.4451011		-10.5	30
1,1,1-Trichloroethane	A	5.00	4.78	0.5975698	0.5711431		-4.4	30
1,1,2-Trichloroethane	A	5.00	4.66	0.4162703	0.3882648		-6.7	30
Trichloroethylene	A	5.00	4.77	0.3947958	0.3766634		-4.6	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.96	1.463327	1.743677		19.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	4.99	1.432547	1.428434		-0.3	30
1,2,4-Trimethylbenzene	A	5.00	5.16	1.156019	1.194033		3.3	30
1,3,5-Trimethylbenzene	A	5.00	5.17	1.190388	1.231065		3.4	30
Vinyl Acetate	A	5.00	4.19	1.986739	1.665253		-16.2	30
Vinyl Chloride	A	5.00	5.55	0.7142115	0.792494		11.0	30
m&p-Xylene	A	10.0	10.0	1.129066	1.129026		-0.004	30
o-Xylene	A	5.00	5.05	1.138955	1.149516		0.9	30

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

* Values outside of QC limits

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

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

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

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD (AIR)

23B1701

Company Name: NYSDEC/WSP
Address: 500 Summit Lake Dr, Ste 450, Valhalla, NY 10595
Phone: 914 461 2966 (dave.morelli@wsp.com)
Project Name: Standard Gage + Coal
Project Location: OS-07, 161 Garden St, Poughkeepsie, NY
Project Number: R3MULTISVI / Contract # C100701
Project Manager: Dave Morelli
Con-Test Quote Name/Number: —
Invoice Recipient: —
Sampled By: IA/MD

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date: Standard TAT

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other: Level 4
CLP like Data Pkg Required: ☐
Email To: eridania.marse@wsp.com
Email To: dave.morelli@wsp.com

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	TO-15	"Hg			Please fill out completely, sign, date and retain the yellow copy for your records	
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes/hr Sampled	m³/min L/min	Code	Liters m³		Initial Pressure	Final Pressure	Lab Receipt Pressure	Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply	
		2/7/23	2/8/23									For summa canister and flow controller information please refer to Con-Test's Air Media Agreement	
												Summa Can ID	Flow Controller ID
01	SS-1	11:45	11:45	24		SS	6	X	29	6	7.2	2226	3671
02	IA-1	11:45	11:45	"		IA	"	X	30	4	3.2	1268	3068
03	SS-2	12:15	12:15	"		SS	"	X	>30	8.5	8.0	1998	3740
04	IA-2	12:15	12:15	"		IA	"	X	>30	7.5	6.6	1761	3739

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

	Date/Time
Relinquished by: (signature)	2/10/23
Received by: (signature)	Date/Time: 2-13-23 1305
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
GW
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

con-test ANALYTICAL LABORATORY www.contestlabs.com
NEBAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

[redacted]

FedEx® Tracking

DELIVERED

Monday

2/13/2023 at 1:05 pm

Signed for by: HHENRIQUEZ

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Shipment is 1 of 10 pieces

TRACKING ID

771259310443

FROM
NYDEC_WSP
Ian Arturo
500 Summit Lake Drive Suite 450
VALHALLA, NY US 10595
9148010180

Label Created
2/9/2023 10:29 AM

PACKAGE RECEIVED BY FEDEX
BLAUVELT, NY
2/10/2023 6:01 PM

IN TRANSIT
WINDSOR, CT
2/13/2023 5:07 AM

OUT FOR DELIVERY
WINDSOR, CT
2/13/2023 5:23 AM

DELIVERED
Air Lab
Pace Analytical
39 SPRUCE ST
East Longmeadow, MA US 01028
4135252332

Delivered
2/13/2023 at 1:05 PM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

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

Log In Back-Sheet

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

Pace
PEOPLE ADVANCING SCIE

Client NYSDEC/WSP

Project Standard Gauge + Coal

MCP/RCP Required

Deliverable Package Requirement

Location 05-07 161 Garden St Poughkeepsie NY

PWSID# (When Applicable)

Arrival Method FedEx

Received By / Date / Time TPH 2-13-23 1305

Back-Sheet By / Date / Time TPH 2-14-23 1250

Temperature Method #

Temp < 6° C ☐ Actual Temperature

Rush Samples: Yes (No) Notify

Short Hold: Yes (No) Notify

	True	Fals
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	☒	☐

Notes regarding Samples/COC outside of SOP:

COC Included: (Check all included)

Client ☒ Analysis ☒ Sampler Name ☒

Project ☒ IDs ☒ Collection Date/Time ☒

Summa Cans	4	6L	4	24hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector			
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

2226				
1268				
1998				
1711				

3671				
3068				
3746				
3739				

Air Sampling Media Certificate of Analysis

Date Analyzed: 11/29/2022 **Batch #:** 22CC1012

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC2226, BC1268

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 2/27/23

Air Sampling Media Certificate of Analysis

Date Analyzed: 11/10/2022 **Batch #:** 22CC0950

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1998

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 2/27/23

Air Sampling Media Certificate of Analysis

Date Analyzed: 11/10/2022 **Batch #:** 22CC0952

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1711

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 2/27/23

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

February 27, 2023

Dave Morelli
NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595

Project Location: 05-2A,620-630 Broadway, Kingston, NY
Client Job Number:
Project Number: 2208348
Laboratory Work Order Number: 23B1703

Enclosed are results of analyses for samples as received by the laboratory on February 13, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

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

NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595
ATTN: Dave Morelli

REPORT DATE: 2/27/2023

PURCHASE ORDER NUMBER: R3MULTISVI

PROJECT NUMBER: 2208348

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23B1703

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

PROJECT LOCATION: 05-2A,620-630 Broadway, Kingston, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-3	23B1703-01	Sub Slab		EPA TO-15	
SS-DUP1	23B1703-02	Sub Slab		EPA TO-15	
IA-3	23B1703-03	Indoor air		EPA TO-15	

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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

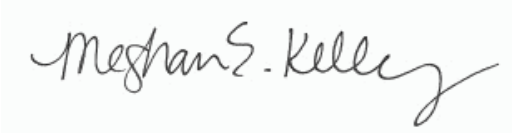
Qualifications:

Z-01 Sample had a final vacuum of zero. Flow controllers have been verified to be okay, RPD was <20%

Analyte & Samples(s) Qualified:

23B1703-01[SS-3], 23B1703-02[SS-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.



Meghan E. Kelley
Reporting Specialist

con-test®
A Pace Analytical® Laboratory

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: SS-3
Sample ID: 23B1703-01
Sample Matrix: Sub Slab
Sampled: 2/8/2023 11:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1986
Canister Size: 6 liter
Flow Controller ID: 3659
Sample Type: 24 hr

Work Order: 23B1703
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 0.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Sample Flags: Z-01

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	ND	4.0	2.4		ND	9.5	5.7	2	2/22/23 3:16	SFM
Benzene	1.2	0.10	0.076		3.9	0.32	0.24	2	2/22/23 3:16	SFM
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	2/22/23 3:16	SFM
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	2/22/23 3:16	SFM
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	2/22/23 3:16	SFM
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	2/22/23 3:16	SFM
1,3-Butadiene	0.18	0.10	0.084		0.39	0.22	0.19	2	2/22/23 3:16	SFM
2-Butanone (MEK)	ND	4.0	1.1		ND	12	3.1	2	2/22/23 3:16	SFM
Carbon Disulfide	0.17	1.0	0.092	J	0.54	3.1	0.29	2	2/22/23 3:16	SFM
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	2/22/23 3:16	SFM
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	2/22/23 3:16	SFM
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	2/22/23 3:16	SFM
Chloroform	ND	0.10	0.095		ND	0.49	0.46	2	2/22/23 3:16	SFM
Chloromethane	0.43	0.20	0.079		0.88	0.41	0.16	2	2/22/23 3:16	SFM
Cyclohexane	1.0	0.10	0.060		3.5	0.34	0.21	2	2/22/23 3:16	SFM
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	2/22/23 3:16	SFM
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	2/22/23 3:16	SFM
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	2/22/23 3:16	SFM
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	2/22/23 3:16	SFM
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	2/22/23 3:16	SFM
Dichlorodifluoromethane (Freon 12)	0.36	0.10	0.098		1.8	0.49	0.48	2	2/22/23 3:16	SFM
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	2/22/23 3:16	SFM
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	2/22/23 3:16	SFM
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	2/22/23 3:16	SFM
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	2/22/23 3:16	SFM
trans-1,2-Dichloroethylene	1.2	0.10	0.079		4.7	0.40	0.31	2	2/22/23 3:16	SFM
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	2/22/23 3:16	SFM
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	2/22/23 3:16	SFM
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	2/22/23 3:16	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	2/22/23 3:16	SFM
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	2/22/23 3:16	SFM
Ethanol	81	4.0	1.8		150	7.5	3.3	2	2/22/23 3:16	SFM
Ethyl Acetate	ND	1.0	0.51		ND	3.6	1.8	2	2/22/23 3:16	SFM
Ethylbenzene	0.52	0.10	0.058		2.3	0.43	0.25	2	2/22/23 3:16	SFM
4-Ethyltoluene	0.11	0.10	0.061		0.54	0.49	0.30	2	2/22/23 3:16	SFM
Heptane	0.80	0.10	0.064		3.3	0.41	0.26	2	2/22/23 3:16	SFM
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	2/22/23 3:16	SFM
Hexane	2.7	4.0	0.52	J	9.6	14	1.8	2	2/22/23 3:16	SFM
2-Hexanone (MBK)	ND	0.10	0.050		ND	0.41	0.20	2	2/22/23 3:16	SFM
Isopropanol	2.0	4.0	0.69	J	4.8	9.8	1.7	2	2/22/23 3:16	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	2/22/23 3:16	SFM
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	2/22/23 3:16	SFM
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	2/22/23 3:16	SFM
Naphthalene	ND	0.10	0.075		ND	0.52	0.40	2	2/22/23 3:16	SFM
Propene	ND	4.0	0.88		ND	6.9	1.5	2	2/22/23 3:16	SFM
Styrene	0.85	0.10	0.053		3.6	0.43	0.22	2	2/22/23 3:16	SFM
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	2/22/23 3:16	SFM

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: SS-3
Sample ID: 23B1703-01
Sample Matrix: Sub Slab
Sampled: 2/8/2023 11:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1986
Canister Size: 6 liter
Flow Controller ID: 3659
Sample Type: 24 hr

Work Order: 23B1703
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 0.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Sample Flags: Z-01

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.26	0.10	0.076		1.7	0.68	0.52	2	2/22/23 3:16	SFM
Tetrahydrofuran	0.27	1.0	0.16	J	0.80	2.9	0.48	2	2/22/23 3:16	SFM
Toluene	2.7	0.10	0.057		10	0.38	0.22	2	2/22/23 3:16	SFM
1,2,4 Trichlorobenzene	ND	0 10	0 093		ND	0 74	0 69	2	2/22/23 3 16	SFM
1,1,1-Trichloroethane	0.28	0.10	0.079		1.5	0.55	0.43	2	2/22/23 3:16	SFM
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/22/23 3:16	SFM
Trichloroethylene	0.66	0.10	0.067		3.6	0.54	0.36	2	2/22/23 3:16	SFM
Trichlorofluoromethane (Freon 11)	0.25	0.40	0.12	J	1.4	2.2	0.66	2	2/22/23 3:16	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.11	0.40	0.11	J	0.87	3.1	0.85	2	2/22/23 3:16	SFM
1,2,4-Trimethylbenzene	0.63	0.10	0.044		3.1	0.49	0.22	2	2/22/23 3:16	SFM
1,3,5-Trimethylbenzene	0.10	0.10	0.053		0.50	0.49	0.26	2	2/22/23 3:16	SFM
Vinyl Acetate	ND	2.0	0.54		ND	7.0	1.9	2	2/22/23 3:16	SFM
Vinyl Chloride	ND	0.10	0.090		ND	0.26	0.23	2	2/22/23 3:16	SFM
m&p-Xylene	1.3	0.20	0.11		5.5	0.87	0.49	2	2/22/23 3:16	SFM
o-Xylene	0.46	0.10	0.051		2.0	0.43	0.22	2	2/22/23 3:16	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	105	70-130		2/22/23 3:16

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: SS-DUP1
Sample ID: 23B1703-02
Sample Matrix: Sub Slab
Sampled: 2/8/2023 11:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1505
Canister Size: 6 liter
Flow Controller ID: 3659
Sample Type: 24 hr

Work Order: 23B1703
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 0.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Sample Flags: Z-01

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	9.2	4.0	2.4		22	9.5	5.7	2	2/22/23 3:57	SFM
Benzene	1.1	0.10	0.076		3.5	0.32	0.24	2	2/22/23 3:57	SFM
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	2/22/23 3:57	SFM
Bromodichloromethane	ND	0 10	0 070		ND	0 67	0 47	2	2/22/23 3 57	SFM
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	2/22/23 3:57	SFM
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	2/22/23 3:57	SFM
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	2/22/23 3:57	SFM
2-Butanone (MEK)	ND	4.0	1.1		ND	12	3.1	2	2/22/23 3:57	SFM
Carbon Disulfide	0.18	1.0	0.092	J	0.57	3.1	0.29	2	2/22/23 3:57	SFM
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	2/22/23 3:57	SFM
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	2/22/23 3:57	SFM
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	2/22/23 3:57	SFM
Chloroform	ND	0.10	0.095		ND	0.49	0.46	2	2/22/23 3:57	SFM
Chloromethane	0.38	0.20	0.079		0.79	0.41	0.16	2	2/22/23 3:57	SFM
Cyclohexane	0.90	0.10	0.060		3.1	0.34	0.21	2	2/22/23 3:57	SFM
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	2/22/23 3:57	SFM
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	2/22/23 3:57	SFM
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	2/22/23 3:57	SFM
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	2/22/23 3:57	SFM
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	2/22/23 3:57	SFM
Dichlorodifluoromethane (Freon 12)	0.34	0.10	0.098		1.7	0.49	0.48	2	2/22/23 3:57	SFM
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	2/22/23 3:57	SFM
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	2/22/23 3:57	SFM
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	2/22/23 3:57	SFM
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	2/22/23 3:57	SFM
trans-1,2-Dichloroethylene	1.0	0.10	0.079		4.2	0.40	0.31	2	2/22/23 3:57	SFM
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	2/22/23 3:57	SFM
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	2/22/23 3:57	SFM
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	2/22/23 3:57	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	2/22/23 3:57	SFM
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	2/22/23 3:57	SFM
Ethanol	76	4.0	1.8		140	7.5	3.3	2	2/22/23 3:57	SFM
Ethyl Acetate	ND	1.0	0.51		ND	3.6	1.8	2	2/22/23 3:57	SFM
Ethylbenzene	0.44	0.10	0.058		1.9	0.43	0.25	2	2/22/23 3:57	SFM
4-Ethyltoluene	0.094	0.10	0.061	J	0.46	0.49	0.30	2	2/22/23 3:57	SFM
Heptane	0.68	0.10	0.064		2.8	0.41	0.26	2	2/22/23 3:57	SFM
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	2/22/23 3:57	SFM
Hexane	2.3	4.0	0.52	J	8.2	14	1.8	2	2/22/23 3:57	SFM
2-Hexanone (MBK)	ND	0.10	0.050		ND	0.41	0.20	2	2/22/23 3:57	SFM
Isopropanol	1.9	4.0	0.69	J	4.7	9.8	1.7	2	2/22/23 3:57	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	2/22/23 3:57	SFM
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	2/22/23 3:57	SFM
4-Methyl-2-pentanone (MIBK)	0.074	0.10	0.053	J	0.30	0.41	0.22	2	2/22/23 3:57	SFM
Naphthalene	ND	0.10	0.075		ND	0.52	0.40	2	2/22/23 3:57	SFM
Propene	ND	4.0	0.88		ND	6.9	1.5	2	2/22/23 3:57	SFM
Styrene	0.70	0.10	0.053		3.0	0.43	0.22	2	2/22/23 3:57	SFM
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	2/22/23 3:57	SFM

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: SS-DUP1
Sample ID: 23B1703-02
Sample Matrix: Sub Slab
Sampled: 2/8/2023 11:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1505
Canister Size: 6 liter
Flow Controller ID: 3659
Sample Type: 24 hr

Work Order: 23B1703
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): 0.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Sample Flags: Z-01

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.25	0.10	0.076		1.7	0.68	0.52	2	2/22/23 3:57	SFM
Tetrahydrofuran	0.25	1.0	0.16	J	0.74	2.9	0.48	2	2/22/23 3:57	SFM
Toluene	2.4	0.10	0.057		8.9	0.38	0.22	2	2/22/23 3:57	SFM
1,2,4 Trichlorobenzene	ND	0 10	0 093		ND	0 74	0 69	2	2/22/23 3 57	SFM
1,1,1-Trichloroethane	0.30	0.10	0.079		1.6	0.55	0.43	2	2/22/23 3:57	SFM
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/22/23 3:57	SFM
Trichloroethylene	0.60	0.10	0.067		3.2	0.54	0.36	2	2/22/23 3:57	SFM
Trichlorofluoromethane (Freon 11)	0.24	0.40	0.12	J	1.3	2.2	0.66	2	2/22/23 3:57	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.13	0.40	0.11	J	0.97	3.1	0.85	2	2/22/23 3:57	SFM
1,2,4-Trimethylbenzene	0.62	0.10	0.044		3.1	0.49	0.22	2	2/22/23 3:57	SFM
1,3,5-Trimethylbenzene	0.088	0.10	0.053	J	0.43	0.49	0.26	2	2/22/23 3:57	SFM
Vinyl Acetate	ND	2.0	0.54		ND	7.0	1.9	2	2/22/23 3:57	SFM
Vinyl Chloride	ND	0.10	0.090		ND	0.26	0.23	2	2/22/23 3:57	SFM
m&p-Xylene	1.1	0.20	0.11		4.7	0.87	0.49	2	2/22/23 3:57	SFM
o-Xylene	0.39	0.10	0.051		1.7	0.43	0.22	2	2/22/23 3:57	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	103	70-130		2/22/23 3:57

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: IA-3
Sample ID: 23B1703-03
Sample Matrix: Indoor air
Sampled: 2/8/2023 12:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1820
Canister Size: 6 liter
Flow Controller ID: 3659
Sample Type: 24 hr

Work Order: 23B1703
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -6.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	7.0	1.4	0.85		17	3.3	2.0	0.702	2/21/23 23:01	SFM
Benzene	1.3	0.035	0.027		4.1	0.11	0.085	0.702	2/21/23 23:01	SFM
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	2/21/23 23:01	SFM
Bromodichloromethane	ND	0 035	0 025		ND	0 24	0 16	0 702	2/21/23 23 01	SFM
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	2/21/23 23:01	SFM
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	2/21/23 23:01	SFM
1,3-Butadiene	0.11	0.035	0.029		0.24	0.078	0.065	0.702	2/21/23 23:01	SFM
2-Butanone (MEK)	0.68	1.4	0.37	J	2.0	4.1	1.1	0.702	2/21/23 23:01	SFM
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	2/21/23 23:01	SFM
Carbon Tetrachloride	0.058	0.035	0.028		0.37	0.22	0.18	0.702	2/21/23 23:01	SFM
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	2/21/23 23:01	SFM
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	2/21/23 23:01	SFM
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	2/21/23 23:01	SFM
Chloromethane	0.48	0.070	0.028		0.99	0.14	0.058	0.702	2/21/23 23:01	SFM
Cyclohexane	1.1	0.035	0.021		3.9	0.12	0.073	0.702	2/21/23 23:01	SFM
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	2/21/23 23:01	SFM
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	2/21/23 23:01	SFM
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	2/21/23 23:01	SFM
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	2/21/23 23:01	SFM
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	2/21/23 23:01	SFM
Dichlorodifluoromethane (Freon 12)	0.23	0.035	0.034		1.1	0.17	0.17	0.702	2/21/23 23:01	SFM
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	2/21/23 23:01	SFM
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	2/21/23 23:01	SFM
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	2/21/23 23:01	SFM
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	2/21/23 23:01	SFM
trans-1,2-Dichloroethylene	1.3	0.035	0.028		5.0	0.14	0.11	0.702	2/21/23 23:01	SFM
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	2/21/23 23:01	SFM
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/21/23 23:01	SFM
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/21/23 23:01	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	2/21/23 23:01	SFM
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	2/21/23 23:01	SFM
Ethanol	81	8.0	3.5		150	15	6.6	4	2/22/23 18:41	SFM
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.702	2/21/23 23:01	SFM
Ethylbenzene	0.61	0.035	0.020		2.7	0.15	0.089	0.702	2/21/23 23:01	SFM
4-Ethyltoluene	0.14	0.035	0.022		0.67	0.17	0.11	0.702	2/21/23 23:01	SFM
Heptane	0.87	0.035	0.022		3.5	0.14	0.092	0.702	2/21/23 23:01	SFM
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	2/21/23 23:01	SFM
Hexane	3.1	1.4	0.18		11	4.9	0.64	0.702	2/21/23 23:01	SFM
2-Hexanone (MBK)	0.15	0.035	0.018		0.61	0.14	0.072	0.702	2/21/23 23:01	SFM
Isopropanol	0.88	1.4	0.24	J	2.2	3.4	0.60	0.702	2/21/23 23:01	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	2/21/23 23:01	SFM
Methylene Chloride	0.19	0.35	0.16	J	0.66	1.2	0.57	0.702	2/21/23 23:01	SFM
4-Methyl-2-pentanone (MIBK)	0.072	0.035	0.019		0.30	0.14	0.077	0.702	2/21/23 23:01	SFM
Naphthalene	0.053	0.035	0.026		0.28	0.18	0.14	0.702	2/21/23 23:01	SFM
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	2/21/23 23:01	SFM
Styrene	1.3	0.035	0.018		5.7	0.15	0.079	0.702	2/21/23 23:01	SFM
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	2/21/23 23:01	SFM

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: IA-3
Sample ID: 23B1703-03
Sample Matrix: Indoor air
Sampled: 2/8/2023 12:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1820
Canister Size: 6 liter
Flow Controller ID: 3659
Sample Type: 24 hr

Work Order: 23B1703
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -6.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.12	0.035	0.027		0.84	0.24	0.18	0.702	2/21/23 23:01	SFM
Tetrahydrofuran	0.065	0.35	0.058	J	0.19	1.0	0.17	0.702	2/21/23 23:01	SFM
Toluene	2.8	0.035	0.020		10	0.13	0.076	0.702	2/21/23 23:01	SFM
1,2,4 Trichlorobenzene	ND	0 035	0 033		ND	0 26	0 24	0 702	2/21/23 23 01	SFM
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	2/21/23 23:01	SFM
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	2/21/23 23:01	SFM
Trichloroethylene	0.57	0.035	0.024		3.1	0.19	0.13	0.702	2/21/23 23:01	SFM
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.041		1.3	0.79	0.23	0.702	2/21/23 23:01	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.062	0.14	0.039	J	0.47	1.1	0.30	0.702	2/21/23 23:01	SFM
1,2,4-Trimethylbenzene	0.43	0.035	0.016		2.1	0.17	0.076	0.702	2/21/23 23:01	SFM
1,3,5-Trimethylbenzene	0.12	0.035	0.019		0.61	0.17	0.091	0.702	2/21/23 23:01	SFM
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.702	2/21/23 23:01	SFM
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	2/21/23 23:01	SFM
m&p-Xylene	1.4	0.070	0.039		5.9	0.30	0.17	0.702	2/21/23 23:01	SFM
o-Xylene	0.49	0.035	0.018		2.1	0.15	0.078	0.702	2/21/23 23:01	SFM

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	106	70-130	2/21/23 23:01
4-Bromofluorobenzene (1)	105	70-130	2/22/23 18:41

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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
23B1703-01 [SS-3]	B332700	1.5	1	N/A	1000	400	300	02/21/23
23B1703-02 [SS-DUP1]	B332700	1.5	1	N/A	1000	400	300	02/21/23
23B1703-03 [IA-3]	B332700	1.5	1	N/A	1000	400	855	02/21/23

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
23B1703 03RE1 [IA 3]	B332729	1 5	1	N/A	1000	400	150	02/22/23

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

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 - TO-15 Prep											
Blank (B332700-BLK1)					Prepared & Analyzed: 02/21/23						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.35									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	0.55	1.4									J
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									
Propene	ND	1.4									
Styrene	ND	0.035									

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Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 TO 15 Prep											
Blank (B332700-BLK1)					Prepared & Analyzed: 02/21/23						
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0 35									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.42*				*8.00*		*105*	*70-130*			
LCS (B332700-BS1)					Prepared & Analyzed: 02/21/23						
Acetone	5.47				5.00		109	70-130			
Benzene	4.87				5.00		97.4	70-130			
Benzyl chloride	5.26				5.00		105	70-130			
Bromodichloromethane	4.85				5.00		97.0	70-130			
Bromoform	4.87				5.00		97.5	70-130			
Bromomethane	5.42				5.00		108	70-130			
1,3-Butadiene	5.28				5.00		106	70-130			
2-Butanone (MEK)	4.82				5.00		96.5	70-130			
Carbon Disulfide	5.14				5.00		103	70-130			
Carbon Tetrachloride	4.88				5.00		97.7	70-130			
Chlorobenzene	4.66				5.00		93.3	70-130			
Chloroethane	5.72				5.00		114	70-130			
Chloroform	5.24				5.00		105	70-130			
Chloromethane	4.88				5.00		97.7	70-130			
Cyclohexane	4.93				5.00		98.6	70-130			
Dibromochloromethane	4.91				5.00		98.2	70-130			
1,2-Dibromoethane (EDB)	4.76				5.00		95.2	70-130			
1,2-Dichlorobenzene	4.89				5.00		97.8	70-130			
1,3-Dichlorobenzene	5.02				5.00		100	70-130			
1,4-Dichlorobenzene	5.06				5.00		101	70-130			
Dichlorodifluoromethane (Freon 12)	5.48				5.00		110	70-130			
1,1-Dichloroethane	5.17				5.00		103	70-130			
1,2-Dichloroethane	5.50				5.00		110	70-130			
1,1-Dichloroethylene	5.45				5.00		109	70-130			
cis-1,2-Dichloroethylene	5.18				5.00		104	70-130			
trans-1,2-Dichloroethylene	5.15				5.00		103	70-130			
1,2-Dichloropropane	4.72				5.00		94.3	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 TO 15 Prep											
LCS (B332700-BS1)					Prepared & Analyzed: 02/21/23						
cis-1,3-Dichloropropene	4.86				5.00		97.2	70-130			
trans-1,3-Dichloropropene	5.05				5.00		101	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5 22				5 00		104	70 130			
1,4-Dioxane	4.78				5.00		95.6	70-130			
Ethanol	4 60				5 00		92.0	70 130			
Ethyl Acetate	5.16				5.00		103	70-130			
Ethylbenzene	4.94				5.00		98.8	70-130			
4-Ethyltoluene	5.25				5.00		105	70-130			
Heptane	4.73				5.00		94.5	70-130			
Hexachlorobutadiene	4.36				5.00		87.2	70-130			
Hexane	5.35				5.00		107	70-130			
2-Hexanone (MBK)	4.58				5.00		91.7	70-130			
Isopropanol	4.67				5.00		93.5	70-130			
Methyl tert-Butyl Ether (MTBE)	5.21				5.00		104	70-130			
Methylene Chloride	4.36				5.00		87.2	70-130			
4-Methyl-2-pentanone (MIBK)	4.55				5.00		91.0	70-130			
Naphthalene	5.03				5.00		101	70-130			
Propene	4.39				5.00		87.8	70-130			
Styrene	5.20				5.00		104	70-130			
1,1,2,2-Tetrachloroethane	4.64				5.00		92.8	70-130			
Tetrachloroethylene	4.74				5.00		94.8	70-130			
Tetrahydrofuran	5.35				5.00		107	70-130			
Toluene	4.88				5.00		97.6	70-130			
1,2,4-Trichlorobenzene	4.42				5.00		88.5	70-130			
1,1,1-Trichloroethane	4.66				5.00		93.1	70-130			
1,1,2-Trichloroethane	4.67				5.00		93.4	70-130			
Trichloroethylene	4.84				5.00		96.7	70-130			
Trichlorofluoromethane (Freon 11)	5.80				5.00		116	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.03				5.00		101	70-130			
1,2,4-Trimethylbenzene	5.13				5.00		103	70-130			
1,3,5-Trimethylbenzene	5.12				5.00		102	70-130			
Vinyl Acetate	4.32				5.00		86.3	70-130			
Vinyl Chloride	5.58				5.00		112	70-130			
m&p-Xylene	10.0				10.0		100	70-130			
o-Xylene	5.09				5.00		102	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.52*				*8.00*		*107*	*70-130*			

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

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332729 TO 15 Prep											
Blank (B332729-BLK1)					Prepared & Analyzed: 02/22/23						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0 035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.35									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	0.58	1.4									J
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									
Propene	ND	1.4									
Styrene	ND	0.035									

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332729 TO 15 Prep											
Blank (B332729-BLK1)					Prepared & Analyzed: 02/22/23						
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0 35									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.42*				*8.00*		*105*	*70-130*			
LCS (B332729-BS1)					Prepared & Analyzed: 02/22/23						
Acetone	5.40				5.00		108	70-130			
Benzene	4.71				5.00		94.1	70-130			
Benzyl chloride	5.13				5.00		103	70-130			
Bromodichloromethane	4.65				5.00		93.1	70-130			
Bromoform	4.66				5.00		93.2	70-130			
Bromomethane	5.49				5.00		110	70-130			
1,3-Butadiene	5.12				5.00		102	70-130			
2-Butanone (MEK)	4.68				5.00		93.7	70-130			
Carbon Disulfide	4.99				5.00		99.9	70-130			
Carbon Tetrachloride	4.68				5.00		93.5	70-130			
Chlorobenzene	4.50				5.00		90.0	70-130			
Chloroethane	5.74				5.00		115	70-130			
Chloroform	4.97				5.00		99.4	70-130			
Chloromethane	4.72				5.00		94.3	70-130			
Cyclohexane	4.78				5.00		95.6	70-130			
Dibromochloromethane	4.72				5.00		94.4	70-130			
1,2-Dibromoethane (EDB)	4.57				5.00		91.4	70-130			
1,2-Dichlorobenzene	4.68				5.00		93.6	70-130			
1,3-Dichlorobenzene	4.81				5.00		96.3	70-130			
1,4-Dichlorobenzene	4.81				5.00		96.2	70-130			
Dichlorodifluoromethane (Freon 12)	5.12				5.00		102	70-130			
1,1-Dichloroethane	4.99				5.00		99.8	70-130			
1,2-Dichloroethane	5.16				5.00		103	70-130			
1,1-Dichloroethylene	5.18				5.00		104	70-130			
cis-1,2-Dichloroethylene	4.90				5.00		98.1	70-130			
trans-1,2-Dichloroethylene	4.90				5.00		98.0	70-130			
1,2-Dichloropropane	4.65				5.00		93.1	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332729 TO 15 Prep											
LCS (B332729-BS1)					Prepared & Analyzed: 02/22/23						
cis-1,3-Dichloropropene	4.72				5.00		94.3	70-130			
trans-1,3-Dichloropropene	4.81				5.00		96.2	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5 10				5 00		102	70 130			
1,4-Dioxane	4.37				5.00		87.4	70-130			
Ethanol	4 46				5 00		89.3	70 130			
Ethyl Acetate	4.94				5.00		98.9	70-130			
Ethylbenzene	4.73				5.00		94.6	70-130			
4-Ethyltoluene	5.02				5.00		100	70-130			
Heptane	4.69				5.00		93.8	70-130			
Hexachlorobutadiene	4.13				5.00		82.5	70-130			
Hexane	5.16				5.00		103	70-130			
2-Hexanone (MBK)	4.49				5.00		89.8	70-130			
Isopropanol	4.58				5.00		91.6	70-130			
Methyl tert-Butyl Ether (MTBE)	5.00				5.00		100	70-130			
Methylene Chloride	4.21				5.00		84.2	70-130			
4-Methyl-2-pentanone (MIBK)	4.51				5.00		90.2	70-130			
Naphthalene	4.76				5.00		95.2	70-130			
Propene	4.40				5.00		88.1	70-130			
Styrene	4.92				5.00		98.3	70-130			
1,1,2,2-Tetrachloroethane	4.53				5.00		90.7	70-130			
Tetrachloroethylene	4.52				5.00		90.3	70-130			
Tetrahydrofuran	5.12				5.00		102	70-130			
Toluene	4.66				5.00		93.2	70-130			
1,2,4-Trichlorobenzene	4.16				5.00		83.2	70-130			
1,1,1-Trichloroethane	4.46				5.00		89.2	70-130			
1,1,2-Trichloroethane	4.54				5.00		90.7	70-130			
Trichloroethylene	4.60				5.00		91.9	70-130			
Trichlorofluoromethane (Freon 11)	5.69				5.00		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.83				5.00		96.6	70-130			
1,2,4-Trimethylbenzene	4.92				5.00		98.3	70-130			
1,3,5-Trimethylbenzene	4.91				5.00		98.2	70-130			
Vinyl Acetate	4.20				5.00		84.1	70-130			
Vinyl Chloride	5.40				5.00		108	70-130			
m&p-Xylene	9.62				10.0		96.2	70-130			
o-Xylene	4.88				5.00		97.6	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.40*				*8.00*		*105*	*70-130*			

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

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).
Z-01	Sample had a final vacuum of zero. Flow controllers have been verified to be okay, RPD was <20%

ANALYST

TPH	Thomas P. Hnitecki
SFM	Sandra F Mateega
STATION	Report Queue Station
RJM	Raymond J. McCarthy
CMR	Catherine M. Rouleau
BRF	Brittany R. Fisk

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S076501-ICV1)			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1141026	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2751702	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2471195	14.446	100	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 (S083823-CCV1)			Lab File ID: G23A052004.D			Analyzed: 02/21/23 12:28			
Bromochloromethane (1)	1120883	8.301	1120883	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2908417	10.075	2908417	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2701966	14.44	2701966	14.44	100	60 - 140	0.0000	+/-0.50	
LCS (B332700-BS1)			Lab File ID: G23A052005.D			Analyzed: 02/21/23 13:07			
Bromochloromethane (1)	1123941	8.3	1120883	8.301	100	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	2900522	10.075	2908417	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2694856	14.44	2701966	14.44	100	60 - 140	0.0000	+/-0.50	
Blank (B332700-BLK1)			Lab File ID: G23A052008.D			Analyzed: 02/21/23 15:13			
Bromochloromethane (1)	1121653	8.301	1120883	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2978892	10.075	2908417	10.075	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2784598	14.44	2701966	14.44	103	60 - 140	0.0000	+/-0.50	
IA-3 (23B1703-03)			Lab File ID: G23A052018.D			Analyzed: 02/21/23 23:01			
Bromochloromethane (1)	1213232	8 301	1120883	8 301	108	60 140	0 0000	+/ 0 50	
1,4-Difluorobenzene (1)	3179946	10.069	2908417	10.075	109	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2959930	14.434	2701966	14.44	110	60 - 140	-0.0060	+/-0.50	
SS-3 (23B1703-01)			Lab File ID: G23A052024.D			Analyzed: 02/22/23 03:16			
Bromochloromethane (1)	1327067	8.301	1120883	8.301	118	60 - 140	0.0000	+/-0.50	
1,4 Difluorobenzene (1)	3501685	10 075	2908417	10 075	120	60 140	0 0000	+/ 0 50	
Chlorobenzene-d5 (1)	3273536	14.44	2701966	14.44	121	60 - 140	0.0000	+/-0.50	
SS-DUP1 (23B1703-02)			Lab File ID: G23A052025.D			Analyzed: 02/22/23 03:57			
Bromochloromethane (1)	1237337	8.301	1120883	8.301	110	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3174077	10.075	2908417	10.075	109	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2981457	14.44	2701966	14.44	110	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

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S083836-CCV1)			Lab File ID: G23A053004.D			Analyzed: 02/22/23 13:57			
Bromochloromethane (1)	1131252	8.301	1131252	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2885573	10.075	2885573	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2686987	14.44	2686987	14.44	100	60 - 140	0.0000	+/-0.50	
LCS (B332729-BS1)			Lab File ID: G23A053005.D			Analyzed: 02/22/23 14:36			
Bromochloromethane (1)	1120256	8.301	1131252	8.301	99	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2853569	10.075	2885573	10.075	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2650494	14.44	2686987	14.44	99	60 - 140	0.0000	+/-0.50	
Blank (B332729-BLK1)			Lab File ID: G23A053010.D			Analyzed: 02/22/23 18:02			
Bromochloromethane (1)	1129557	8.307	1131252	8.301	100	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2965701	10.075	2885573	10.075	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2756567	14.44	2686987	14.44	103	60 - 140	0.0000	+/-0.50	
IA-3 (23B1703-03RE1)			Lab File ID: G23A053011.D			Analyzed: 02/22/23 18:41			
Bromochloromethane (1)	1110699	8.307	1131252	8.301	98	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2856817	10.075	2885573	10.075	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2671114	14.44	2686987	14.44	99	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083823-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.76	1.084004	1.249451		15.3	30
Benzene	A	5.00	4.95	0.9129288	0.9040118		-1.0	30
Benzyl chloride	A	5.00	5.49	1.030942	1.132795		9.9	30
Bromodichloromethane	A	5.00	4.99	0.6953811	0.6944226		-0.1	30
Bromoform	A	5.00	5.11	0.5656468	0.5779709		2.2	30
Bromomethane	A	5.00	5.80	0.6009459	0.69763		16.1	30
1,3-Butadiene	A	5.00	5.61	0.5443004	0.6109555		12.2	30
2-Butanone (MEK)	A	5.00	4.92	1.507683	1.482401		-1.7	30
Carbon Disulfide	A	5.00	5.08	2.02748	2.05977		1.6	30
Carbon Tetrachloride	A	5.00	5.06	0.5479998	0.5543524		1.2	30
Chlorobenzene	A	5.00	4.83	0.8809329	0.8505623		-3.4	30
Chloroethane	A	5.00	5.90	0.3452967	0.407189		17.9	30
Chloroform	A	5.00	5.28	1.561184	1.647996		5.6	30
Chloromethane	A	5.00	5.16	0.6821899	0.7042391		3.2	30
Cyclohexane	A	5.00	5.12	0.3600845	0.3684704		2.3	30
Dibromochloromethane	A	5.00	5.09	0.6396581	0.6515576		1.9	30
1,2-Dibromoethane (EDB)	A	5.00	4.96	0.6171207	0.6127349		-0.7	30
1,2-Dichlorobenzene	A	5.00	5.08	0.6937094	0.7054608		1.7	30
1,3-Dichlorobenzene	A	5.00	5.24	0.7409581	0.7766191		4.8	30
1,4-Dichlorobenzene	A	5.00	5.25	0.7218155	0.7577215		5.0	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.53	1.62808	1.799438		10.5	30
1,1-Dichloroethane	A	5.00	5.18	1.342742	1.391539		3.6	30
1,2-Dichloroethane	A	5.00	5.52	0.9627523	1.061936		10.3	30
1,1-Dichloroethylene	A	5.00	5.42	1.140142	1.23549		8.4	30
cis-1,2-Dichloroethylene	A	5.00	5.27	0.9670963	1.018907		5.4	30
trans-1,2-Dichloroethylene	A	5.00	5.22	1.001825	1.045135		4.3	30
1,2-Dichloropropane	A	5.00	4.79	0.3567989	0.3421303		-4.1	30
cis-1,3-Dichloropropene	A	5.00	5.11	0.5092852	0.5207385		2.2	30
trans-1,3-Dichloropropene	A	5.00	5.12	0.4570981	0.4679626		2.4	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.82	1.73998	2.024835		16.4	30
1,4-Dioxane	A	5.00	4.88	0.1857641	0.1811036		-2.5	30
Ethanol	A	5.00	4.69	0.2343264	0.2198196		-6.2	30
Ethyl Acetate	A	5.00	5.56	0.2308163	0.2568075		11.3	30
Ethylbenzene	A	5.00	5.16	1.455024	1.499995		3.1	30
4-Ethyltoluene	A	5.00	5.47	1.413771	1.547917		9.5	30
Heptane	A	5.00	4.91	0.2850308	0.2796485		-1.9	30
Hexachlorobutadiene	A	5.00	4.72	0.4677459	0.441464		-5.6	30
Hexane	A	5.00	5.44	0.8985394	0.918336		8.8	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083823-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.75	0.7712864	0.7321904		-5.1	30
Isopropanol	A	5.00	5.69	1.338902	1.523632		13.8	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.50	1.834723	2.018543		10.0	30
Methylene Chloride	A	5.00	4.41	0.9597215	0.8471121		-11.7	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.73	0.7726854	0.7311733		-5.4	30
Naphthalene	A	5.00	5.19	1.092246	1.133455		3.8	30
Propene	A	5.00	4.71	0.5941328	0.5595346		-5.8	30
Styrene	A	5.00	5.45	0.7890752	0.860134		9.0	30
1,1,2,2-Tetrachloroethane	A	5.00	4.85	0.9851261	0.954727		-3.1	30
Tetrachloroethylene	A	5.00	4.90	0.457194	0.4481791		-2.0	30
Tetrahydrofuran	A	5.00	5.34	0.2957092	0.3160594		6.9	30
Toluene	A	5.00	4.97	1.15399	1.146133		-0.7	30
1,2,4-Trichlorobenzene	A	5.00	4.73	0.4973623	0.4708115		-5.3	30
1,1,1-Trichloroethane	A	5.00	4.94	0.5975698	0.590663		-1.2	30
1,1,2-Trichloroethane	A	5.00	4.78	0.4162703	0.3978857		-4.4	30
Trichloroethylene	A	5.00	4.87	0.3947958	0.3847712		-2.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	6.07	1.463327	1.776138		21.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	5.18	1.432547	1.48524		3.7	30
1,2,4-Trimethylbenzene	A	5.00	5.49	1.156019	1.26957		9.8	30
1,3,5-Trimethylbenzene	A	5.00	5.44	1.190388	1.294979		8.8	30
Vinyl Acetate	A	5.00	4.30	1.986739	1.708464		-14.0	30
Vinyl Chloride	A	5.00	5.83	0.7142115	0.8333016		16.7	30
m&p-Xylene	A	10.0	10.5	1.129066	1.185614		5.0	30
o-Xylene	A	5.00	5.28	1.138955	1.201723		5.5	30

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

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083836-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.62	1.084004	1.21739		12.3	30
Benzene	A	5.00	4.86	0.9129288	0.886886		-2.9	30
Benzyl chloride	A	5.00	5.31	1.030942	1.093986		6.1	30
Bromodichloromethane	A	5.00	4.83	0.6953811	0.6719531		-3.4	30
Bromoform	A	5.00	4.87	0.5656468	0.5506051		-2.7	30
Bromomethane	A	5.00	5.72	0.6009459	0.6871254		14.3	30
1,3-Butadiene	A	5.00	5.39	0.5443004	0.5863564		7.7	30
2-Butanone (MEK)	A	5.00	4.80	1.507683	1.445769		-4.1	30
Carbon Disulfide	A	5.00	4.93	2.02748	2.00016		-1.3	30
Carbon Tetrachloride	A	5.00	4.87	0.5479998	0.5335004		-2.6	30
Chlorobenzene	A	5.00	4.67	0.8809329	0.8233573		-6.5	30
Chloroethane	A	5.00	5.74	0.3452967	0.3967088		14.9	30
Chloroform	A	5.00	5.04	1.561184	1.574475		0.9	30
Chloromethane	A	5.00	4.91	0.6821899	0.6701856		-1.8	30
Cyclohexane	A	5.00	4.94	0.3600845	0.3556157		-1.2	30
Dibromochloromethane	A	5.00	4.91	0.6396581	0.62773		-1.9	30
1,2-Dibromoethane (EDB)	A	5.00	4.76	0.6171207	0.5872225		-4.8	30
1,2-Dichlorobenzene	A	5.00	4.85	0.6937094	0.6732335		-3.0	30
1,3-Dichlorobenzene	A	5.00	5.02	0.7409581	0.7445401		0.5	30
1,4-Dichlorobenzene	A	5.00	5.03	0.7218155	0.7265309		0.7	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.22	1.62808	1.701048		4.5	30
1,1-Dichloroethane	A	5.00	5.02	1.342742	1.347505		0.4	30
1,2-Dichloroethane	A	5.00	5.21	0.9627523	1.002698		4.1	30
1,1-Dichloroethylene	A	5.00	5.23	1.140142	1.193608		4.7	30
cis-1,2-Dichloroethylene	A	5.00	5.00	0.9670963	0.9672087		0.01	30
trans-1,2-Dichloroethylene	A	5.00	4.98	1.001825	0.9973332		-0.4	30
1,2-Dichloropropane	A	5.00	4.78	0.3567989	0.341319		-4.3	30
cis-1,3-Dichloropropene	A	5.00	4.95	0.5092852	0.5044261		-1.0	30
trans-1,3-Dichloropropene	A	5.00	4.92	0.4570981	0.4500475		-1.5	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.62	1.73998	1.957361		12.5	30
1,4-Dioxane	A	5.00	4.50	0.1857641	0.1673678		-9.9	30
Ethanol	A	5.00	4.51	0.2343264	0.211532		-9.7	30
Ethyl Acetate	A	5.00	5.42	0.2308163	0.2500861		8.3	30
Ethylbenzene	A	5.00	4.95	1.455024	1.439977		-1.0	30
4-Ethyltoluene	A	5.00	5.20	1.413771	1.470621		4.0	30
Heptane	A	5.00	4.85	0.2850308	0.2764728		-3.0	30
Hexachlorobutadiene	A	5.00	4.50	0.4677459	0.4212665		-9.9	30
Hexane	A	5.00	5.28	0.8985394	0.8916846		5.7	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083836-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.67	0.7712864	0.7209729		-6.5	30
Isopropanol	A	5.00	5.53	1.338902	1.480368		10.6	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.23	1.834723	1.919323		4.6	30
Methylene Chloride	A	5.00	4.31	0.9597215	0.8264995		-13.9	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.70	0.7726854	0.7258726		-6.1	30
Naphthalene	A	5.00	4.93	1.092246	1.077577		-1.3	30
Propene	A	5.00	4.62	0.5941328	0.5491671		-7.6	30
Styrene	A	5.00	5.13	0.7890752	0.8088977		2.5	30
1,1,2,2-Tetrachloroethane	A	5.00	4.71	0.9851261	0.927437		-5.9	30
Tetrachloroethylene	A	5.00	4.68	0.457194	0.4280363		-6.4	30
Tetrahydrofuran	A	5.00	5.09	0.2957092	0.3009451		1.8	30
Toluene	A	5.00	4.80	1.15399	1.107001		-4.1	30
1,2,4-Trichlorobenzene	A	5.00	4.48	0.4973623	0.4451011		-10.5	30
1,1,1-Trichloroethane	A	5.00	4.78	0.5975698	0.5711431		-4.4	30
1,1,2-Trichloroethane	A	5.00	4.66	0.4162703	0.3882648		-6.7	30
Trichloroethylene	A	5.00	4.77	0.3947958	0.3766634		-4.6	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.96	1.463327	1.743677		19.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	4.99	1.432547	1.428434		-0.3	30
1,2,4-Trimethylbenzene	A	5.00	5.16	1.156019	1.194033		3.3	30
1,3,5-Trimethylbenzene	A	5.00	5.17	1.190388	1.231065		3.4	30
Vinyl Acetate	A	5.00	4.19	1.986739	1.665253		-16.2	30
Vinyl Chloride	A	5.00	5.55	0.7142115	0.792494		11.0	30
m&p-Xylene	A	10.0	10.0	1.129066	1.129026		-0.004	30
o-Xylene	A	5.00	5.05	1.138955	1.149516		0.9	30

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

* Values outside of QC limits

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

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

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

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com Doc #378 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

23B1703

Company Name: NYSDEC/WSP
Address: 500 Summit Lake Dr, Ste 450, Valhalla, NY 10595
Phone: 914 461 2966 (dave.morelli@wsp.com)
Project Name: Standard Gage + Coal
Project Location: 05-07, 161 Garden St, Poughkeepsie, NY
Project Number: R3MULTISVI / Contract # C100701
Project Manager: Dave Morelli
Con-Test Quote Name/Number: ——
Invoice Recipient: ——
Sampled By: IA/MD

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date: Standard TAT

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other: Level 4
CLP like Data Pkg Required: ☐
Email To: eridania.marte@wsp.com
Fax To: dave.morelli@wsp.com

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data 2/7/23 2/8/23		Duration	Flow Rate	Matrix	Volume	TO-15				–" Hg			Please fill out completely, sign, date and retain the yellow copy for your records	
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	m³/min L/min	Code	Liters m³					Initial Pressure	Final Pressure	Lab Receipt Pressure	Summa Can ID	Flow Controller ID
01	SS-3	12:45	11:30	<22.75		SS	6	X				30	0	10.7	1986	3654 DUP
02	SS-DUP1	12:45	11:30	<22.75		SSD		X				30	0	10.8	1505	3659 DUP
03	IA-3	12:45	12:45	24		IA	1	X				29.5	7	6.8	1820	3522

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

	Date/Time:
Relinquished by: (signature)	2/10/23
Received by: (signature)	Date/Time: 2-13-23 1305
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

FedEx® Tracking

DELIVERED

Monday

2/13/2023 at 1:05 pm

Signed for by: HHENRIQUEZ

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Shipment is 1 of 10 pieces

TRACKING ID

771259310443

FROM
NYDEC_WSP
Ian Arturo
500 Summit Lake Drive Suite 450
VALHALLA, NY US 10595
9148010180

Label Created
2/9/2023 10:29 AM

PACKAGE RECEIVED BY FEDEX
BLAUVELT, NY
2/10/2023 6:01 PM

IN TRANSIT
WINDSOR, CT
2/13/2023 5:07 AM

OUT FOR DELIVERY
WINDSOR, CT
2/13/2023 5:23 AM

DELIVERED
Air Lab
Pace Analytical
39 SPRUCE ST
East Longmeadow, MA US 01028
4135252332

Delivered
2/13/2023 at 1:05 PM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

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

Log In Back-Sheet

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

Pace PEOPLE ADVANCING SCIEN

Client NYSDEC/NSP
Project Standard Gage + Coal
MCP/RCP Required
Deliverable Package Requirement
Location 05-07 161 Garden St Poughkeepsie NY
PWSID# (When Applicable)
Arrival Method FedEX
Received By / Date / Time TPH 2-13-23 1309
Back-Sheet By / Date / Time TPH 2-14-23 1245
Temperature Method #
Temp ≤ 6° C ☐ Actual Temperature
Rush Samples: Yes / No Notify
Short Hold: Yes / No Notify

	True	Fals
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 ☒

Notes regarding Samples/COC outside of SOP:

Container	#	Size	Preservative	Duration	Accessories			
Summa Cans	3	6L	2	24hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector	1	Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #s					Reg #s				
1986					3659 D				
1605					DUP				
1820					3522				
Unused Media					**Pufs/TO-17's**				

Air Sampling Media Certificate of Analysis

Date Analyzed: 11/5/2022 **Batch #:** 22CC0937

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1986, BC1505

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 2/27/23

Air Sampling Media Certificate of Analysis

Date Analyzed: 11/5/2022 **Batch #:** 22CC0938

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1820

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 2/27/23

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February 27, 2023

Dave Morelli
NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595

Project Location: 05-2A,620-630 Broadway, Kingston, NY
Client Job Number:
Project Number: 2208348
Laboratory Work Order Number: 23B1704

Enclosed are results of analyses for samples as received by the laboratory on February 13, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

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

NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595
ATTN: Dave Morelli

REPORT DATE: 2/27/2023

PURCHASE ORDER NUMBER: R3MULTISVI

PROJECT NUMBER: 2208348

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23B1704

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

PROJECT LOCATION: 05-2A,620-630 Broadway, Kingston, NY

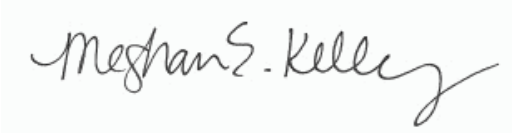
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-1	23B1704-01	Sub Slab		EPA TO-15	
IA-1	23B1704-02	Indoor air		EPA TO-15	

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CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

con-test®
A Pace Analytical® Laboratory

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: SS-1
Sample ID: 23B1704-01
Sample Matrix: Sub Slab
Sampled: 2/8/2023 10:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1218
Canister Size: 6 liter
Flow Controller ID: 3650
Sample Type: 24 hr

Work Order: 23B1704
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -7.5
Receipt Vacuum(in Hg): -6.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: >20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	30	4.0	2.4		72	9.5	5.7	2	2/22/23 4:39	SFM
Benzene	0.14	0.10	0.076		0.43	0.32	0.24	2	2/22/23 4:39	SFM
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	2/22/23 4:39	SFM
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	2/22/23 4:39	SFM
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	2/22/23 4:39	SFM
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	2/22/23 4:39	SFM
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	2/22/23 4:39	SFM
2-Butanone (MEK)	2.8	4.0	1.1	J	8.3	12	3.1	2	2/22/23 4:39	SFM
Carbon Disulfide	ND	1.0	0.092		ND	3.1	0.29	2	2/22/23 4:39	SFM
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	2/22/23 4:39	SFM
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	2/22/23 4:39	SFM
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	2/22/23 4:39	SFM
Chloroform	0.92	0.10	0.095		4.5	0.49	0.46	2	2/22/23 4:39	SFM
Chloromethane	0.28	0.20	0.079		0.57	0.41	0.16	2	2/22/23 4:39	SFM
Cyclohexane	ND	0.10	0.060		ND	0.34	0.21	2	2/22/23 4:39	SFM
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	2/22/23 4:39	SFM
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	2/22/23 4:39	SFM
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	2/22/23 4:39	SFM
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	2/22/23 4:39	SFM
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	2/22/23 4:39	SFM
Dichlorodifluoromethane (Freon 12)	0.32	0.10	0.098		1.6	0.49	0.48	2	2/22/23 4:39	SFM
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	2/22/23 4:39	SFM
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	2/22/23 4:39	SFM
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	2/22/23 4:39	SFM
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	2/22/23 4:39	SFM
trans-1,2-Dichloroethylene	ND	0.10	0.079		ND	0.40	0.31	2	2/22/23 4:39	SFM
1,2-Dichloropropane	0.11	0.10	0.054		0.53	0.46	0.25	2	2/22/23 4:39	SFM
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	2/22/23 4:39	SFM
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	2/22/23 4:39	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	2/22/23 4:39	SFM
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	2/22/23 4:39	SFM
Ethanol	22	4.0	1.8		41	7.5	3.3	2	2/22/23 4:39	SFM
Ethyl Acetate	ND	1.0	0.51		ND	3.6	1.8	2	2/22/23 4:39	SFM
Ethylbenzene	0.20	0.10	0.058		0.89	0.43	0.25	2	2/22/23 4:39	SFM
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	2/22/23 4:39	SFM
Heptane	ND	0.10	0.064		ND	0.41	0.26	2	2/22/23 4:39	SFM
Hexachlorobutadiene	ND	0.10	0.082		ND	1.1	0.88	2	2/22/23 4:39	SFM
Hexane	ND	4.0	0.52		ND	14	1.8	2	2/22/23 4:39	SFM
2-Hexanone (MBK)	0.12	0.10	0.050		0.48	0.41	0.20	2	2/22/23 4:39	SFM
Isopropanol	0.92	4.0	0.69	J	2.3	9.8	1.7	2	2/22/23 4:39	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	2/22/23 4:39	SFM
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	2/22/23 4:39	SFM
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	2/22/23 4:39	SFM
Naphthalene	ND	0.10	0.075		ND	0.52	0.40	2	2/22/23 4:39	SFM
Propene	ND	4.0	0.88		ND	6.9	1.5	2	2/22/23 4:39	SFM
Styrene	ND	0.10	0.053		ND	0.43	0.22	2	2/22/23 4:39	SFM
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	2/22/23 4:39	SFM

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: SS-1
Sample ID: 23B1704-01
Sample Matrix: Sub Slab
Sampled: 2/8/2023 10:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1218
Canister Size: 6 liter
Flow Controller ID: 3650
Sample Type: 24 hr

Work Order: 23B1704
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -7.5
Receipt Vacuum(in Hg): -6.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: >20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	ND	0.10	0.076		ND	0.68	0.52	2	2/22/23 4:39	SFM
Tetrahydrofuran	0.20	1.0	0.16	J	0.58	2.9	0.48	2	2/22/23 4:39	SFM
Toluene	1.1	0.10	0.057		4.0	0.38	0.22	2	2/22/23 4:39	SFM
1,2,4 Trichlorobenzene	ND	0 10	0 093		ND	0 74	0 69	2	2/22/23 4 39	SFM
1,1,1-Trichloroethane	ND	0.10	0.079		ND	0.55	0.43	2	2/22/23 4:39	SFM
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	2/22/23 4:39	SFM
Trichloroethylene	ND	0.10	0.067		ND	0.54	0.36	2	2/22/23 4:39	SFM
Trichlorofluoromethane (Freon 11)	0.22	0.40	0.12	J	1.2	2.2	0.66	2	2/22/23 4:39	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	2/22/23 4:39	SFM
1,2,4-Trimethylbenzene	ND	0.10	0.044		ND	0.49	0.22	2	2/22/23 4:39	SFM
1,3,5-Trimethylbenzene	ND	0.10	0.053		ND	0.49	0.26	2	2/22/23 4:39	SFM
Vinyl Acetate	ND	2.0	0.54		ND	7.0	1.9	2	2/22/23 4:39	SFM
Vinyl Chloride	ND	0.10	0.090		ND	0.26	0.23	2	2/22/23 4:39	SFM
m&p-Xylene	0.48	0.20	0.11		2.1	0.87	0.49	2	2/22/23 4:39	SFM
o-Xylene	0.27	0.10	0.051		1.2	0.43	0.22	2	2/22/23 4:39	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	104	70-130		2/22/23 4:39

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: IA-1
Sample ID: 23B1704-02
Sample Matrix: Indoor air
Sampled: 2/8/2023 10:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1324
Canister Size: 6 liter
Flow Controller ID: 3524
Sample Type: 24 hr

Work Order: 23B1704
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -6.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	5.2	1.4	0.85		12	3.3	2.0	0.702	2/21/23 23:48	SFM
Benzene	0.25	0.035	0.027		0.81	0.11	0.085	0.702	2/21/23 23:48	SFM
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	2/21/23 23:48	SFM
Bromodichloromethane	ND	0 035	0 025		ND	0 24	0 16	0 702	2/21/23 23 48	SFM
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	2/21/23 23:48	SFM
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	2/21/23 23:48	SFM
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	2/21/23 23:48	SFM
2-Butanone (MEK)	0.60	1.4	0.37	J	1.8	4.1	1.1	0.702	2/21/23 23:48	SFM
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	2/21/23 23:48	SFM
Carbon Tetrachloride	0.059	0.035	0.028		0.37	0.22	0.18	0.702	2/21/23 23:48	SFM
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	2/21/23 23:48	SFM
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	2/21/23 23:48	SFM
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	2/21/23 23:48	SFM
Chloromethane	0.42	0.070	0.028		0.88	0.14	0.058	0.702	2/21/23 23:48	SFM
Cyclohexane	0.086	0.035	0.021		0.30	0.12	0.073	0.702	2/21/23 23:48	SFM
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	2/21/23 23:48	SFM
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	2/21/23 23:48	SFM
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	2/21/23 23:48	SFM
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	2/21/23 23:48	SFM
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	2/21/23 23:48	SFM
Dichlorodifluoromethane (Freon 12)	0.25	0.035	0.034		1.2	0.17	0.17	0.702	2/21/23 23:48	SFM
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	2/21/23 23:48	SFM
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	2/21/23 23:48	SFM
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	2/21/23 23:48	SFM
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	2/21/23 23:48	SFM
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	2/21/23 23:48	SFM
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	2/21/23 23:48	SFM
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/21/23 23:48	SFM
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/21/23 23:48	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	2/21/23 23:48	SFM
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	2/21/23 23:48	SFM
Ethanol	7.0	1.4	0.62		13	2.6	1.2	0.702	2/21/23 23:48	SFM
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.702	2/21/23 23:48	SFM
Ethylbenzene	0.067	0.035	0.020		0.29	0.15	0.089	0.702	2/21/23 23:48	SFM
4-Ethyltoluene	0.024	0.035	0.022	J	0.12	0.17	0.11	0.702	2/21/23 23:48	SFM
Heptane	0.10	0.035	0.022		0.41	0.14	0.092	0.702	2/21/23 23:48	SFM
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	2/21/23 23:48	SFM
Hexane	0.21	1.4	0.18	J	0.74	4.9	0.64	0.702	2/21/23 23:48	SFM
2-Hexanone (MBK)	0.088	0.035	0.018		0.36	0.14	0.072	0.702	2/21/23 23:48	SFM
Isopropanol	0.51	1.4	0.24	J	1.3	3.4	0.60	0.702	2/21/23 23:48	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	2/21/23 23:48	SFM
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.57	0.702	2/21/23 23:48	SFM
4-Methyl-2-pentanone (MIBK)	0.036	0.035	0.019		0.15	0.14	0.077	0.702	2/21/23 23:48	SFM
Naphthalene	3.3	0.035	0.026		17	0.18	0.14	0.702	2/21/23 23:48	SFM
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	2/21/23 23:48	SFM
Styrene	0.027	0.035	0.018	J	0.11	0.15	0.079	0.702	2/21/23 23:48	SFM
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	2/21/23 23:48	SFM

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: IA-1
Sample ID: 23B1704-02
Sample Matrix: Indoor air
Sampled: 2/8/2023 10:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1324
Canister Size: 6 liter
Flow Controller ID: 3524
Sample Type: 24 hr

Work Order: 23B1704
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -6.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.047	0.035	0.027		0.32	0.24	0.18	0.702	2/21/23 23:48	SFM
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	2/21/23 23:48	SFM
Toluene	0.45	0.035	0.020		1.7	0.13	0.076	0.702	2/21/23 23:48	SFM
1,2,4 Trichlorobenzene	ND	0 035	0 033		ND	0 26	0 24	0 702	2/21/23 23 48	SFM
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	2/21/23 23:48	SFM
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	2/21/23 23:48	SFM
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	2/21/23 23:48	SFM
Trichlorofluoromethane (Freon 11)	0.23	0.14	0.041		1.3	0.79	0.23	0.702	2/21/23 23:48	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.063	0.14	0.039	J	0.48	1.1	0.30	0.702	2/21/23 23:48	SFM
1,2,4-Trimethylbenzene	0.083	0.035	0.016		0.41	0.17	0.076	0.702	2/21/23 23:48	SFM
1,3,5-Trimethylbenzene	0.023	0.035	0.019	J	0.11	0.17	0.091	0.702	2/21/23 23:48	SFM
Vinyl Acetate	0.26	0.70	0.19	J	0.90	2.5	0.66	0.702	2/21/23 23:48	SFM
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	2/21/23 23:48	SFM
m&p-Xylene	0.21	0.070	0.039		0.91	0.30	0.17	0.702	2/21/23 23:48	SFM
o-Xylene	0.079	0.035	0.018		0.34	0.15	0.078	0.702	2/21/23 23:48	SFM

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	2/21/23 23:48

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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
23B1704-01 [SS-1]	B332700	1.5	1	N/A	1000	400	300	02/21/23
23B1704-02 [IA-1]	B332700	1.5	1	N/A	1000	400	855	02/21/23

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 - TO-15 Prep											
Blank (B332700-BLK1)					Prepared & Analyzed: 02/21/23						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.35									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	0.55	1.4									J
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									
Propene	ND	1.4									
Styrene	ND	0.035									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 TO 15 Prep											
Blank (B332700-BLK1)					Prepared & Analyzed: 02/21/23						
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0 35									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.42*				*8.00*		*105*	*70-130*			
LCS (B332700-BS1)					Prepared & Analyzed: 02/21/23						
Acetone	5.47				5.00		109	70-130			
Benzene	4.87				5.00		97.4	70-130			
Benzyl chloride	5.26				5.00		105	70-130			
Bromodichloromethane	4.85				5.00		97.0	70-130			
Bromoform	4.87				5.00		97.5	70-130			
Bromomethane	5.42				5.00		108	70-130			
1,3-Butadiene	5.28				5.00		106	70-130			
2-Butanone (MEK)	4.82				5.00		96.5	70-130			
Carbon Disulfide	5.14				5.00		103	70-130			
Carbon Tetrachloride	4.88				5.00		97.7	70-130			
Chlorobenzene	4.66				5.00		93.3	70-130			
Chloroethane	5.72				5.00		114	70-130			
Chloroform	5.24				5.00		105	70-130			
Chloromethane	4.88				5.00		97.7	70-130			
Cyclohexane	4.93				5.00		98.6	70-130			
Dibromochloromethane	4.91				5.00		98.2	70-130			
1,2-Dibromoethane (EDB)	4.76				5.00		95.2	70-130			
1,2-Dichlorobenzene	4.89				5.00		97.8	70-130			
1,3-Dichlorobenzene	5.02				5.00		100	70-130			
1,4-Dichlorobenzene	5.06				5.00		101	70-130			
Dichlorodifluoromethane (Freon 12)	5.48				5.00		110	70-130			
1,1-Dichloroethane	5.17				5.00		103	70-130			
1,2-Dichloroethane	5.50				5.00		110	70-130			
1,1-Dichloroethylene	5.45				5.00		109	70-130			
cis-1,2-Dichloroethylene	5.18				5.00		104	70-130			
trans-1,2-Dichloroethylene	5.15				5.00		103	70-130			
1,2-Dichloropropane	4.72				5.00		94.3	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 TO 15 Prep											
LCS (B332700-BS1)					Prepared & Analyzed: 02/21/23						
cis-1,3-Dichloropropene	4.86				5.00		97.2	70-130			
trans-1,3-Dichloropropene	5.05				5.00		101	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5 22				5 00		104	70 130			
1,4-Dioxane	4.78				5.00		95.6	70-130			
Ethanol	4 60				5 00		92.0	70 130			
Ethyl Acetate	5.16				5.00		103	70-130			
Ethylbenzene	4.94				5.00		98.8	70-130			
4-Ethyltoluene	5.25				5.00		105	70-130			
Heptane	4.73				5.00		94.5	70-130			
Hexachlorobutadiene	4.36				5.00		87.2	70-130			
Hexane	5.35				5.00		107	70-130			
2-Hexanone (MBK)	4.58				5.00		91.7	70-130			
Isopropanol	4.67				5.00		93.5	70-130			
Methyl tert-Butyl Ether (MTBE)	5.21				5.00		104	70-130			
Methylene Chloride	4.36				5.00		87.2	70-130			
4-Methyl-2-pentanone (MIBK)	4.55				5.00		91.0	70-130			
Naphthalene	5.03				5.00		101	70-130			
Propene	4.39				5.00		87.8	70-130			
Styrene	5.20				5.00		104	70-130			
1,1,2,2-Tetrachloroethane	4.64				5.00		92.8	70-130			
Tetrachloroethylene	4.74				5.00		94.8	70-130			
Tetrahydrofuran	5.35				5.00		107	70-130			
Toluene	4.88				5.00		97.6	70-130			
1,2,4-Trichlorobenzene	4.42				5.00		88.5	70-130			
1,1,1-Trichloroethane	4.66				5.00		93.1	70-130			
1,1,2-Trichloroethane	4.67				5.00		93.4	70-130			
Trichloroethylene	4.84				5.00		96.7	70-130			
Trichlorofluoromethane (Freon 11)	5.80				5.00		116	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.03				5.00		101	70-130			
1,2,4-Trimethylbenzene	5.13				5.00		103	70-130			
1,3,5-Trimethylbenzene	5.12				5.00		102	70-130			
Vinyl Acetate	4.32				5.00		86.3	70-130			
Vinyl Chloride	5.58				5.00		112	70-130			
m&p-Xylene	10.0				10.0		100	70-130			
o-Xylene	5.09				5.00		102	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.52*				*8.00*		*107*	*70-130*			

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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).

ANALYST

TPH	Thomas P. Hnitecki
SFM	Sandra F Mateega
STATION	Report Queue Station
RJM	Raymond J. McCarthy
CMR	Catherine M. Rouleau
BRF	Brittany R. Fisk

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S076501-ICV1)			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1141026	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2751702	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2471195	14.446	100	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 (S083823-CCV1)			Lab File ID: G23A052004.D			Analyzed: 02/21/23 12:28			
Bromochloromethane (1)	1120883	8.301	1120883	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2908417	10.075	2908417	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2701966	14.44	2701966	14.44	100	60 - 140	0.0000	+/-0.50	
LCS (B332700-BS1)			Lab File ID: G23A052005.D			Analyzed: 02/21/23 13:07			
Bromochloromethane (1)	1123941	8.3	1120883	8.301	100	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	2900522	10.075	2908417	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2694856	14.44	2701966	14.44	100	60 - 140	0.0000	+/-0.50	
Blank (B332700-BLK1)			Lab File ID: G23A052008.D			Analyzed: 02/21/23 15:13			
Bromochloromethane (1)	1121653	8.301	1120883	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2978892	10.075	2908417	10.075	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2784598	14.44	2701966	14.44	103	60 - 140	0.0000	+/-0.50	
IA-1 (23B1704-02)			Lab File ID: G23A052019.D			Analyzed: 02/21/23 23:48			
Bromochloromethane (1)	1175177	8 301	1120883	8 301	105	60 140	0 0000	+/ 0 50	
1,4-Difluorobenzene (1)	3103158	10.075	2908417	10.075	107	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2874247	14.44	2701966	14.44	106	60 - 140	0.0000	+/-0.50	
SS-1 (23B1704-01)			Lab File ID: G23A052026.D			Analyzed: 02/22/23 04:39			
Bromochloromethane (1)	1290632	8.301	1120883	8.301	115	60 - 140	0.0000	+/-0.50	
1,4 Difluorobenzene (1)	3477219	10 075	2908417	10 075	120	60 140	0 0000	+/ 0 50	
Chlorobenzene-d5 (1)	3361457	14.44	2701966	14.44	124	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083823-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.76	1.084004	1.249451		15.3	30
Benzene	A	5.00	4.95	0.9129288	0.9040118		-1.0	30
Benzyl chloride	A	5.00	5.49	1.030942	1.132795		9.9	30
Bromodichloromethane	A	5.00	4.99	0.6953811	0.6944226		-0.1	30
Bromoform	A	5.00	5.11	0.5656468	0.5779709		2.2	30
Bromomethane	A	5.00	5.80	0.6009459	0.69763		16.1	30
1,3-Butadiene	A	5.00	5.61	0.5443004	0.6109555		12.2	30
2-Butanone (MEK)	A	5.00	4.92	1.507683	1.482401		-1.7	30
Carbon Disulfide	A	5.00	5.08	2.02748	2.05977		1.6	30
Carbon Tetrachloride	A	5.00	5.06	0.5479998	0.5543524		1.2	30
Chlorobenzene	A	5.00	4.83	0.8809329	0.8505623		-3.4	30
Chloroethane	A	5.00	5.90	0.3452967	0.407189		17.9	30
Chloroform	A	5.00	5.28	1.561184	1.647996		5.6	30
Chloromethane	A	5.00	5.16	0.6821899	0.7042391		3.2	30
Cyclohexane	A	5.00	5.12	0.3600845	0.3684704		2.3	30
Dibromochloromethane	A	5.00	5.09	0.6396581	0.6515576		1.9	30
1,2-Dibromoethane (EDB)	A	5.00	4.96	0.6171207	0.6127349		-0.7	30
1,2-Dichlorobenzene	A	5.00	5.08	0.6937094	0.7054608		1.7	30
1,3-Dichlorobenzene	A	5.00	5.24	0.7409581	0.7766191		4.8	30
1,4-Dichlorobenzene	A	5.00	5.25	0.7218155	0.7577215		5.0	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.53	1.62808	1.799438		10.5	30
1,1-Dichloroethane	A	5.00	5.18	1.342742	1.391539		3.6	30
1,2-Dichloroethane	A	5.00	5.52	0.9627523	1.061936		10.3	30
1,1-Dichloroethylene	A	5.00	5.42	1.140142	1.23549		8.4	30
cis-1,2-Dichloroethylene	A	5.00	5.27	0.9670963	1.018907		5.4	30
trans-1,2-Dichloroethylene	A	5.00	5.22	1.001825	1.045135		4.3	30
1,2-Dichloropropane	A	5.00	4.79	0.3567989	0.3421303		-4.1	30
cis-1,3-Dichloropropene	A	5.00	5.11	0.5092852	0.5207385		2.2	30
trans-1,3-Dichloropropene	A	5.00	5.12	0.4570981	0.4679626		2.4	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.82	1.73998	2.024835		16.4	30
1,4-Dioxane	A	5.00	4.88	0.1857641	0.1811036		-2.5	30
Ethanol	A	5.00	4.69	0.2343264	0.2198196		-6.2	30
Ethyl Acetate	A	5.00	5.56	0.2308163	0.2568075		11.3	30
Ethylbenzene	A	5.00	5.16	1.455024	1.499995		3.1	30
4-Ethyltoluene	A	5.00	5.47	1.413771	1.547917		9.5	30
Heptane	A	5.00	4.91	0.2850308	0.2796485		-1.9	30
Hexachlorobutadiene	A	5.00	4.72	0.4677459	0.441464		-5.6	30
Hexane	A	5.00	5.44	0.8985394	0.918336		8.8	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083823-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.75	0.7712864	0.7321904		-5.1	30
Isopropanol	A	5.00	5.69	1.338902	1.523632		13.8	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.50	1.834723	2.018543		10.0	30
Methylene Chloride	A	5.00	4.41	0.9597215	0.8471121		-11.7	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.73	0.7726854	0.7311733		-5.4	30
Naphthalene	A	5.00	5.19	1.092246	1.133455		3.8	30
Propene	A	5.00	4.71	0.5941328	0.5595346		-5.8	30
Styrene	A	5.00	5.45	0.7890752	0.860134		9.0	30
1,1,2,2-Tetrachloroethane	A	5.00	4.85	0.9851261	0.954727		-3.1	30
Tetrachloroethylene	A	5.00	4.90	0.457194	0.4481791		-2.0	30
Tetrahydrofuran	A	5.00	5.34	0.2957092	0.3160594		6.9	30
Toluene	A	5.00	4.97	1.15399	1.146133		-0.7	30
1,2,4-Trichlorobenzene	A	5.00	4.73	0.4973623	0.4708115		-5.3	30
1,1,1-Trichloroethane	A	5.00	4.94	0.5975698	0.590663		-1.2	30
1,1,2-Trichloroethane	A	5.00	4.78	0.4162703	0.3978857		-4.4	30
Trichloroethylene	A	5.00	4.87	0.3947958	0.3847712		-2.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	6.07	1.463327	1.776138		21.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	5.18	1.432547	1.48524		3.7	30
1,2,4-Trimethylbenzene	A	5.00	5.49	1.156019	1.26957		9.8	30
1,3,5-Trimethylbenzene	A	5.00	5.44	1.190388	1.294979		8.8	30
Vinyl Acetate	A	5.00	4.30	1.986739	1.708464		-14.0	30
Vinyl Chloride	A	5.00	5.83	0.7142115	0.8333016		16.7	30
m&p-Xylene	A	10.0	10.5	1.129066	1.185614		5.0	30
o-Xylene	A	5.00	5.28	1.138955	1.201723		5.5	30

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

* Values outside of QC limits

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

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

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

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Page 1 of 1

23B1704

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

CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Company Name: NYSDEC / WSP
Address: 500 Summit Lake Dr, Ste 450, Valhalla, NY 10595
Phone: 914 612 2966 (dave.morelli@wsp.com)
Project Name: Standard Gage Coal
Project Location: OS-04, 145 Garden St, Poughkeepsie, NY
Project Number: R3MULTISVI / Contract # C100701
Project Manager: Dave Morelli
Con-Test Quote Name/Number: —
Invoice Recipient: —
Sampled By: IA/MD

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date: Standard TAT

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other: Level 4
CLP Like Data Pkg Required: ☐
Email To: eridania.marte@wsp.com
Fax To#: dave.morelli@wsp.com

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	TO-15	✓ "Hg			Please fill out completely, sign, date and retain the yellow copy for your records	
Con-Test Work Order#	Client Sample ID / Description	2/7/23 Beginning Date/Time	2/8/23 Ending Date/Time	Total Minutes Sampled	m³/min L/min	Code	Liters m³		Initial Pressure	Final Pressure	Lab Receipt Pressure	Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply	For summa canister and flow controller information please refer to Con-Test's Air Media Agreement
												Summa Can ID	Flow Controller ID
01	SS-1	10:15	10:15	24		SS	6	X	29	7.5	6.4	1218	3650
02	IA-1	10:13	10:15	24		IA	6	X	29	7	6.1	1324	3524

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

Relinquished by: (signature)	Date/Time: 2/10/23	
Received by: (signature)	Date/Time: 2-13-23 1305	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
RI
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

[redacted]

FedEx® Tracking

DELIVERED

Monday

2/13/2023 at 1:05 pm

Signed for by: HHENRIQUEZ

Obtain Proof of delivery

DELIVERY STATUS

Delivered

↓ Shipment is 1 of 10 pieces

TRACKING ID

771259310443

FROM
NYDEC_WSP
Ian Arturo
500 Summit Lake Drive Suite 450
VALHALLA, NY US 10595
9148010180

Label Created
2/9/2023 10:29 AM

PACKAGE RECEIVED BY FEDEX
BLAUVELT, NY
2/10/2023 6:01 PM

IN TRANSIT
WINDSOR, CT
2/13/2023 5:07 AM

OUT FOR DELIVERY
WINDSOR, CT
2/13/2023 5:23 AM

DELIVERED
Air Lab
Pace Analytical
39 SPRUCE ST
East Longmeadow, MA US 01028
4135252332

Delivered
2/13/2023 at 1:05 PM

↓ View travel history

Want updates on this shipment? Enter your email and we will do the rest!

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East Longmeadow, MA. 01028
P: 413-525-2332
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Log In Back-Sheet

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

Pace PEOPLE ADVANCING SCIE

Client NYSDEC/WSP

Project Standard Gage + Cog 1

MCP/RCP Required

Deliverable Package Requirement

Location 05.04, 145 Garden St Poughkeepsie NY

PWSID# (When Applicable)

Arrival Method FedEx

Received By / Date / Time TDH 2-13-23 1305

Back-Sheet By / Date / Time TDH 2-14-23 1230

Temperature Method #

Temp < 6° C ☐ Actual Temperature

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

	True	Fals
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	☒	☐

Notes regarding Samples/COC outside of SOP:

COC Included: (Check all included)

Client ☒ Analysis ☒ Sampler Name ☒

Project ☒ IDs ☒ Collection Date/Time ☒

Container	#	Size	Regulator	Duration	Accessories			
Summa Cans	2	6L	2	24hr	Nut/Ferrule	25	IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #s	Reg #s
1218	3650
1324	3524

Unused Media	Pufs/TO-17's

Air Sampling Media Certificate of Analysis

Date Analyzed: 12/1/2022 **Batch #:** 22CC1016

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1218

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	0.04	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	0.04	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	0.03	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	0.05	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 2/27/23

Air Sampling Media Certificate of Analysis

Date Analyzed: 11/16/2022 **Batch #:** 22C0978

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1324

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	0.03	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	0.08	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	0.05	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 2/27/23

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

February 27, 2023

Dave Morelli
NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595

Project Location: 05-2A,620-630 Broadway, Kingston, NY
Client Job Number:
Project Number: 2208348
Laboratory Work Order Number: 23B1705

Enclosed are results of analyses for samples as received by the laboratory on February 13, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

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

NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595
ATTN: Dave Morelli

REPORT DATE: 2/27/2023

PURCHASE ORDER NUMBER: R3MULTISVI

PROJECT NUMBER: 2208348

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23B1705

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

PROJECT LOCATION: 05-2A,620-630 Broadway, Kingston, NY

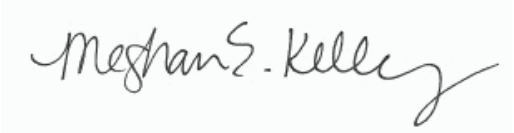
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OA-1	23B1705-01	Ambient Air		EPA TO-15	

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CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: OA-1
Sample ID: 23B1705-01
Sample Matrix: Ambient Air
Sampled: 2/8/2023 13:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1982
Canister Size: 6 liter
Flow Controller ID: 3670
Sample Type: 24 hr

Work Order: 23B1705
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -6.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	7.5	1.4	0.85		18	3.3	2.0	0.702	2/22/23 0:34	SFM
Benzene	0.33	0.035	0.027		1.1	0.11	0.085	0.702	2/22/23 0:34	SFM
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	2/22/23 0:34	SFM
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	2/22/23 0:34	SFM
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	2/22/23 0:34	SFM
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	2/22/23 0:34	SFM
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	2/22/23 0:34	SFM
2-Butanone (MEK)	0.93	1.4	0.37	J	2.7	4.1	1.1	0.702	2/22/23 0:34	SFM
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	2/22/23 0:34	SFM
Carbon Tetrachloride	0.066	0.035	0.028		0.41	0.22	0.18	0.702	2/22/23 0:34	SFM
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	2/22/23 0:34	SFM
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	2/22/23 0:34	SFM
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	2/22/23 0:34	SFM
Chloromethane	0.50	0.070	0.028		1.0	0.14	0.058	0.702	2/22/23 0:34	SFM
Cyclohexane	0.11	0.035	0.021		0.38	0.12	0.073	0.702	2/22/23 0:34	SFM
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	2/22/23 0:34	SFM
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	2/22/23 0:34	SFM
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	2/22/23 0:34	SFM
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	2/22/23 0:34	SFM
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	2/22/23 0:34	SFM
Dichlorodifluoromethane (Freon 12)	0.25	0.035	0.034		1.2	0.17	0.17	0.702	2/22/23 0:34	SFM
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	2/22/23 0:34	SFM
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	2/22/23 0:34	SFM
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	2/22/23 0:34	SFM
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	2/22/23 0:34	SFM
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	2/22/23 0:34	SFM
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	2/22/23 0:34	SFM
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/22/23 0:34	SFM
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	2/22/23 0:34	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	2/22/23 0:34	SFM
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	2/22/23 0:34	SFM
Ethanol	6.7	1.4	0.62		13	2.6	1.2	0.702	2/22/23 0:34	SFM
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.702	2/22/23 0:34	SFM
Ethylbenzene	0.10	0.035	0.020		0.44	0.15	0.089	0.702	2/22/23 0:34	SFM
4-Ethyltoluene	0.027	0.035	0.022	J	0.13	0.17	0.11	0.702	2/22/23 0:34	SFM
Heptane	0.13	0.035	0.022		0.52	0.14	0.092	0.702	2/22/23 0:34	SFM
Hexachlorobutadiene	ND	0.035	0.029		ND	0.37	0.31	0.702	2/22/23 0:34	SFM
Hexane	0.28	1.4	0.18	J	0.97	4.9	0.64	0.702	2/22/23 0:34	SFM
2-Hexanone (MBK)	0.12	0.035	0.018		0.48	0.14	0.072	0.702	2/22/23 0:34	SFM
Isopropanol	0.61	1.4	0.24	J	1.5	3.4	0.60	0.702	2/22/23 0:34	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	2/22/23 0:34	SFM
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.57	0.702	2/22/23 0:34	SFM
4-Methyl-2-pentanone (MIBK)	0.060	0.035	0.019		0.24	0.14	0.077	0.702	2/22/23 0:34	SFM
Naphthalene	0.063	0.035	0.026		0.33	0.18	0.14	0.702	2/22/23 0:34	SFM
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	2/22/23 0:34	SFM
Styrene	0.020	0.035	0.018	J	0.084	0.15	0.079	0.702	2/22/23 0:34	SFM
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	2/22/23 0:34	SFM

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ANALYTICAL RESULTS

Project Location: 05-2A,620-630 Broadway, Kings
Date Received: 2/13/2023
Field Sample #: OA-1
Sample ID: 23B1705-01
Sample Matrix: Ambient Air
Sampled: 2/8/2023 13:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1982
Canister Size: 6 liter
Flow Controller ID: 3670
Sample Type: 24 hr

Work Order: 23B1705
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -6.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.037	0.035	0.027		0.25	0.24	0.18	0.702	2/22/23 0:34	SFM
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	2/22/23 0:34	SFM
Toluene	0.56	0.035	0.020		2.1	0.13	0.076	0.702	2/22/23 0:34	SFM
1,2,4 Trichlorobenzene	ND	0 035	0 033		ND	0 26	0 24	0 702	2/22/23 0 34	SFM
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	2/22/23 0:34	SFM
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	2/22/23 0:34	SFM
Trichloroethylene	0.87	0.035	0.024		4.7	0.19	0.13	0.702	2/22/23 0:34	SFM
Trichlorofluoromethane (Freon 11)	0.25	0.14	0.041		1.4	0.79	0.23	0.702	2/22/23 0:34	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.12	0.14	0.039	J	0.89	1.1	0.30	0.702	2/22/23 0:34	SFM
1,2,4-Trimethylbenzene	0.088	0.035	0.016		0.43	0.17	0.076	0.702	2/22/23 0:34	SFM
1,3,5-Trimethylbenzene	0.025	0.035	0.019	J	0.12	0.17	0.091	0.702	2/22/23 0:34	SFM
Vinyl Acetate	0.45	0.70	0.19	J	1.6	2.5	0.66	0.702	2/22/23 0:34	SFM
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	2/22/23 0:34	SFM
m&p-Xylene	0.32	0.070	0.039		1.4	0.30	0.17	0.702	2/22/23 0:34	SFM
o-Xylene	0.12	0.035	0.018		0.51	0.15	0.078	0.702	2/22/23 0:34	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	105	70-130	2/22/23 0:34	

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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
23B1705-01 [OA-1]	B332700	1.5	1	N/A	1000	400	855	02/21/23

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 - TO-15 Prep											
Blank (B332700-BLK1)					Prepared & Analyzed: 02/21/23						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.35									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	0.55	1.4									J
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									
Propene	ND	1.4									
Styrene	ND	0.035									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 TO 15 Prep											
Blank (B332700-BLK1)					Prepared & Analyzed: 02/21/23						
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0 35									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.42*				*8.00*		*105*	*70-130*			
LCS (B332700-BS1)					Prepared & Analyzed: 02/21/23						
Acetone	5.47				5.00		109	70-130			
Benzene	4.87				5.00		97.4	70-130			
Benzyl chloride	5.26				5.00		105	70-130			
Bromodichloromethane	4.85				5.00		97.0	70-130			
Bromoform	4.87				5.00		97.5	70-130			
Bromomethane	5.42				5.00		108	70-130			
1,3-Butadiene	5.28				5.00		106	70-130			
2-Butanone (MEK)	4.82				5.00		96.5	70-130			
Carbon Disulfide	5.14				5.00		103	70-130			
Carbon Tetrachloride	4.88				5.00		97.7	70-130			
Chlorobenzene	4.66				5.00		93.3	70-130			
Chloroethane	5.72				5.00		114	70-130			
Chloroform	5.24				5.00		105	70-130			
Chloromethane	4.88				5.00		97.7	70-130			
Cyclohexane	4.93				5.00		98.6	70-130			
Dibromochloromethane	4.91				5.00		98.2	70-130			
1,2-Dibromoethane (EDB)	4.76				5.00		95.2	70-130			
1,2-Dichlorobenzene	4.89				5.00		97.8	70-130			
1,3-Dichlorobenzene	5.02				5.00		100	70-130			
1,4-Dichlorobenzene	5.06				5.00		101	70-130			
Dichlorodifluoromethane (Freon 12)	5.48				5.00		110	70-130			
1,1-Dichloroethane	5.17				5.00		103	70-130			
1,2-Dichloroethane	5.50				5.00		110	70-130			
1,1-Dichloroethylene	5.45				5.00		109	70-130			
cis-1,2-Dichloroethylene	5.18				5.00		104	70-130			
trans-1,2-Dichloroethylene	5.15				5.00		103	70-130			
1,2-Dichloropropane	4.72				5.00		94.3	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B332700 TO 15 Prep											
LCS (B332700-BS1)					Prepared & Analyzed: 02/21/23						
cis-1,3-Dichloropropene	4.86				5.00		97.2	70-130			
trans-1,3-Dichloropropene	5.05				5.00		101	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5 22				5 00		104	70 130			
1,4-Dioxane	4.78				5.00		95.6	70-130			
Ethanol	4 60				5 00		92.0	70 130			
Ethyl Acetate	5.16				5.00		103	70-130			
Ethylbenzene	4.94				5.00		98.8	70-130			
4-Ethyltoluene	5.25				5.00		105	70-130			
Heptane	4.73				5.00		94.5	70-130			
Hexachlorobutadiene	4.36				5.00		87.2	70-130			
Hexane	5.35				5.00		107	70-130			
2-Hexanone (MBK)	4.58				5.00		91.7	70-130			
Isopropanol	4.67				5.00		93.5	70-130			
Methyl tert-Butyl Ether (MTBE)	5.21				5.00		104	70-130			
Methylene Chloride	4.36				5.00		87.2	70-130			
4-Methyl-2-pentanone (MIBK)	4.55				5.00		91.0	70-130			
Naphthalene	5.03				5.00		101	70-130			
Propene	4.39				5.00		87.8	70-130			
Styrene	5.20				5.00		104	70-130			
1,1,2,2-Tetrachloroethane	4.64				5.00		92.8	70-130			
Tetrachloroethylene	4.74				5.00		94.8	70-130			
Tetrahydrofuran	5.35				5.00		107	70-130			
Toluene	4.88				5.00		97.6	70-130			
1,2,4-Trichlorobenzene	4.42				5.00		88.5	70-130			
1,1,1-Trichloroethane	4.66				5.00		93.1	70-130			
1,1,2-Trichloroethane	4.67				5.00		93.4	70-130			
Trichloroethylene	4.84				5.00		96.7	70-130			
Trichlorofluoromethane (Freon 11)	5.80				5.00		116	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.03				5.00		101	70-130			
1,2,4-Trimethylbenzene	5.13				5.00		103	70-130			
1,3,5-Trimethylbenzene	5.12				5.00		102	70-130			
Vinyl Acetate	4.32				5.00		86.3	70-130			
Vinyl Chloride	5.58				5.00		112	70-130			
m&p-Xylene	10.0				10.0		100	70-130			
o-Xylene	5.09				5.00		102	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.52*				*8.00*		*107*	*70-130*			

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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).

ANALYST

TPH	Thomas P. Hnitecki
SFM	Sandra F Mateega
STATION	Report Queue Station
RJM	Raymond J. McCarthy
CMR	Catherine M. Rouleau
BRF	Brittany R. Fisk

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S076501-ICV1)			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1141026	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2751702	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2471195	14.446	100	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 (S083823-CCV1)			Lab File ID: G23A052004.D			Analyzed: 02/21/23 12:28			
Bromochloromethane (1)	1120883	8.301	1120883	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2908417	10.075	2908417	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2701966	14.44	2701966	14.44	100	60 - 140	0.0000	+/-0.50	
LCS (B332700-BS1)			Lab File ID: G23A052005.D			Analyzed: 02/21/23 13:07			
Bromochloromethane (1)	1123941	8.3	1120883	8.301	100	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	2900522	10.075	2908417	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2694856	14.44	2701966	14.44	100	60 - 140	0.0000	+/-0.50	
Blank (B332700-BLK1)			Lab File ID: G23A052008.D			Analyzed: 02/21/23 15:13			
Bromochloromethane (1)	1121653	8.301	1120883	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2978892	10.075	2908417	10.075	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2784598	14.44	2701966	14.44	103	60 - 140	0.0000	+/-0.50	
OA-1 (23B1705-01)			Lab File ID: G23A052020.D			Analyzed: 02/22/23 00:34			
Bromochloromethane (1)	1210485	8 3	1120883	8 301	108	60 140	0 0010	+/ 0 50	
1,4-Difluorobenzene (1)	3280411	10.075	2908417	10.075	113	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3067102	14.44	2701966	14.44	114	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083823-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.76	1.084004	1.249451		15.3	30
Benzene	A	5.00	4.95	0.9129288	0.9040118		-1.0	30
Benzyl chloride	A	5.00	5.49	1.030942	1.132795		9.9	30
Bromodichloromethane	A	5.00	4.99	0.6953811	0.6944226		-0.1	30
Bromoform	A	5.00	5.11	0.5656468	0.5779709		2.2	30
Bromomethane	A	5.00	5.80	0.6009459	0.69763		16.1	30
1,3-Butadiene	A	5.00	5.61	0.5443004	0.6109555		12.2	30
2-Butanone (MEK)	A	5.00	4.92	1.507683	1.482401		-1.7	30
Carbon Disulfide	A	5.00	5.08	2.02748	2.05977		1.6	30
Carbon Tetrachloride	A	5.00	5.06	0.5479998	0.5543524		1.2	30
Chlorobenzene	A	5.00	4.83	0.8809329	0.8505623		-3.4	30
Chloroethane	A	5.00	5.90	0.3452967	0.407189		17.9	30
Chloroform	A	5.00	5.28	1.561184	1.647996		5.6	30
Chloromethane	A	5.00	5.16	0.6821899	0.7042391		3.2	30
Cyclohexane	A	5.00	5.12	0.3600845	0.3684704		2.3	30
Dibromochloromethane	A	5.00	5.09	0.6396581	0.6515576		1.9	30
1,2-Dibromoethane (EDB)	A	5.00	4.96	0.6171207	0.6127349		-0.7	30
1,2-Dichlorobenzene	A	5.00	5.08	0.6937094	0.7054608		1.7	30
1,3-Dichlorobenzene	A	5.00	5.24	0.7409581	0.7766191		4.8	30
1,4-Dichlorobenzene	A	5.00	5.25	0.7218155	0.7577215		5.0	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.53	1.62808	1.799438		10.5	30
1,1-Dichloroethane	A	5.00	5.18	1.342742	1.391539		3.6	30
1,2-Dichloroethane	A	5.00	5.52	0.9627523	1.061936		10.3	30
1,1-Dichloroethylene	A	5.00	5.42	1.140142	1.23549		8.4	30
cis-1,2-Dichloroethylene	A	5.00	5.27	0.9670963	1.018907		5.4	30
trans-1,2-Dichloroethylene	A	5.00	5.22	1.001825	1.045135		4.3	30
1,2-Dichloropropane	A	5.00	4.79	0.3567989	0.3421303		-4.1	30
cis-1,3-Dichloropropene	A	5.00	5.11	0.5092852	0.5207385		2.2	30
trans-1,3-Dichloropropene	A	5.00	5.12	0.4570981	0.4679626		2.4	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.82	1.73998	2.024835		16.4	30
1,4-Dioxane	A	5.00	4.88	0.1857641	0.1811036		-2.5	30
Ethanol	A	5.00	4.69	0.2343264	0.2198196		-6.2	30
Ethyl Acetate	A	5.00	5.56	0.2308163	0.2568075		11.3	30
Ethylbenzene	A	5.00	5.16	1.455024	1.499995		3.1	30
4-Ethyltoluene	A	5.00	5.47	1.413771	1.547917		9.5	30
Heptane	A	5.00	4.91	0.2850308	0.2796485		-1.9	30
Hexachlorobutadiene	A	5.00	4.72	0.4677459	0.441464		-5.6	30
Hexane	A	5.00	5.44	0.8985394	0.918336		8.8	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S083823-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.75	0.7712864	0.7321904		-5.1	30
Isopropanol	A	5.00	5.69	1.338902	1.523632		13.8	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.50	1.834723	2.018543		10.0	30
Methylene Chloride	A	5.00	4.41	0.9597215	0.8471121		-11.7	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.73	0.7726854	0.7311733		-5.4	30
Naphthalene	A	5.00	5.19	1.092246	1.133455		3.8	30
Propene	A	5.00	4.71	0.5941328	0.5595346		-5.8	30
Styrene	A	5.00	5.45	0.7890752	0.860134		9.0	30
1,1,2,2-Tetrachloroethane	A	5.00	4.85	0.9851261	0.954727		-3.1	30
Tetrachloroethylene	A	5.00	4.90	0.457194	0.4481791		-2.0	30
Tetrahydrofuran	A	5.00	5.34	0.2957092	0.3160594		6.9	30
Toluene	A	5.00	4.97	1.15399	1.146133		-0.7	30
1,2,4-Trichlorobenzene	A	5.00	4.73	0.4973623	0.4708115		-5.3	30
1,1,1-Trichloroethane	A	5.00	4.94	0.5975698	0.590663		-1.2	30
1,1,2-Trichloroethane	A	5.00	4.78	0.4162703	0.3978857		-4.4	30
Trichloroethylene	A	5.00	4.87	0.3947958	0.3847712		-2.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	6.07	1.463327	1.776138		21.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	5.18	1.432547	1.48524		3.7	30
1,2,4-Trimethylbenzene	A	5.00	5.49	1.156019	1.26957		9.8	30
1,3,5-Trimethylbenzene	A	5.00	5.44	1.190388	1.294979		8.8	30
Vinyl Acetate	A	5.00	4.30	1.986739	1.708464		-14.0	30
Vinyl Chloride	A	5.00	5.83	0.7142115	0.8333016		16.7	30
m&p-Xylene	A	10.0	10.5	1.129066	1.185614		5.0	30
o-Xylene	A	5.00	5.28	1.138955	1.201723		5.5	30

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

* Values outside of QC limits

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

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

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

con-test ANALYTICAL LABORATORY

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CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

2381705

Company Name: NYSDEC/WSP
Address: 500 Summit Lake Dr, Ste 450, Valhalla, NY 10595
Phone: 914 461 2966 (dave.morelli@wsp.com)
Project Name: Standard Gage + Coat
Project Location: OUTDOOR
Project Number: R3MULTISVI / Contract # C100701
Project Manager: Dave Morelli
Con-Test Quote Name/Number: —
Invoice Recipient: —
Sampled By: IA/MD

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date: Standard TAT

RUSH Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other: Level 4
CLP Like Data Pkg Required: ☐
Email To: eridania.marte@wsp.com
Fax To #: dave.morelli@wsp.com

ANALYSIS REQUESTED

TO-15

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume		Initial Pressure -" Hg	Final Pressure -" Hg	Lab Receipt Pressure -" Hg	Summa Can ID	Flow Controller ID
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	m³/min L/min	Code	Liters m³						
01	OA-1	2/7/23 13:00	2/8/23 13:00	24 hr		OA	6	2	30	8	6.3	1982	3670

Please fill out completely, sign, date and retain the yellow copy for your records

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Comments: OA-1 Associated w/ OS-04 and OS-07 Samples collected 2/7 to 2/8/23.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other OA Outdoor air

Relinquished by: (signature)	Date/Time: 2/10/23	
Received by: (signature)	Date/Time: 2-10-23 1305	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA:
CT:
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

FedEx® Tracking

DELIVERED

Monday

2/13/2023 at 1:05 pm

Signed for by: HHENRIQUEZ

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Shipment is 1 of 10 pieces

TRACKING ID

771259310443

FROM
NYDEC_WSP
Ian Arturo
500 Summit Lake Drive Suite 450
VALHALLA, NY US 10595
9148010180

Label Created
2/9/2023 10:29 AM

PACKAGE RECEIVED BY FEDEX
BLAUVELT, NY
2/10/2023 6:01 PM

IN TRANSIT
WINDSOR, CT
2/13/2023 5:07 AM

OUT FOR DELIVERY
WINDSOR, CT
2/13/2023 5:23 AM

DELIVERED
Air Lab
Pace Analytical
39 SPRUCE ST
East Longmeadow, MA US 01028
4135252332

Delivered
2/13/2023 at 1:05 PM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

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

Log In Back-Sheet

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

Pace PEOPLE ADVANCING SCIE

Client NYS DEC / WSP
Project Standard Gauge + Coal
MCP/RCP Required
Deliverable Package Requirement
Location Outdoor
PWSID# (When Applicable)
Arrival Method FedEx
Received By / Date / Time TPH 2-13-23 1305
Back-Sheet By / Date / Time TPH 2-14-23 1205
Temperature Method #
Temp ≤ 6° C ☐ Actual Temperature
Rush Samples: Yes / (No) Notify
Short Hold: Yes / (No) Notify

	True	Fals
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	☐	☒

Notes regarding Samples/COC outside of SOP:

COC Included: (Check all included)

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

Container	#	Size	Regulator	Duration
Summa Cans		6L	1	24hr
Tedlar Bags				
TO-17 Tubes				
Radiello				
Pufs/ TO-11				

Accessories			
Nut/Ferrule		IC Train	
Tubing			
T-Connector		Shipping Charges	
Syringe			
Tedlar			

Can #s:				
1982				

Reg #s:				
3670				

Unused Media				

Pufs/TO-17's				

Air Sampling Media Certificate of Analysis

Date Analyzed: 11/10/2022 **Batch #:** 22CC0952

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1982

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 2/27/23

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

April 5, 2023

Dave Morelli
NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595

Project Location: OUTDOOR AIR 3/16/23
Client Job Number:
Project Number: C314131A
Laboratory Work Order Number: 23C2786

Enclosed are results of analyses for samples as received by the laboratory on March 20, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

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

NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595
ATTN: Dave Morelli

REPORT DATE: 4/5/2023

PURCHASE ORDER NUMBER: R3MULTISVI

PROJECT NUMBER: C314131A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23C2786

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

PROJECT LOCATION: OUTDOOR AIR 3/16/23

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OA-1	23C2786-01	Air		EPA TO-15	

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CASE NARRATIVE SUMMARY

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

EPA TO-15

Qualifications:

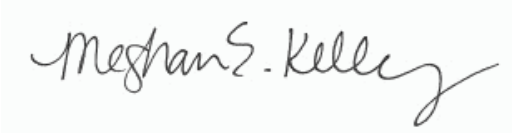
L-03 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene, Ethanol, Hexachlorobutadiene, Isopropanol, Naphthalene

23C2786-01[OA-1], B336239-BLK1, B336239-BS1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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ANALYTICAL RESULTS

Project Location: OUTDOOR AIR 3/16/23
Date Received: 3/20/2023
Field Sample #: OA-1
Sample ID: 23C2786-01
Sample Matrix: Air
Sampled: 3/17/2023 13:05

Sample Description/Location:
Sub Description/Location:
Canister ID: 2440
Canister Size: 6 liter
Flow Controller ID: 3733
Sample Type: 24 hr

Work Order: 23C2786
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5.5
Receipt Vacuum(in Hg): -5.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	4.7	1.4	0.85		11	3.3	2.0	0.702	4/4/23 1:29	SFM
Benzene	0.25	0.035	0.027		0.81	0.11	0.085	0.702	4/4/23 1:29	SFM
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	4/4/23 1:29	SFM
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	4/4/23 1:29	SFM
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	4/4/23 1:29	SFM
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	4/4/23 1:29	SFM
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	4/4/23 1:29	SFM
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.702	4/4/23 1:29	SFM
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	4/4/23 1:29	SFM
Carbon Tetrachloride	0.072	0.035	0.028		0.45	0.22	0.18	0.702	4/4/23 1:29	SFM
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	4/4/23 1:29	SFM
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	4/4/23 1:29	SFM
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	4/4/23 1:29	SFM
Chloromethane	0.47	0.070	0.028		0.98	0.14	0.058	0.702	4/4/23 1:29	SFM
Cyclohexane	0.041	0.035	0.021		0.14	0.12	0.073	0.702	4/4/23 1:29	SFM
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	4/4/23 1:29	SFM
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	4/4/23 1:29	SFM
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	4/4/23 1:29	SFM
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	4/4/23 1:29	SFM
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	4/4/23 1:29	SFM
Dichlorodifluoromethane (Freon 12)	0.23	0.035	0.034		1.1	0.17	0.17	0.702	4/4/23 1:29	SFM
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	4/4/23 1:29	SFM
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	4/4/23 1:29	SFM
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	4/4/23 1:29	SFM
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	4/4/23 1:29	SFM
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	4/4/23 1:29	SFM
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	4/4/23 1:29	SFM
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	4/4/23 1:29	SFM
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	4/4/23 1:29	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	4/4/23 1:29	SFM
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	4/4/23 1:29	SFM
Ethanol	6.5	1.4	0.62	L-03	12	2.6	1.2	0.702	4/4/23 1:29	SFM
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.702	4/4/23 1:29	SFM
Ethylbenzene	0.064	0.035	0.020		0.28	0.15	0.089	0.702	4/4/23 1:29	SFM
4-Ethyltoluene	ND	0.035	0.022		ND	0.17	0.11	0.702	4/4/23 1:29	SFM
Heptane	0.11	0.035	0.022		0.43	0.14	0.092	0.702	4/4/23 1:29	SFM
Hexachlorobutadiene	ND	0.035	0.029	L-03	ND	0.37	0.31	0.702	4/4/23 1:29	SFM
Hexane	0.20	1.4	0.18	J	0.69	4.9	0.64	0.702	4/4/23 1:29	SFM
2-Hexanone (MBK)	ND	0.035	0.018		ND	0.14	0.072	0.702	4/4/23 1:29	SFM
Isopropanol	0.54	1.4	0.24	L-03, J	1.3	3.4	0.60	0.702	4/4/23 1:29	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	4/4/23 1:29	SFM
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.57	0.702	4/4/23 1:29	SFM
4-Methyl-2-pentanone (MIBK)	0.022	0.035	0.019	J	0.089	0.14	0.077	0.702	4/4/23 1:29	SFM
Naphthalene	ND	0.035	0.026	L-03	ND	0.18	0.14	0.702	4/4/23 1:29	SFM
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	4/4/23 1:29	SFM
Styrene	ND	0.035	0.018		ND	0.15	0.079	0.702	4/4/23 1:29	SFM
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	4/4/23 1:29	SFM

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ANALYTICAL RESULTS

Project Location: OUTDOOR AIR 3/16/23
Date Received: 3/20/2023
Field Sample #: OA-1
Sample ID: 23C2786-01
Sample Matrix: Air
Sampled: 3/17/2023 13:05

Sample Description/Location:
Sub Description/Location:
Canister ID: 2440
Canister Size: 6 liter
Flow Controller ID: 3733
Sample Type: 24 hr

Work Order: 23C2786
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5.5
Receipt Vacuum(in Hg): -5.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.11	0.035	0.027		0.73	0.24	0.18	0.702	4/4/23 1:29	SFM
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	4/4/23 1:29	SFM
Toluene	0.56	0.035	0.020		2.1	0.13	0.076	0.702	4/4/23 1:29	SFM
1,2,4 Trichlorobenzene	ND	0 035	0 033	L 03	ND	0 26	0 24	0 702	4/4/23 1 29	SFM
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	4/4/23 1:29	SFM
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	4/4/23 1:29	SFM
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	4/4/23 1:29	SFM
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.2	0.79	0.23	0.702	4/4/23 1:29	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.061	0.14	0.039	J	0.47	1.1	0.30	0.702	4/4/23 1:29	SFM
1,2,4-Trimethylbenzene	0.041	0.035	0.016		0.20	0.17	0.076	0.702	4/4/23 1:29	SFM
1,3,5-Trimethylbenzene	ND	0.035	0.019		ND	0.17	0.091	0.702	4/4/23 1:29	SFM
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.702	4/4/23 1:29	SFM
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	4/4/23 1:29	SFM
m&p-Xylene	0.21	0.070	0.039		0.93	0.30	0.17	0.702	4/4/23 1:29	SFM
o-Xylene	0.074	0.035	0.018		0.32	0.15	0.078	0.702	4/4/23 1:29	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	106	70-130		4/4/23 1:29

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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
23C2786-01 [OA-1]	B336239	1.5	1	N/A	1000	400	855	04/03/23

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 - TO-15 Prep											
Blank (B336239-BLK1)					Prepared & Analyzed: 04/03/23						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									L-03
Ethyl Acetate	ND	0.35									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									L-03
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	ND	1.4									L-03
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									L-03
Propene	ND	1.4									
Styrene	ND	0.035									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 TO 15 Prep											
Blank (B336239-BLK1)					Prepared & Analyzed: 04/03/23						
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0 35									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									L-03
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.28*				*8.00*		*104*	*70-130*			
LCS (B336239-BS1)					Prepared & Analyzed: 04/03/23						
Acetone	4.56				5.00		91.3	70-130			
Benzene	5.02				5.00		100	70-130			
Benzyl chloride	4.87				5.00		97.3	70-130			
Bromodichloromethane	4.96				5.00		99.2	70-130			
Bromoform	4.92				5.00		98.4	70-130			
Bromomethane	4.49				5.00		89.8	70-130			
1,3-Butadiene	4.34				5.00		86.7	70-130			
2-Butanone (MEK)	4.60				5.00		92.0	70-130			
Carbon Disulfide	5.06				5.00		101	70-130			
Carbon Tetrachloride	5.27				5.00		105	70-130			
Chlorobenzene	4.78				5.00		95.6	70-130			
Chloroethane	4.73				5.00		94.6	70-130			
Chloroform	5.01				5.00		100	70-130			
Chloromethane	4.32				5.00		86.4	70-130			
Cyclohexane	4.99				5.00		99.8	70-130			
Dibromochloromethane	5.08				5.00		102	70-130			
1,2-Dibromoethane (EDB)	4.71				5.00		94.1	70-130			
1,2-Dichlorobenzene	4.26				5.00		85.2	70-130			
1,3-Dichlorobenzene	4.66				5.00		93.3	70-130			
1,4-Dichlorobenzene	4.56				5.00		91.2	70-130			
Dichlorodifluoromethane (Freon 12)	4.89				5.00		97.8	70-130			
1,1-Dichloroethane	5.16				5.00		103	70-130			
1,2-Dichloroethane	5.13				5.00		103	70-130			
1,1-Dichloroethylene	5.07				5.00		101	70-130			
cis-1,2-Dichloroethylene	4.78				5.00		95.5	70-130			
trans-1,2-Dichloroethylene	4.87				5.00		97.4	70-130			
1,2-Dichloropropane	5.07				5.00		101	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 TO 15 Prep												
LCS (B336239-BS1)					Prepared & Analyzed: 04/03/23							
cis-1,3-Dichloropropene	4.68				5.00		93.7		70-130			
trans-1,3-Dichloropropene	4.75				5.00		94.9		70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4 26				5 00		85.3		70 130			
1,4-Dioxane	4.57				5.00		91.5		70-130			
Ethanol	3 16				5 00		**63.3**	*	70 130			L 03
Ethyl Acetate	4.95				5.00		99.0		70-130			
Ethylbenzene	4.86				5.00		97.2		70-130			
4-Ethyltoluene	4.87				5.00		97.3		70-130			
Heptane	5.22				5.00		104		70-130			
Hexachlorobutadiene	3.44				5.00		**68.7**	*	70-130			L-03
Hexane	5.33				5.00		107		70-130			
2-Hexanone (MBK)	4.74				5.00		94.7		70-130			
Isopropanol	3.45				5.00		**69.0**	*	70-130			L-03
Methyl tert-Butyl Ether (MTBE)	4.66				5.00		93.2		70-130			
Methylene Chloride	4.48				5.00		89.6		70-130			
4-Methyl-2-pentanone (MIBK)	4.80				5.00		96.1		70-130			
Naphthalene	3.22				5.00		**64.3**	*	70-130			L-03
Propene	4.39				5.00		87.8		70-130			
Styrene	4.82				5.00		96.3		70-130			
1,1,2,2-Tetrachloroethane	4.62				5.00		92.3		70-130			
Tetrachloroethylene	4.70				5.00		94.0		70-130			
Tetrahydrofuran	4.76				5.00		95.1		70-130			
Toluene	4.93				5.00		98.5		70-130			
1,2,4-Trichlorobenzene	2.88				5.00		**57.5**	*	70-130			L-03
1,1,1-Trichloroethane	4.84				5.00		96.8		70-130			
1,1,2-Trichloroethane	4.97				5.00		99.4		70-130			
Trichloroethylene	5.00				5.00		99.9		70-130			
Trichlorofluoromethane (Freon 11)	4.66				5.00		93.2		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.78				5.00		95.7		70-130			
1,2,4-Trimethylbenzene	4.70				5.00		94.0		70-130			
1,3,5-Trimethylbenzene	4.94				5.00		98.9		70-130			
Vinyl Acetate	4.19				5.00		83.8		70-130			
Vinyl Chloride	4.66				5.00		93.2		70-130			
m&p-Xylene	10.3				10.0		103		70-130			
o-Xylene	5.10				5.00		102		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.42*				*8.00*		*105*		*70-130*			

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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).
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

ANALYST

TPH	Thomas P. Hnitecki
SFM	Sandra F Mateega
STATION	Report Queue Station
RJM	Raymond J. McCarthy
CMR	Catherine M. Rouleau
BRF	Brittany R. Fisk

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S076501-ICV1)			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1141026	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2751702	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2471195	14.446	100	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 (S085552-CCV1)			Lab File ID: G23A093004.D			Analyzed: 04/03/23 12:44			
Bromochloromethane (1)	1002104	8.301	1002104	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2189075	10.069	2189075	10.069	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2019966	14.434	2019966	14.434	100	60 - 140	0.0000	+/-0.50	
LCS (B336239-BS1)			Lab File ID: G23A093005.D			Analyzed: 04/03/23 13:24			
Bromochloromethane (1)	1074426	8.301	1002104	8.301	107	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2514902	10.069	2189075	10.069	115	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2234320	14.434	2019966	14.434	111	60 - 140	0.0000	+/-0.50	
Blank (B336239-BLK1)			Lab File ID: G23A093008.D			Analyzed: 04/03/23 15:33			
Bromochloromethane (1)	1036334	8.294	1002104	8.301	103	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (1)	2319458	10.069	2189075	10.069	106	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2079545	14.434	2019966	14.434	103	60 - 140	0.0000	+/-0.50	
OA-1 (23C2786-01)			Lab File ID: G23A093020.D			Analyzed: 04/04/23 01:29			
Bromochloromethane (1)	1024742	8 301	1002104	8 301	102	60 140	0 0000	+/ 0 50	
1,4-Difluorobenzene (1)	2318543	10.068	2189075	10.069	106	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	2106856	14.433	2019966	14.434	104	60 - 140	-0.0010	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085552-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.74	1.084004	1.028356		-5.1	30
Benzene	A	5.00	4.96	0.9129288	0.905558		-0.8	30
Benzyl chloride	A	5.00	5.55	1.030942	1.143661		10.9	30
Bromodichloromethane	A	5.00	5.21	0.6953811	0.7251216		4.3	30
Bromoform	A	5.00	5.02	0.5656468	0.5681909		0.4	30
Bromomethane	A	5.00	4.51	0.6009459	0.5424331		-9.7	30
1,3-Butadiene	A	5.00	4.42	0.5443004	0.4813233		-11.6	30
2-Butanone (MEK)	A	5.00	4.59	1.507683	1.384717		-8.2	30
Carbon Disulfide	A	5.00	4.72	2.02748	1.914952		-5.6	30
Carbon Tetrachloride	A	5.00	5.34	0.5479998	0.585107		6.8	30
Chlorobenzene	A	5.00	4.86	0.8809329	0.856298		-2.8	30
Chloroethane	A	5.00	4.66	0.3452967	0.3220105		-6.7	30
Chloroform	A	5.00	4.79	1.561184	1.495069		-4.2	30
Chloromethane	A	5.00	4.36	0.6821899	0.5951366		-12.8	30
Cyclohexane	A	5.00	4.92	0.3600845	0.3545848		-1.5	30
Dibromochloromethane	A	5.00	5.10	0.6396581	0.6523207		2.0	30
1,2-Dibromoethane (EDB)	A	5.00	4.87	0.6171207	0.6011301		-2.6	30
1,2-Dichlorobenzene	A	5.00	4.74	0.6937094	0.6571651		-5.3	30
1,3-Dichlorobenzene	A	5.00	5.06	0.7409581	0.7496942		1.2	30
1,4-Dichlorobenzene	A	5.00	4.96	0.7218155	0.7157649		-0.8	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.78	1.62808	1.556234		-4.4	30
1,1-Dichloroethane	A	5.00	4.92	1.342742	1.322367		-1.5	30
1,2-Dichloroethane	A	5.00	4.94	0.9627523	0.9509576		-1.2	30
1,1-Dichloroethylene	A	5.00	4.70	1.140142	1.07151		-6.0	30
cis-1,2-Dichloroethylene	A	5.00	4.58	0.9670963	0.8859073		-8.4	30
trans-1,2-Dichloroethylene	A	5.00	4.67	1.001825	0.9361998		-6.6	30
1,2-Dichloropropane	A	5.00	5.18	0.3567989	0.3699141		3.7	30
cis-1,3-Dichloropropene	A	5.00	5.06	0.5092852	0.5154952		1.2	30
trans-1,3-Dichloropropene	A	5.00	4.99	0.4570981	0.4565552		-0.1	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	4.54	1.73998	1.579135		-9.2	30
1,4-Dioxane	A	5.00	4.88	0.1857641	0.1813434		-2.4	30
Ethanol	A	5.00	3.70	0.2343264	0.1731685		-26.1	30
Ethyl Acetate	A	5.00	5.43	0.2308163	0.2505209		8.5	30
Ethylbenzene	A	5.00	5.00	1.455024	1.456349		0.09	30
4-Ethyltoluene	A	5.00	5.15	1.413771	1.456475		3.0	30
Heptane	A	5.00	5.48	0.2850308	0.3122597		9.6	30
Hexachlorobutadiene	A	5.00	4.82	0.4677459	0.450501		-3.7	30
Hexane	A	5.00	5.23	0.8985394	0.8818789		4.5	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085552-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.12	0.7712864	0.7899864		2.4	30
Isopropanol	A	5.00	4.42	1.338902	1.183409		-11.6	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.54	1.834723	1.664321		-9.3	30
Methylene Chloride	A	5.00	4.31	0.9597215	0.8275947		-13.8	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.27	0.7726854	0.8146864		5.4	30
Naphthalene	A	5.00	4.95	1.092246	1.082192		-0.9	30
Propene	A	5.00	4.46	0.5941328	0.529866		-10.8	30
Styrene	A	5.00	4.97	0.7890752	0.7837922		-0.7	30
1,1,2,2-Tetrachloroethane	A	5.00	5.04	0.9851261	0.9934971		0.8	30
Tetrachloroethylene	A	5.00	4.67	0.457194	0.4271628		-6.6	30
Tetrahydrofuran	A	5.00	4.45	0.2957092	0.263136		-11.0	30
Toluene	A	5.00	4.88	1.15399	1.126342		-2.4	30
1,2,4-Trichlorobenzene	A	5.00	4.39	0.4973623	0.436904		-12.2	30
1,1,1-Trichloroethane	A	5.00	5.27	0.5975698	0.6294326		5.3	30
1,1,2-Trichloroethane	A	5.00	4.98	0.4162703	0.4145963		-0.4	30
Trichloroethylene	A	5.00	5.03	0.3947958	0.3972549		0.6	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.68	1.463327	1.370223		-6.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	4.64	1.432547	1.330311		-7.1	30
1,2,4-Trimethylbenzene	A	5.00	5.18	1.156019	1.19651		3.5	30
1,3,5-Trimethylbenzene	A	5.00	5.27	1.190388	1.254144		5.4	30
Vinyl Acetate	A	5.00	3.84	1.986739	1.524244		-23.3	30
Vinyl Chloride	A	5.00	4.58	0.7142115	0.6541852		-8.4	30
m&p-Xylene	A	10.0	10.6	1.129066	1.193089		5.7	30
o-Xylene	A	5.00	5.20	1.138955	1.185331		4.1	30

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

* Values outside of QC limits

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

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

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

con-test ANALYTICAL LABORATORY

23C2786

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc #378 Rev 1_03242017

CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: NYSDEC/WSP
Address: 500 Summit Lake Dr, Ste 450, Valhalla, NY 10595
Phone: 914 461 2966 (dave.morelli@wsp.com)
Project Name: Standard Gage + Cal
Project Location: OUTDOOR AIR 3/16/23
Project Number: R3MULTISVI / Contract # C100701
Project Manager: Dave Morelli
Con-Test Quote Name/Number: ——
Invoice Recipient: ——
Sampled By: IA/DM/SZ

Requested Turnaround Time:
7-Day ☐ 10-Day ☑
Due Date: Standard TAT

Rush Approval Required:
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery:
Format: PDF ☑ EXCEL ☑
Other: Level 4
CLP Like Data Pkg Required: ☐
Email To: eridania.marte@wsp.com
Fax To: dave.morelli@wsp.com

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	TO-15				— " Hg				
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	☐ m³/min ☐ L/min	Code	☑ Liters ☐ m³					Initial Pressure	Final Pressure	Lab Receipt Pressure	Summa Can ID	Flow Controller ID
01	OA-1	13:05	13:05	24		OA	6	X				28	5.5	5.2	2440	3733
		↑	↑													
		3/16/23	3/17/23													

Please fill out completely, sign, date and retain the yellow copy for your records

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Comments: OA-1 associated w/ OS-01
Samples collected 3/16/23 to 3/17/23.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other OA = outdoor air

Relinquished by: (signature)	Date/Time: 3/17/2023
Received by: (signature)	Date/Time: 3-20-23 1155
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA:
CT:
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

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NEFAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

[redacted]

FedEx® Tracking

Summary Tracking Results

TRACKING ID	SHIP DATE	SHIPPER CITY, STATE	RECIPIENT CITY, STATE	STATUS	DELIVERY DATE	SCHEDULED DELIVERY DATE	SERVI(
771424727337	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G
771424727360	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G
771424727359	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G

[redacted]

OBTAIN PROOF OF DELIVERY

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Corporate Responsibility(https://www.fedex.com/en-us/about/corporate-social-responsibility.html)
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Log In Back-Sheet

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

Pace® PEOPLE ADVANCING SCIENCE

Client NYSDEC - WSP

Project Standard Gage + Coal

MCP/RCP Required

Deliverable Package Requirement CATB

Location Outdoor Air 3-16-23

PWSID# (When Applicable)

Arrival Method FedEx 771424703737

Received By / Date / Time CMH 3-20-23 1255

Back-Sheet By / Date / Time TPM 3-20-23 1535

Temperature Method #

Temp < 6° C ☐ Actual Temperature

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

	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	☒	☐

Notes regarding Samples/COC outside of SOP:

COC Included: (Check all included)

Client ☒ Analysis ☒ Sampler Name ☒

Project ☒ IDs ☒ Collection Date/Time ☒

Container	#	Size	Regulator	Duration	Accessories			
Summa Cans	1	6L	1	24hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s									Regs #'s								
1	2446	8		16		24			1	3733	8		16		24		
2		9		17		25			2		9		17		25		
3		10		18		26			3		10		18		26		
4		11		19		27			4		11		19		27		
5		12		20		28			5		12		20		28		
6		13		21		29			6		13		21		29		
7		14		22		30			7		14		22		30		
		15		23		31					15		23		31		
Unused Media									**Pufs/TO-17's**								
1		8		16		24			1		8		16		24		
2		9		17		25			2		9		17		25		
3		10		18		26			3		10		18		26		
4		11		19		27			4		11		19		27		
5		12		20		28			5		12		20		28		
6		13		21		29			6		13		21		29		
7		14		22		30			7		14		22		30		
		15		23		31					15		23				

Air Sampling Media Certificate of Analysis

Date Analyzed: 11/29/2022 **Batch #:** 22CC1012

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC2440

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 4/5/23

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April 5, 2023

Dave Morelli
NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595

Project Location: 0S-01,154 Garden St., Poughkeepsie, NY
Client Job Number:
Project Number: C314131A
Laboratory Work Order Number: 23C2787

Enclosed are results of analyses for samples as received by the laboratory on March 20, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

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

NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595
ATTN: Dave Morelli

REPORT DATE: 4/5/2023

PURCHASE ORDER NUMBER: R3MULTISVI

PROJECT NUMBER: C314131A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23C2787

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

PROJECT LOCATION: 0S-01,154 Garden St., Poughkeepsie, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-1A	23C2787-01	Sub Slab		EPA TO-15	
SS-1B	23C2787-02	Sub Slab		EPA TO-15	

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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:

E Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Acetone, Ethanol

23C2787-01[SS-1A], B336239-DUP1, 23C2787-02[SS-1B]

L-03 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene, Ethanol, Hexachlorobutadiene, Isopropanol, Naphthalene

23C2787-01[SS-1A], 23C2787-02[SS-1B], B336239-BLK1, B336239-BS1, B336239-DUP1

R-01 Duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.

Analyte & Samples(s) Qualified:

Isopropanol

B336239-DUP1

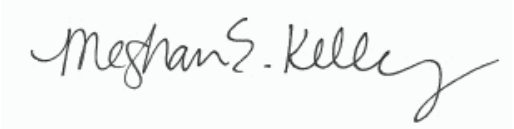
R-04 Duplicate relative percent difference (RPD) is outside of control limits. RPD is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

4-Methyl-2-pentanone (MIBK), Cyclohexane, Dichlorodifluoromethane (Freon 12), Vinyl Chloride

B336239-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.



Meghan E. Kelley
Reporting Specialist

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ANALYTICAL RESULTS

Project Location: 0S-01,154 Garden St., Poughkeep
Date Received: 3/20/2023
Field Sample #: SS-1A
Sample ID: 23C2787-01
Sample Matrix: Sub Slab
Sampled: 3/17/2023 11:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 2972
Canister Size: 6 liter
Flow Controller ID: 3531
Sample Type: 24 hr

Work Order: 23C2787
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	140	4.0	2.4	E	330	9.5	5.7	2	4/4/23 4:33	SFM
Benzene	0.67	0.10	0.076		2.1	0.32	0.24	2	4/4/23 4:33	SFM
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	4/4/23 4:33	SFM
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	4/4/23 4:33	SFM
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	4/4/23 4:33	SFM
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	4/4/23 4:33	SFM
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	4/4/23 4:33	SFM
2-Butanone (MEK)	9.7	4.0	1.1		28	12	3.1	2	4/4/23 4:33	SFM
Carbon Disulfide	1.6	1.0	0.092		5.1	3.1	0.29	2	4/4/23 4:33	SFM
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	4/4/23 4:33	SFM
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	4/4/23 4:33	SFM
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	4/4/23 4:33	SFM
Chloroform	0.37	0.10	0.095		1.8	0.49	0.46	2	4/4/23 4:33	SFM
Chloromethane	0.12	0.20	0.079	J	0.25	0.41	0.16	2	4/4/23 4:33	SFM
Cyclohexane	0.20	0.10	0.060		0.68	0.34	0.21	2	4/4/23 4:33	SFM
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	4/4/23 4:33	SFM
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	4/4/23 4:33	SFM
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	4/4/23 4:33	SFM
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	4/4/23 4:33	SFM
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	4/4/23 4:33	SFM
Dichlorodifluoromethane (Freon 12)	0.27	0.10	0.098		1.4	0.49	0.48	2	4/4/23 4:33	SFM
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	4/4/23 4:33	SFM
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	4/4/23 4:33	SFM
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	4/4/23 4:33	SFM
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	4/4/23 4:33	SFM
trans-1,2-Dichloroethylene	ND	0.10	0.079		ND	0.40	0.31	2	4/4/23 4:33	SFM
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	4/4/23 4:33	SFM
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	4/4/23 4:33	SFM
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	4/4/23 4:33	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	4/4/23 4:33	SFM
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	4/4/23 4:33	SFM
Ethanol	110	4.0	1.8	E, L-03	210	7.5	3.3	2	4/4/23 4:33	SFM
Ethyl Acetate	ND	1.0	0.51		ND	3.6	1.8	2	4/4/23 4:33	SFM
Ethylbenzene	0.19	0.10	0.058		0.84	0.43	0.25	2	4/4/23 4:33	SFM
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	4/4/23 4:33	SFM
Heptane	0.41	0.10	0.064		1.7	0.41	0.26	2	4/4/23 4:33	SFM
Hexachlorobutadiene	ND	0.10	0.082	L-03	ND	1.1	0.88	2	4/4/23 4:33	SFM
Hexane	1.1	4.0	0.52	J	3.8	14	1.8	2	4/4/23 4:33	SFM
2-Hexanone (MBK)	0.92	0.10	0.050		3.8	0.41	0.20	2	4/4/23 4:33	SFM
Isopropanol	4.8	4.0	0.69	L-03	12	9.8	1.7	2	4/4/23 4:33	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	4/4/23 4:33	SFM
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	4/4/23 4:33	SFM
4-Methyl-2-pentanone (MIBK)	0.16	0.10	0.053		0.66	0.41	0.22	2	4/4/23 4:33	SFM
Naphthalene	ND	0.10	0.075	L-03	ND	0.52	0.40	2	4/4/23 4:33	SFM
Propene	ND	4.0	0.88		ND	6.9	1.5	2	4/4/23 4:33	SFM
Styrene	0.064	0.10	0.053	J	0.27	0.43	0.22	2	4/4/23 4:33	SFM
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	4/4/23 4:33	SFM

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ANALYTICAL RESULTS

Project Location: 0S-01,154 Garden St., Poughkeep
Date Received: 3/20/2023
Field Sample #: SS-1A
Sample ID: 23C2787-01
Sample Matrix: Sub Slab
Sampled: 3/17/2023 11:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 2972
Canister Size: 6 liter
Flow Controller ID: 3531
Sample Type: 24 hr

Work Order: 23C2787
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.50	0.10	0.076		3.4	0.68	0.52	2	4/4/23 4:33	SFM
Tetrahydrofuran	0.17	1.0	0.16	J	0.51	2.9	0.48	2	4/4/23 4:33	SFM
Toluene	0.87	0.10	0.057		3.3	0.38	0.22	2	4/4/23 4:33	SFM
1,2,4 Trichlorobenzene	ND	0 10	0 093	L 03	ND	0 74	0 69	2	4/4/23 4 33	SFM
1,1,1-Trichloroethane	2.9	0.10	0.079		16	0.55	0.43	2	4/4/23 4:33	SFM
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	4/4/23 4:33	SFM
Trichloroethylene	9.9	0.10	0.067		53	0.54	0.36	2	4/4/23 4:33	SFM
Trichlorofluoromethane (Freon 11)	0.15	0.40	0.12	J	0.82	2.2	0.66	2	4/4/23 4:33	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	4/4/23 4:33	SFM
1,2,4-Trimethylbenzene	0.22	0.10	0.044		1.1	0.49	0.22	2	4/4/23 4:33	SFM
1,3,5-Trimethylbenzene	0.084	0.10	0.053	J	0.41	0.49	0.26	2	4/4/23 4:33	SFM
Vinyl Acetate	ND	2.0	0.54		ND	7.0	1.9	2	4/4/23 4:33	SFM
Vinyl Chloride	0.14	0.10	0.090		0.36	0.26	0.23	2	4/4/23 4:33	SFM
m&p-Xylene	0.70	0.20	0.11		3.0	0.87	0.49	2	4/4/23 4:33	SFM
o-Xylene	0.30	0.10	0.051		1.3	0.43	0.22	2	4/4/23 4:33	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	100	70-130		4/4/23 4:33

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ANALYTICAL RESULTS

Project Location: 0S-01,154 Garden St., Poughkeep
Date Received: 3/20/2023
Field Sample #: SS-1B
Sample ID: 23C2787-02
Sample Matrix: Sub Slab
Sampled: 3/17/2023 11:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2976
Canister Size: 6 liter
Flow Controller ID: 3095
Sample Type: 24 hr

Work Order: 23C2787
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -10
Receipt Vacuum(in Hg): -9.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	87	4.0	2.4		210	9.5	5.7	2	4/4/23 5:57	SFM
Benzene	1.4	0.10	0.076		4.6	0.32	0.24	2	4/4/23 5:57	SFM
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	4/4/23 5:57	SFM
Bromodichloromethane	ND	0 10	0 070		ND	0 67	0 47	2	4/4/23 5 57	SFM
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	4/4/23 5:57	SFM
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	4/4/23 5:57	SFM
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	4/4/23 5:57	SFM
2-Butanone (MEK)	11	4.0	1.1		33	12	3.1	2	4/4/23 5:57	SFM
Carbon Disulfide	0.64	1.0	0.092	J	2.0	3.1	0.29	2	4/4/23 5:57	SFM
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	4/4/23 5:57	SFM
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	4/4/23 5:57	SFM
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	4/4/23 5:57	SFM
Chloroform	0.69	0.10	0.095		3.4	0.49	0.46	2	4/4/23 5:57	SFM
Chloromethane	0.15	0.20	0.079	J	0.31	0.41	0.16	2	4/4/23 5:57	SFM
Cyclohexane	0.52	0.10	0.060		1.8	0.34	0.21	2	4/4/23 5:57	SFM
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	4/4/23 5:57	SFM
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	4/4/23 5:57	SFM
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	4/4/23 5:57	SFM
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	4/4/23 5:57	SFM
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	4/4/23 5:57	SFM
Dichlorodifluoromethane (Freon 12)	0.31	0.10	0.098		1.5	0.49	0.48	2	4/4/23 5:57	SFM
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	4/4/23 5:57	SFM
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	4/4/23 5:57	SFM
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	4/4/23 5:57	SFM
cis-1,2-Dichloroethylene	0.18	0.10	0.073		0.73	0.40	0.29	2	4/4/23 5:57	SFM
trans-1,2-Dichloroethylene	0.34	0.10	0.079		1.3	0.40	0.31	2	4/4/23 5:57	SFM
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	4/4/23 5:57	SFM
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	4/4/23 5:57	SFM
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	4/4/23 5:57	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	4/4/23 5:57	SFM
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	4/4/23 5:57	SFM
Ethanol	110	4.0	1.8	E, L-03	200	7.5	3.3	2	4/4/23 5:57	SFM
Ethyl Acetate	ND	1.0	0.51		ND	3.6	1.8	2	4/4/23 5:57	SFM
Ethylbenzene	0.26	0.10	0.058		1.1	0.43	0.25	2	4/4/23 5:57	SFM
4-Ethyltoluene	ND	0.10	0.061		ND	0.49	0.30	2	4/4/23 5:57	SFM
Heptane	0.66	0.10	0.064		2.7	0.41	0.26	2	4/4/23 5:57	SFM
Hexachlorobutadiene	ND	0.10	0.082	L-03	ND	1.1	0.88	2	4/4/23 5:57	SFM
Hexane	1.3	4.0	0.52	J	4.7	14	1.8	2	4/4/23 5:57	SFM
2-Hexanone (MBK)	1.1	0.10	0.050		4.7	0.41	0.20	2	4/4/23 5:57	SFM
Isopropanol	2.8	4.0	0.69	L-03, J	6.8	9.8	1.7	2	4/4/23 5:57	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	4/4/23 5:57	SFM
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	4/4/23 5:57	SFM
4-Methyl-2-pentanone (MIBK)	0.19	0.10	0.053		0.76	0.41	0.22	2	4/4/23 5:57	SFM
Naphthalene	1.3	0.10	0.075	L-03	6.9	0.52	0.40	2	4/4/23 5:57	SFM
Propene	20	4.0	0.88		34	6.9	1.5	2	4/4/23 5:57	SFM
Styrene	ND	0.10	0.053		ND	0.43	0.22	2	4/4/23 5:57	SFM
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	4/4/23 5:57	SFM

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ANALYTICAL RESULTS

Project Location: 0S-01,154 Garden St., Poughkeep
Date Received: 3/20/2023
Field Sample #: SS-1B
Sample ID: 23C2787-02
Sample Matrix: Sub Slab
Sampled: 3/17/2023 11:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2976
Canister Size: 6 liter
Flow Controller ID: 3095
Sample Type: 24 hr

Work Order: 23C2787
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -10
Receipt Vacuum(in Hg): -9.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	1.2	0.10	0.076		7.9	0.68	0.52	2	4/4/23 5:57	SFM
Tetrahydrofuran	0.23	1.0	0.16	J	0.68	2.9	0.48	2	4/4/23 5:57	SFM
Toluene	1.7	0.10	0.057		6.3	0.38	0.22	2	4/4/23 5:57	SFM
1,2,4 Trichlorobenzene	ND	0 10	0 093	L 03	ND	0 74	0 69	2	4/4/23 5 57	SFM
1,1,1-Trichloroethane	3.2	0.10	0.079		17	0.55	0.43	2	4/4/23 5:57	SFM
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	4/4/23 5:57	SFM
Trichloroethylene	50	0.10	0.067		270	0.54	0.36	2	4/4/23 5:57	SFM
Trichlorofluoromethane (Freon 11)	0.15	0.40	0.12	J	0.83	2.2	0.66	2	4/4/23 5:57	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	4/4/23 5:57	SFM
1,2,4-Trimethylbenzene	0.25	0.10	0.044		1.2	0.49	0.22	2	4/4/23 5:57	SFM
1,3,5-Trimethylbenzene	0.16	0.10	0.053		0.77	0.49	0.26	2	4/4/23 5:57	SFM
Vinyl Acetate	ND	2.0	0.54		ND	7.0	1.9	2	4/4/23 5:57	SFM
Vinyl Chloride	0.11	0.10	0.090		0.29	0.26	0.23	2	4/4/23 5:57	SFM
m&p-Xylene	0.86	0.20	0.11		3.7	0.87	0.49	2	4/4/23 5:57	SFM
o-Xylene	0.43	0.10	0.051		1.9	0.43	0.22	2	4/4/23 5:57	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	102	70-130		4/4/23 5:57

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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
23C2787-01 [SS-1A]	B336239	1.5	1	N/A	1000	400	300	04/03/23
23C2787-02 [SS-1B]	B336239	1.5	1	N/A	1000	400	300	04/03/23

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 - TO-15 Prep											
Blank (B336239-BLK1)					Prepared & Analyzed: 04/03/23						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									L-03
Ethyl Acetate	ND	0.35									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									L-03
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	ND	1.4									L-03
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									L-03
Propene	ND	1.4									
Styrene	ND	0.035									

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

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 TO 15 Prep											
Blank (B336239-BLK1)					Prepared & Analyzed: 04/03/23						
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0 35									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									L-03
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.28*				*8.00*		*104*	*70-130*			
LCS (B336239-BS1)					Prepared & Analyzed: 04/03/23						
Acetone	4.56				5.00		91.3	70-130			
Benzene	5.02				5.00		100	70-130			
Benzyl chloride	4.87				5.00		97.3	70-130			
Bromodichloromethane	4.96				5.00		99.2	70-130			
Bromoform	4.92				5.00		98.4	70-130			
Bromomethane	4.49				5.00		89.8	70-130			
1,3-Butadiene	4.34				5.00		86.7	70-130			
2-Butanone (MEK)	4.60				5.00		92.0	70-130			
Carbon Disulfide	5.06				5.00		101	70-130			
Carbon Tetrachloride	5.27				5.00		105	70-130			
Chlorobenzene	4.78				5.00		95.6	70-130			
Chloroethane	4.73				5.00		94.6	70-130			
Chloroform	5.01				5.00		100	70-130			
Chloromethane	4.32				5.00		86.4	70-130			
Cyclohexane	4.99				5.00		99.8	70-130			
Dibromochloromethane	5.08				5.00		102	70-130			
1,2-Dibromoethane (EDB)	4.71				5.00		94.1	70-130			
1,2-Dichlorobenzene	4.26				5.00		85.2	70-130			
1,3-Dichlorobenzene	4.66				5.00		93.3	70-130			
1,4-Dichlorobenzene	4.56				5.00		91.2	70-130			
Dichlorodifluoromethane (Freon 12)	4.89				5.00		97.8	70-130			
1,1-Dichloroethane	5.16				5.00		103	70-130			
1,2-Dichloroethane	5.13				5.00		103	70-130			
1,1-Dichloroethylene	5.07				5.00		101	70-130			
cis-1,2-Dichloroethylene	4.78				5.00		95.5	70-130			
trans-1,2-Dichloroethylene	4.87				5.00		97.4	70-130			
1,2-Dichloropropane	5.07				5.00		101	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 TO 15 Prep												
LCS (B336239-BS1)					Prepared & Analyzed: 04/03/23							
cis-1,3-Dichloropropene	4.68				5.00		93.7		70-130			
trans-1,3-Dichloropropene	4.75				5.00		94.9		70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4 26				5 00		85.3		70 130			
1,4-Dioxane	4.57				5.00		91.5		70-130			
Ethanol	3 16				5 00		**63.3**	*	70 130			L 03
Ethyl Acetate	4.95				5.00		99.0		70-130			
Ethylbenzene	4.86				5.00		97.2		70-130			
4-Ethyltoluene	4.87				5.00		97.3		70-130			
Heptane	5.22				5.00		104		70-130			
Hexachlorobutadiene	3.44				5.00		**68.7**	*	70-130			L-03
Hexane	5.33				5.00		107		70-130			
2-Hexanone (MBK)	4.74				5.00		94.7		70-130			
Isopropanol	3.45				5.00		**69.0**	*	70-130			L-03
Methyl tert-Butyl Ether (MTBE)	4.66				5.00		93.2		70-130			
Methylene Chloride	4.48				5.00		89.6		70-130			
4-Methyl-2-pentanone (MIBK)	4.80				5.00		96.1		70-130			
Naphthalene	3.22				5.00		**64.3**	*	70-130			L-03
Propene	4.39				5.00		87.8		70-130			
Styrene	4.82				5.00		96.3		70-130			
1,1,2,2-Tetrachloroethane	4.62				5.00		92.3		70-130			
Tetrachloroethylene	4.70				5.00		94.0		70-130			
Tetrahydrofuran	4.76				5.00		95.1		70-130			
Toluene	4.93				5.00		98.5		70-130			
1,2,4-Trichlorobenzene	2.88				5.00		**57.5**	*	70-130			L-03
1,1,1-Trichloroethane	4.84				5.00		96.8		70-130			
1,1,2-Trichloroethane	4.97				5.00		99.4		70-130			
Trichloroethylene	5.00				5.00		99.9		70-130			
Trichlorofluoromethane (Freon 11)	4.66				5.00		93.2		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.78				5.00		95.7		70-130			
1,2,4-Trimethylbenzene	4.70				5.00		94.0		70-130			
1,3,5-Trimethylbenzene	4.94				5.00		98.9		70-130			
Vinyl Acetate	4.19				5.00		83.8		70-130			
Vinyl Chloride	4.66				5.00		93.2		70-130			
m&p-Xylene	10.3				10.0		103		70-130			
o-Xylene	5.10				5.00		102		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.42*				*8.00*		*105*		*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 TO 15 Prep											
Duplicate (B336239-DUP1)			**Source: 23C2787-01**		Prepared: 04/03/23 Analyzed: 04/04/23						
Acetone	160	4.0	390	9.5		140			17.0	25	E
Benzene	0.65	0.10	2.1	0.32		0.67			2.42	25	
Benzyl chloride	ND	0 10	ND	0 52		ND				25	
Bromodichloromethane	ND	0.10	ND	0.67		ND				25	
Bromoform	ND	0.10	ND	1.0		ND				25	
Bromomethane	ND	0.10	ND	0.39		ND				25	
1,3-Butadiene	ND	0.10	ND	0.22		ND				25	
2-Butanone (MEK)	9.8	4.0	29	12		9.7			1.11	25	
Carbon Disulfide	1.8	1.0	5.5	3.1		1.6			8.67	25	
Carbon Tetrachloride	ND	0.10	ND	0.63		ND				25	
Chlorobenzene	ND	0.10	ND	0.46		ND				25	
Chloroethane	ND	0.10	ND	0.26		ND				25	
Chloroform	0.40	0.10	1.9	0.49		0.37			7.87	25	
Chloromethane	0.14	0.20	0.30	0.41		0.12			16.5	25	J
Cyclohexane	0.27	0.10	0.92	0.34		0.20			29.3	25	R-04
Dibromochloromethane	ND	0.10	ND	0.85		ND				25	
1,2-Dibromoethane (EDB)	ND	0.10	ND	0.77		ND				25	
1,2-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,3-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,4-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
Dichlorodifluoromethane (Freon 12)	0.38	0.10	1.9	0.49		0.27			31.4	25	R-04
1,1-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,2-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,1-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
cis-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
trans-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
1,2-Dichloropropane	ND	0.10	ND	0.46		ND				25	
cis-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
trans-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	ND	0.70		ND				25	
1,4-Dioxane	ND	1.0	ND	3.6		ND				25	
Ethanol	130	4.0	250	7.5		110			17.3	25	E, L-03
Ethyl Acetate	ND	1.0	ND	3.6		ND				25	
Ethylbenzene	0.21	0.10	0.93	0.43		0.19			9.80	25	
4-Ethyltoluene	ND	0.10	ND	0.49		ND				25	
Heptane	0.40	0.10	1.6	0.41		0.41			4.44	25	
Hexachlorobutadiene	ND	0.10	ND	1.1		ND				25	L-03
Hexane	1.1	4.0	4.0	14		1.1			5.03	25	J
2-Hexanone (MBK)	0.83	0.10	3.4	0.41		0.92			10.7	25	
Isopropanol	6.5	4.0	16	9.8		4.8			28.9	25	L-03, R-01
Methyl tert-Butyl Ether (MTBE)	ND	0.10	ND	0.36		ND				25	
Methylene Chloride	ND	1.0	ND	3.5		ND				25	
4-Methyl-2-pentanone (MIBK)	0.11	0.10	0.43	0.41		0.16			40.6	25	R-04
Naphthalene	ND	0.10	ND	0.52		ND				25	L-03
Propene	ND	4.0	ND	6.9		ND				25	
Styrene	0.066	0.10	0.28	0.43		0.064			3.08	25	J

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 TO 15 Prep											
Duplicate (B336239-DUP1)			**Source: 23C2787-01**		Prepared: 04/03/23 Analyzed: 04/04/23						
1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.69		ND				25	
Tetrachloroethylene	0.53	0.10	3.6	0.68		0.50			6.60	25	
Tetrahydrofuran	0 19	1 0	0 56	2 9		0 17			8 79	25	J
Toluene	0.88	0.10	3.3	0.38		0.87			1.14	25	
1,2,4-Trichlorobenzene	ND	0.10	ND	0.74		ND				25	L-03
1,1,1-Trichloroethane	2.9	0.10	16	0.55		2.9			0.206	25	
1,1,2-Trichloroethane	ND	0.10	ND	0.55		ND				25	
Trichloroethylene	9.5	0.10	51	0.54		9.9			4.97	25	
Trichlorofluoromethane (Freon 11)	0.17	0.40	0.93	2.2		0.15			12.8	25	J
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	ND	3.1		ND				25	
1,2,4-Trimethylbenzene	0.28	0.10	1.4	0.49		0.22			23.1	25	
1,3,5-Trimethylbenzene	0.098	0.10	0.48	0.49		0.084			15.4	25	J
Vinyl Acetate	ND	2.0	ND	7.0		ND				25	
Vinyl Chloride	0.19	0.10	0.48	0.26		0.14			29.3	25	R-04
m&p-Xylene	0.75	0.20	3.3	0.87		0.70			7.73	25	
o-Xylene	0.36	0.10	1.6	0.43		0.30			18.1	25	
Surrogate: 4-Bromofluorobenzene (1)	*8.86*				*8.00*		*111*	*70-130*			

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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.
E	Reported result is estimated. Value reported over verified calibration range.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
R-01	Duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.
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).

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S076501-ICV1)			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1141026	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2751702	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2471195	14.446	100	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 (S085552-CCV1)			Lab File ID: G23A093004.D			Analyzed: 04/03/23 12:44			
Bromochloromethane (1)	1002104	8.301	1002104	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2189075	10.069	2189075	10.069	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2019966	14.434	2019966	14.434	100	60 - 140	0.0000	+/-0.50	
LCS (B336239-BS1)			Lab File ID: G23A093005.D			Analyzed: 04/03/23 13:24			
Bromochloromethane (1)	1074426	8.301	1002104	8.301	107	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2514902	10.069	2189075	10.069	115	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2234320	14.434	2019966	14.434	111	60 - 140	0.0000	+/-0.50	
Blank (B336239-BLK1)			Lab File ID: G23A093008.D			Analyzed: 04/03/23 15:33			
Bromochloromethane (1)	1036334	8.294	1002104	8.301	103	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (1)	2319458	10.069	2189075	10.069	106	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2079545	14.434	2019966	14.434	103	60 - 140	0.0000	+/-0.50	
SS-1A (23C2787-01)			Lab File ID: G23A093024.D			Analyzed: 04/04/23 04:33			
Bromochloromethane (1)	949647	8 301	1002104	8 301	95	60 140	0 0000	+/ 0 50	
1,4-Difluorobenzene (1)	2060944	10.069	2189075	10.069	94	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1930907	14.434	2019966	14.434	96	60 - 140	0.0000	+/-0.50	
Duplicate (B336239-DUP1)			Lab File ID: G23A093025.D			Analyzed: 04/04/23 05:15			
Bromochloromethane (1)	761553	8.301	1002104	8.301	76	60 - 140	0.0000	+/-0.50	
1,4 Difluorobenzene (1)	1824323	10 069	2189075	10 069	83	60 140	0 0000	+/ 0 50	
Chlorobenzene-d5 (1)	1631418	14.44	2019966	14.434	81	60 - 140	0.0060	+/-0.50	
SS-1B (23C2787-02)			Lab File ID: G23A093026.D			Analyzed: 04/04/23 05:57			
Bromochloromethane (1)	918827	8.301	1002104	8.301	92	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1950552	10.075	2189075	10.069	89	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1773635	14.434	2019966	14.434	88	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085552-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.74	1.084004	1.028356		-5.1	30
Benzene	A	5.00	4.96	0.9129288	0.905558		-0.8	30
Benzyl chloride	A	5.00	5.55	1.030942	1.143661		10.9	30
Bromodichloromethane	A	5.00	5.21	0.6953811	0.7251216		4.3	30
Bromoform	A	5.00	5.02	0.5656468	0.5681909		0.4	30
Bromomethane	A	5.00	4.51	0.6009459	0.5424331		-9.7	30
1,3-Butadiene	A	5.00	4.42	0.5443004	0.4813233		-11.6	30
2-Butanone (MEK)	A	5.00	4.59	1.507683	1.384717		-8.2	30
Carbon Disulfide	A	5.00	4.72	2.02748	1.914952		-5.6	30
Carbon Tetrachloride	A	5.00	5.34	0.5479998	0.585107		6.8	30
Chlorobenzene	A	5.00	4.86	0.8809329	0.856298		-2.8	30
Chloroethane	A	5.00	4.66	0.3452967	0.3220105		-6.7	30
Chloroform	A	5.00	4.79	1.561184	1.495069		-4.2	30
Chloromethane	A	5.00	4.36	0.6821899	0.5951366		-12.8	30
Cyclohexane	A	5.00	4.92	0.3600845	0.3545848		-1.5	30
Dibromochloromethane	A	5.00	5.10	0.6396581	0.6523207		2.0	30
1,2-Dibromoethane (EDB)	A	5.00	4.87	0.6171207	0.6011301		-2.6	30
1,2-Dichlorobenzene	A	5.00	4.74	0.6937094	0.6571651		-5.3	30
1,3-Dichlorobenzene	A	5.00	5.06	0.7409581	0.7496942		1.2	30
1,4-Dichlorobenzene	A	5.00	4.96	0.7218155	0.7157649		-0.8	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.78	1.62808	1.556234		-4.4	30
1,1-Dichloroethane	A	5.00	4.92	1.342742	1.322367		-1.5	30
1,2-Dichloroethane	A	5.00	4.94	0.9627523	0.9509576		-1.2	30
1,1-Dichloroethylene	A	5.00	4.70	1.140142	1.07151		-6.0	30
cis-1,2-Dichloroethylene	A	5.00	4.58	0.9670963	0.8859073		-8.4	30
trans-1,2-Dichloroethylene	A	5.00	4.67	1.001825	0.9361998		-6.6	30
1,2-Dichloropropane	A	5.00	5.18	0.3567989	0.3699141		3.7	30
cis-1,3-Dichloropropene	A	5.00	5.06	0.5092852	0.5154952		1.2	30
trans-1,3-Dichloropropene	A	5.00	4.99	0.4570981	0.4565552		-0.1	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	4.54	1.73998	1.579135		-9.2	30
1,4-Dioxane	A	5.00	4.88	0.1857641	0.1813434		-2.4	30
Ethanol	A	5.00	3.70	0.2343264	0.1731685		-26.1	30
Ethyl Acetate	A	5.00	5.43	0.2308163	0.2505209		8.5	30
Ethylbenzene	A	5.00	5.00	1.455024	1.456349		0.09	30
4-Ethyltoluene	A	5.00	5.15	1.413771	1.456475		3.0	30
Heptane	A	5.00	5.48	0.2850308	0.3122597		9.6	30
Hexachlorobutadiene	A	5.00	4.82	0.4677459	0.450501		-3.7	30
Hexane	A	5.00	5.23	0.8985394	0.8818789		4.5	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085552-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.12	0.7712864	0.7899864		2.4	30
Isopropanol	A	5.00	4.42	1.338902	1.183409		-11.6	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.54	1.834723	1.664321		-9.3	30
Methylene Chloride	A	5.00	4.31	0.9597215	0.8275947		-13.8	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.27	0.7726854	0.8146864		5.4	30
Naphthalene	A	5.00	4.95	1.092246	1.082192		-0.9	30
Propene	A	5.00	4.46	0.5941328	0.529866		-10.8	30
Styrene	A	5.00	4.97	0.7890752	0.7837922		-0.7	30
1,1,2,2-Tetrachloroethane	A	5.00	5.04	0.9851261	0.9934971		0.8	30
Tetrachloroethylene	A	5.00	4.67	0.457194	0.4271628		-6.6	30
Tetrahydrofuran	A	5.00	4.45	0.2957092	0.263136		-11.0	30
Toluene	A	5.00	4.88	1.15399	1.126342		-2.4	30
1,2,4-Trichlorobenzene	A	5.00	4.39	0.4973623	0.436904		-12.2	30
1,1,1-Trichloroethane	A	5.00	5.27	0.5975698	0.6294326		5.3	30
1,1,2-Trichloroethane	A	5.00	4.98	0.4162703	0.4145963		-0.4	30
Trichloroethylene	A	5.00	5.03	0.3947958	0.3972549		0.6	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.68	1.463327	1.370223		-6.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	4.64	1.432547	1.330311		-7.1	30
1,2,4-Trimethylbenzene	A	5.00	5.18	1.156019	1.19651		3.5	30
1,3,5-Trimethylbenzene	A	5.00	5.27	1.190388	1.254144		5.4	30
Vinyl Acetate	A	5.00	3.84	1.986739	1.524244		-23.3	30
Vinyl Chloride	A	5.00	4.58	0.7142115	0.6541852		-8.4	30
m&p-Xylene	A	10.0	10.6	1.129066	1.193089		5.7	30
o-Xylene	A	5.00	5.20	1.138955	1.185331		4.1	30

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

* Values outside of QC limits

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

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

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

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

23C2787

CHAIN OF CUSTODY RECORD (AIR)

Company Name: NYSDEC/WSP
Address: 500 Summit Lake Dr, Ste 450, Valhalla, NY 10595
Phone: 914 461 2966 (dave.morelli@wsp.com)
Project Name: Standard Grab + Cont
Project Location: OS-01, 154 Garden Street, Poughkeepsie, NY
Project Number: R3MULTISVI / Contract # C100701
Project Manager: Dave Morelli
Con-Test Quote Name/Number: —
Invoice Recipient: —
Sampled By: LA/DM/SZ

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date: Standard TAT

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other: Level 4
CLP like Data Pkg Required: ☐
Email To: eridania.marte@wsp.com
Fax To: dave.morelli@wsp.com

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	TO-15				Initial Pressure -" Hg	Final Pressure -" Hg	Lab Receipt Pressure	Summa Can ID	Flow Controller ID
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	☐ m³/min ☐ L/min	Code	☒ Liters ☐ m³									
01	SS-1A	11:00	11:00	24		SS	6	X				29.5	9		2972	3551
02	SS-1B	11:25	11:25	24		SS	6	X				29	10		2976	3095
		↑	↑													
		3/16/23	3/17/23													

Please fill out completely, sign, date and retain the yellow copy for your records

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

Relinquished by: (signature)	Date/Time: 3/17/23	
Received by: (signature)	Date/Time: 3-20-23 1255	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

con-test ANALYTICAL LABORATORY www.contestlabs.com
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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FedEx® Tracking

Summary Tracking Results

TRACKING ID	SHIP DATE	SHIPPER CITY, STATE	RECIPIENT CITY, STATE	STATUS	DELIVERY DATE	SCHEDULED DELIVERY DATE	SERVIC
771424727337	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G
771424727360	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G
771424727359	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G

OBTAIN PROOF OF DELIVERY

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Careers(https://careers.fedex.com/fedex/)
FedEx Blog(https://www.fedex.com/en-us/blog.html)
Corporate Responsibility(https://www.fedex.com/en-us/about/corporate-social-responsibility.html)
Newsroom(https://newsroom.fedex.com/)
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East Longmeadow, MA. 01028
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Log In Back-Sheet

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

Pace PEOPLE ADVANCING SCIENCE

Client NYSDEC - WSP

Project Standard Gauge + Coal

MCP/RCP Required

Deliverable Package Requirement CAT B

Location 05-01 154 Garden St Poughkipsie NY

PWSID# (When Applicable)

Arrival Method FedEx 771424727359

Received By / Date / Time CMH 3-20-23 1255

Back-Sheet By / Date / Time TPH 3-20-23 1530

Temperature Method #

Temp < 6° C ☐ Actual Temperature

Rush Samples: Yes (No) Notify

Short Hold: Yes (No) Notify

	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	☒	☐

Notes regarding Samples/COC outside of SOP:

COC Included: (Check all included)

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

Container	#	Size	Regulator	Duration	Accessories			
Summa Cans	2	6L	2	24hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s								Regs #'s							
1	2972	8		16		24		1	3531	8		16		24	
2	2976	9		17		25		2	3095	9		17		25	
3		10		18		26		3		10		18		26	
4		11		19		27		4		11		19		27	
5		12		20		28		5		12		20		28	
6		13		21		29		6		13		21		29	
7		14		22		30		7		14		22		30	
		15		23		31				15		23		31	
Unused Media		8		16		24		**Pufs/TO-17's**		8		16		24	
1		9		17		25		1		9		17		25	
2		10		18		26		2		10		18		26	
3		11		19		27		3		11		19		27	
4		12		20		28		4		12		20		28	
5		13		21		29		5		13		21		29	
6		14		22		30		6		14		22		30	
7		15		23		31		7		15		23		31	

Air Sampling Media Certificate of Analysis

Date Analyzed: 2/2/2023 **Batch #:** 23CC0094

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC2972, BC2976

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 4/5/23

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

April 5, 2023

Dave Morelli
NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595

Project Location: 0S-01, 154 Garden St, Poughkeepsie,NY
Client Job Number:
Project Number: C314131A
Laboratory Work Order Number: 23C2788

Enclosed are results of analyses for samples as received by the laboratory on March 20, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

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

NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595
ATTN: Dave Morelli

REPORT DATE: 4/5/2023

PURCHASE ORDER NUMBER: R3MULTISVI

PROJECT NUMBER: C314131A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23C2788

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

PROJECT LOCATION: 0S-01, 154 Garden St, Poughkeepsie,NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-3	23C2788-01	Sub Slab		EPA TO-15	
IA-3	23C2788-02	Indoor air		EPA TO-15	

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CASE NARRATIVE SUMMARY

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

EPA TO-15

Qualifications:

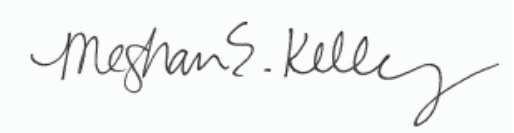
L-03 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene, Ethanol, Hexachlorobutadiene, Isopropanol, Naphthalene

23C2788-01[SS-3], 23C2788-02[IA-3], B336239-BLK1, B336239-BS1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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ANALYTICAL RESULTS

Project Location: 0S-01, 154 Garden St, Poughkeep
Date Received: 3/20/2023
Field Sample #: SS-3
Sample ID: 23C2788-01
Sample Matrix: Sub Slab
Sampled: 3/17/2023 12:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1801
Canister Size: 6 liter
Flow Controller ID: 3351
Sample Type: 24 hr

Work Order: 23C2788
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -11
Receipt Vacuum(in Hg): -9.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	9.4	4.0	2.4		22	9.5	5.7	2	4/4/23 6:39	SFM
Benzene	0.40	0.10	0.076		1.3	0.32	0.24	2	4/4/23 6:39	SFM
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	4/4/23 6:39	SFM
Bromodichloromethane	ND	0.10	0.070		ND	0.67	0.47	2	4/4/23 6:39	SFM
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	4/4/23 6:39	SFM
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	4/4/23 6:39	SFM
1,3-Butadiene	0.16	0.10	0.084		0.36	0.22	0.19	2	4/4/23 6:39	SFM
2-Butanone (MEK)	7.1	4.0	1.1		21	12	3.1	2	4/4/23 6:39	SFM
Carbon Disulfide	ND	1.0	0.092		ND	3.1	0.29	2	4/4/23 6:39	SFM
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	4/4/23 6:39	SFM
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	4/4/23 6:39	SFM
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	4/4/23 6:39	SFM
Chloroform	0.12	0.10	0.095		0.57	0.49	0.46	2	4/4/23 6:39	SFM
Chloromethane	0.20	0.20	0.079		0.42	0.41	0.16	2	4/4/23 6:39	SFM
Cyclohexane	0.12	0.10	0.060		0.43	0.34	0.21	2	4/4/23 6:39	SFM
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	4/4/23 6:39	SFM
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	4/4/23 6:39	SFM
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	4/4/23 6:39	SFM
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	4/4/23 6:39	SFM
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	4/4/23 6:39	SFM
Dichlorodifluoromethane (Freon 12)	0.26	0.10	0.098		1.3	0.49	0.48	2	4/4/23 6:39	SFM
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	4/4/23 6:39	SFM
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	4/4/23 6:39	SFM
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	4/4/23 6:39	SFM
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	4/4/23 6:39	SFM
trans-1,2-Dichloroethylene	ND	0.10	0.079		ND	0.40	0.31	2	4/4/23 6:39	SFM
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	4/4/23 6:39	SFM
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	4/4/23 6:39	SFM
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	4/4/23 6:39	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	4/4/23 6:39	SFM
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	4/4/23 6:39	SFM
Ethanol	20	4.0	1.8	L-03	39	7.5	3.3	2	4/4/23 6:39	SFM
Ethyl Acetate	1.7	1.0	0.51		6.1	3.6	1.8	2	4/4/23 6:39	SFM
Ethylbenzene	0.22	0.10	0.058		0.97	0.43	0.25	2	4/4/23 6:39	SFM
4-Ethyltoluene	0.11	0.10	0.061		0.52	0.49	0.30	2	4/4/23 6:39	SFM
Heptane	0.20	0.10	0.064		0.80	0.41	0.26	2	4/4/23 6:39	SFM
Hexachlorobutadiene	ND	0.10	0.082	L-03	ND	1.1	0.88	2	4/4/23 6:39	SFM
Hexane	ND	4.0	0.52		ND	14	1.8	2	4/4/23 6:39	SFM
2-Hexanone (MBK)	0.95	0.10	0.050		3.9	0.41	0.20	2	4/4/23 6:39	SFM
Isopropanol	ND	4.0	0.69	L-03	ND	9.8	1.7	2	4/4/23 6:39	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	4/4/23 6:39	SFM
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	4/4/23 6:39	SFM
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	4/4/23 6:39	SFM
Naphthalene	0.086	0.10	0.075	J, L-03	0.45	0.52	0.40	2	4/4/23 6:39	SFM
Propene	ND	4.0	0.88		ND	6.9	1.5	2	4/4/23 6:39	SFM
Styrene	ND	0.10	0.053		ND	0.43	0.22	2	4/4/23 6:39	SFM
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	4/4/23 6:39	SFM

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ANALYTICAL RESULTS

Project Location: 0S-01, 154 Garden St, Poughkeep
Date Received: 3/20/2023
Field Sample #: SS-3
Sample ID: 23C2788-01
Sample Matrix: Sub Slab
Sampled: 3/17/2023 12:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1801
Canister Size: 6 liter
Flow Controller ID: 3351
Sample Type: 24 hr

Work Order: 23C2788
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -11
Receipt Vacuum(in Hg): -9.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	1.1	0.10	0.076		7.2	0.68	0.52	2	4/4/23 6:39	SFM
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	4/4/23 6:39	SFM
Toluene	0.90	0.10	0.057		3.4	0.38	0.22	2	4/4/23 6:39	SFM
1,2,4 Trichlorobenzene	ND	0 10	0 093	L 03	ND	0 74	0 69	2	4/4/23 6 39	SFM
1,1,1-Trichloroethane	0.28	0.10	0.079		1.5	0.55	0.43	2	4/4/23 6:39	SFM
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	4/4/23 6:39	SFM
Trichloroethylene	ND	0.10	0.067		ND	0.54	0.36	2	4/4/23 6:39	SFM
Trichlorofluoromethane (Freon 11)	0.15	0.40	0.12	J	0.84	2.2	0.66	2	4/4/23 6:39	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	4/4/23 6:39	SFM
1,2,4-Trimethylbenzene	0.42	0.10	0.044		2.1	0.49	0.22	2	4/4/23 6:39	SFM
1,3,5-Trimethylbenzene	0.12	0.10	0.053		0.57	0.49	0.26	2	4/4/23 6:39	SFM
Vinyl Acetate	ND	2.0	0.54		ND	7.0	1.9	2	4/4/23 6:39	SFM
Vinyl Chloride	0.11	0.10	0.090		0.28	0.26	0.23	2	4/4/23 6:39	SFM
m&p-Xylene	0.85	0.20	0.11		3.7	0.87	0.49	2	4/4/23 6:39	SFM
o-Xylene	0.48	0.10	0.051		2.1	0.43	0.22	2	4/4/23 6:39	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	103	70-130		4/4/23 6:39

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ANALYTICAL RESULTS

Project Location: 0S-01, 154 Garden St, Poughkeep
Date Received: 3/20/2023
Field Sample #: IA-3
Sample ID: 23C2788-02
Sample Matrix: Indoor air
Sampled: 3/17/2023 12:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1236
Canister Size: 6 liter
Flow Controller ID: 3686
Sample Type: 24 hr

Work Order: 23C2788
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -9.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	4.4	1.4	0.85		10	3.3	2.0	0.702	4/4/23 2:16	SFM
Benzene	0.25	0.035	0.027		0.81	0.11	0.085	0.702	4/4/23 2:16	SFM
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	4/4/23 2:16	SFM
Bromodichloromethane	ND	0 035	0 025		ND	0 24	0 16	0 702	4/4/23 2 16	SFM
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	4/4/23 2:16	SFM
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	4/4/23 2:16	SFM
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	4/4/23 2:16	SFM
2-Butanone (MEK)	ND	1.4	0.37		ND	4.1	1.1	0.702	4/4/23 2:16	SFM
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	4/4/23 2:16	SFM
Carbon Tetrachloride	0.072	0.035	0.028		0.45	0.22	0.18	0.702	4/4/23 2:16	SFM
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	4/4/23 2:16	SFM
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	4/4/23 2:16	SFM
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	4/4/23 2:16	SFM
Chloromethane	0.35	0.070	0.028		0.71	0.14	0.058	0.702	4/4/23 2:16	SFM
Cyclohexane	0.034	0.035	0.021	J	0.12	0.12	0.073	0.702	4/4/23 2:16	SFM
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	4/4/23 2:16	SFM
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	4/4/23 2:16	SFM
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	4/4/23 2:16	SFM
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	4/4/23 2:16	SFM
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	4/4/23 2:16	SFM
Dichlorodifluoromethane (Freon 12)	0.20	0.035	0.034		0.96	0.17	0.17	0.702	4/4/23 2:16	SFM
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	4/4/23 2:16	SFM
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	4/4/23 2:16	SFM
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	4/4/23 2:16	SFM
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	4/4/23 2:16	SFM
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	4/4/23 2:16	SFM
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	4/4/23 2:16	SFM
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	4/4/23 2:16	SFM
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	4/4/23 2:16	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	4/4/23 2:16	SFM
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	4/4/23 2:16	SFM
Ethanol	2.3	1.4	0.62	L-03	4.3	2.6	1.2	0.702	4/4/23 2:16	SFM
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.702	4/4/23 2:16	SFM
Ethylbenzene	0.052	0.035	0.020		0.23	0.15	0.089	0.702	4/4/23 2:16	SFM
4-Ethyltoluene	0.032	0.035	0.022	J	0.16	0.17	0.11	0.702	4/4/23 2:16	SFM
Heptane	0.078	0.035	0.022		0.32	0.14	0.092	0.702	4/4/23 2:16	SFM
Hexachlorobutadiene	ND	0.035	0.029	L-03	ND	0.37	0.31	0.702	4/4/23 2:16	SFM
Hexane	ND	1.4	0.18		ND	4.9	0.64	0.702	4/4/23 2:16	SFM
2-Hexanone (MBK)	0.036	0.035	0.018		0.15	0.14	0.072	0.702	4/4/23 2:16	SFM
Isopropanol	0.68	1.4	0.24	J, L-03	1.7	3.4	0.60	0.702	4/4/23 2:16	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	4/4/23 2:16	SFM
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.57	0.702	4/4/23 2:16	SFM
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.019		ND	0.14	0.077	0.702	4/4/23 2:16	SFM
Naphthalene	ND	0.035	0.026	L-03	ND	0.18	0.14	0.702	4/4/23 2:16	SFM
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	4/4/23 2:16	SFM
Styrene	0.053	0.035	0.018		0.23	0.15	0.079	0.702	4/4/23 2:16	SFM
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	4/4/23 2:16	SFM

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ANALYTICAL RESULTS

Project Location: 0S-01, 154 Garden St, Poughkeep
Date Received: 3/20/2023
Field Sample #: IA-3
Sample ID: 23C2788-02
Sample Matrix: Indoor air
Sampled: 3/17/2023 12:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1236
Canister Size: 6 liter
Flow Controller ID: 3686
Sample Type: 24 hr

Work Order: 23C2788
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -9.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.10	0.035	0.027		0.68	0.24	0.18	0.702	4/4/23 2:16	SFM
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	4/4/23 2:16	SFM
Toluene	0.43	0.035	0.020		1.6	0.13	0.076	0.702	4/4/23 2:16	SFM
1,2,4 Trichlorobenzene	ND	0 035	0 033	L 03	ND	0 26	0 24	0 702	4/4/23 2 16	SFM
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	4/4/23 2:16	SFM
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	4/4/23 2:16	SFM
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.702	4/4/23 2:16	SFM
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.041		1.2	0.79	0.23	0.702	4/4/23 2:16	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.059	0.14	0.039	J	0.45	1.1	0.30	0.702	4/4/23 2:16	SFM
1,2,4-Trimethylbenzene	0.13	0.035	0.016		0.65	0.17	0.076	0.702	4/4/23 2:16	SFM
1,3,5-Trimethylbenzene	0.028	0.035	0.019	J	0.14	0.17	0.091	0.702	4/4/23 2:16	SFM
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.702	4/4/23 2:16	SFM
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	4/4/23 2:16	SFM
m&p-Xylene	0.16	0.070	0.039		0.71	0.30	0.17	0.702	4/4/23 2:16	SFM
o-Xylene	0.062	0.035	0.018		0.27	0.15	0.078	0.702	4/4/23 2:16	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	104	70-130		4/4/23 2:16

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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
23C2788-01 [SS-3]	B336239	1.5	1	N/A	1000	400	300	04/03/23
23C2788-02 [IA-3]	B336239	1.5	1	N/A	1000	400	855	04/03/23

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 - TO-15 Prep											
Blank (B336239-BLK1)					Prepared & Analyzed: 04/03/23						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									L-03
Ethyl Acetate	ND	0.35									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									L-03
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	ND	1.4									L-03
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									L-03
Propene	ND	1.4									
Styrene	ND	0.035									

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 TO 15 Prep											
Blank (B336239-BLK1)					Prepared & Analyzed: 04/03/23						
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0 35									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									L-03
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.28*				*8.00*		*104*	*70-130*			
LCS (B336239-BS1)					Prepared & Analyzed: 04/03/23						
Acetone	4.56				5.00		91.3	70-130			
Benzene	5.02				5.00		100	70-130			
Benzyl chloride	4.87				5.00		97.3	70-130			
Bromodichloromethane	4.96				5.00		99.2	70-130			
Bromoform	4.92				5.00		98.4	70-130			
Bromomethane	4.49				5.00		89.8	70-130			
1,3-Butadiene	4.34				5.00		86.7	70-130			
2-Butanone (MEK)	4.60				5.00		92.0	70-130			
Carbon Disulfide	5.06				5.00		101	70-130			
Carbon Tetrachloride	5.27				5.00		105	70-130			
Chlorobenzene	4.78				5.00		95.6	70-130			
Chloroethane	4.73				5.00		94.6	70-130			
Chloroform	5.01				5.00		100	70-130			
Chloromethane	4.32				5.00		86.4	70-130			
Cyclohexane	4.99				5.00		99.8	70-130			
Dibromochloromethane	5.08				5.00		102	70-130			
1,2-Dibromoethane (EDB)	4.71				5.00		94.1	70-130			
1,2-Dichlorobenzene	4.26				5.00		85.2	70-130			
1,3-Dichlorobenzene	4.66				5.00		93.3	70-130			
1,4-Dichlorobenzene	4.56				5.00		91.2	70-130			
Dichlorodifluoromethane (Freon 12)	4.89				5.00		97.8	70-130			
1,1-Dichloroethane	5.16				5.00		103	70-130			
1,2-Dichloroethane	5.13				5.00		103	70-130			
1,1-Dichloroethylene	5.07				5.00		101	70-130			
cis-1,2-Dichloroethylene	4.78				5.00		95.5	70-130			
trans-1,2-Dichloroethylene	4.87				5.00		97.4	70-130			
1,2-Dichloropropane	5.07				5.00		101	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 TO 15 Prep												
LCS (B336239-BS1)					Prepared & Analyzed: 04/03/23							
cis-1,3-Dichloropropene	4.68				5.00		93.7		70-130			
trans-1,3-Dichloropropene	4.75				5.00		94.9		70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4 26				5 00		85.3		70 130			
1,4-Dioxane	4.57				5.00		91.5		70-130			
Ethanol	3 16				5 00		**63.3**	*	70 130			L 03
Ethyl Acetate	4.95				5.00		99.0		70-130			
Ethylbenzene	4.86				5.00		97.2		70-130			
4-Ethyltoluene	4.87				5.00		97.3		70-130			
Heptane	5.22				5.00		104		70-130			
Hexachlorobutadiene	3.44				5.00		**68.7**	*	70-130			L-03
Hexane	5.33				5.00		107		70-130			
2-Hexanone (MBK)	4.74				5.00		94.7		70-130			
Isopropanol	3.45				5.00		**69.0**	*	70-130			L-03
Methyl tert-Butyl Ether (MTBE)	4.66				5.00		93.2		70-130			
Methylene Chloride	4.48				5.00		89.6		70-130			
4-Methyl-2-pentanone (MIBK)	4.80				5.00		96.1		70-130			
Naphthalene	3.22				5.00		**64.3**	*	70-130			L-03
Propene	4.39				5.00		87.8		70-130			
Styrene	4.82				5.00		96.3		70-130			
1,1,2,2-Tetrachloroethane	4.62				5.00		92.3		70-130			
Tetrachloroethylene	4.70				5.00		94.0		70-130			
Tetrahydrofuran	4.76				5.00		95.1		70-130			
Toluene	4.93				5.00		98.5		70-130			
1,2,4-Trichlorobenzene	2.88				5.00		**57.5**	*	70-130			L-03
1,1,1-Trichloroethane	4.84				5.00		96.8		70-130			
1,1,2-Trichloroethane	4.97				5.00		99.4		70-130			
Trichloroethylene	5.00				5.00		99.9		70-130			
Trichlorofluoromethane (Freon 11)	4.66				5.00		93.2		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.78				5.00		95.7		70-130			
1,2,4-Trimethylbenzene	4.70				5.00		94.0		70-130			
1,3,5-Trimethylbenzene	4.94				5.00		98.9		70-130			
Vinyl Acetate	4.19				5.00		83.8		70-130			
Vinyl Chloride	4.66				5.00		93.2		70-130			
m&p-Xylene	10.3				10.0		103		70-130			
o-Xylene	5.10				5.00		102		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.42*				*8.00*		*105*		*70-130*			

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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).
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

ANALYST

TPH	Thomas P. Hnitecki
SFM	Sandra F Mateega
STATION	Report Queue Station
RJM	Raymond J. McCarthy
CMR	Catherine M. Rouleau
BRF	Brittany R. Fisk

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S076501-ICV1)			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1141026	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2751702	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2471195	14.446	100	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 (S085552-CCV1)			Lab File ID: G23A093004.D			Analyzed: 04/03/23 12:44			
Bromochloromethane (1)	1002104	8.301	1002104	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2189075	10.069	2189075	10.069	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2019966	14.434	2019966	14.434	100	60 - 140	0.0000	+/-0.50	
LCS (B336239-BS1)			Lab File ID: G23A093005.D			Analyzed: 04/03/23 13:24			
Bromochloromethane (1)	1074426	8.301	1002104	8.301	107	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2514902	10.069	2189075	10.069	115	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2234320	14.434	2019966	14.434	111	60 - 140	0.0000	+/-0.50	
Blank (B336239-BLK1)			Lab File ID: G23A093008.D			Analyzed: 04/03/23 15:33			
Bromochloromethane (1)	1036334	8.294	1002104	8.301	103	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (1)	2319458	10.069	2189075	10.069	106	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2079545	14.434	2019966	14.434	103	60 - 140	0.0000	+/-0.50	
IA-3 (23C2788-02)			Lab File ID: G23A093021.D			Analyzed: 04/04/23 02:16			
Bromochloromethane (1)	1040143	8 301	1002104	8 301	104	60 140	0 0000	+/ 0 50	
1,4-Difluorobenzene (1)	2342546	10.069	2189075	10.069	107	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2125812	14.434	2019966	14.434	105	60 - 140	0.0000	+/-0.50	
SS-3 (23C2788-01)			Lab File ID: G23A093027.D			Analyzed: 04/04/23 06:39			
Bromochloromethane (1)	1128490	8.3	1002104	8.301	113	60 - 140	-0.0010	+/-0.50	
1,4 Difluorobenzene (1)	2452837	10 075	2189075	10 069	112	60 140	0 0060	+/ 0 50	
Chlorobenzene-d5 (1)	2189053	14.433	2019966	14.434	108	60 - 140	-0.0010	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085552-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.74	1.084004	1.028356		-5.1	30
Benzene	A	5.00	4.96	0.9129288	0.905558		-0.8	30
Benzyl chloride	A	5.00	5.55	1.030942	1.143661		10.9	30
Bromodichloromethane	A	5.00	5.21	0.6953811	0.7251216		4.3	30
Bromoform	A	5.00	5.02	0.5656468	0.5681909		0.4	30
Bromomethane	A	5.00	4.51	0.6009459	0.5424331		-9.7	30
1,3-Butadiene	A	5.00	4.42	0.5443004	0.4813233		-11.6	30
2-Butanone (MEK)	A	5.00	4.59	1.507683	1.384717		-8.2	30
Carbon Disulfide	A	5.00	4.72	2.02748	1.914952		-5.6	30
Carbon Tetrachloride	A	5.00	5.34	0.5479998	0.585107		6.8	30
Chlorobenzene	A	5.00	4.86	0.8809329	0.856298		-2.8	30
Chloroethane	A	5.00	4.66	0.3452967	0.3220105		-6.7	30
Chloroform	A	5.00	4.79	1.561184	1.495069		-4.2	30
Chloromethane	A	5.00	4.36	0.6821899	0.5951366		-12.8	30
Cyclohexane	A	5.00	4.92	0.3600845	0.3545848		-1.5	30
Dibromochloromethane	A	5.00	5.10	0.6396581	0.6523207		2.0	30
1,2-Dibromoethane (EDB)	A	5.00	4.87	0.6171207	0.6011301		-2.6	30
1,2-Dichlorobenzene	A	5.00	4.74	0.6937094	0.6571651		-5.3	30
1,3-Dichlorobenzene	A	5.00	5.06	0.7409581	0.7496942		1.2	30
1,4-Dichlorobenzene	A	5.00	4.96	0.7218155	0.7157649		-0.8	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.78	1.62808	1.556234		-4.4	30
1,1-Dichloroethane	A	5.00	4.92	1.342742	1.322367		-1.5	30
1,2-Dichloroethane	A	5.00	4.94	0.9627523	0.9509576		-1.2	30
1,1-Dichloroethylene	A	5.00	4.70	1.140142	1.07151		-6.0	30
cis-1,2-Dichloroethylene	A	5.00	4.58	0.9670963	0.8859073		-8.4	30
trans-1,2-Dichloroethylene	A	5.00	4.67	1.001825	0.9361998		-6.6	30
1,2-Dichloropropane	A	5.00	5.18	0.3567989	0.3699141		3.7	30
cis-1,3-Dichloropropene	A	5.00	5.06	0.5092852	0.5154952		1.2	30
trans-1,3-Dichloropropene	A	5.00	4.99	0.4570981	0.4565552		-0.1	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	4.54	1.73998	1.579135		-9.2	30
1,4-Dioxane	A	5.00	4.88	0.1857641	0.1813434		-2.4	30
Ethanol	A	5.00	3.70	0.2343264	0.1731685		-26.1	30
Ethyl Acetate	A	5.00	5.43	0.2308163	0.2505209		8.5	30
Ethylbenzene	A	5.00	5.00	1.455024	1.456349		0.09	30
4-Ethyltoluene	A	5.00	5.15	1.413771	1.456475		3.0	30
Heptane	A	5.00	5.48	0.2850308	0.3122597		9.6	30
Hexachlorobutadiene	A	5.00	4.82	0.4677459	0.450501		-3.7	30
Hexane	A	5.00	5.23	0.8985394	0.8818789		4.5	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085552-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.12	0.7712864	0.7899864		2.4	30
Isopropanol	A	5.00	4.42	1.338902	1.183409		-11.6	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.54	1.834723	1.664321		-9.3	30
Methylene Chloride	A	5.00	4.31	0.9597215	0.8275947		-13.8	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.27	0.7726854	0.8146864		5.4	30
Naphthalene	A	5.00	4.95	1.092246	1.082192		-0.9	30
Propene	A	5.00	4.46	0.5941328	0.529866		-10.8	30
Styrene	A	5.00	4.97	0.7890752	0.7837922		-0.7	30
1,1,2,2-Tetrachloroethane	A	5.00	5.04	0.9851261	0.9934971		0.8	30
Tetrachloroethylene	A	5.00	4.67	0.457194	0.4271628		-6.6	30
Tetrahydrofuran	A	5.00	4.45	0.2957092	0.263136		-11.0	30
Toluene	A	5.00	4.88	1.15399	1.126342		-2.4	30
1,2,4-Trichlorobenzene	A	5.00	4.39	0.4973623	0.436904		-12.2	30
1,1,1-Trichloroethane	A	5.00	5.27	0.5975698	0.6294326		5.3	30
1,1,2-Trichloroethane	A	5.00	4.98	0.4162703	0.4145963		-0.4	30
Trichloroethylene	A	5.00	5.03	0.3947958	0.3972549		0.6	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.68	1.463327	1.370223		-6.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	4.64	1.432547	1.330311		-7.1	30
1,2,4-Trimethylbenzene	A	5.00	5.18	1.156019	1.19651		3.5	30
1,3,5-Trimethylbenzene	A	5.00	5.27	1.190388	1.254144		5.4	30
Vinyl Acetate	A	5.00	3.84	1.986739	1.524244		-23.3	30
Vinyl Chloride	A	5.00	4.58	0.7142115	0.6541852		-8.4	30
m&p-Xylene	A	10.0	10.6	1.129066	1.193089		5.7	30
o-Xylene	A	5.00	5.20	1.138955	1.185331		4.1	30

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

* Values outside of QC limits

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

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

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

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23C2788

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CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: NYSDEC/WSP
Address: 500 Summit Lake Dr, Ste 4SS, Valhalla, NY 10595
Phone: 914 461 2966 (dave.morelli@wsp.com)
Project Name: Standard Gauge + Coal
Project Location: DS-01, 154 Garden St Poughkeepsie NY
Project Number: R3MULTISVI / Contract # C100701
Project Manager: Dave Morelli
Con-Test Quote Name/Number: ——
Invoice Recipient: ——
Sampled By: IA/DM/SZ

Required Turnaround Time
7-Day ☐ 10-Day ☑
Due Date: Standard TAT

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other: Level 4
CLP Like Data Pkg Required: ☐
Email To: eridania.marte@wsp.com
Fax To: dave.morelli@wsp.com

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	TO-15			_" Hg			Please fill out completely, sign, date and retain the yellow copy for your records
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	m³/min L/min	Code	Liters m³				Initial Pressure	Final Pressure	Lab Receipt Pressure	Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply
01	SS-3	12:45	12:45	24		SS	6	X			29	11	9.9	For summa canister and flow controller information please refer to Con-Test's Air Media Agreement
02	IA-3	12:45	12:45	24		IA	6	X			29	9	9.5	
		↑	↑											
		3/16/23	3/17/23											

Lab Use												Summa Can ID	Flow Controller ID
												1801	3351
												1236	3686

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

	Date/Time:
Relinquished by: (signature)	3/17/2023
Received by: (signature)	Date/Time: 3-20-23 1255
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

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NEBAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

[redacted]

FedEx® Tracking

Summary Tracking Results

TRACKING ID	SHIP DATE	SHIPPER CITY, STATE	RECIPIENT CITY, STATE	STATUS	DELIVERY DATE	SCHEDULED DELIVERY DATE	SERVIC
771424727337	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G
771424727360	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G
771424727359	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G

[redacted]

OBTAIN PROOF OF DELIVERY

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FOLLOW FEDEX (https://www.fedex.com/en-us/email.html) (Https://www.facebook.com/FedEx/)
(Https://twitter.com/fedex) (https://www.instagram.com/fedex/) (https://www.linkedin.com/company/fedex)
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Log In Back-Sheet

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

Pace® PEOPLE ADVANCING SCIENCE

Client NYSDEC - WSP

Project Standard Gamet

MCP/RCP Required

Deliverable Package Requirement CAT B

Location 05-01 164 Garden St Poughkpsie NY

PWSID# (When Applicable)

Arrival Method FedEx 771424727360

Received By / Date / Time CMH 3-20-23 1255

Back-Sheet By / Date / Time TPH 3-20-23 1620

Temperature Method #

Temp < 6° C ☐ Actual Temperature

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

	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	☒	☐

Notes regarding Samples/COC outside of SOP:

COC Included: (Check all included)

Client ☒ Analysis ☒ Sampler Name ☒

Project ☒ IDs ☒ Collection Date/Time ☒

Container	#	Size	Regulator	Duration	Accessories			
Summa Cans	2	6L	2	24hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s								Regs #'s							
1	1801	9		17		25		1	3351	9		17		25	
2	1736	10		18		26		2	3686	10		18		26	
3		11		19		27		3		11		19		27	
4		12		20		28		4		12		20		28	
5		13		21		29		5		13		21		29	
6		14		22		30		6		14		22		30	
7		15		23		31		7		15		23		31	
Unused Media		8		16		24		**Pufs/TO-17's**		8		16		24	
1		9		17		25		1		9		17		25	
2		10		18		26		2		10		18		26	
3		11		19		27		3		11		19		27	
4		12		20		28		4		12		20		28	
5		13		21		29		5		13		21		29	
6		14		22		30		6		14		22		30	
7		15		23		31		7		15		23			

Air Sampling Media Certificate of Analysis

Date Analyzed: 2/15/2023 **Batch #:** 23CC0128

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1236, BC1801

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 4/5/23

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

April 5, 2023

Dave Morelli
NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595

Project Location: 0S-01, 154 Garden St, Poughkeepsie, NY
Client Job Number:
Project Number: C314131A
Laboratory Work Order Number: 23C2789

Enclosed are results of analyses for samples as received by the laboratory on March 20, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

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

NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595
ATTN: Dave Morelli

REPORT DATE: 4/5/2023

PURCHASE ORDER NUMBER: R3MULTISVI

PROJECT NUMBER: C314131A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23C2789

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

PROJECT LOCATION: 0S-01, 154 Garden St, Poughkeepsie, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IA-2	23C2789-01	Indoor air		EPA TO-15	
SS-2	23C2789-02	Sub Slab		EPA TO-15	
IA-1	23C2789-03	Indoor air		EPA TO-15	

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CASE NARRATIVE SUMMARY

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

EPA TO-15

Qualifications:

L-03 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene, Ethanol, Hexachlorobutadiene, Isopropanol, Naphthalene

23C2789-01[IA-2], 23C2789-02[SS-2], 23C2789-03[IA-1], B336239-BLK1, B336239-BS1

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

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ANALYTICAL RESULTS

Project Location: 0S-01, 154 Garden St, Poughkeep
Date Received: 3/20/2023
Field Sample #: IA-2
Sample ID: 23C2789-01
Sample Matrix: Indoor air
Sampled: 3/17/2023 12:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 2189
Canister Size: 6 liter
Flow Controller ID: 3355
Sample Type: 24 hr

Work Order: 23C2789
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

		ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	6.5	1.4	0.85		15	3.3	2.0	0.702	4/4/23 3:04	SFM
Benzene	0.25	0.035	0.027		0.79	0.11	0.085	0.702	4/4/23 3:04	SFM
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	4/4/23 3:04	SFM
Bromodichloromethane	ND	0.035	0.025		ND	0.24	0.16	0.702	4/4/23 3:04	SFM
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	4/4/23 3:04	SFM
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	4/4/23 3:04	SFM
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	4/4/23 3:04	SFM
2-Butanone (MEK)	0.75	1.4	0.37	J	2.2	4.1	1.1	0.702	4/4/23 3:04	SFM
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	4/4/23 3:04	SFM
Carbon Tetrachloride	0.072	0.035	0.028		0.45	0.22	0.18	0.702	4/4/23 3:04	SFM
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	4/4/23 3:04	SFM
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	4/4/23 3:04	SFM
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	4/4/23 3:04	SFM
Chloromethane	0.39	0.070	0.028		0.80	0.14	0.058	0.702	4/4/23 3:04	SFM
Cyclohexane	0.035	0.035	0.021		0.12	0.12	0.073	0.702	4/4/23 3:04	SFM
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	4/4/23 3:04	SFM
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	4/4/23 3:04	SFM
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	4/4/23 3:04	SFM
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	4/4/23 3:04	SFM
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	4/4/23 3:04	SFM
Dichlorodifluoromethane (Freon 12)	0.21	0.035	0.034		1.0	0.17	0.17	0.702	4/4/23 3:04	SFM
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	4/4/23 3:04	SFM
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	4/4/23 3:04	SFM
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	4/4/23 3:04	SFM
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	4/4/23 3:04	SFM
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	4/4/23 3:04	SFM
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	4/4/23 3:04	SFM
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	4/4/23 3:04	SFM
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	4/4/23 3:04	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	4/4/23 3:04	SFM
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	4/4/23 3:04	SFM
Ethanol	4.1	1.4	0.62	L-03	7.8	2.6	1.2	0.702	4/4/23 3:04	SFM
Ethyl Acetate	0.34	0.35	0.18	J	1.2	1.3	0.64	0.702	4/4/23 3:04	SFM
Ethylbenzene	0.055	0.035	0.020		0.24	0.15	0.089	0.702	4/4/23 3:04	SFM
4-Ethyltoluene	0.038	0.035	0.022		0.19	0.17	0.11	0.702	4/4/23 3:04	SFM
Heptane	0.11	0.035	0.022		0.45	0.14	0.092	0.702	4/4/23 3:04	SFM
Hexachlorobutadiene	ND	0.035	0.029	L-03	ND	0.37	0.31	0.702	4/4/23 3:04	SFM
Hexane	0.23	1.4	0.18	J	0.80	4.9	0.64	0.702	4/4/23 3:04	SFM
2-Hexanone (MBK)	0.13	0.035	0.018		0.52	0.14	0.072	0.702	4/4/23 3:04	SFM
Isopropanol	0.69	1.4	0.24	J, L-03	1.7	3.4	0.60	0.702	4/4/23 3:04	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	4/4/23 3:04	SFM
Methylene Chloride	0.18	0.35	0.16	J	0.62	1.2	0.57	0.702	4/4/23 3:04	SFM
4-Methyl-2-pentanone (MIBK)	0.042	0.035	0.019		0.17	0.14	0.077	0.702	4/4/23 3:04	SFM
Naphthalene	ND	0.035	0.026	L-03	ND	0.18	0.14	0.702	4/4/23 3:04	SFM
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	4/4/23 3:04	SFM
Styrene	0.051	0.035	0.018		0.22	0.15	0.079	0.702	4/4/23 3:04	SFM
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	4/4/23 3:04	SFM

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ANALYTICAL RESULTS

Project Location: 0S-01, 154 Garden St, Poughkeep
Date Received: 3/20/2023
Field Sample #: IA-2
Sample ID: 23C2789-01
Sample Matrix: Indoor air
Sampled: 3/17/2023 12:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 2189
Canister Size: 6 liter
Flow Controller ID: 3355
Sample Type: 24 hr

Work Order: 23C2789
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -7.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.091	0.035	0.027		0.62	0.24	0.18	0.702	4/4/23 3:04	SFM
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	4/4/23 3:04	SFM
Toluene	0.45	0.035	0.020		1.7	0.13	0.076	0.702	4/4/23 3:04	SFM
1,2,4 Trichlorobenzene	ND	0 035	0 033	L 03	ND	0 26	0 24	0 702	4/4/23 3 04	SFM
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	4/4/23 3:04	SFM
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	4/4/23 3:04	SFM
Trichloroethylene	0.025	0.035	0.024	J	0.14	0.19	0.13	0.702	4/4/23 3:04	SFM
Trichlorofluoromethane (Freon 11)	0.20	0.14	0.041		1.1	0.79	0.23	0.702	4/4/23 3:04	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.058	0.14	0.039	J	0.45	1.1	0.30	0.702	4/4/23 3:04	SFM
1,2,4-Trimethylbenzene	0.16	0.035	0.016		0.80	0.17	0.076	0.702	4/4/23 3:04	SFM
1,3,5-Trimethylbenzene	0.028	0.035	0.019	J	0.14	0.17	0.091	0.702	4/4/23 3:04	SFM
Vinyl Acetate	0.47	0.70	0.19	J	1.6	2.5	0.66	0.702	4/4/23 3:04	SFM
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	4/4/23 3:04	SFM
m&p-Xylene	0.18	0.070	0.039		0.77	0.30	0.17	0.702	4/4/23 3:04	SFM
o-Xylene	0.069	0.035	0.018		0.30	0.15	0.078	0.702	4/4/23 3:04	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	100	70-130		4/4/23 3:04

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ANALYTICAL RESULTS

Project Location: 0S-01, 154 Garden St, Poughkeep
Date Received: 3/20/2023
Field Sample #: SS-2
Sample ID: 23C2789-02
Sample Matrix: Sub Slab
Sampled: 3/17/2023 12:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 2185
Canister Size: 6 liter
Flow Controller ID: 3462
Sample Type: 24 hr

Work Order: 23C2789
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	8.7	4.0	2.4		21	9.5	5.7	2	4/4/23 7:21	SFM
Benzene	0.26	0.10	0.076		0.84	0.32	0.24	2	4/4/23 7:21	SFM
Benzyl chloride	ND	0.10	0.088		ND	0.52	0.46	2	4/4/23 7:21	SFM
Bromodichloromethane	ND	0 10	0 070		ND	0 67	0 47	2	4/4/23 7 21	SFM
Bromoform	ND	0.10	0.068		ND	1.0	0.70	2	4/4/23 7:21	SFM
Bromomethane	ND	0.10	0.067		ND	0.39	0.26	2	4/4/23 7:21	SFM
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	4/4/23 7:21	SFM
2-Butanone (MEK)	10	4.0	1.1		30	12	3.1	2	4/4/23 7:21	SFM
Carbon Disulfide	ND	1.0	0.092		ND	3.1	0.29	2	4/4/23 7:21	SFM
Carbon Tetrachloride	ND	0.10	0.080		ND	0.63	0.50	2	4/4/23 7:21	SFM
Chlorobenzene	ND	0.10	0.066		ND	0.46	0.31	2	4/4/23 7:21	SFM
Chloroethane	ND	0.10	0.089		ND	0.26	0.23	2	4/4/23 7:21	SFM
Chloroform	ND	0.10	0.095		ND	0.49	0.46	2	4/4/23 7:21	SFM
Chloromethane	ND	0.20	0.079		ND	0.41	0.16	2	4/4/23 7:21	SFM
Cyclohexane	ND	0.10	0.060		ND	0.34	0.21	2	4/4/23 7:21	SFM
Dibromochloromethane	ND	0.10	0.066		ND	0.85	0.56	2	4/4/23 7:21	SFM
1,2-Dibromoethane (EDB)	ND	0.10	0.060		ND	0.77	0.46	2	4/4/23 7:21	SFM
1,2-Dichlorobenzene	ND	0.10	0.057		ND	0.60	0.35	2	4/4/23 7:21	SFM
1,3-Dichlorobenzene	ND	0.10	0.055		ND	0.60	0.33	2	4/4/23 7:21	SFM
1,4-Dichlorobenzene	ND	0.10	0.065		ND	0.60	0.39	2	4/4/23 7:21	SFM
Dichlorodifluoromethane (Freon 12)	0.27	0.10	0.098		1.3	0.49	0.48	2	4/4/23 7:21	SFM
1,1-Dichloroethane	ND	0.10	0.087		ND	0.40	0.35	2	4/4/23 7:21	SFM
1,2-Dichloroethane	ND	0.10	0.091		ND	0.40	0.37	2	4/4/23 7:21	SFM
1,1-Dichloroethylene	ND	0.10	0.076		ND	0.40	0.30	2	4/4/23 7:21	SFM
cis-1,2-Dichloroethylene	ND	0.10	0.073		ND	0.40	0.29	2	4/4/23 7:21	SFM
trans-1,2-Dichloroethylene	ND	0.10	0.079		ND	0.40	0.31	2	4/4/23 7:21	SFM
1,2-Dichloropropane	ND	0.10	0.054		ND	0.46	0.25	2	4/4/23 7:21	SFM
cis-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.24	2	4/4/23 7:21	SFM
trans-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	4/4/23 7:21	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.098		ND	0.70	0.69	2	4/4/23 7:21	SFM
1,4-Dioxane	ND	1.0	0.083		ND	3.6	0.30	2	4/4/23 7:21	SFM
Ethanol	35	4.0	1.8	L-03	65	7.5	3.3	2	4/4/23 7:21	SFM
Ethyl Acetate	ND	1.0	0.51		ND	3.6	1.8	2	4/4/23 7:21	SFM
Ethylbenzene	0.22	0.10	0.058		0.97	0.43	0.25	2	4/4/23 7:21	SFM
4-Ethyltoluene	0.086	0.10	0.061	J	0.42	0.49	0.30	2	4/4/23 7:21	SFM
Heptane	0.16	0.10	0.064		0.66	0.41	0.26	2	4/4/23 7:21	SFM
Hexachlorobutadiene	ND	0.10	0.082	L-03	ND	1.1	0.88	2	4/4/23 7:21	SFM
Hexane	ND	4.0	0.52		ND	14	1.8	2	4/4/23 7:21	SFM
2-Hexanone (MBK)	1.5	0.10	0.050		6.0	0.41	0.20	2	4/4/23 7:21	SFM
Isopropanol	1.3	4.0	0.69	L-03, J	3.2	9.8	1.7	2	4/4/23 7:21	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.077		ND	0.36	0.28	2	4/4/23 7:21	SFM
Methylene Chloride	ND	1.0	0.46		ND	3.5	1.6	2	4/4/23 7:21	SFM
4-Methyl-2-pentanone (MIBK)	0.080	0.10	0.053	J	0.33	0.41	0.22	2	4/4/23 7:21	SFM
Naphthalene	ND	0.10	0.075	L-03	ND	0.52	0.40	2	4/4/23 7:21	SFM
Propene	ND	4.0	0.88		ND	6.9	1.5	2	4/4/23 7:21	SFM
Styrene	ND	0.10	0.053		ND	0.43	0.22	2	4/4/23 7:21	SFM
1,1,2,2-Tetrachloroethane	ND	0.10	0.054		ND	0.69	0.37	2	4/4/23 7:21	SFM

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ANALYTICAL RESULTS

Project Location: 0S-01, 154 Garden St, Poughkeep
Date Received: 3/20/2023
Field Sample #: SS-2
Sample ID: 23C2789-02
Sample Matrix: Sub Slab
Sampled: 3/17/2023 12:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 2185
Canister Size: 6 liter
Flow Controller ID: 3462
Sample Type: 24 hr

Work Order: 23C2789
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -7.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	ND	0.10	0.076		ND	0.68	0.52	2	4/4/23 7:21	SFM
Tetrahydrofuran	ND	1.0	0.16		ND	2.9	0.48	2	4/4/23 7:21	SFM
Toluene	0.88	0.10	0.057		3.3	0.38	0.22	2	4/4/23 7:21	SFM
1,2,4 Trichlorobenzene	ND	0 10	0 093	L 03	ND	0 74	0 69	2	4/4/23 7 21	SFM
1,1,1-Trichloroethane	0.080	0.10	0.079	J	0.44	0.55	0.43	2	4/4/23 7:21	SFM
1,1,2-Trichloroethane	ND	0.10	0.070		ND	0.55	0.38	2	4/4/23 7:21	SFM
Trichloroethylene	ND	0.10	0.067		ND	0.54	0.36	2	4/4/23 7:21	SFM
Trichlorofluoromethane (Freon 11)	0.15	0.40	0.12	J	0.87	2.2	0.66	2	4/4/23 7:21	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.11		ND	3.1	0.85	2	4/4/23 7:21	SFM
1,2,4-Trimethylbenzene	0.35	0.10	0.044		1.7	0.49	0.22	2	4/4/23 7:21	SFM
1,3,5-Trimethylbenzene	0.096	0.10	0.053	J	0.47	0.49	0.26	2	4/4/23 7:21	SFM
Vinyl Acetate	ND	2.0	0.54		ND	7.0	1.9	2	4/4/23 7:21	SFM
Vinyl Chloride	0.096	0.10	0.090	J	0.25	0.26	0.23	2	4/4/23 7:21	SFM
m&p-Xylene	0.80	0.20	0.11		3.5	0.87	0.49	2	4/4/23 7:21	SFM
o-Xylene	0.44	0.10	0.051		1.9	0.43	0.22	2	4/4/23 7:21	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	101	70-130		4/4/23 7:21

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ANALYTICAL RESULTS

Project Location: 0S-01, 154 Garden St, Poughkeep
Date Received: 3/20/2023
Field Sample #: IA-1
Sample ID: 23C2789-03
Sample Matrix: Indoor air
Sampled: 3/17/2023 11:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1808
Canister Size: 6 liter
Flow Controller ID: 3734
Sample Type: 24 hr

Work Order: 23C2789
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -5.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	7.2	1.4	0.85		17	3.3	2.0	0.702	4/4/23 3:51	SFM
Benzene	0.24	0.035	0.027		0.76	0.11	0.085	0.702	4/4/23 3:51	SFM
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.702	4/4/23 3:51	SFM
Bromodichloromethane	ND	0 035	0 025		ND	0 24	0 16	0 702	4/4/23 3 51	SFM
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.702	4/4/23 3:51	SFM
Bromomethane	ND	0.035	0.023		ND	0.14	0.091	0.702	4/4/23 3:51	SFM
1,3-Butadiene	ND	0.035	0.029		ND	0.078	0.065	0.702	4/4/23 3:51	SFM
2-Butanone (MEK)	0.63	1.4	0.37	J	1.8	4.1	1.1	0.702	4/4/23 3:51	SFM
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.702	4/4/23 3:51	SFM
Carbon Tetrachloride	0.071	0.035	0.028		0.45	0.22	0.18	0.702	4/4/23 3:51	SFM
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.702	4/4/23 3:51	SFM
Chloroethane	ND	0.035	0.031		ND	0.093	0.082	0.702	4/4/23 3:51	SFM
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.702	4/4/23 3:51	SFM
Chloromethane	0.42	0.070	0.028		0.86	0.14	0.058	0.702	4/4/23 3:51	SFM
Cyclohexane	0.037	0.035	0.021		0.13	0.12	0.073	0.702	4/4/23 3:51	SFM
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.702	4/4/23 3:51	SFM
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.702	4/4/23 3:51	SFM
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.702	4/4/23 3:51	SFM
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.702	4/4/23 3:51	SFM
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.702	4/4/23 3:51	SFM
Dichlorodifluoromethane (Freon 12)	0.24	0.035	0.034		1.2	0.17	0.17	0.702	4/4/23 3:51	SFM
1,1-Dichloroethane	ND	0.035	0.031		ND	0.14	0.12	0.702	4/4/23 3:51	SFM
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.702	4/4/23 3:51	SFM
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.702	4/4/23 3:51	SFM
cis-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.10	0.702	4/4/23 3:51	SFM
trans-1,2-Dichloroethylene	ND	0.035	0.028		ND	0.14	0.11	0.702	4/4/23 3:51	SFM
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.088	0.702	4/4/23 3:51	SFM
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	4/4/23 3:51	SFM
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.702	4/4/23 3:51	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.035		ND	0.25	0.24	0.702	4/4/23 3:51	SFM
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.702	4/4/23 3:51	SFM
Ethanol	4.8	1.4	0.62	L-03	9.1	2.6	1.2	0.702	4/4/23 3:51	SFM
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.64	0.702	4/4/23 3:51	SFM
Ethylbenzene	0.062	0.035	0.020		0.27	0.15	0.089	0.702	4/4/23 3:51	SFM
4-Ethyltoluene	0.042	0.035	0.022		0.21	0.17	0.11	0.702	4/4/23 3:51	SFM
Heptane	0.084	0.035	0.022		0.35	0.14	0.092	0.702	4/4/23 3:51	SFM
Hexachlorobutadiene	ND	0.035	0.029	L-03	ND	0.37	0.31	0.702	4/4/23 3:51	SFM
Hexane	ND	1.4	0.18		ND	4.9	0.64	0.702	4/4/23 3:51	SFM
2-Hexanone (MBK)	0.086	0.035	0.018		0.35	0.14	0.072	0.702	4/4/23 3:51	SFM
Isopropanol	0.87	1.4	0.24	L-03, J	2.1	3.4	0.60	0.702	4/4/23 3:51	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.098	0.702	4/4/23 3:51	SFM
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.57	0.702	4/4/23 3:51	SFM
4-Methyl-2-pentanone (MIBK)	0.036	0.035	0.019		0.15	0.14	0.077	0.702	4/4/23 3:51	SFM
Naphthalene	0.031	0.035	0.026	L-03, J	0.16	0.18	0.14	0.702	4/4/23 3:51	SFM
Propene	ND	1.4	0.31		ND	2.4	0.53	0.702	4/4/23 3:51	SFM
Styrene	0.049	0.035	0.018		0.21	0.15	0.079	0.702	4/4/23 3:51	SFM
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.702	4/4/23 3:51	SFM

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ANALYTICAL RESULTS

Project Location: 0S-01, 154 Garden St, Poughkeep
Date Received: 3/20/2023
Field Sample #: IA-1
Sample ID: 23C2789-03
Sample Matrix: Indoor air
Sampled: 3/17/2023 11:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1808
Canister Size: 6 liter
Flow Controller ID: 3734
Sample Type: 24 hr

Work Order: 23C2789
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -5.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv				ug/m3				Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag/Qual**	**Results**	**RL**	**MDL**	**Dilution**	**Analyzed**	**Analyst**
Tetrachloroethylene	0.10	0.035	0.027		0.68	0.24	0.18	0.702	4/4/23 3:51	SFM
Tetrahydrofuran	ND	0.35	0.058		ND	1.0	0.17	0.702	4/4/23 3:51	SFM
Toluene	0.48	0.035	0.020		1.8	0.13	0.076	0.702	4/4/23 3:51	SFM
1,2,4 Trichlorobenzene	ND	0 035	0 033	L 03	ND	0 26	0 24	0 702	4/4/23 3 51	SFM
1,1,1-Trichloroethane	ND	0.035	0.028		ND	0.19	0.15	0.702	4/4/23 3:51	SFM
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.702	4/4/23 3:51	SFM
Trichloroethylene	0.059	0.035	0.024		0.32	0.19	0.13	0.702	4/4/23 3:51	SFM
Trichlorofluoromethane (Freon 11)	0.20	0.14	0.041		1.1	0.79	0.23	0.702	4/4/23 3:51	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.061	0.14	0.039	J	0.47	1.1	0.30	0.702	4/4/23 3:51	SFM
1,2,4-Trimethylbenzene	0.14	0.035	0.016		0.68	0.17	0.076	0.702	4/4/23 3:51	SFM
1,3,5-Trimethylbenzene	0.034	0.035	0.019	J	0.17	0.17	0.091	0.702	4/4/23 3:51	SFM
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.702	4/4/23 3:51	SFM
Vinyl Chloride	ND	0.035	0.032		ND	0.090	0.081	0.702	4/4/23 3:51	SFM
m&p-Xylene	0.21	0.070	0.039		0.90	0.30	0.17	0.702	4/4/23 3:51	SFM
o-Xylene	0.079	0.035	0.018		0.34	0.15	0.078	0.702	4/4/23 3:51	SFM

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	103	70-130		4/4/23 3:51

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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
23C2789-01 [IA-2]	B336239	1.5	1	N/A	1000	400	855	04/03/23
23C2789-02 [SS-2]	B336239	1.5	1	N/A	1000	400	300	04/03/23
23C2789-03 [IA-1]	B336239	1.5	1	N/A	1000	400	855	04/03/23

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 - TO-15 Prep											
Blank (B336239-BLK1)					Prepared & Analyzed: 04/03/23						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035									
1,4-Dioxane	ND	0.35									
Ethanol	ND	1.4									L-03
Ethyl Acetate	ND	0.35									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									L-03
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	ND	1.4									L-03
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Naphthalene	ND	0.035									L-03
Propene	ND	1.4									
Styrene	ND	0.035									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 TO 15 Prep											
Blank (B336239-BLK1)					Prepared & Analyzed: 04/03/23						
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0 35									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									L-03
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.28*				*8.00*		*104*	*70-130*			
LCS (B336239-BS1)					Prepared & Analyzed: 04/03/23						
Acetone	4.56				5.00		91.3	70-130			
Benzene	5.02				5.00		100	70-130			
Benzyl chloride	4.87				5.00		97.3	70-130			
Bromodichloromethane	4.96				5.00		99.2	70-130			
Bromoform	4.92				5.00		98.4	70-130			
Bromomethane	4.49				5.00		89.8	70-130			
1,3-Butadiene	4.34				5.00		86.7	70-130			
2-Butanone (MEK)	4.60				5.00		92.0	70-130			
Carbon Disulfide	5.06				5.00		101	70-130			
Carbon Tetrachloride	5.27				5.00		105	70-130			
Chlorobenzene	4.78				5.00		95.6	70-130			
Chloroethane	4.73				5.00		94.6	70-130			
Chloroform	5.01				5.00		100	70-130			
Chloromethane	4.32				5.00		86.4	70-130			
Cyclohexane	4.99				5.00		99.8	70-130			
Dibromochloromethane	5.08				5.00		102	70-130			
1,2-Dibromoethane (EDB)	4.71				5.00		94.1	70-130			
1,2-Dichlorobenzene	4.26				5.00		85.2	70-130			
1,3-Dichlorobenzene	4.66				5.00		93.3	70-130			
1,4-Dichlorobenzene	4.56				5.00		91.2	70-130			
Dichlorodifluoromethane (Freon 12)	4.89				5.00		97.8	70-130			
1,1-Dichloroethane	5.16				5.00		103	70-130			
1,2-Dichloroethane	5.13				5.00		103	70-130			
1,1-Dichloroethylene	5.07				5.00		101	70-130			
cis-1,2-Dichloroethylene	4.78				5.00		95.5	70-130			
trans-1,2-Dichloroethylene	4.87				5.00		97.4	70-130			
1,2-Dichloropropane	5.07				5.00		101	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336239 TO 15 Prep												
LCS (B336239-BS1)					Prepared & Analyzed: 04/03/23							
cis-1,3-Dichloropropene	4.68				5.00		93.7		70-130			
trans-1,3-Dichloropropene	4.75				5.00		94.9		70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4 26				5 00		85.3		70 130			
1,4-Dioxane	4.57				5.00		91.5		70-130			
Ethanol	3 16				5 00		**63.3**	*	70 130			L 03
Ethyl Acetate	4.95				5.00		99.0		70-130			
Ethylbenzene	4.86				5.00		97.2		70-130			
4-Ethyltoluene	4.87				5.00		97.3		70-130			
Heptane	5.22				5.00		104		70-130			
Hexachlorobutadiene	3.44				5.00		**68.7**	*	70-130			L-03
Hexane	5.33				5.00		107		70-130			
2-Hexanone (MBK)	4.74				5.00		94.7		70-130			
Isopropanol	3.45				5.00		**69.0**	*	70-130			L-03
Methyl tert-Butyl Ether (MTBE)	4.66				5.00		93.2		70-130			
Methylene Chloride	4.48				5.00		89.6		70-130			
4-Methyl-2-pentanone (MIBK)	4.80				5.00		96.1		70-130			
Naphthalene	3.22				5.00		**64.3**	*	70-130			L-03
Propene	4.39				5.00		87.8		70-130			
Styrene	4.82				5.00		96.3		70-130			
1,1,2,2-Tetrachloroethane	4.62				5.00		92.3		70-130			
Tetrachloroethylene	4.70				5.00		94.0		70-130			
Tetrahydrofuran	4.76				5.00		95.1		70-130			
Toluene	4.93				5.00		98.5		70-130			
1,2,4-Trichlorobenzene	2.88				5.00		**57.5**	*	70-130			L-03
1,1,1-Trichloroethane	4.84				5.00		96.8		70-130			
1,1,2-Trichloroethane	4.97				5.00		99.4		70-130			
Trichloroethylene	5.00				5.00		99.9		70-130			
Trichlorofluoromethane (Freon 11)	4.66				5.00		93.2		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.78				5.00		95.7		70-130			
1,2,4-Trimethylbenzene	4.70				5.00		94.0		70-130			
1,3,5-Trimethylbenzene	4.94				5.00		98.9		70-130			
Vinyl Acetate	4.19				5.00		83.8		70-130			
Vinyl Chloride	4.66				5.00		93.2		70-130			
m&p-Xylene	10.3				10.0		103		70-130			
o-Xylene	5.10				5.00		102		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.42*				*8.00*		*105*		*70-130*			

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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).
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

ANALYST

TPH	Thomas P. Hnitecki
SFM	Sandra F Mateega
STATION	Report Queue Station
RJM	Raymond J. McCarthy
CMR	Catherine M. Rouleau
BRF	Brittany R. Fisk

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S076501-ICV1)			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1141026	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2751702	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2471195	14.446	100	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 (S085552-CCV1)			Lab File ID: G23A093004.D			Analyzed: 04/03/23 12:44			
Bromochloromethane (1)	1002104	8.301	1002104	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2189075	10.069	2189075	10.069	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2019966	14.434	2019966	14.434	100	60 - 140	0.0000	+/-0.50	
LCS (B336239-BS1)			Lab File ID: G23A093005.D			Analyzed: 04/03/23 13:24			
Bromochloromethane (1)	1074426	8.301	1002104	8.301	107	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2514902	10.069	2189075	10.069	115	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2234320	14.434	2019966	14.434	111	60 - 140	0.0000	+/-0.50	
Blank (B336239-BLK1)			Lab File ID: G23A093008.D			Analyzed: 04/03/23 15:33			
Bromochloromethane (1)	1036334	8.294	1002104	8.301	103	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (1)	2319458	10.069	2189075	10.069	106	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2079545	14.434	2019966	14.434	103	60 - 140	0.0000	+/-0.50	
IA-2 (23C2789-01)			Lab File ID: G23A093022.D			Analyzed: 04/04/23 03:04			
Bromochloromethane (1)	937866	8 294	1002104	8 301	94	60 140	0 0070	+/ 0 50	
1,4-Difluorobenzene (1)	2024612	10.068	2189075	10.069	92	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	1885082	14.433	2019966	14.434	93	60 - 140	-0.0010	+/-0.50	
IA-1 (23C2789-03)			Lab File ID: G23A093023.D			Analyzed: 04/04/23 03:51			
Bromochloromethane (1)	991731	8.301	1002104	8.301	99	60 - 140	0.0000	+/-0.50	
1,4 Difluorobenzene (1)	2182709	10 069	2189075	10 069	100	60 140	0 0000	+/ 0 50	
Chlorobenzene-d5 (1)	2031314	14.434	2019966	14.434	101	60 - 140	0.0000	+/-0.50	
SS-2 (23C2789-02)			Lab File ID: G23A093028.D			Analyzed: 04/04/23 07:21			
Bromochloromethane (1)	1251963	8.301	1002104	8.301	125	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2740060	10.069	2189075	10.069	125	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2505930	14.434	2019966	14.434	124	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085552-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.74	1.084004	1.028356		-5.1	30
Benzene	A	5.00	4.96	0.9129288	0.905558		-0.8	30
Benzyl chloride	A	5.00	5.55	1.030942	1.143661		10.9	30
Bromodichloromethane	A	5.00	5.21	0.6953811	0.7251216		4.3	30
Bromoform	A	5.00	5.02	0.5656468	0.5681909		0.4	30
Bromomethane	A	5.00	4.51	0.6009459	0.5424331		-9.7	30
1,3-Butadiene	A	5.00	4.42	0.5443004	0.4813233		-11.6	30
2-Butanone (MEK)	A	5.00	4.59	1.507683	1.384717		-8.2	30
Carbon Disulfide	A	5.00	4.72	2.02748	1.914952		-5.6	30
Carbon Tetrachloride	A	5.00	5.34	0.5479998	0.585107		6.8	30
Chlorobenzene	A	5.00	4.86	0.8809329	0.856298		-2.8	30
Chloroethane	A	5.00	4.66	0.3452967	0.3220105		-6.7	30
Chloroform	A	5.00	4.79	1.561184	1.495069		-4.2	30
Chloromethane	A	5.00	4.36	0.6821899	0.5951366		-12.8	30
Cyclohexane	A	5.00	4.92	0.3600845	0.3545848		-1.5	30
Dibromochloromethane	A	5.00	5.10	0.6396581	0.6523207		2.0	30
1,2-Dibromoethane (EDB)	A	5.00	4.87	0.6171207	0.6011301		-2.6	30
1,2-Dichlorobenzene	A	5.00	4.74	0.6937094	0.6571651		-5.3	30
1,3-Dichlorobenzene	A	5.00	5.06	0.7409581	0.7496942		1.2	30
1,4-Dichlorobenzene	A	5.00	4.96	0.7218155	0.7157649		-0.8	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.78	1.62808	1.556234		-4.4	30
1,1-Dichloroethane	A	5.00	4.92	1.342742	1.322367		-1.5	30
1,2-Dichloroethane	A	5.00	4.94	0.9627523	0.9509576		-1.2	30
1,1-Dichloroethylene	A	5.00	4.70	1.140142	1.07151		-6.0	30
cis-1,2-Dichloroethylene	A	5.00	4.58	0.9670963	0.8859073		-8.4	30
trans-1,2-Dichloroethylene	A	5.00	4.67	1.001825	0.9361998		-6.6	30
1,2-Dichloropropane	A	5.00	5.18	0.3567989	0.3699141		3.7	30
cis-1,3-Dichloropropene	A	5.00	5.06	0.5092852	0.5154952		1.2	30
trans-1,3-Dichloropropene	A	5.00	4.99	0.4570981	0.4565552		-0.1	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	4.54	1.73998	1.579135		-9.2	30
1,4-Dioxane	A	5.00	4.88	0.1857641	0.1813434		-2.4	30
Ethanol	A	5.00	3.70	0.2343264	0.1731685		-26.1	30
Ethyl Acetate	A	5.00	5.43	0.2308163	0.2505209		8.5	30
Ethylbenzene	A	5.00	5.00	1.455024	1.456349		0.09	30
4-Ethyltoluene	A	5.00	5.15	1.413771	1.456475		3.0	30
Heptane	A	5.00	5.48	0.2850308	0.3122597		9.6	30
Hexachlorobutadiene	A	5.00	4.82	0.4677459	0.450501		-3.7	30
Hexane	A	5.00	5.23	0.8985394	0.8818789		4.5	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085552-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.12	0.7712864	0.7899864		2.4	30
Isopropanol	A	5.00	4.42	1.338902	1.183409		-11.6	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.54	1.834723	1.664321		-9.3	30
Methylene Chloride	A	5.00	4.31	0.9597215	0.8275947		-13.8	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.27	0.7726854	0.8146864		5.4	30
Naphthalene	A	5.00	4.95	1.092246	1.082192		-0.9	30
Propene	A	5.00	4.46	0.5941328	0.529866		-10.8	30
Styrene	A	5.00	4.97	0.7890752	0.7837922		-0.7	30
1,1,2,2-Tetrachloroethane	A	5.00	5.04	0.9851261	0.9934971		0.8	30
Tetrachloroethylene	A	5.00	4.67	0.457194	0.4271628		-6.6	30
Tetrahydrofuran	A	5.00	4.45	0.2957092	0.263136		-11.0	30
Toluene	A	5.00	4.88	1.15399	1.126342		-2.4	30
1,2,4-Trichlorobenzene	A	5.00	4.39	0.4973623	0.436904		-12.2	30
1,1,1-Trichloroethane	A	5.00	5.27	0.5975698	0.6294326		5.3	30
1,1,2-Trichloroethane	A	5.00	4.98	0.4162703	0.4145963		-0.4	30
Trichloroethylene	A	5.00	5.03	0.3947958	0.3972549		0.6	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.68	1.463327	1.370223		-6.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	4.64	1.432547	1.330311		-7.1	30
1,2,4-Trimethylbenzene	A	5.00	5.18	1.156019	1.19651		3.5	30
1,3,5-Trimethylbenzene	A	5.00	5.27	1.190388	1.254144		5.4	30
Vinyl Acetate	A	5.00	3.84	1.986739	1.524244		-23.3	30
Vinyl Chloride	A	5.00	4.58	0.7142115	0.6541852		-8.4	30
m&p-Xylene	A	10.0	10.6	1.129066	1.193089		5.7	30
o-Xylene	A	5.00	5.20	1.138955	1.185331		4.1	30

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

* Values outside of QC limits

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

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

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

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23C 2789
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Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD (AIR)

Company Name: NYSDEC / WSP
Address: 500 Summit Lake Dr, Ste 450, Valhalla, NY
Phone: 914 461 2966 (dave.morelli@wsp.com) 10595
Project Name: Standard Gage + Can
Project Location: OS-01, 1st Garden St, Dwight Complex, NY
Project Number: R3MULTISVI / Contract # C100701
Project Manager: Dave Morelli
Con-Test Quote Name/Number: —
Invoice Recipient: —
Sampled By: IA/DM/SZ

Requested Turnaround Time:
7-Day ☐ 10-Day ☑
Due Date: Standard TAT

Rush Approval Required:
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery:
Format: PDF ☑ EXCEL ☑
Other: Level 4
CLP like Data Pkg Required: ☐
Email To: eridania.marte@wsp.com
Fax To: dave.morelli@wsp.com

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	5-10-23				– " Hg			Please fill out completely, sign, date and retain the yellow copy for your records	
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	☐ m³/min ☐ L/min	Code	☒ Liters ☐ m³					Initial Pressure	Final Pressure	Lab Receipt Pressure	Summa Can ID	Flow Controller ID
01	IA-2	12:00	12:00	24		IA	6	X				29	9	27	2189	3355
02	SS-2	12:00	12:00	24		SS	6	X				29.5	8	26	2185	3462
03	IA-1	11:35	11:35	24		IA	6	X				29.5	7	50	1808	3734
		↑	↑													
		3/16/23	3/17/23													

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

	Date/Time:
Relinquished by: (signature)	3/17/23
Received by: (signature)	3-20-23 1255
Relinquished by: (signature)	
Received by: (signature)	
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements:
MA: ____
CT: ____
Other: ____

Special Requirements:
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

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NEBAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

[redacted]

FedEx® Tracking

Summary Tracking Results

TRACKING ID	SHIP DATE	SHIPPER CITY, STATE	RECIPIENT CITY, STATE	STATUS	DELIVERY DATE	SCHEDULED DELIVERY DATE	SERVIC
771424727337	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G
771424727360	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G
771424727359	3/17/2023	VALHALLA, NY	East Longmeadow, MA	Delivered	3/20/2023 12:55 pm		FedEx G

[redacted]

OBTAIN PROOF OF DELIVERY

OUR COMPANY

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Our Portfolio(https://www.fedex.com/en-us/about/company-structure.html)
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39 Spruce St.
East Longmeadow, MA. 01028
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Log In Back-Sheet

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

Pace® PEOPLE ADVANCING SCIENCE

Client NYSDEC-WSP

Project Standard Gage + Coal

MCP/RCP Required

Deliverable Package Requirement CATB

Location 09-01 154 Graham St Poughkipsie NY

PWSID# (When Applicable)

Arrival Method FedEx 771424727337

Received By / Date / Time CMH 3-20-23 1255

Back-Sheet By / Date / Time TPH 3-20-23 1540

Temperature Method #

Temp < 6° C ☐ Actual Temperature

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

	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	3	6L	3	24hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s		8		16		24	
1	2189	9		17		25	
2	2185	10		18		26	
3	1808	11		19		27	
4		12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Unused Media		8		16		24	
1		9		17		25	
2		10		18		26	
3		11		19		27	
4		12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Regs #'s		8		16		24	
1	3355	9		17		25	
2	3462	10		18		26	
3	3734	11		19		27	
4		12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Pufs/TO-17's		8		16		24	
1		9		17		25	
2		10		18		26	
3		11		19		27	
4		12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Air Sampling Media Certificate of Analysis

Date Analyzed: 2/15/2023 **Batch #:** 23CC0132

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC2185, BC2189

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 4/5/23

Air Sampling Media Certificate of Analysis

Date Analyzed: 11/28/2022 **Batch #:** 22CC1011

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1808

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	0.04	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	0.04	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	0.04	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	0.03	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	0.06	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	0.06	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 4/5/23

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

October 3, 2023

Dave Morelli
NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595

Project Location: 154 Garden St, Poughkeepsie, NY
Client Job Number:
Project Number: C314131A
Laboratory Work Order Number: 23I2909

Enclosed are results of analyses for samples as received by the laboratory on September 22, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

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

NYDEC_WSP - Buffalo, NY
500 Summit Lake Drive, Suite 450
Valhalla, NY 10595
ATTN: Dave Morelli

REPORT DATE: 10/3/2023

PURCHASE ORDER NUMBER: R3MULTISVI

PROJECT NUMBER: C314131A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23I2909

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

PROJECT LOCATION: 154 Garden St, Poughkeepsie, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-B1(4-5)20230920	23I2909-01	Soil		SM 2540G	
				SW-846 8260D	
MW-B2(4-5)20230920	23I2909-02	Soil		SM 2540G	
				SW-846 8260D	

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CASE NARRATIVE SUMMARY

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

SM 2540G

Qualifications:

H-06 Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

% Solids

23I2909-01[MW-B1(4-5)20230920], 23I2909-02[MW-B2(4-5)20230920]

SW-846 8260D

Qualifications:

V-34 Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

23I2909-01[MW-B1(4-5)20230920], 23I2909-02[MW-B2(4-5)20230920], B352975-BLK1, B352975-BS1, B352975-BSD1, S093891-CCV1

V-35 Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Acetone

B352975-BS1, B352975-BSD1, S093891-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

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

Project Location 154 Garden St, Poughkeepsie, NY Sample Description Work Order 23I2909

Date Received: 9/22/2023

Field Sample #: MW-B1(4-5)20230920 Sampled 9/20/2023 09 50

Sample ID: 23I2909-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.0096	0.094	0.0085	mg/Kg dry	1	J	SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Acrylonitrile	ND	0.0057	0.00084	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00094	0.00064	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Benzene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Bromobenzene	ND	0.0019	0.00044	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Bromochloromethane	ND	0.0019	0.00074	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Bromodichloromethane	ND	0.0019	0.00049	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Bromoform	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Bromomethane	ND	0.0094	0.0016	mg/Kg dry	1	V-34	SW-846 8260D	9/25/23	9/25/23 9:26	MFF
2-Butanone (MEK)	ND	0.038	0.0059	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
tert-Butyl Alcohol (TBA)	ND	0.094	0.037	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
n-Butylbenzene	0.00081	0.0019	0.00062	mg/Kg dry	1	J	SW-846 8260D	9/25/23	9/25/23 9:26	MFF
sec-Butylbenzene	ND	0.0019	0.00089	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
tert-Butylbenzene	ND	0.0019	0.00081	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00094	0.00074	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Carbon Disulfide	ND	0.0094	0.0076	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Carbon Tetrachloride	ND	0.0019	0.00074	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Chlorobenzene	ND	0.0019	0.00053	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Chlorodibromomethane	ND	0.00094	0.00060	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Chloroethane	ND	0.019	0.0010	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Chloroform	ND	0.0038	0.00059	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Chloromethane	ND	0.0094	0.00093	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
2-Chlorotoluene	ND	0.0019	0.00048	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
4-Chlorotoluene	ND	0.0019	0.00042	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,2-Dibromoethane (EDB)	ND	0.00094	0.00072	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Dibromomethane	ND	0.0019	0.00065	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,2-Dichlorobenzene	0.0067	0.0019	0.00050	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00052	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
trans-1,4-Dichloro-2-butene	ND	0.0038	0.00058	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.00097	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,1-Dichloroethane	ND	0.0019	0.00065	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,2-Dichloroethane	ND	0.0019	0.00063	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,1-Dichloroethylene	ND	0.0038	0.00077	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00060	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00069	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,2-Dichloropropane	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,3-Dichloropropane	ND	0.00094	0.00047	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
2,2-Dichloropropane	ND	0.0019	0.00073	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,1-Dichloropropene	ND	0.0019	0.00084	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
cis-1,3-Dichloropropene	ND	0.00094	0.00053	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
trans-1,3-Dichloropropene	ND	0.00094	0.00058	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF

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Project Location 154 Garden St, Poughkeepsie, NY Sample Description Work Order 23I2909

Date Received: 9/22/2023

Field Sample #: MW-B1(4-5)20230920 Sampled 9/20/2023 09 50

Sample ID: 23I2909-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	0.019	0.00077	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Diisopropyl Ether (DIPE)	ND	0.00094	0.00064	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,4-Dioxane	ND	0.094	0.043	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Ethylbenzene	ND	0.0019	0.00056	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Hexachlorobutadiene	ND	0.0019	0.00079	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
2-Hexanone (MBK)	ND	0.019	0.0047	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00059	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Methyl Acetate	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	0.00063	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Methyl Cyclohexane	ND	0.0019	0.00073	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Methylene Chloride	ND	0.019	0.00091	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0042	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Naphthalene	ND	0.0094	0.00068	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
n-Propylbenzene	ND	0.0019	0.00045	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Styrene	ND	0.0019	0.00047	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	0.00051	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,1,2,2-Tetrachloroethane	ND	0.00094	0.00052	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Tetrachloroethylene	ND	0.0019	0.00079	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Tetrahydrofuran	ND	0.0094	0.0034	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Toluene	ND	0.0019	0.00064	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,2,3-Trichlorobenzene	ND	0.0038	0.00053	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,3,5-Trichlorobenzene	ND	0.0019	0.00054	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00072	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,1,2-Trichloroethane	ND	0.0019	0.00050	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Trichloroethylene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0094	0.00070	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,2,3-Trichloropropane	ND	0.0019	0.00084	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0094	0.00081	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,2,4-Trimethylbenzene	ND	0.0019	0.00072	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
1,3,5-Trimethylbenzene	ND	0.0019	0.00055	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
Vinyl Chloride	ND	0.0094	0.00070	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
m+p Xylene	ND	0.0038	0.0013	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF
o-Xylene	ND	0.0019	0.00053	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:26	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.8	70-130		9/25/23 9:26
Toluene-d8	94.4	70-130		9/25/23 9:26
4-Bromofluorobenzene	89.0	70-130		9/25/23 9:26

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Project Location 154 Garden St, Poughkeepsie, NY Sample Description Work Order 23I2909

Date Received: 9/22/2023

Field Sample #: MW-B1(4-5)20230920 Sampled 9/20/2023 09 50

Sample ID: 23I2909-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.0		% Wt	1	H-06	SM 2540G	10/2/23	10/2/23 16:32	AV

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Project Location 154 Garden St, Poughkeepsie, NY Sample Description Work Order 23I2909

Date Received: 9/22/2023

Field Sample #: MW-B2(4-5)20230920 Sampled 9/20/2023 13 40

Sample ID: 23I2909-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.085	0.0077	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Acrylonitrile	ND	0.0051	0.00076	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00085	0.00058	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Benzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Bromobenzene	ND	0.0017	0.00039	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Bromochloromethane	ND	0.0017	0.00066	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Bromodichloromethane	ND	0.0017	0.00044	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Bromoform	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Bromomethane	ND	0.0085	0.0015	mg/Kg dry	1	V-34	SW-846 8260D	9/25/23	9/25/23 9:51	MFF
2-Butanone (MEK)	ND	0.034	0.0053	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
tert-Butyl Alcohol (TBA)	ND	0.085	0.034	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
n-Butylbenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
sec-Butylbenzene	ND	0.0017	0.00080	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
tert-Butylbenzene	ND	0.0017	0.00073	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00085	0.00067	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Carbon Disulfide	ND	0.0085	0.0068	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Carbon Tetrachloride	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Chlorobenzene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Chlorodibromomethane	ND	0.00085	0.00054	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Chloroethane	ND	0.017	0.00094	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Chloroform	ND	0.0034	0.00053	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Chloromethane	ND	0.0085	0.00084	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
2-Chlorotoluene	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
4-Chlorotoluene	ND	0.0017	0.00038	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,2-Dibromoethane (EDB)	ND	0.00085	0.00065	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Dibromomethane	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00045	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00047	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
trans-1,4-Dichloro-2-butene	ND	0.0034	0.00052	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00088	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,1-Dichloroethane	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,2-Dichloroethane	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,1-Dichloroethylene	ND	0.0034	0.00070	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
cis-1,2-Dichloroethylene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,2-Dichloropropane	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,3-Dichloropropane	ND	0.00085	0.00042	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
2,2-Dichloropropane	ND	0.0017	0.00066	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,1-Dichloropropene	ND	0.0017	0.00075	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
cis-1,3-Dichloropropene	ND	0.00085	0.00048	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
trans-1,3-Dichloropropene	ND	0.00085	0.00052	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF

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Project Location 154 Garden St, Poughkeepsie, NY Sample Description Work Order 23I2909

Date Received: 9/22/2023

Field Sample #: MW-B2(4-5)20230920 Sampled 9/20/2023 13 40

Sample ID: 23I2909-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	0.017	0.00070	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Diisopropyl Ether (DIPE)	ND	0.00085	0.00058	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,4-Dioxane	ND	0.085	0.039	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Ethylbenzene	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Hexachlorobutadiene	ND	0.0017	0.00071	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
2-Hexanone (MBK)	ND	0.017	0.0043	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Methyl Acetate	ND	0.0017	0.0012	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	0.00057	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Methyl Cyclohexane	ND	0.0017	0.00066	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Methylene Chloride	ND	0.017	0.00081	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0037	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Naphthalene	ND	0.0085	0.00061	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
n-Propylbenzene	ND	0.0017	0.00041	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Styrene	ND	0.0017	0.00042	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	0.00046	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.00085	0.00047	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Tetrachloroethylene	ND	0.0017	0.00071	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Tetrahydrofuran	ND	0.0085	0.0030	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Toluene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,2,3-Trichlorobenzene	ND	0.0034	0.00048	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,3,5-Trichlorobenzene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00065	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00045	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Trichloroethylene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0085	0.00063	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00075	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0085	0.00073	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00065	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
Vinyl Chloride	ND	0.0085	0.00063	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
m+p Xylene	ND	0.0034	0.0012	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF
o-Xylene	ND	0.0017	0.00047	mg/Kg dry	1		SW-846 8260D	9/25/23	9/25/23 9:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.2	70-130		9/25/23 9:51
Toluene-d8	95.0	70-130		9/25/23 9:51
4-Bromofluorobenzene	93.1	70-130		9/25/23 9:51

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Project Location 154 Garden St, Poughkeepsie, NY Sample Description Work Order 23I2909

Date Received: 9/22/2023

Field Sample #: MW-B2(4-5)20230920 Sampled 9/20/2023 13 40

Sample ID: 23I2909-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1	H-06	SM 2540G	10/2/23	10/2/23 16:32	AV

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
23I2909-01 [MW-B1(4-5)20230920]	B353693	10/02/23
23I2909-02 [MW-B2(4-5)20230920]	B353693	10/02/23

Prep Method: SW-846 5035-SW-846 8260D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23I2909-01 [MW-B1(4-5)20230920]	B352975	6.09	10.0	09/25/23
23I2909-02 [MW-B2(4-5)20230920]	B352975	6.37	10.0	09/25/23

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352975 - SW-846 5035										
Blank (B352975 BLK1)				Prepared & Analyzed: 09/25/23						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0 0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B352975 - SW-846 5035											
Blank (B352975 BLK1)				Prepared & Analyzed: 09/25/23							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet								
Methyl Cyclohexane	ND	0.0020	mg/Kg wet								
Methylene Chloride	ND	0.020	mg/Kg wet								
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet								
Naphthalene	ND	0 010	mg/Kg wet								
n-Propylbenzene	ND	0.0020	mg/Kg wet								
Styrene	ND	0.0020	mg/Kg wet								
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet								
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Tetrahydrofuran	ND	0.010	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0040	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0470*		mg/Kg wet	0.0500		94.0	70-130				
Surrogate: Toluene-d8	*0.0476*		mg/Kg wet	0.0500		95.1	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0467*		mg/Kg wet	0.0500		93.4	70-130				
LCS (B352975-BS1)				Prepared & Analyzed: 09/25/23							
Acetone	0.173	0.10	mg/Kg wet	0.200		86.7	70-160			V-35	†
Acrylonitrile	0.0200	0.0060	mg/Kg wet	0.0200		100	70-130				
tert-Amyl Methyl Ether (TAME)	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130				
Benzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130				
Bromobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130				
Bromochloromethane	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130				
Bromodichloromethane	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130				
Bromoform	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130				
Bromomethane	0.0179	0.010	mg/Kg wet	0.0200		89.5	40-130			V-34	†
2-Butanone (MEK)	0.203	0.040	mg/Kg wet	0.200		101	70-160				†
tert-Butyl Alcohol (TBA)	0.191	0.10	mg/Kg wet	0.200		95.5	40-130				†
n-Butylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130				
sec-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130				
tert-Butylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130				
Carbon Disulfide	0.197	0.010	mg/Kg wet	0.200		98.3	70-130				
Carbon Tetrachloride	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130				
Chlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130				
Chlorodibromomethane	0.0192	0.0010	mg/Kg wet	0.0200		95.9	70-130				
Chloroethane	0.0181	0.020	mg/Kg wet	0.0200		90.4	70-130			J	
Chloroform	0.0198	0.0040	mg/Kg wet	0.0200		98.8	70-130				

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B352975 - SW-846 5035											
LCS (B352975 BS1)				Prepared & Analyzed: 09/25/23							
Chloromethane	0.0173	0.010	mg/Kg wet	0.0200		86.3	70-130				
2-Chlorotoluene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130				
4-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0215	0.0020	mg/Kg wet	0 0200		108	70 130				
1,2 Dibromoethane (EDB)	0 0201	0 0010	mg/Kg wet	0.0200		100	70-130				
Dibromomethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130				
1,2-Dichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130				
1,3-Dichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130				
1,4-Dichlorobenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130				
trans-1,4-Dichloro-2-butene	0.0211	0.0040	mg/Kg wet	0.0200		106	70-130				
Dichlorodifluoromethane (Freon 12)	0.0168	0.020	mg/Kg wet	0.0200		83.9	40-160			J	†
1,1-Dichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130				
1,2-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130				
1,1-Dichloroethylene	0.0168	0.0040	mg/Kg wet	0.0200		84.1	70-130				
cis-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130				
trans-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130				
1,2-Dichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130				
1,3-Dichloropropane	0.0199	0.0010	mg/Kg wet	0.0200		99.6	70-130				
2,2-Dichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130				
1,1-Dichloropropene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130				
cis-1,3-Dichloropropene	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130				
trans-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		98.9	70-130				
Diethyl Ether	0.0174	0.020	mg/Kg wet	0.0200		86.8	70-130			J	
Diisopropyl Ether (DIPE)	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130				
1,4-Dioxane	0.221	0.10	mg/Kg wet	0.200		110	40-160				†
Ethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130				
Hexachlorobutadiene	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-160				
2-Hexanone (MBK)	0.213	0.020	mg/Kg wet	0.200		106	70-160				†
Isopropylbenzene (Cumene)	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130				
p-Isopropyltoluene (p-Cymene)	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130				
Methyl Acetate	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0188	0.0040	mg/Kg wet	0.0200		94.1	70-130				
Methyl Cyclohexane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130				
Methylene Chloride	0.0178	0.020	mg/Kg wet	0.0200		89.0	40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.206	0.020	mg/Kg wet	0.200		103	70-160				†
Naphthalene	0.0196	0.010	mg/Kg wet	0.0200		98.0	40-130				†
n-Propylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130				
Styrene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130				
1,1,1,2-Tetrachloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130				
1,1,2,2-Tetrachloroethane	0.0193	0.0010	mg/Kg wet	0.0200		96.5	70-130				
Tetrachloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130				
Tetrahydrofuran	0.0215	0.010	mg/Kg wet	0.0200		107	70-130				
Toluene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130				
1,2,3-Trichlorobenzene	0.0178	0.0040	mg/Kg wet	0.0200		88.9	70-130				
1,2,4-Trichlorobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130				
1,3,5-Trichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130				
1,1,1-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130				
1,1,2-Trichloroethane	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130				
Trichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130				
Trichlorofluoromethane (Freon 11)	0.0161	0.010	mg/Kg wet	0.0200		80.4	70-130				
1,2,3-Trichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130				

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B352975 - SW-846 5035											
LCS (B352975 BS1)				Prepared & Analyzed: 09/25/23							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0194	0.010	mg/Kg wet	0.0200		96.9	70-130				
1,2,4-Trimethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130				
1,3,5-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0 0200		99 2	70 130				
Vinyl Chloride	0 0201	0 010	mg/Kg wet	0.0200		100	40-130				†
m+p Xylene	0.0385	0.0040	mg/Kg wet	0.0400		96.4	70-130				
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0473*		mg/Kg wet	0.0500		94.6	70-130				
Surrogate: Toluene-d8	*0.0481*		mg/Kg wet	0.0500		96.1	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0467*		mg/Kg wet	0.0500		93.4	70-130				
LCS Dup (B352975-BSD1)				Prepared & Analyzed: 09/25/23							
Acetone	0.174	0.10	mg/Kg wet	0.200		87.0	70-160	0.368	25	V-35	†
Acrylonitrile	0.0207	0.0060	mg/Kg wet	0.0200		103	70-130	3.14	25		
tert-Amyl Methyl Ether (TAME)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130	2.90	25		
Benzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	3.34	25		
Bromobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130	1.42	25		
Bromochloromethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	1.30	25		
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130	2.80	25		
Bromoform	0.0175	0.0020	mg/Kg wet	0.0200		87.6	70-130	7.05	25		
Bromomethane	0.0169	0.010	mg/Kg wet	0.0200		84.7	40-130	5.51	25	V-34	†
2-Butanone (MEK)	0.198	0.040	mg/Kg wet	0.200		99.1	70-160	2.26	25		†
tert-Butyl Alcohol (TBA)	0.189	0.10	mg/Kg wet	0.200		94.3	40-130	1.26	25		†
n-Butylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	1.88	25		
sec-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130	2.93	25		
tert-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-160	2.99	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0194	0.0010	mg/Kg wet	0.0200		96.9	70-130	3.55	25		
Carbon Disulfide	0.187	0.010	mg/Kg wet	0.200		93.6	70-130	4.91	25		
Carbon Tetrachloride	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	1.90	25		
Chlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130	1.41	25		
Chlorodibromomethane	0.0189	0.0010	mg/Kg wet	0.0200		94.5	70-130	1.47	25		
Chloroethane	0.0168	0.020	mg/Kg wet	0.0200		84.2	70-130	7.10	25	J	
Chloroform	0.0191	0.0040	mg/Kg wet	0.0200		95.3	70-130	3.61	25		
Chloromethane	0.0166	0.010	mg/Kg wet	0.0200		83.0	70-130	3.90	25		
2-Chlorotoluene	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130	4.49	25		
4-Chlorotoluene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130	1.79	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	1.75	25		
1,2-Dibromoethane (EDB)	0.0195	0.0010	mg/Kg wet	0.0200		97.7	70-130	2.83	25		
Dibromomethane	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	2.00	25		
1,2-Dichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	1.19	25		
1,3-Dichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130	2.67	25		
1,4-Dichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130	1.01	25		
trans-1,4-Dichloro-2-butene	0.0203	0.0040	mg/Kg wet	0.0200		102	70-130	3.86	25		
Dichlorodifluoromethane (Freon 12)	0.0156	0.020	mg/Kg wet	0.0200		78.2	40-160	7.03	25	J	†
1,1-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	1.60	25		
1,2-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130	0.105	25		
1,1-Dichloroethylene	0.0159	0.0040	mg/Kg wet	0.0200		79.4	70-130	5.75	25		
cis-1,2-Dichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130	6.62	25		
trans-1,2-Dichloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130	0.984	25		
1,2-Dichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	5.05	25		
1,3-Dichloropropane	0.0198	0.0010	mg/Kg wet	0.0200		98.8	70-130	0.806	25		
2,2-Dichloropropane	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130	5.26	25		
1,1-Dichloropropene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	4.78	25		

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B352975 - SW-846 5035											
LCS Dup (B352975 BSD1)				Prepared & Analyzed: 09/25/23							
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		98.9	70-130	4.83	25		
trans-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.4	70-130	0.507	25		
Diethyl Ether	0.0162	0.020	mg/Kg wet	0.0200		81.1	70-130	6.79	25	J	
Diisopropyl Ether (DIPE)	0.0198	0.0010	mg/Kg wet	0 0200		98 9	70 130	5 31	25		
1,4 Dioxane	0 201	0 10	mg/Kg wet	0.200		101	40-160	9.09	50		† ‡
Ethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	3.72	25		
Hexachlorobutadiene	0.0165	0.0020	mg/Kg wet	0.0200		82.6	70-160	7.12	25		
2-Hexanone (MBK)	0.211	0.020	mg/Kg wet	0.200		105	70-160	0.945	25		†
Isopropylbenzene (Cumene)	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	0.821	25		
p-Isopropyltoluene (p-Cymene)	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130	4.72	25		
Methyl Acetate	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	10.4	25		
Methyl tert-Butyl Ether (MTBE)	0.0187	0.0040	mg/Kg wet	0.0200		93.5	70-130	0.640	25		
Methyl Cyclohexane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	6.17	25		
Methylene Chloride	0.0172	0.020	mg/Kg wet	0.0200		85.8	40-160	3.66	25	J	†
4-Methyl-2-pentanone (MIBK)	0.203	0.020	mg/Kg wet	0.200		102	70-160	1.52	25		†
Naphthalene	0.0192	0.010	mg/Kg wet	0.0200		96.2	40-130	1.85	25		†
n-Propylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	4.53	25		
Styrene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	2.22	25		
1,1,1,2-Tetrachloroethane	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130	2.88	25		
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.7	70-130	0.832	25		
Tetrachloroethylene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	4.09	25		
Tetrahydrofuran	0.0253	0.010	mg/Kg wet	0.0200		126	70-130	16.3	25		
Toluene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130	7.05	25		
1,2,3-Trichlorobenzene	0.0177	0.0040	mg/Kg wet	0.0200		88.3	70-130	0.677	25		
1,2,4-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130	1.78	25		
1,3,5-Trichlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.8	70-130	3.10	25		
1,1,1-Trichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130	3.81	25		
1,1,2-Trichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	3.57	25		
Trichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130	0.633	25		
Trichlorofluoromethane (Freon 11)	0.0153	0.010	mg/Kg wet	0.0200		76.5	70-130	4.97	25		
1,2,3-Trichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	2.49	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0183	0.010	mg/Kg wet	0.0200		91.6	70-130	5.62	25		
1,2,4-Trimethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130	1.60	25		
1,3,5-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	4.33	25		
Vinyl Chloride	0.0187	0.010	mg/Kg wet	0.0200		93.4	40-130	7.32	25		†
m+p Xylene	0.0373	0.0040	mg/Kg wet	0.0400		93.3	70-130	3.22	25		
o-Xylene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130	5.05	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0447*		mg/Kg wet	0.0500		89.3	70-130				
Surrogate: Toluene-d8	*0.0477*		mg/Kg wet	0.0500		95.4	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0470*		mg/Kg wet	0.0500		94.0	70-130				

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

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.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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

ANALYST

STATION	Report Queue Station
RJM	Raymond J. McCarthy
MFF	Mark F Flahive
LA	Luis D. Arroyo
AV	Alexander M. Voisine

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Soil	
Acetone	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
Dibromomethane	NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
trans-1,4-Dichloro-2-butene	NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
Diethyl Ether	ME
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

Pace Analytical

Fax: 612-607-6344

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/ RM

Company Name: NYSDEC/WSP
Address: 500 Summit Lake Dr, Ste 450, Valhalla, NY
Phone: 914 461 2966 (dave.morelli@wsp.com)
Project Name: Standard Gage & Coal
Project Location: Off-Site Monitoring Wells (154 Garden St Poughkeepsie, NY)
Project Number: C314131A
Project Manager: Dave Morelli
Pace Analytical Quote Name/Number: R3MULTISUI/Contract #C100701
Invoice Recipient: NYSDEC
Sampled By:

7-Day ☐ 10-Day ☑
Due Date: Standard TAT

1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Format: PDF ☑ EXCEL ☑
Other: Level 4
CLP like Data Pkg Required: ☐
Email To: christa.baker@wsp.com
Fax To #: dave.morelli@wsp.com

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	~~Beginning~~ Date/~~Time~~	~~Ending~~ ~~Date~~/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260 Full List	4	MT	V	# of Containers / [2] Preservation Code / [3] Container Code	Field Filtered / Lab to Filter	Field Filtered / Lab to Filter
1	MW-B1(4-5)20230920	9/20/23	09:50		✓	S		X						
2	MW-B2(4-9)20230920	9/20/23	13:40		✓	S		X						

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 9/20/2023	
Received by: (signature)	Date/Time: 9/21/23 1145	AAL
Relinquished by: (signature)	Date/Time: 9/21/23 1340	
Received by: (signature) Paul Mazzella	Date/Time: 9/21/23 1640	
Relinquished by: (signature) Paul Mazzella	Date/Time: 9/21/23	
Received by: (signature)	Date/Time: 9/21/23 2020	
	9/22/23 0330	9/22/23 07:00

AWQ STDS ☐ NY TOGS ☐
NYC Sewer Discharge ☐ NY CP-51 ☑
Part 360 GW (Landfill) ☐
NY Restricted Use ☑
NY Unrestricted Use ☑
NY Part 375 ☑

Enhanced Data Package ☑
NYSDEC EQuIS EDD ☐
EQuIS (Standard) EDD ☐
NY Regulatory EDD ☐
NY Regs Hits-Only EDD ☐

ASP B

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
Chromatogram ☐
AIHA-LAP,LLC ☐

PCB ONLY
Soxhlet ☐
Non Soxhlet ☐

9/22/23

Page 20 of 23

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client NYSDEC WSP

Project Stanard Gage and Coal

MCP/RCP Required NA

Deliverable Package Requirement NA

Location Off-Site monitoring Wells

PWSID# (When Applicable) NA

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time LA 9/22/23 905

Back-Sheet By / Date / Time LA 9/22/23 1049

Temperature Method Gun #5

Temp ✓ < 6° C Actual Temperature 3.0

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	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☐

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample																				
16oz Amb/Clear	Soils Jars (Circle Amb/Clear)																			
8oz Amb/Clear																				
4oz Amb/Clear																				
2oz Amb/Clear																				
Unpreserved	Ambers	1 Liter																		
HCL																				
Sulfuric																				
Sulfuric		250mL																		
Phosphoric																				
HCl																				
Unpreserved		100mL																		
Unpreserved	Plastics	1 Liter																		
Sulfuric																				
Unpreserved		500mL																		
Sulfuric																				
Unpreserved		250mL																		
Trizma																				
Sulfuric																				
Nitric																				
NaOH																				
Ammonium Acetate																				
NaOH/Zinc																				
Unpreserved	VOA Vials																			
HCl																				
MeOH																				
D.I. Water																				
BiSulfate																				
Col/Bact	Other / Fill in																			

Login - Work Order Review Checklist

Work Order Number:

Reviewed By:

1. Project tab
   - [x] a. Work Order logged in under correct Client.
   - [x] b. Work Order logged in under correct Project.
   - [x] c. Work Order is addressed to Client Project Manager on COC
   - [x] d. Project Number and PO# on COC are correct.
   - [x] e. Chain-of-Custody (COC) is scanned correctly.
   - [x] f. User-Fields section contains all information indicated on COC.
     - i. MCP/RCP needed.
     - ii. Category B Deliverables
     - iii. Project Location correctly entered.
     - iv. PWSID#
     - v. Priority for Laboratory
     - vi. Project Manager (PM) Comments
2. Receipt Tab
   - [x] a. Date Received matches the COC.
   - [x] b. Temperature in Element matches COC & Back sheet.
   - [x] c. Turnaround Time (TAT) is logged in as indicated on COC.
   - [x] d. Tracking Number – Entered if sample received via shipment.
   - [x] e. Condition Section matches sample receipt back sheet.
   - [x] f. SDG identifier matches Work Order number.
3. Samples Tab
   - [x] a. Confirm that sample analysis TAT matches the work order TAT.
   - [x] b. Sample IDs match the COC.
   - [x] c. Lab Matrix, Report Matrix, and Sample Type reviewed with COC.
   - [x] d. Sample dates and times match the COC.
   - [x] e. Analysis/Compound requested for each sample matches the COC.
   - [x] f. If provided, enter depths under the Location tab with the correct units.
   - [x] g. Project/Analysis notes have been noted in the comment section.
   - [ ] h. For air samples - summa can, regulator and air volume information entered.

PHOENIX
Environmental Laboratories, Inc.

Monday, May 13, 2024

Attn: David Morelli
WSP USA
500 Summit Lake Drive Suite 450
Valhalla, NY 10595

Project ID: STANDARD GAGE & COAL STORAGE OS-01
SDG ID: GCQ64221
Sample ID#s: CQ64221 - CQ64226

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.

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

Sincerely yours,

Phyllis Shiller

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client:

Project: STANDARD GAGE & COAL STORAGE OS-01

Laboratory Project: GCQ64221

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

May 13, 2024

SDG I.D.: GCQ64221

STANDARD GAGE & COAL STORAGE OS-01

Methodology Summary

Volatile Organic Compounds:

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed.Update III, Method 8260D and Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 (Methods 624) as printed in 40CFR part 136.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

May 13, 2024

SDG I.D.: GCQ64221

STANDARD GAGE & COAL STORAGE OS-01

Laboratory Chronicle

The samples in this delivery group were received at 2.5°C.

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CQ64221	Volatiles	04/30/24	05/03/24	05/03/24	MH	Y
CQ64222	Client MS/MSD	04/30/24	05/06/24	05/06/24		Y
CQ64222	Volatiles	04/30/24	05/06/24	05/06/24	MH	Y
CQ64223	Volatiles	04/30/24	05/03/24	05/03/24	MH	Y
CQ64224	Volatiles	04/30/24	05/03/24	05/03/24	MH	Y
CQ64225	Volatiles	04/30/24	05/03/24	05/03/24	MH	Y
CQ64226	Volatiles	04/30/24	05/03/24	05/03/24	MH	Y

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

May 13, 2024

SDG I.D.: GCQ64221

8260 Volatile Organics:
1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/FID method 504 or 8011 to achieve this criteria.

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

May 13, 2024

SDG I.D.: GCQ64221

Project ID: STANDARD GAGE & COAL STORAGE OS-01

Client Id	Lab Id	Matrix
MW-B1-20240430 (1)	CQ64221	GROUND WATER
MW-B2-20240430 (1)	CQ64222	GROUND WATER
W-1-20240430 (1)	CQ64223	GROUND WATER
W-2-20240430 (1)	CQ64224	GROUND WATER
FD-20240430 (1)	CQ64225	GROUND WATER
TB-20240430 (1)	CQ64226	GROUND WATER

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2024

FOR: Attn: David Morelli
WSP USA
500 Summit Lake Drive Suite 450
Valhalla, NY 10595

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/30/24	13:32
Location Code:	WSP-R3SVIMULTI	Received by:	CP	05/02/24	17:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ64221
Phoenix ID: CQ64221

Project ID: STANDARD GAGE & COAL STORAGE OS-01
Client ID: MW-B1-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2-Hexanone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	

Project ID: STANDARD GAGE & COAL STORAGE OS-01 Phoenix I.D.: CQ64221

Client ID: MW-B1-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Acrolein	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Acrylonitrile	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromoform	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromomethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chlorobenzene	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloroform	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloromethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dibromomethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Ethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	05/03/24	MH	SW8260D	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
m&p-Xylene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Methylene chloride	ND	3.0	1.0	ug/L	1	05/03/24	MH	SW8260D	
Naphthalene	ND	1.0	1.0	ug/L	1	05/03/24	MH	SW8260D	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
o-Xylene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Styrene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	1
Toluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
Trichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Vinyl chloride	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	05/03/24	MH	70 - 130 %	
% Bromofluorobenzene	91			%	1	05/03/24	MH	70 - 130 %	
% Dibromofluoromethane	100			%	1	05/03/24	MH	70 - 130 %	

Project ID: STANDARD GAGE & COAL STORAGE OS-01 Phoenix I.D.: CQ64221
Client ID: MW-B1-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	102			%	1	05/03/24	MH	70 - 130 %

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
May 13, 2024
Reviewed and Released by: Alejandro Paredes, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2024

FOR: Attn: David Morelli
WSP USA
500 Summit Lake Drive Suite 450
Valhalla, NY 10595

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/30/24	13:32
Location Code:	WSP-R3SVIMULTI	Received by:	CP	05/02/24	17:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ64221
Phoenix ID: CQ64222

Project ID: STANDARD GAGE & COAL STORAGE OS-01
Client ID: MW-B2-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Client MS/MSD	Completed					05/06/24			
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	05/06/24	MH	SW8260D	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	05/06/24	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
2-Hexanone	ND	2.5	2.5	ug/L	1	05/06/24	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	

Project ID: STANDARD GAGE & COAL STORAGE OS-01 Phoenix I.D.: CQ64222

Client ID: MW-B2-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	05/06/24	MH	SW8260D	
Acetone	ND	5.0	2.5	ug/L	1	05/06/24	MH	SW8260D	
Acrolein	ND	5.0	2.5	ug/L	1	05/06/24	MH	SW8260D	
Acrylonitrile	ND	5.0	2.5	ug/L	1	05/06/24	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	05/06/24	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Bromoform	ND	5.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Bromomethane	ND	5.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Chlorobenzene	ND	5.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Chloroethane	ND	5.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Chloroform	ND	5.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Chloromethane	ND	5.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/06/24	MH	SW8260D	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Dibromomethane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Ethylbenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	05/06/24	MH	SW8260D	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
m&p-Xylene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	05/06/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Methylene chloride	ND	3.0	1.0	ug/L	1	05/06/24	MH	SW8260D	
Naphthalene	ND	1.0	1.0	ug/L	1	05/06/24	MH	SW8260D	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
o-Xylene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Styrene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	05/06/24	MH	SW8260D	1
Toluene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/06/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	05/06/24	MH	SW8260D	
Trichloroethene	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
Vinyl chloride	ND	1.0	0.25	ug/L	1	05/06/24	MH	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	05/06/24	MH	70 - 130 %	
% Bromofluorobenzene	91			%	1	05/06/24	MH	70 - 130 %	

Ver 2

Project ID: STANDARD GAGE & COAL STORAGE OS-01 Phoenix I.D.: CQ64222
Client ID: MW-B2-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	105			%	1	05/06/24	MH	70 - 130 %
% Toluene-d8	102			%	1	05/06/24	MH	70 - 130 %

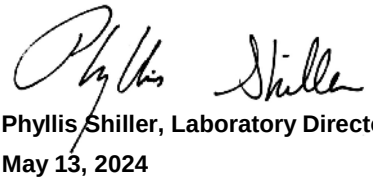
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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



Phyllis Shiller, Laboratory Director

May 13, 2024

Reviewed and Released by: Alejandro Paredes, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2024

FOR: Attn: David Morelli
WSP USA
500 Summit Lake Drive Suite 450
Valhalla, NY 10595

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/30/24	13:32
Location Code:	WSP-R3SVIMULTI	Received by:	CP	05/02/24	17:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ64221
Phoenix ID: CQ64223

Project ID: STANDARD GAGE & COAL STORAGE OS-01
Client ID: W-1-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2-Hexanone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	

Ver 2

Project ID: STANDARD GAGE & COAL STORAGE OS-01 Phoenix I.D.: CQ64223

Client ID: W-1-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Acrolein	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Acrylonitrile	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromoform	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromomethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chlorobenzene	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloroform	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloromethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dibromomethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Ethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	05/03/24	MH	SW8260D	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
m&p-Xylene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Methylene chloride	ND	3.0	1.0	ug/L	1	05/03/24	MH	SW8260D	
Naphthalene	ND	1.0	1.0	ug/L	1	05/03/24	MH	SW8260D	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
o-Xylene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Styrene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	1
Toluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
Trichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Vinyl chloride	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	99			%	1	05/03/24	MH	70 - 130 %	
% Bromofluorobenzene	89			%	1	05/03/24	MH	70 - 130 %	
% Dibromofluoromethane	99			%	1	05/03/24	MH	70 - 130 %	

Ver 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101			%	1	05/03/24	MH	70 - 130 %

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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



Phyllis Shiller, Laboratory Director

May 13, 2024

Reviewed and Released by: Alejandro Paredes, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2024

FOR: Attn: David Morelli
WSP USA
500 Summit Lake Drive Suite 450
Valhalla, NY 10595

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/30/24	13:32
Location Code:	WSP-R3SVIMULTI	Received by:	CP	05/02/24	17:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ64221
Phoenix ID: CQ64224

Project ID: STANDARD GAGE & COAL STORAGE OS-01
Client ID: W-2-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2-Hexanone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	

Project ID: STANDARD GAGE & COAL STORAGE OS-01 Phoenix I.D.: CQ64224

Client ID: W-2-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Acrolein	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Acrylonitrile	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromoform	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromomethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chlorobenzene	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloroform	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloromethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dibromomethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Ethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	05/03/24	MH	SW8260D	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
m&p-Xylene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Methylene chloride	ND	3.0	1.0	ug/L	1	05/03/24	MH	SW8260D	
Naphthalene	ND	1.0	1.0	ug/L	1	05/03/24	MH	SW8260D	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
o-Xylene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Styrene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	1
Toluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
Trichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Vinyl chloride	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	05/03/24	MH	70 - 130 %	
% Bromofluorobenzene	90			%	1	05/03/24	MH	70 - 130 %	
% Dibromofluoromethane	100			%	1	05/03/24	MH	70 - 130 %	

Ver 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101			%	1	05/03/24	MH	70 - 130 %

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director
May 13, 2024
Reviewed and Released by: Alejandro Paredes, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2024

FOR: Attn: David Morelli
WSP USA
500 Summit Lake Drive Suite 450
Valhalla, NY 10595

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/30/24	13:32
Location Code:	WSP-R3SVIMULTI	Received by:	CP	05/02/24	17:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ64221
Phoenix ID: CQ64225

Project ID: STANDARD GAGE & COAL STORAGE OS-01
Client ID: FD-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2-Hexanone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	

Project ID: STANDARD GAGE & COAL STORAGE OS-01 Phoenix I.D.: CQ64225

Client ID: FD-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Acrolein	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Acrylonitrile	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromoform	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromomethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chlorobenzene	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloroform	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloromethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dibromomethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Ethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	05/03/24	MH	SW8260D	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
m&p-Xylene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Methylene chloride	ND	3.0	1.0	ug/L	1	05/03/24	MH	SW8260D	
Naphthalene	ND	1.0	1.0	ug/L	1	05/03/24	MH	SW8260D	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
o-Xylene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Styrene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	1
Toluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
Trichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Vinyl chloride	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	102			%	1	05/03/24	MH	70 - 130 %	
% Bromofluorobenzene	91			%	1	05/03/24	MH	70 - 130 %	
% Dibromofluoromethane	104			%	1	05/03/24	MH	70 - 130 %	

Ver 2

Project ID: STANDARD GAGE & COAL STORAGE OS-01 Phoenix I.D.: CQ64225
Client ID: FD-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101			%	1	05/03/24	MH	70 - 130 %

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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Phyllis Shiller, Laboratory Director
May 13, 2024
Reviewed and Released by: Alejandro Paredes, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2024

FOR: Attn: David Morelli
WSP USA
500 Summit Lake Drive Suite 450
Valhalla, NY 10595

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/30/24	13:32
Location Code:	WSP-R3SVIMULTI	Received by:	CP	05/02/24	17:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ64221
Phoenix ID: CQ64226

Project ID: STANDARD GAGE & COAL STORAGE OS-01
Client ID: TB-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	05/03/24	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
2-Hexanone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	

Project ID: STANDARD GAGE & COAL STORAGE OS-01 Phoenix I.D.: CQ64226

Client ID: TB-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Acrolein	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Acrylonitrile	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromoform	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Bromomethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chlorobenzene	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloroethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloroform	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Chloromethane	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dibromomethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Ethylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	05/03/24	MH	SW8260D	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
m&p-Xylene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Methylene chloride	ND	3.0	1.0	ug/L	1	05/03/24	MH	SW8260D	
Naphthalene	ND	1.0	1.0	ug/L	1	05/03/24	MH	SW8260D	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
o-Xylene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Styrene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	05/03/24	MH	SW8260D	1
Toluene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/03/24	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	05/03/24	MH	SW8260D	
Trichloroethene	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
Vinyl chloride	ND	1.0	0.25	ug/L	1	05/03/24	MH	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	05/03/24	MH	70 - 130 %	
% Bromofluorobenzene	89			%	1	05/03/24	MH	70 - 130 %	
% Dibromofluoromethane	103			%	1	05/03/24	MH	70 - 130 %	

Ver 2

Project ID: STANDARD GAGE & COAL STORAGE OS-01 Phoenix I.D.: CQ64226
Client ID: TB-20240430 (1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100			%	1	05/03/24	MH	70 - 130 %

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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

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



Phyllis Shiller, Laboratory Director

May 13, 2024

Reviewed and Released by: Alejandro Paredes, Project Manager

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

NY # 11301

QA/QC Report

May 13, 2024

QA/QC Data

SDG I.D.: GCQ64221

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 730287 (ug/L), QC Sample No: CQ64222 (CQ64222)											
Volatiles - Ground Water											
1,1,1,2-Tetrachloroethane	ND	1.0	108	115	6.3	103	110	6.6	70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	103	109	5.7	108	115	6.3	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	104	106	1.9	93	101	8.2	70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	100	111	10.4	100	98	2.0	70 - 130	30	
1,1-Dichloroethane	ND	1.0	101	105	3.9	101	107	5.8	70 - 130	30	
1,1-Dichloroethene	ND	1.0	112	117	4.4	110	123	11.2	70 - 130	30	
1,1-Dichloropropene	ND	1.0	103	111	7.5	108	119	9.7	70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	125	132	5.4	109	125	13.7	70 - 130	30	I
1,2,3-Trichloropropane	ND	1.0	99	102	3.0	90	94	4.3	70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	118	122	3.3	106	120	12.4	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	108	114	5.4	105	112	6.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	123	127	3.2	99	114	14.1	70 - 130	30	
1,2-Dibromoethane	ND	1.0	109	113	3.6	98	106	7.8	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	104	107	2.8	98	105	6.9	70 - 130	30	
1,2-Dichloroethane	ND	1.0	97	103	6.0	95	100	5.1	70 - 130	30	
1,2-Dichloropropane	ND	1.0	103	105	1.9	97	105	7.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	109	113	3.6	107	114	6.3	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	103	109	5.7	100	107	6.8	70 - 130	30	
1,3-Dichloropropane	ND	1.0	105	108	2.8	96	105	9.0	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	104	108	3.8	99	105	5.9	70 - 130	30	
2,2-Dichloropropane	ND	1.0	106	110	3.7	96	103	7.0	70 - 130	30	
2-Chlorotoluene	ND	1.0	108	110	1.8	105	109	3.7	70 - 130	30	
2-Hexanone	ND	5.0	108	110	1.8	93	105	12.1	70 - 130	30	
2-Isopropyltoluene	ND	1.0	111	115	3.5	109	117	7.1	70 - 130	30	
4-Chlorotoluene	ND	1.0	106	110	3.7	102	109	6.6	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	105	109	3.7	99	101	2.0	70 - 130	30	
Acetone	ND	5.0	103	104	1.0	96	103	7.0	70 - 130	30	
Acrolein	ND	5.0	118	121	2.5	87	105	18.8	70 - 130	30	
Acrylonitrile	ND	5.0	106	110	3.7	90	100	10.5	70 - 130	30	
Benzene	ND	0.70	102	106	3.8	100	107	6.8	70 - 130	30	
Bromobenzene	ND	1.0	104	105	1.0	98	105	6.9	70 - 130	30	
Bromochloromethane	ND	1.0	98	107	8.8	94	101	7.2	70 - 130	30	
Bromodichloromethane	ND	0.50	105	106	0.9	95	105	10.0	70 - 130	30	
Bromoform	ND	1.0	116	118	1.7	101	108	6.7	70 - 130	30	
Bromomethane	ND	1.0	103	117	12.7	65	93	35.4	70 - 130	30	m,r
Carbon Disulfide	ND	1.0	109	114	4.5	112	122	8.5	70 - 130	30	
Carbon tetrachloride	ND	1.0	109	115	5.4	113	124	9.3	70 - 130	30	
Chlorobenzene	ND	1.0	103	108	4.7	102	108	5.7	70 - 130	30	
Chloroethane	ND	1.0	101	114	12.1	98	114	15.1	70 - 130	30	
Chloroform	ND	1.0	101	105	3.9	98	105	6.9	70 - 130	30	
Chloromethane	ND	1.0	116	122	5.0	106	120	12.4	70 - 130	30	

QA/QC Data

SDG I.D.: GCQ64221

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,2-Dichloroethene	ND	1.0	100	104	3.9	96	105	9.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	105	106	0.9	94	102	8.2	70 - 130	30	
Dibromochloromethane	ND	0.50	113	116	2.6	104	107	2.8	70 - 130	30	
Dibromomethane	ND	1.0	100	105	4.9	94	102	8.2	70 - 130	30	
Dichlorodifluoromethane	ND	1.0	127	135	6.1	122	138	12.3	70 - 130	30	l,m
Ethylbenzene	ND	1.0	104	111	6.5	107	113	5.5	70 - 130	30	
Hexachlorobutadiene	ND	0.40	118	120	1.7	112	127	12.6	70 - 130	30	
Isopropylbenzene	ND	1.0	110	115	4.4	109	119	8.8	70 - 130	30	
m&p-Xylene	ND	1.0	108	114	5.4	108	115	6.3	70 - 130	30	
Methyl ethyl ketone	ND	5.0	95	93	2.1	85	98	14.2	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	102	106	3.8	87	100	13.9	70 - 130	30	
Methylene chloride	ND	1.0	100	108	7.7	96	104	8.0	70 - 130	30	
Naphthalene	ND	1.0	122	124	1.6	108	122	12.2	70 - 130	30	
n-Butylbenzene	ND	1.0	119	123	3.3	117	126	7.4	70 - 130	30	
n-Propylbenzene	ND	1.0	108	113	4.5	111	117	5.3	70 - 130	30	
o-Xylene	ND	1.0	110	117	6.2	108	117	8.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	114	119	4.3	114	122	6.8	70 - 130	30	
sec-Butylbenzene	ND	1.0	114	118	3.4	115	123	6.7	70 - 130	30	
Styrene	ND	1.0	113	117	3.5	110	118	7.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	111	116	4.4	111	121	8.6	70 - 130	30	
Tetrachloroethene	ND	1.0	110	114	3.6	116	118	1.7	70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	97	103	6.0	86	94	8.9	70 - 130	30	
Toluene	ND	1.0	104	109	4.7	105	112	6.5	70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	105	109	3.7	103	112	8.4	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	111	119	7.0	100	100	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	121	123	1.6	88	95	7.7	70 - 130	30	
Trichloroethene	ND	1.0	102	105	2.9	104	108	3.8	70 - 130	30	
Trichlorofluoromethane	ND	1.0	114	120	5.1	118	130	9.7	70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	124	130	4.7	128	142	10.4	70 - 130	30	m
Vinyl chloride	ND	1.0	114	120	5.1	108	125	14.6	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	102	102	0.0	102	102	0.0	70 - 130	30	
% Bromofluorobenzene	92	%	104	105	1.0	104	104	0.0	70 - 130	30	
% Dibromofluoromethane	101	%	98	95	3.1	99	93	6.3	70 - 130	30	
% Toluene-d8	101	%	101	102	1.0	101	101	0.0	70 - 130	30	

QA/QC Batch 730099 (ug/L), QC Sample No: CQ64226 (CQ64221, CQ64223, CQ64224, CQ64225, CQ64226)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	110	114	3.6				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	112	113	0.9				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	106	107	0.9				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	110	109	0.9				70 - 130	30	
1,1-Dichloroethane	ND	1.0	104	108	3.8				70 - 130	30	
1,1-Dichloroethene	ND	1.0	117	125	6.6				70 - 130	30	
1,1-Dichloropropene	ND	1.0	111	117	5.3				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	131	139	5.9				70 - 130	30	l
1,2,3-Trichloropropane	ND	1.0	100	103	3.0				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	121	125	3.3				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	112	116	3.5				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	121	129	6.4				70 - 130	30	
1,2-Dibromoethane	ND	1.0	106	114	7.3				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	106	109	2.8				70 - 130	30	
1,2-Dichloroethane	ND	1.0	103	107	3.8				70 - 130	30	
1,2-Dichloropropane	ND	1.0	102	107	4.8				70 - 130	30	

QA/QC Data

SDG I.D.: GCQ64221

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,3,5-Trimethylbenzene	ND	1.0	112	116	3.5				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	107	112	4.6				70 - 130	30
1,3-Dichloropropane	ND	1.0	104	110	5.6				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	107	111	3.7				70 - 130	30
2,2-Dichloropropane	ND	1.0	111	115	3.5				70 - 130	30
2-Chlorotoluene	ND	1.0	108	114	5.4				70 - 130	30
2-Hexanone	ND	5.0	102	112	9.3				70 - 130	30
2-Isopropyltoluene	ND	1.0	115	119	3.4				70 - 130	30
4-Chlorotoluene	ND	1.0	110	113	2.7				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	111	112	0.9				70 - 130	30
Acetone	ND	5.0	97	106	8.9				70 - 130	30
Acrolein	ND	5.0	119	123	3.3				70 - 130	30
Acrylonitrile	ND	5.0	100	108	7.7				70 - 130	30
Benzene	ND	0.70	104	109	4.7				70 - 130	30
Bromobenzene	ND	1.0	106	111	4.6				70 - 130	30
Bromochloromethane	ND	1.0	106	111	4.6				70 - 130	30
Bromodichloromethane	ND	0.50	104	112	7.4				70 - 130	30
Bromoform	ND	1.0	108	114	5.4				70 - 130	30
Bromomethane	ND	1.0	109	115	5.4				70 - 130	30
Carbon Disulfide	ND	1.0	115	118	2.6				70 - 130	30
Carbon tetrachloride	ND	1.0	117	119	1.7				70 - 130	30
Chlorobenzene	ND	1.0	107	112	4.6				70 - 130	30
Chloroethane	ND	1.0	108	112	3.6				70 - 130	30
Chloroform	ND	1.0	104	108	3.8				70 - 130	30
Chloromethane	ND	1.0	120	126	4.9				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	101	108	6.7				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	104	114	9.2				70 - 130	30
Dibromochloromethane	ND	0.50	108	113	4.5				70 - 130	30
Dibromomethane	ND	1.0	104	110	5.6				70 - 130	30
Dichlorodifluoromethane	ND	1.0	147	148	0.7				70 - 130	30
Ethylbenzene	ND	1.0	109	112	2.7				70 - 130	30
Hexachlorobutadiene	ND	0.40	122	128	4.8				70 - 130	30
Isopropylbenzene	ND	1.0	112	119	6.1				70 - 130	30
m&p-Xylene	ND	1.0	110	115	4.4				70 - 130	30
Methyl ethyl ketone	ND	5.0	95	100	5.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	104	111	6.5				70 - 130	30
Methylene chloride	ND	1.0	104	112	7.4				70 - 130	30
Naphthalene	ND	1.0	122	127	4.0				70 - 130	30
n-Butylbenzene	ND	1.0	122	126	3.2				70 - 130	30
n-Propylbenzene	ND	1.0	112	114	1.8				70 - 130	30
o-Xylene	ND	1.0	114	119	4.3				70 - 130	30
p-Isopropyltoluene	ND	1.0	120	122	1.7				70 - 130	30
sec-Butylbenzene	ND	1.0	118	121	2.5				70 - 130	30
Styrene	ND	1.0	115	121	5.1				70 - 130	30
tert-Butylbenzene	ND	1.0	115	118	2.6				70 - 130	30
Tetrachloroethene	ND	1.0	117	123	5.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	99	107	7.8				70 - 130	30
Toluene	ND	1.0	106	112	5.5				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	106	115	8.1				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	116	122	5.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	111	118	6.1				70 - 130	30
Trichloroethene	ND	1.0	103	107	3.8				70 - 130	30
Trichlorofluoromethane	ND	1.0	125	127	1.6				70 - 130	30

QA/QC Data

SDG I.D.: GCQ64221

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichlorotrifluoroethane	ND	1.0	136	138	1.5				70 - 130	30	l
Vinyl chloride	ND	1.0	122	127	4.0				70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	101	101	0.0				70 - 130	30	
% Bromofluorobenzene	90	%	104	103	1.0				70 - 130	30	
% Dibromofluoromethane	100	%	98	97	1.0				70 - 130	30	
% Toluene-d8	102	%	100	102	2.0				70 - 130	30	

Comment:

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

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
May 13, 2024

Monday, May 13, 2024

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCQ64221 - WSP-R3SVIMULTI

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ64221	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CQ64221	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CQ64221	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CQ64222	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CQ64222	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CQ64222	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CQ64223	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CQ64223	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CQ64223	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CQ64224	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CQ64224	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CQ64224	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CQ64225	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CQ64225	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CQ64225	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CQ64226	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CQ64226	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CQ64226	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

May 13, 2024

SDG I.D.: GCQ64221

The samples in this delivery group were received at 2.5°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐
Temp 2.6°C Pg 1 of 1

NY/NJ/PA CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Contact Options:
☐ Phone:
☐ Fax:
☐ Email:

Customer: WSP **Location Code: WSP-R3SVIMULTI**
Address: 500 Summit Lake Drive, Ste 450
Valhalla, NY 10595
Report to: Mark.Domaracki@dec.ny.gov and WSP distribution list

Project Name: Standard Gage & Coal Storage – off-Site Project P.O: TBD
Site Name: OS-01, 154 Garden St
Invoice to: WSP Cheryl.Sekuterski@wsp.com Dave.Morelli@wsp.com
QUOTE # :
WSP Ref Number: US-WSP-EE1705007.0026-8

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Date: 4/30/24

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (Mat be billable at analysis unit rate)	VOC TCL/TAL 8260	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container ( ) oz.	GL Soil container ( ) oz.	40 ml VOA Vial [ ] As is [ ] (HCl)	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL NaOH 250ml	PL HNO_3 250ml	Bacteria Bottle w/tho	Bacteria Bottle as is
604221	MW-B1-20240430 (1)	GW	4/30/24	13:32		X					3							
604222	MW-B2-20240430 (1)			14:45		X												
	MW-B2-20240430 (1) MS			14:45	X	X												
	MW-B2-20240430 (1) MSD			14:45	X	X												
604223	W-1-20240430 (1)			11:25		X												
604224	W-2-20240430 (1)			11:50		X												
604225	FD-20240430 (1)			—		X												
604226	TB-20240430 (1)					X												

Relinquished by:	Accepted by:	Date:	Time:
		5/2/24	10:28
		5/2/24	17:26

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*
■ Standard
* SURCHARGE APPLIES

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

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

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY

Comments, Special Requirements or Regulations:

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

Data Format: CAT B, Level 4 CLP
☐ Phoenix Std Report ■ EQuIS
■ Excel ☐ NJ Hazsite EDD
■ PDF ■ NY EZ EDD (ASP)
☐ GIS/Key ☐ Other

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