Periodic Review Report
10 April 2020 – 10 April 2023
Tres Bon Cleaners
Franklin Square, New York
NYSDEC Site No. 130058

Prepared for

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by

EA Engineering, P.C. and Its Affiliate
EA Science and Technology
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January 2024
Version: FINAL
EA Project No. 1602523.11

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19 January 2024

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LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	Microgram(s) per liter
µg/m^3	Microgram(s) per cubic meter
APU	Air purifying unit
AWQS	Ambient Water Quality Standard
cis-1,2-DCE	*cis*-1,2-Dichloroethylene
DER	Division of Environmental Remediation
ESD	Explanation of Significant Difference
EA	EA Engineering, P.C. and its affiliate EA Science and Technology
EC	Engineering control
EPA	U.S. Environmental Protection Agency
FPM	FPM Engineering Group
IC	Institutional control
IRM	Interim remedial measure
mg/kg	Milligram(s) per kilogram
No.	Number
NCDH	Nassau County Department of Health
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	Tetrachloroethylene
PRR	Periodic Review Report
RI	Remedial investigation
ROD	Record of Decision
RSO	Remedial Site Optimization
SMP	Site Management Plan
SSDS	Sub-slab depressurization system
SVE	Soil vapor extraction
SVI	Soil vapor intrusion
VOC	Volatile organic compound

ES. EXECUTIVE SUMMARY

Table ES-1. Site Summary

Category	Summary/Results
Site Name/Site Number	Tres Bon Cleaners (130058)
Engineering Control	• Indoor air purification system to remain in service • Groundwater monitoring well network.
Institutional Control	• The Owner shall prohibit the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the Nassau County Department of Health.
Site Management Plan	A Site Management Plan is not currently in place at this site.
Certification/Reporting Period	10 April 2020 to 10 April 2023
Monitoring	**Frequency**
Site Inspection	As needed
Monitoring Well Inspection	As needed
Indoor Air Purifier	As needed
Sampling	**Frequency**
Groundwater	Discontinued in 2013
Sub-Slab Vapor	As needed
Indoor Air	As needed, performed annually
Category	**Summary/Results**
Site Management Activities	• Site inspection conducted on 17 February 2022. • Indoor air sampling conducted on 14–15 March 2022. • Indoor air sampling and site inspection conducted on 6–7 March 2023.
Site Inspection Findings/Concerns	On 17 February 2022, the site inspection did confirm compliance with all institutional controls but did not confirm compliance with all aspects of engineering controls, because the indoor air purifier was removed from operation by on-site building occupants. During the site inspection, the on-site monitoring wells were not located because of outdoor debris and storage items. On 6 March 2023, EA found the APU in place and operating correctly. EA changed the filters and confirmed that the fan speed was set for the size of the structure. MW-1 and MW-2 remained covered and inaccessible. Additionally, monitoring wells MW-7, MW-9, and MW-10 were not located, but may be present vegetated over in front lawns.
Air Monitoring Findings/Results	Based on a review of results from the March 2022 and March 2023 air sampling event, the following conclusions can be made: • Tetrachlorethylene was detected at concentrations below the New York State Department of Health Ambient Air Quality Guidelines during the March 2022 sampling event but was detected at concentrations greater than the guidelines in March 2023. • Engineering Control Indoor air purification unit) failed to mitigate VOCs in indoor air. • The New York State Department of Health indoor air matrix evaluation concluded that mitigation is required for volatile organic compounds.
2023 Periodic Review Report Recommendations	• Continue annual site inspections and indoor air monitoring • Perform indoor air and sub-slab sampling at off-site residences adjacent to the site • Install a sub-slab depressurization system • Institute a Site Management Plan for the site after installation of the sub-slab depressurization system.

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1. INTRODUCTION

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) was tasked by New York State Department of Environmental Conservation (NYSDEC) under State Superfund Standby Contract Work Assignment Number (No.) D009806-23 to prepare a Periodic Review Report (PRR) for the Tres Bon Cleaners (Site No. 130058) that covers the period from 10 April 2020 through 10 April 2023. The purpose of this PRR is to certify the engineering controls (ECs) and institutional controls (ICs) required by the remedy, report the results of the site inspection and indoor air sampling, and summarize and evaluate the remedy implemented at the site, relative to the requirements of the Record of Decision (ROD) dated March 2004 (NYSDEC 2004). This report was prepared in accordance with the NYSDEC Division of Environmental Remediation (DER)-10, Technical Guidance for Site Investigation and Remediation (NYSDEC 2010). A site summary and applicable remedial program information are summarized in the following sections.

1.1 SITE LOCATION, OWNERSHIP, AND DESCRIPTION

The Tres Bon Cleaners site is a Class 4 inactive hazardous waste disposal site located at 197 Franklin Avenue within the Village of Franklin Square, Nassau County, New York (**Figure 1**). The site is approximately 0.25-acres and identified as Section 35; Block 119; Lot 147. The site is bound on the north by Fenworth Boulevard and to the west by Franklin Avenue. The site contains a one-story building that is surrounded by asphalt pavement. The surrounding parcels are a combination of residential and commercial. The nearest residential area borders directly south and east of the site.

According to property ownership records, the Tres Bon Cleaners property formerly operated as a dry cleaner from 1962 until October 2003. The property changed ownership several times during its history. The building is currently leased as a commercial/retail tenant space.

The site does not fall within a Potential Environmental Justice Area as determined by economic thresholds per the U.S. Environmental Protection Agency (EPA) Environmental Justice Screening and Mapping Tool (EPA 2023). An environmental justice screening tool report is provided in **Appendix A**.

1.2 INVESTIGATION HISTORY

In January 1988, Nassau County Department of Health (NCDH) conducted a site inspection at which time it was noted that water from the dry-cleaning fluid separator was discharged to the soil and pavement in the rear of the building. NCDH collected a soil sample from the discharge area, and tetrachloroethylene (PCE) was detected as a concentration of 30 milligrams per kilogram (mg/kg). The initial soil sampling by NCDH initiated further subsurface investigation that identified PCE in on-site soil gas and groundwater downgradient of the site.

From June 1999 to June 2004, a remedial investigation (RI) (FPM Engineering Group [FPM] 2003) was conducted at the site. The activities performed during the RI were used to evaluate the nature and extent of contamination associated with the historical use of the site and to evaluate possible alternatives for reducing threats to human health and the environment. The RI included

the collection of surface soil, subsurface soil, and groundwater samples. Surface soil samples did not identify elevated concentrations of PCE. Subsurface soil samples from beneath the two dry-cleaning machines contained concentrations of PCE at a maximum 61.4 mg/kg, which was greater than the previous cleanup standards. Results from groundwater samples identified a general decreasing trend in PCE concentrations. During the period from March 2000 to July 2001, PCE concentrations in the shallow downgradient well, MW-5A, ranged from 150 to 2,400 micrograms per liter (µg/L). However, over the period from December 2001 to June 2003, the concentrations trended downward, with a PCE concentration of 12 µg/L reported in June 2003, which is slightly above the Class GA Ambient Water Quality Standard (AWQS) of 5 µg/L (NYSDEC 1998). This downward trend was attributed to the effective operation of the interim remedial measure (IRM).

During the period from September 1999 to June 2003, PCE concentrations in the leading edge well, MW-6, were relatively low, with the exception of an anomalously high concentration of 170 µg/L in July 2001. Subsequent quarterly sampling over the period from December 2001 to June 2003 showed that PCE concentrations in MW-6 remained low, in the range of 3 to 9 µg/L.

Based on the results of the RI, the ROD selected No Further Action with continued groundwater monitoring was issued in March 2004 (NYSDEC 2004). Site groundwater monitoring performed between June 2003 and June 2013 continued to show a decrease in PCE concentrations. In September 2010, five additional downgradient wells (MW-7 through MW-11) were installed, and groundwater sampling confirmed that off-site and downgradient concentrations of PCE were below Class GA AWQSs (NYSDEC 1998). Groundwater monitoring was discontinued in 2013 as groundwater on-site and downgradient from the site was no longer at level exceeding the AWQSs.

1.3 REMEDIAL HISTORY

In November 1991, the Owner entered into an agreement with the NCDH to perform an IRM at the site that included soil vapor extraction (SVE), and groundwater extraction and treatment via air stripping. The agreement required the development of a work plan and the construction of the IRM consisting of a groundwater treatment system (air stripper) and SVE system with activated carbon treatment of the extracted soil vapor prior to discharge (NYSDEC 2004). As described below, the air stripper and SVE systems were ultimately operated in three periods, from October 1993 through December 1994, May 1996 through April 1997, and August 1999 through June 2003.

In March 1993, the NYSDEC listed the site as a Class 2 Site in the Registry of Inactive Hazardous Waste Disposal Sites in New York.

The groundwater air stripper and SVE system were in operation from October 1993 to December 1994, when operation of the system was discontinued based on the determination by NCDH that the system had reduced the contamination to levels that were agreed upon in the 1991 Work Plan. The NYSDEC required quarterly monitoring of the groundwater following the system shutdown, and subsequently detected elevated levels of PCE. At the request of the NYSDEC, the system was re-started in May 1996, and the site was reclassified to a Class 4 (site properly closed – requires continued monitoring). The system was again shutdown in April 1997.

In March 1998, the site was reclassified to Class 2 based on recurring exceedances of groundwater standards detected in samples collected from on-site and off-site monitoring wells. In June 1998, NCDH collected samples from the outdoor storm drain. PCE was detected at a concentration of 17 mg/kg in storm drain sediments. Due to structural constraints, only a partial remediation was performed on the storm drain sediments by Tres Bon Cleaners in January 1999.

In August 1999, the SVE and air stripper systems were restarted and operated through June 2003. During the RI, an additional SVE well was installed and monitored for effectiveness in the area of the previously remediated storm drain. Monitoring confirmed the SVE well was effectively removing PCE from the storm drain area (FPM 2003). Operation of the air stripper was discontinued in June 2003 as PCE concentrations measured during groundwater monitoring indicated significant decreasing trends.

The ROD for the site selected No Further Action with continued groundwater monitoring and was issued in March 2004 (NYSDEC 2004). Site groundwater monitoring performed between June 2003 and June 2013 continued to show a decrease in PCE concentrations. Groundwater monitoring was discontinued in 2013 as groundwater on-site and downgradient from the site was no longer at level exceeding the AWQSs.

1.4 REMEDIAL GOALS

According to the ROD (NYSDEC 2004), the remediation goals are to eliminate or reduce to the extent practicable the following:

- Release of contaminants from soil into groundwater that may create exceedances of groundwater quality standards.
- Off-site migration of groundwater that does not attain ambient groundwater quality standards.
- Release of contaminants from subsurface soil into indoor and ambient air through soil vapor.

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2. INSTITUTIONAL AND ENGINEERING CONTROL PLAN COMPLIANCE

Since contamination remains in soil vapor at the site, ECs and ICs are required to protect human health and the environment. ICs and ECs were established via the 2004 ROD (NYSDEC 2004). An additional EC in the form or an air purifying unit (APU) was established for the site subsequent to the ROD.

During the certification period an Explanation of Significant Difference (ESD) prepared by the NYSDEC was in draft form to alter the established site remedy. The ROD (NYSDEC 2004) selected No Further Action with continued groundwater monitoring and implementation of an IC restricting groundwater use at site. The ESD will require installation of a vapor mitigation system at the existing on-site building.

A summary of ICs and ECs at the Tres Bon Cleaners site is provided in the following sections.

2.1 INSTITUTIONAL CONTROLS

The ICs established for the site include the following:

- The Owner shall prohibit the use of groundwater as a course of potable or process water, without necessary water quality treatment as determined by the NCDH.

2.2 ENGINEERING CONTROLS

The following ECs have been established for the site:

- Indoor air purification unit
- Groundwater monitoring well network

2.2.1 Indoor Air Purification Unit

An IQAIR® GCX series APU was operating in the on-site building during the March 2023 site visit. Prior to the installation of the APU, data indicates that the concentration of PCE in indoor air exceeded New York State Department of Health (NYSDOH) Air Guideline Value of 30 micrograms per cubic meter ($\mu g/m^3$).

2.2.2 Groundwater Monitoring Well Network

The ROD (NYSDEC 2004) required continued groundwater monitoring consisting of sampling of the groundwater from the three monitoring wells identified as MW-1, MW-5A, and MW-6. Twelve monitoring wells (MW-1 through MW-5, MW-5A, and MW-6 through MW-11) make up the groundwater monitoring well network and are presented on **Figure 2**. Groundwater monitoring was discontinued in 2013 as groundwater on-site and downgradient from the Site was no longer at level exceeding the AWQSs.

2.3 DRAFT EXPLANATION OF SIGNIFICANT DIFFERENCE

In addition to the 2004 ROD, the ESD in draft form during the certification period will add the following ICs and ECs to the site.

The ESD in draft form during the current certification period will establish institutional controls in the form of an Environmental Easement and Site Management Plan for the Site which will:

- Require the remedial party or site owner to complete and submit a periodic certification of institutional and engineering controls in accordance with 6 New York Code of Rules and Regulations (NYCRR) Part 375-1.8 (h)(3).

- Allow the use and development of the controlled property for commercial or industrial use as defined by 6 NYCRR Part 375-1.8(g), although land use is subject to local zoning laws.

- Restrict the use of groundwater as a source of potable or process water without necessary treatment as determined by the NYSDOH.

- Require compliance with the Department-approved Site Management Plan.

The Site Management Plan will include an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the institutional and engineering controls remain in place.

The ESD in draft form during the current certification period will require an additional EC in the form of a sub-slab depressurization system, or other acceptable measures, to mitigate the migration of vapors into the on-site building from soil and/or groundwater.

2.4 INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS CERTIFICATION

The IC/EC certification form is provided in **Appendix B** of this PRR. While ICs are in place and being adhered to, due to indoor air results and the inconsistent operation of the APU as presented in Section 3, certification of ECs is not possible as this time. Further discussion is presented in Section 5. Additionally, on-site monitoring wells MW-1 and MW-2 are currently covered and no longer accessible.

3. MONITORING AND SAMPLING PLAN COMPLIANCE

Site inspections and indoor air sampling were performed in accordance with NYSDEC DER-10 (NYSDEC 2010) and NYSDOH Indoor air guidelines (NYSDOH 2006).

3.1 SITE INSPECTION

Site-wide inspections shall be performed as needed until a Site Management Plan (SMP) establishes a schedule. The inspections include evaluation of the following:

- Compliance with all ICs, including site usage
- Condition and continued effectiveness of ECs
- General site conditions at the time of inspection
- Site management activities, including media sampling
- Confirmation that site records are up-to-date

Two site inspections occurred within the reporting period. A summary of the inspections is summarized in the section below. The site inspection forms are included in **Appendix C**.

3.1.1 February 2022 Site Inspection

On 17 February 2022, EA performed a site inspection of on-site features. EA noted that the indoor APU was not located within the structure. During an interview with the store clerk, the clerk mentioned that the APU was located within an outdoor shed and had not in operation within the building for approximately 1 to 2 years. EA installed the APU within the building, changed the filters, and set the appropriate fan speed for the size of the structure.

After the installation of the APU, EA continued the site inspection within the two retail spaces of the business, looking for plumbing, heating, ventilation, and air conditioning systems, as well as cracks in the floor and floor drains. EA attempted to locate the on-site monitoring wells MW-1 and MW-2 that were likely covered in debris and storage items, during the site inspection.

3.1.2 March 2023 Site Inspection

On 6 March 2023, EA performed a site inspection of on-site features. EA found the APU in place and operating correctly. EA changed the filters and confirmed that the fan speed was set for the size of the structure.

Consistent with the 2022 Site Inspection, EA attempted to locate the on-site monitoring wells MW-1 and MW-2, which remained covered in debris and storage items and are inaccessible. Additionally, monitoring wells MW-7, MW-9, and MW-10 were not located. It is believed these monitoring wells are vegetated over in front lawns. These monitoring wells are likely accessible but may require updated access approval from the homeowners.

3.2 INDOOR AIR MONITORING

Two indoor air sampling events have occurred within the reporting period. Indoor air samples were collected on 14–15 March 2022 and 6–7 March 2023. A summary of the sampling events is summarized below. The Indoor Air Sampling Letter Reports are included in **Appendix D**. Air canisters were analyzed for volatile organic compounds (VOCs) by Method TO-15. Laboratory analysis reports and data usability summary reports are included in the **Appendix D** Letter Reports.

3.2.1 March 2022 Indoor Air Sampling

EA completed air sampling on 14–15 March 2022. The purpose of the event was to evaluate the potential for VOCs such as PCE to enter the building and impact indoor air through a process called soil vapor intrusion (SVI). The samples were collected as part of a continued effort to evaluate the effectiveness of the on-site air purifying unit and the potential need for installation of a sub-slab depressurization system (SSDS). Two indoor air samples were collected inside the building, and one outdoor air sample was collected concurrently to provide information on background ambient air quality in the vicinity of the site. The general building layout including sample locations is presented on **Figure 3**. The Site layout including sample locations is presented on **Figure 4**.

The results from the indoor air sample collection were evaluated with NYSDOH Air Guidelines. Concentrations of PCE (15.3 µg/m^3 maximum) detected in indoor air were less than the NYSDOH Air Guideline Value of 30 µg/m^3. However, an evaluation with NYSDOH indoor air decision matrices (NYSDOH 2006) concluded mitigation is required for PCE to prevent VOCs from entering the building through SVI (EA 2022a). A summary of the detected VOCs in indoor and outdoor air is provided in **Table 1**.

3.2.2 March 2023 Indoor Air Sampling

EA completed air sampling from 6 to 7 March 2023. The purpose of the event was to evaluate the potential for VOCs such as PCE to enter the building and impact indoor air through a process called SVI. The samples were collected as part of a continued effort to evaluate the effectiveness of the on-site air purifying unit and the potential need for installation of a SSDS. Two indoor air samples were collected inside the building, and one outdoor air sample was collected concurrently to provide information on background ambient air quality in the vicinity of the site.

The results from the indoor air sample collection were evaluated with NYSDOH Air Guidelines. Concentrations of PCE (32 µg/m^3 maximum) detected in indoor air were greater than the NYSDOH Air Guideline Value of 30 µg/m^3. In addition, the NYSDOH indoor air decision matrices concluded that mitigation is required for *cis*-1,2-Dichloroethylene (*cis*-1,2-DCE) and PCE to prevent the VOCs from entering the building through SVI (EA 2023). A summary of the detected VOCs in indoor and outdoor air is provided in **Table 2**.

4. GREEN REMEDIATION AND CLIMATE CHANGE RESILIENCE

Consistent with NYSDEC DER-31 Green Remediation Policy, this section provides a brief summary and qualitative assessment of the overall environmental impacts or environmental footprint of the site for the current reporting period. In accordance with the NYSDEC's Executive Order No. 24, consideration has been given to reducing the consumption of energy and materials; and thereby, reducing the production of greenhouse gases, in the operation and maintenance of the site. Implementation of NYSDEC DER-31 and Executive Order No. 24 have not compromised the selected remedy's protectiveness of public health and the environment, nor has it hindered achievement of the remedial goals established for the site.

As each discrete step of any site operation and maintenance activity consumes resources and energy, consideration has been given to reducing/eliminating those activities, which may not be critical to the protectiveness of the selected remedy.

A critical infrastructure vulnerability assessment was not completed during this certifying period but will be completed in the 2023 reporting period. Such an assessment could generally be utilized to evaluate the potential consequences climate changes may have on a site, as well as any ongoing Site management activities.

4.1 GREEN REMEDIATION ASSESSMENT

In accordance with the NYSDEC's DER-31 Green Remediation policy, the following section provides a qualitative assessment of the overall environmental impacts, or environmental footprint associated with the remedy.

4.1.1 Electric Usage

Implementation of the selected remedy uses electricity to operate the air purifier.

4.1.2 Fossil Fuel Usage

Implementation of the selected remedy does not directly use fossil fuels as part of site management; however, fossil fuels are indirectly used during the completion of maintenance and monitoring activities associated with the groundwater monitoring well network.

Indirect fossil fuel use results from completion of the following site-related activities:

- Transportation to and from the site for monitoring, sampling, and well rehabilitation
- Off-site transportation and shipment of samples collected for laboratory analysis
- Disposal of waste generated at the site

4.1.3 Water Usage

Implementation of the selected remedy does not directly require the use water at this site. However, a *de minimis* quantity of water is used during sampling events for equipment decontamination.

4.1.4 Air Emissions

Implementation of the selected remedy does not directly emit contaminants to the air, nor impact air quality other than through the combustion of fossil fuels in vehicles and use in generators, as described above.

4.1.5 Consumption of Materials and Generation of Waste

Monitoring, maintenance, and reporting activities associated with groundwater sampling events result in material consumption and the generation of waste. A summary of the current material consumption and waste generation activities for the site are summarized below:

- Personal protective equipment associated with groundwater sampling, such as nitrile gloves, etc.
    - While necessary for sampling, proper field and sample planning reduces the amount of PPE necessary to complete the sampling events. Wherever possible, reusable PPE including cut resistant gloves, safety glasses, and steel toe boots are used.
- Consumables associated with groundwater sampling such as polyethylene tubing, paper towels, trash bags, etc.
    - Proper field and sample planning reduces the number of consumables necessary to complete the sampling events. Consumables made from recycled materials are purchased whenever possible.
- Packaging material and ice used to pack and preserve samples to be submitted for laboratory analysis
    - Reusable packaging materials including sample coolers reduces the amount of packaging materials needed. Additionally, bubble wrap and other supplies shipped with the empty glassware/summa canisters from the laboratory are reused during shipment of filled sample glassware to the laboratory to reduce consumption of packaging materials.
- Paper and office supplies associated with site logs, monitoring logs, and report preparation.
    - Consumption of paper office supplies is reduced through the preparation of reports in electronic format.
- Repair and replacement of equipment associated with the monitoring well network.
    - Active site management can reduce the amount of equipment needed for repair/replacement of equipment by identifying and fixing issues before they elevate to a level requiring full replacement or a greater amount of repair materials.

4.2 CLIMATE CHANGE VULNERABILITY ASSESSMENT

Increases in both the severity and frequency of storms and weather events, an increase in sea-level elevations along with accompanying flooding impacts, shifting precipitation patterns and wide temperature fluctuations, resulting from global climate change and instability, have the potential to significantly impact the performance, effectiveness, and protectiveness of a given site remedy. The intent of this vulnerability assessment is to provide information to allow the site remedy to better prepare for the impacts of the increasing frequency and intensity of severe storms, weather events, and associated flooding brought on by global climate changes and instabilities, in order to ultimately enhance the remedy's resilience to such events.

This section briefly summarizes the vulnerability of the site and/or the remedy to severe storms, weather events and associated flooding.

This assessment included consideration of the following:

- Flood Plain—The site is not in a flood plain.

- Site Drainage and Storm Water Management—The site is generally well drained with minimal potential for flooding or damage to the monitoring well network during severe rain events.

- Erosion—There is no evidence of erosion at the site or areas of the site that may be susceptible to erosion during periods of severe rain events.

- High Wind—There is no risk of wind damage because the indoor air vapor points and monitoring wells are flush-mounted.

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5. CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

Based on a review of results from site inspections and indoor air sampling events performed during the certification period, the following conclusions can be made:

- The APU engineering control is not consistently installed, running, and operating in a manner consistent with the user manual at all times.
- Concentrations of PCE in indoor air was greater than the NYSDOH Air Guidelines value during the March 2023 indoor air sampling event while the APU EC was operating.
- Mitigation for *cis*-1,2-DCE and PCE is recommended from the NYSDOH indoor air decision matrices.
- IC/EC Form lists the monitoring well network as an EC, however there is currently no groundwater monitoring program.

As mentioned in Section 2.3, while ICs are in place and being adhered to, due to indoor air results and the inconsistent operation of the APU as presented in Section 3, certification of the ECs is not possible as this time.

5.2 RECOMMENDATIONS

A summary of the recommended monitoring and inspection schedule is presented in **Table 3**. Recommendations will be incorporated into the SMP pending NYSDEC approval. Additionally, EA recommends the following actions for the site:

- Continue annual site inspections and indoor air monitoring.
- Upon issuance of the ESD, design and installation of a SSDS to mitigate soil vapor intrusion into the on-site building.
- Establishment of a SMP for the site.

5.2.1 Annual Site Inspections and Indoor Air Monitoring Recommendations

EA recommends that the site inspections and indoor air monitoring continue to be performed annually. Indoor air sampling along with a concurrent outdoor air sample to evaluate the presence of VOCs potentially resulting from vapor intrusion. A minimum of two indoor air samples and one outdoor air background sample will be collected annually for compounds on the NYSDEC DER's Vapor Intrusion Target Compound List using EPA Method TO-15.

5.2.2 Groundwater Monitoring Recommendations

EA recommends a re-evaluation of the site groundwater to verify that PCE has not re-mobilized since the last sampling data collection in 2013. None of the analytes that were detected from the 2013 groundwater sampling were reported in concentrations exceeding their respective water quality standards/guidance values. It is recommended to sample groundwater within 6 months of finalizing the Site Management Plan (SMP) described in Section 5.2.6 and continue to be sampled as determined by the State agencies.

5.2.3 Indoor Air Monitoring Recommendations

Indoor air sampling is recommended to be conducted annually along with a concurrent outdoor air sample to evaluate the presence of VOCs potentially resulting from vapor intrusion. A minimum of two indoor air samples and one outdoor air background sample will be collected annually for compounds on the NYSDEC DER's Vapor Intrusion Target Compound List using EPA Method TO-15. The March 2022 and March 2023 sampling events reported exceedances of guidance values for VOCs.

Indoor air sampling is recommended for the adjacent and downgradient off-site properties during the 2023/2024 heating season.

5.2.4 Sub-Slab Vapor Sampling Recommendations

Sub-slab vapor monitoring is recommended at the on-site building during the next PRR reporting period to establish an updated baseline concentrations of VOCs in sub-slab vapor that have the potential to enter the building through vapor intrusion. The previous sub-slab vapor sample was collected in 2018 in which results indicated exceedances of PCE at a concentration of 80,000 $\mu g/m^3$. A minimum of one sub-slab vapor sample will be collected for compounds on the NYSDEC DER's Vapor Intrusion Target Compound List using EPA Method TO-15.

Sub-slab vapor sampling in conjunction with indoor air sampling is recommended for the adjacent and downgradient off-site properties during the 2023/2024 heating season.

5.2.5 Sub-Slab Depressurization System

As discussed in Section 2, during the certifying period an ESD was in draft form. The ESD will require the design and construction of a of an SSDS or equivalent SVI mitigation method as an EC at the site to mitigate VOCs, such as PCE and *cis*-1,2-DCE from entering the building by SVI. This new remedy would include a permanent SSDS or equivalent that cannot be moved by occupants of the on-site building. NYSDEC is progressing forward with an ESD report to modify the 2004 ROD by requiring an SSDS or equivalent to the remedy (NYSDEC 2004).

The installation of an SSDS is necessary based on evaluation of 2018 subs-slab and 2022 indoor air sampling results using the NYSDOH indoor air decision matrices (NYSDOH 2006). The NYSDOH determined in a letter to Ms. Evelyn Hussey dated 6 July 2022 that an SSDS is required for the site (Tucholski 2022).

This was confirmed on 7 March 2023, when despite operation of the APU, PCE was detected at a maximum indoor air concentration of 32 µg/m^3, which is greater than the NYSDOH Ambient Air Quality Guideline and both PCE and *cis*-1,2-DCE require mitigation per the NYSDOH indoor air decision matrices (NYSDOH 2006).

5.2.6 Site Management Plan

Subsequent to installation of the SSDS, an SMP formalizing site management activity for the site including operation and maintenance of the SSDS should be prepared. The SMP will govern all aspects of the site, including notifications, inspections, monitoring, operations and maintenance, and reporting.

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6. FUTURE SITE ACTIVITIES

Based on the recommendations in Section 5, the following site management activities will be completed during the next PRR reporting period (10 April 2023 to 10 April 2024):

- Site Inspection—Annual (conducted in June 2023)
- Indoor Air Sampling—Annual (planned for February or March 2024)
- PRR—Annual (next reporting period 10 April 2023 to 10 April 2024).

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7. REFERENCES

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Tables

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Table 1. Summary of Detected VOCs in Indoor and Outdoor Air (March 2022)

	Building	Indoor Air						Outdoor Air		NYSDOH Ambient Air Quality Guideline[1]	NYSDOH Ambient Air Quality Recommended Immediate Action Level[1]
	Sample ID	130058-IA1		130058-IA-2		130058-DUP-1		130058-OA-1			
	Laboratory ID	L147195-01		L1471925-02		L1471925-02		L1471925-03			
	Room	1st Floor/Show Room		1st Floor/Kitchen		1st Floor/Show Room		Outdoor			
	Sample Date	3/15/2022		3/15/2022		3/15/2022		3/15/2022			
Analyte	Sample Type	Indoor Air		Indoor Air		Indoor Air		Outdoor Air			
VOCs (TO-15)											
1,2,4-Trimethylbenzene	µg/m^3	U		0.834	J	U		U		--	--
1,2-Dichloroethane	µg/m^3	0.437	J	U		0.409	J	U		--	--
2-Butanone (MEK)	µg/m^3	6.1		4.48		4.87		1.78	J	--	--
2,2,4-Trimethylpentane	µg/m^3	U		0.649	J	U		U		--	--
Benzene	µg/m^3	0.543	J	1.02		0.53	J	0.77		--	--
Carbon tetrachloride	µg/m^3	U		0.569	J	U		U		--	--
Chloromethane	µg/m^3	1.34		1.36		1.49		1.26		--	--
Dichlorodifluoromethane	µg/m^3	2.33		2.6		2.6		2.44		--	--
Ethanol	µg/m^3	1340	J	2560	J	1600	J	232	J	--	--
Ethylbenzene	µg/m^3	U		0.377	J	U		U		--	--
Trichlorofluoromethane	µg/m^3	1.4		1.44		1.39		1.23		--	--
4-Methyl-2-pentanone (MIBK)	µg/m^3	0.815	J	U		0.491	J	U		--	--
Methylene Chloride	µg/m^3	0.861		0.809		0.927		0.743		*60*	--
tert-Butyl alcohol	µg/m^3	3.97	J	1.88		U	J	0.603		--	--
Tetrachloroethylene (PCE)	µg/m^3	13.6		15.3		12.8		U		*30*	*300*
Toluene	µg/m^3	3.22		3.32		3.1		1.37	J	--	--
m&p-Xylene	µg/m^3	0.698	J	1.14	J	U		U		--	--
o-Xylene	µg/m^3	0.413	J	0.581	J	U		U		--	--

Notes:

[1.] NYSDOH Ambient Air Guidelines and Immediate Action Levels based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013, August 2015, and May 2017.

µg/m^3 = Microgram(s) per cubic meter = parts per billion
ID = Identification
J = The identification of the analyte is acceptable; the reported value is an estimate.
NYSDEC = New York State Department of Environmental Conservation
NYSDOH = New York State Department of Health
VOC = Volatile organic compound
U = Not detected at the Reporting Limit (or Method Detection Limit where applicable).

Analytical data results provided by Pace Analytical.

Duplicate sample was collected at 130058-IA-1.

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Table 2. Summary of Detected VOCs in Indoor and Outdoor Air (March 2023)

Analyte	Building	Indoor Air						Outdoor Air		NYSDOH Ambient Air Quality Guideline[1]	NYSDOH Ambient Air Quality Recommended Immediate Action Level[1]
	Sample ID	130058-IA1		130058-IA-2		130058-DUP-1		130058-OA-1			
	Laboratory ID	23C1351-01		23C1351-02		23C1351-03		23C1351-04			
	Room	1st Floor/Show Room		1st Floor/Kitchen		1st Floor/Show Room		Outdoor			
	Sample Date	3/7/2023		3/7/2023		3/7/2023		3/7/2023			
	Sample Type	Indoor Air		Indoor Air		Indoor Air		Outdoor Air			
VOCs (TO-15)											
Acetone	µg/m^3	20		50		23		8.8		--	--
Benzene	µg/m^3	4.3		1.6		4.1		0.65		--	--
2-Butanone (MEK)	µg/m^3	1.4	J	4.6	J	2.4	J	1.5	J	--	--
Carbon Disulfide	µg/m^3	0.13	J	1.6		0.1	J	<0.10		--	--
Carbon Tetrachloride	µg/m^3	0.23		0.46		0.24		0.41		--	--
Chloroethane	µg/m^3	0.18		<0.094		0.16		<0.081		--	--
Chloromethane	µg/m^3	1.4		1.3		1.3		1.3		--	--
Cyclohexane	µg/m^3	0.2		0.18		0.16		0.096	J	--	--
Dichlorodifluoromethane (Freon 12)	µg/m^3	2.4		<0.19		2.4		3.2		--	--
1,2-Dichloroethane	µg/m^3	0.17		<0.15		0.16		<0.13		--	--
cis-1,2-Dichloroethylene	µg/m^3	<0.10		3		<0.10		<0.10		--	--
trans-1,2-Dichloroethylene	µg/m^3	0.25		<0.12		<0.11		<0.11		--	--
Ethanol	µg/m^3	670	E	11000	E	660	E	120	E	--	--
Ethyl Acetate	µg/m^3	2.4		9.5		2.7		<0.63		--	--
Ethylbenzene	µg/m^3	0.5		0.26		0.38		0.15		--	--
4-Ethyltoluene	µg/m^3	0.12	J	0.13	J	<0.11		<0.11		--	--
Heptane	µg/m^3	1.8		0.76		1.3		0.38		--	--
Hexane	µg/m^3	0.7	J	<0.73		<0.64		<0.64		--	--
2-Hexanone (MBK)	µg/m^3	<0.071		1.1		0.61		0.32		--	--
Isopropanol	µg/m^3	5.2		6.9		6.1		1.6	J	--	--
Methylene Chloride	µg/m^3	0.71	J	<0.64		0.68	J	<0.56		*60*	
Naphthalene	µg/m^3	0.55	L-03, V-05	<0.16		<0.14		<0.14		--	--
Styrene	µg/m^3	0.9		0.34		0.92		<0.078		--	--
Tetrachloroethylene	µg/m^3	**32**		12		**31**		0.36		*30*	*300*
Tetrahydrofuran	µg/m^3	0.46	J	<0.19		<0.17		<0.17		--	--
Toluene	µg/m^3	1.8		1.1		1.6		0.78		--	--
Trichloroethylene	µg/m^3	<0.13		0.25		<0.13		<0.13		*2*	--
Trichlorofluoromethane (Freon 11)	µg/m^3	0.67		1.3		0.68	J	1.3		--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/m^3	<0.30		0.71	J	<0.30		0.61	J	--	--
1,2,4-Trimethylbenzene	µg/m^3	0.58		0.52		0.28		0.19		--	--
1,3,5-Trimethylbenzene	µg/m^3	0.14	J	0.23		<0.091		<0.090		--	--
Vinyl Acetate	µg/m^3	<0.66		<0.76		2.3	J	<0.66		--	--
m&p-Xylene	µg/m^3	0.98		0.64		0.66		0.46		--	--
o-Xylene	µg/m^3	0.44		0.3		0.31		0.2		--	--

Table 2. Summary of Detected VOCs in Indoor and Outdoor Air (March 2023)

Analyte	Building	Indoor Air			Outdoor Air	NYSDOH Ambient Air Quality Guideline[1]	NYSDOH Ambient Air Quality Recommended Immediate Action Level[1]
	Sample ID	130058-IA1	130058-IA-2	130058-DUP-1	130058-OA-1		
	Laboratory ID	23C1351-01	23C1351-02	23C1351-03	23C1351-04		
	Room	1st Floor/Show Room	1st Floor/Kitchen	1st Floor/Show Room	Outdoor		
	Sample Date	3/7/2023	3/7/2023	3/7/2023	3/7/2023		
	Sample Type	Indoor Air	Indoor Air	Indoor Air	Outdoor Air		

Notes:

[1.] NYSDOH Ambient Air Guidelines and Immediate Action Levels based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013, August 2015, and May 2017.

Bold values exceed Ambient Air Guidelines

µg/m3 = Microgram(s) per cubic meter = parts per billion
ID = Identification
J = The identification of the analyte is acceptable; the reported value is an estimate.
E #NAME?
L-03 Laboratory fortified blank/control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05 Continuing Calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
NYSDEC = New York State Department of Environmental Conservation
NYSDOH = New York State Department of Health
VOC = Volatile organic compound
U = Not detected at the Reporting Limit (or Method Detection Limit where applicable).

Analytical data results provided by Pace Analytical.
Duplicate sample was collected at 130058-IA-1.

Table 3. Monitoring and Sampling Schedule

Site Management Activities	Frequency
Monitoring	
Site Inspection	Annually
Monitoring Well Inspection	Annually
Indoor Air Purifier	Annually
Sampling	
Indoor Air	Annually

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Figures

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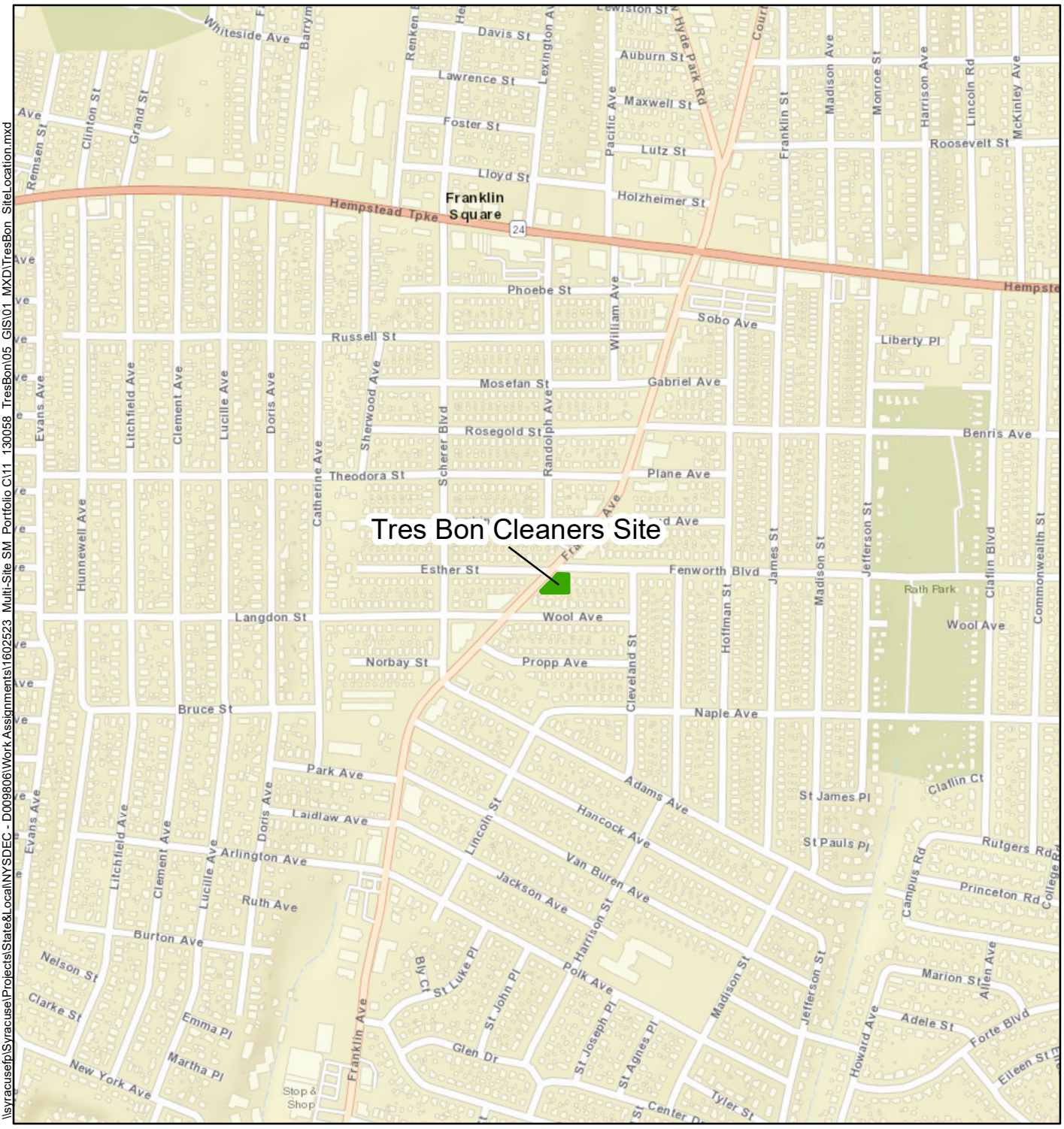
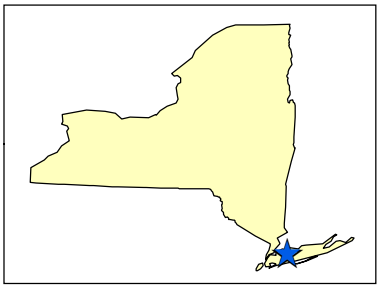




Legend

- Approximate Site Boundary
- Site Location

0 0.1 0.2
Miles

N

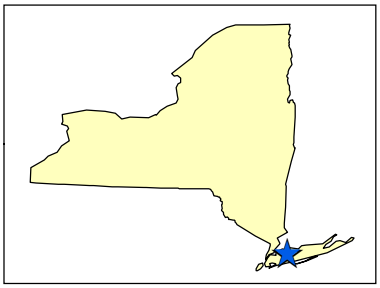
Figure 1
General Site Location
Tres Bon Cleaners Site (NYSDEC Site 130058)
Franklin Square, NY

Map Date: 7/8/2022
Source: ESRI, 2011
Projection:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE Department of Environmental Conservation

\\syracusefp\Syracuse\GISdata\StateandLocal\Former Rome Cable\PROJECTS\ArcMap (mxd)\Fig_2_MWNetwork.mxd



Legend

- Approximate Site Boundary
- Approximate Groundwater Flow Direction
- Accessible Monitoring Well
- Inaccessible Monitoring Well
- Site Location

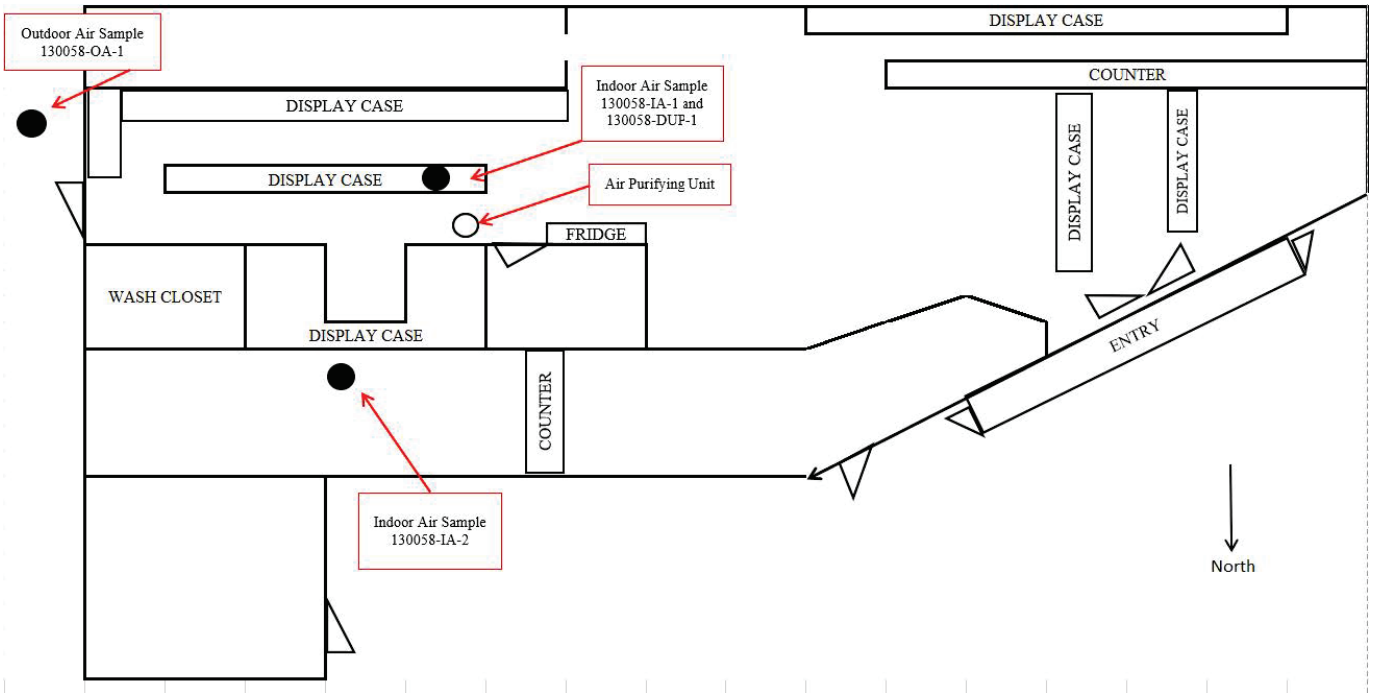
0 165 330
Feet

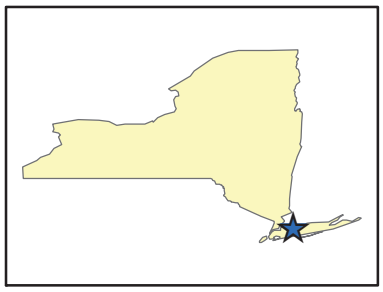
N

Figure 2
Monitoring Well Network
Tres Bon Cleaners Site (NYSDEC Site 130058)
Franklin Square, NY

Map Date: 8/22/2023
Source: ESRI, 2011
Projection:

EA® NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation



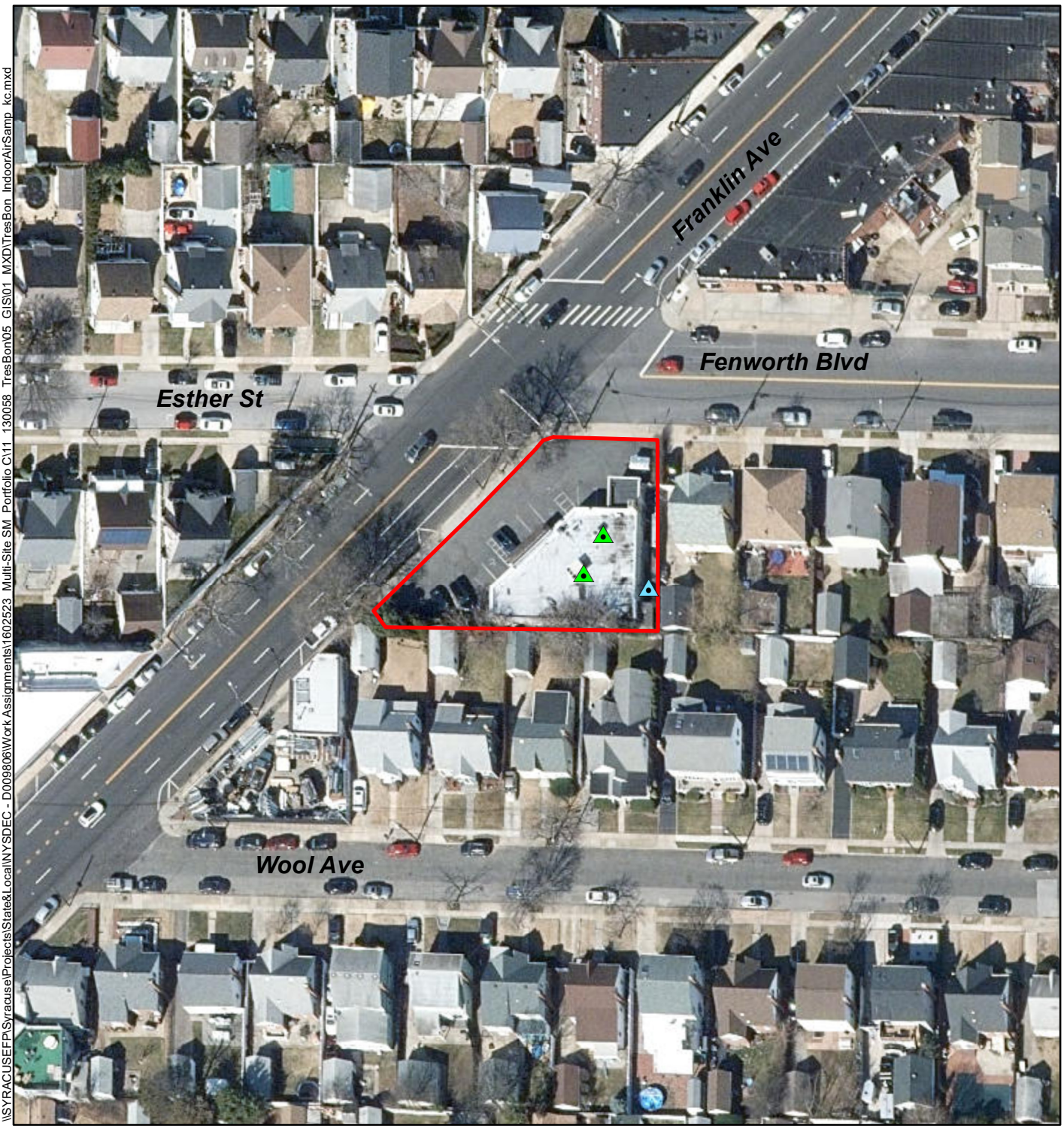


0 130
Feet

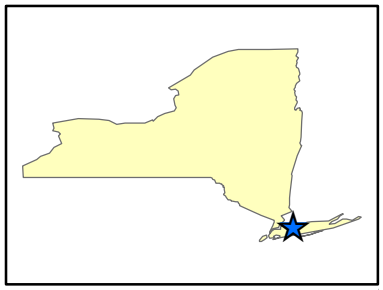
Figure 3
Building Layout and Sampling Locations
Tres Bon Cleaners (NYSDEC Site 130058)
Franklin Square, NY

Map Date: 8/15/2023
Projection: NAD83 State Plane New York Long Island
FIPS 3104 Feet

EA Engineering, P.C. and Its Affiliate EA Science and Technology
NEW YORK STATE Department of Environmental Conservation



\\SYRACUSEFP\Syracuse\Projects\State&Local\NYSDEC - D009806\Work Assignments\1602523 Multi-Site SM Portfolio C\11 130058 TresBon\05 GIS\01 MXD\TresBon IndoorAirSamp kc.mxd



0 130
Feet

Legend

- Indoor Air Sample (Approximate Location)
- Outdoor Air Sample (Approximate Location)
- Tres Bon Cleaners Approximate Site Boundary
- Site Location

Figure 4
Air Sample Locations
Tres Bon Cleaners (NYSDEC Site 130058)
Franklin Square, NY

Map Date: 6/16/2022
Projection: NAD83 State Plane New York Long Island
FIPS 3104 Feet

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE Department of Environmental Conservation

Appendix A

Environmental Justice Screening Tool Report

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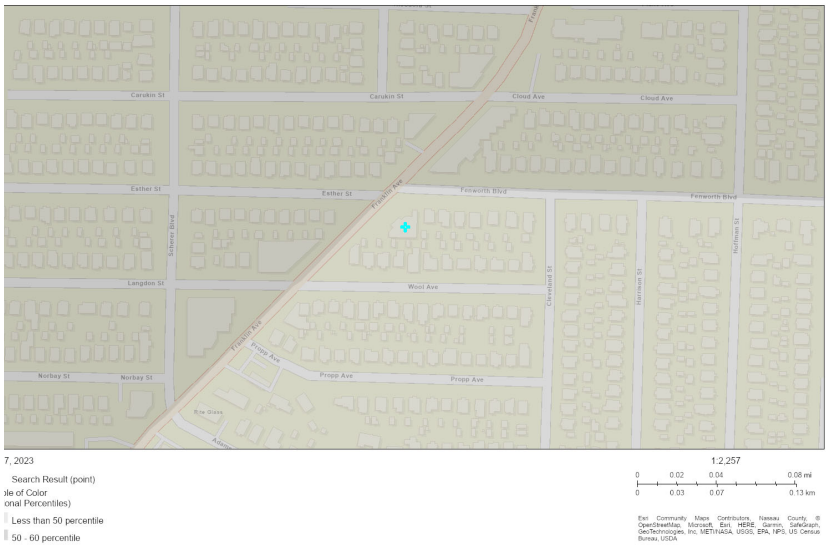
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Franklin Square, NY

1 mile Ring Centered at 40.702570,-73.678672
Population: 41,261
Area in square miles: 3.14



COMMUNITY INFORMATION

Low income: 15 percent

People of color: 48 percent

Less than high school education: 12 percent

Limited English households: 7 percent

Unemployment: 5 percent

Persons with disabilities: 9 percent

Male: 50 percent

Female: 50 percent

83 years
Average life expectancy

$44,567
Per capita income

Number of households: 12,356

Owner occupied: 81 percent

BREAKDOWN BY RACE

White: 59%

Black: 9%

Asian: 12%

Hispanic: 22%

American Indian: 0%

Hawaiian/Pacific Islander: 0%

Other race: 13%

Two or more races: 6%

BREAKDOWN BY AGE

From Ages 1 to 4	5%
From Ages 1 to 18	19%
From Ages 18 and up	81%
From Ages 65 and up	17%

LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish	40%
Speak Other Indo-European Languages	35%
Speak Asian-Pacific Island Languages	25%
Speak Other Languages	0%

Notes: Numbers may not sum to totals due to rounding. Hispanic popultion can be of any race.
Source: U.S. Census Bureau, American Community Survey (ACS) 2017 -2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	61%
Spanish	17%
French, Haitian, or Cajun	4%
Russian, Polish, or Other Slavic	1%
Other Indo-European	9%
Chinese (including Mandarin, Cantonese)	2%
Tagalog (including Filipino)	2%
Other Asian and Pacific Island	3%
Other and Unspecified	1%
Total Non-English	39%

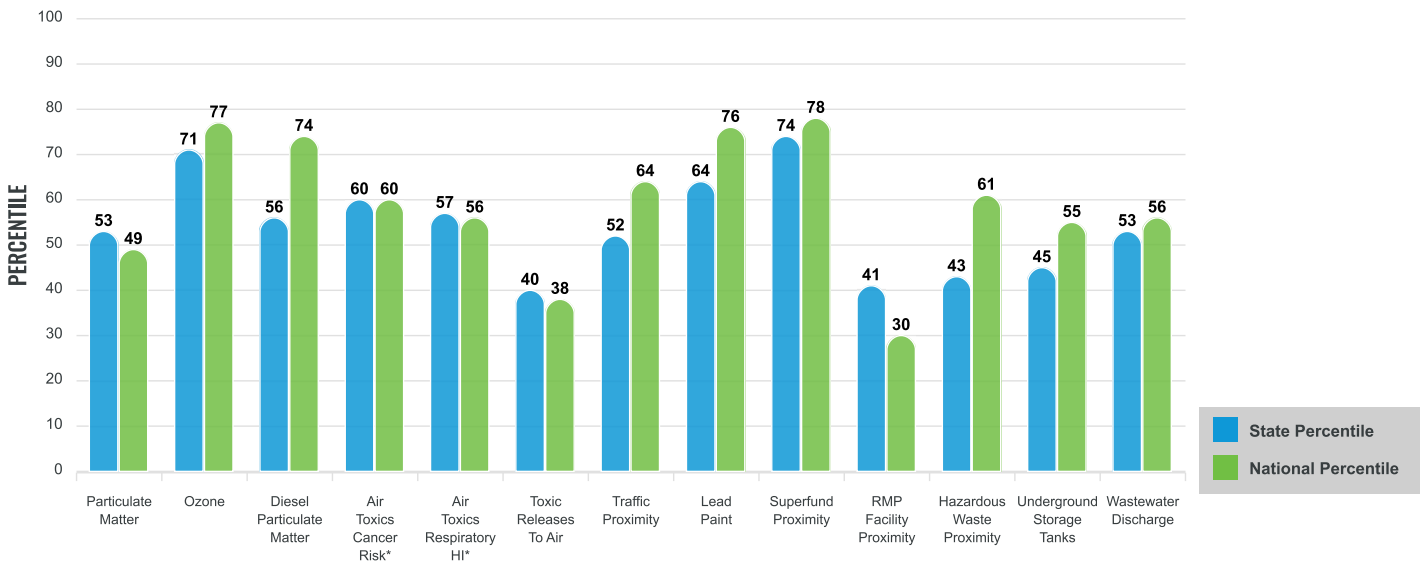
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

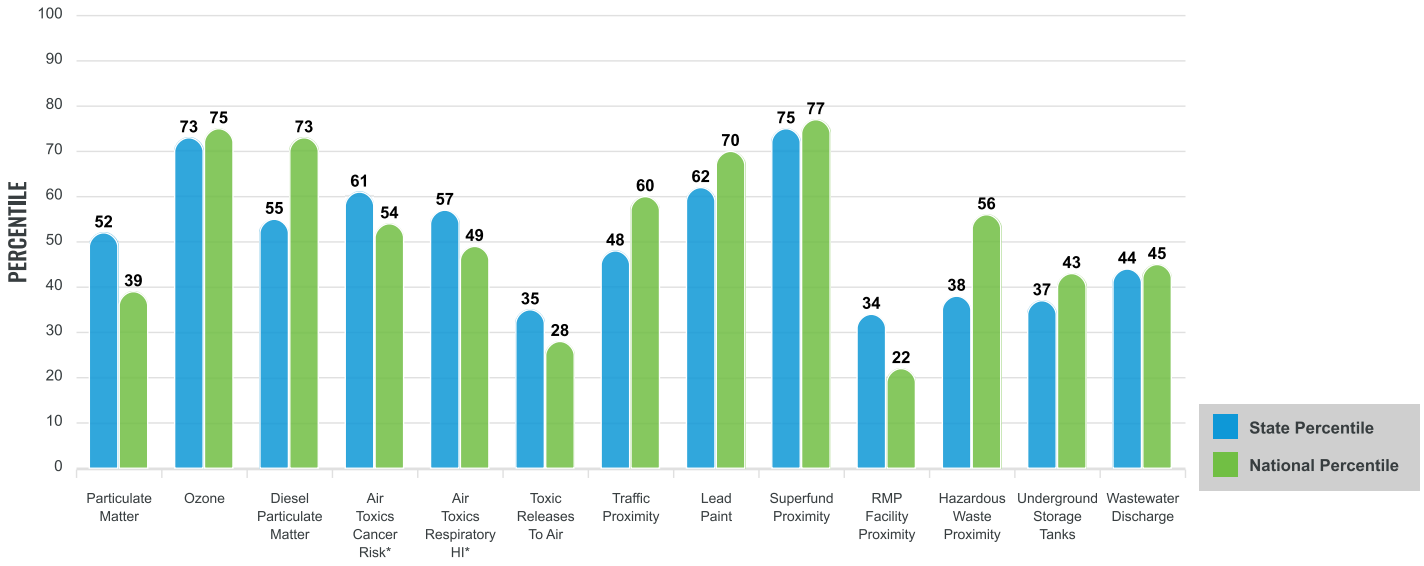
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for 1 mile Ring Centered at 40.702570,-73.678672

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter (µg/m^3)	7.69	7.71	46	8.08	37
Ozone (ppb)	68.6	62.6	87	61.6	90
Diesel Particulate Matter (µg/m^3)	0.434	0.525	53	0.261	86
Air Toxics Cancer Risk* (lifetime risk per million)	30	29	44	28	35
Air Toxics Respiratory HI*	0.3	0.33	41	0.31	31
Toxic Releases to Air	130	450	29	4,600	26
Traffic Proximity (daily traffic count/distance to road)	180	430	51	210	72
Lead Paint (% Pre-1960 Housing)	0.78	0.55	72	0.3	90
Superfund Proximity (site count/km distance)	1.1	0.24	95	0.13	98
RMP Facility Proximity (facility count/km distance)	0.072	0.21	31	0.43	19
Hazardous Waste Proximity (facility count/km distance)	0.86	4.3	32	1.9	58
Underground Storage Tanks (count/km^2)	1.7	7.7	41	3.9	56
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0022	5	46	22	55
SOCIOECONOMIC INDICATORS					
Demographic Index	32%	35%	54	35%	53
Supplemental Demographic Index	11%	14%	44	14%	40
People of Color	48%	42%	61	39%	65
Low Income	15%	28%	34	31%	28
Unemployment Rate	5%	6%	55	6%	58
Limited English Speaking Households	7%	7%	70	5%	80
Less Than High School Education	12%	12%	61	12%	64
Under Age 5	5%	5%	53	6%	50
Over Age 64	17%	17%	56	17%	56
Low Life Expectancy	15%	17%	26	20%	12

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

Sites reporting to EPA within defined area:

Superfund 1
Hazardous Waste, Treatment, Storage, and Disposal Facilities 0
Water Dischargers 1
Air Pollution 15
Brownfields 0
Toxic Release Inventory 0

Other community features within defined area:

Schools 9
Hospitals 0
Places of Worship 12

Other environmental data:

Air Non-attainment ..... Yes
Impaired Waters ..... Yes

Selected location contains American Indian Reservation Lands* ..... No
Selected location contains a "Justice40 (CEJST)" disadvantaged community ..... No
Selected location contains an EPA IRA disadvantaged community ..... N/A

Report for 1 mile Ring Centered at 40.702570,-73.678672

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	15%	17%	25	20%	12
Heart Disease	5.5	5.6	51	6.1	39
Asthma	8.7	10	17	10	15
Cancer	6.7	6	60	6.1	62
Persons with Disabilities	8.5%	11.8%	29	13.4%	21

CLIMATE INDICATORS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	6%	11%	53	12%	47
Wildfire Risk	0%	1%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	8%	13%	41	14%	39
Lack of Health Insurance	5%	5%	64	9%	40
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Footnotes

Report for 1 mile Ring Centered at 40.702570,-73.678672

Appendix B

Institutional Controls/Engineering Controls Certification

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Enclosure 1
Engineering Controls - Standby Consultant/Contractor Certification Form

Site Details **Box 1**

Site No. 130058

Site Name Tres Bon Cleaners

Site Address: 197 Franklin Avenue Zip Code: 11010
City/Town: Franklin Square
County: Nassau
Site Acreage: 0.3

Reporting Period: April 10, 2020 to April 10, 2023

	YES	NO
1. Is the information above correct?	X	
If NO, include handwritten above or on a separate sheet.		
2. To your knowledge has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		X
3. To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4. To your knowledge have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. To your knowledge is the site currently undergoing development?		X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	
7. Are all ICs/ECs in place and functioning as designed?		X

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.

Donald A

Signature of Standby Consultant/Contractor

19 January 2024

Date

SITE NO. 130058 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
35-119-147	Ms. Alexandra Ehrlein	
		Monitoring Plan

ROD - March 2004
Institutional controls are currently in place in the form of existing use restrictions preventing the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the Nassau County Department of Health.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
35-119-147	
	Vapor Mitigation

A groundwater monitoring well network includes twelve (12) observation wells, MW-1 through MW-11 includi MW-5A and MW-5B. An indoor Air Purifying Unit (IQair GCX Multigas air purifier) operates in the main room the structure onsite to maintain indoor air levels of chlorinated organic vapors below DOH guideline values.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification, including data and material prepared by previous contractors for the current certifying period, if any;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) nothing has occurred that would constitute a failure to comply with the Site Management Plan, or equivalent if no Site Management Plan exists.

YES	NO
☐	X

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.

Donald Ca

Signature of Standby Consultant/Contractor

19 January 2024

Date

Box 6

IC/EC CERTIFICATIONS

Professional Engineer Signature

I certify that all information in Boxes 2 through 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Donald Conan at EA Engineering P.C.
print name

269 West Jefferson St.
Syracuse, NY 13202

(print business address)

am certifying as a Professional Engineer.

19 January 2024

Signature of Professional Engineer

Stamp
(Required for PE)

Date

Appendix C

Site Inspection Forms

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DAILY INSPECTION REPORT

Report No. **(Tres Bon Cleaners) - NYSDEC Site No. 130058** Date: 2/17/2022

NYSDEC
Division of Environmental Remediation

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NYSDEC Contract No.

Superintendent:

NYSDEC PM: Evelyn Hussey

Consultant PM: Chris Schroer and Liane DeSantis

Consultant Site Inspectors: Liane DeSantis, Kritika Thapa, Noah Robinson

Site Location: Franklin Square, NY

Weather Conditions				
General Description	Partly Overcast	AM		PM
Temperature	60 F	AM		PM
Wind	NA	AM		PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No X	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

None

Summary of Work Performed	Arrived at site:	10:15	Departed Site:	**11:45**

EA (L. DeSantis, K. Thapa, & N. Robinson) arrived onsite (1015). EA entered the Cigar Shop part of the building and talked with clerk, Shiv Patel. Clerk stated he was unaware EA had planned to visit. EA asked about air purifier and clerk mentioned it was in the shed outside in the back within a fenced in area. He also indicated it had not been operating in the building for 1-2 years. He pulled the purifier from the shed and brought it inside the building. EA set up the purifier, plugged it in, and changed the filters. EA set the air purifier to the appropriate fan speed for the size of the building (speed 6). EA inspected the Cigar Shop business, looking for plumbing, HVAC system, cracks in flooring, and floor drains. EA began looking for monitoring onsite wells (MW-1 and MW-2). EA was unable to locate the onsite wells due to storage items and debris in the general area where wells should be located. EA entered the other building tenant's business (Pretzel Factory) and inspected the business, looking for plumbing, HVAC system, cracks in flooring, and floor drains. EA located all offsite wells and determined that they are in good condition and likely viable for sampling. EA offsite (11:30).

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
Noah Robinson	**EA**	**Yes**	**No X**
Liane DeSantis	**EA**	**Yes**	**No X**
Kritika Thapa	**EA**	**Yes**	**No X**

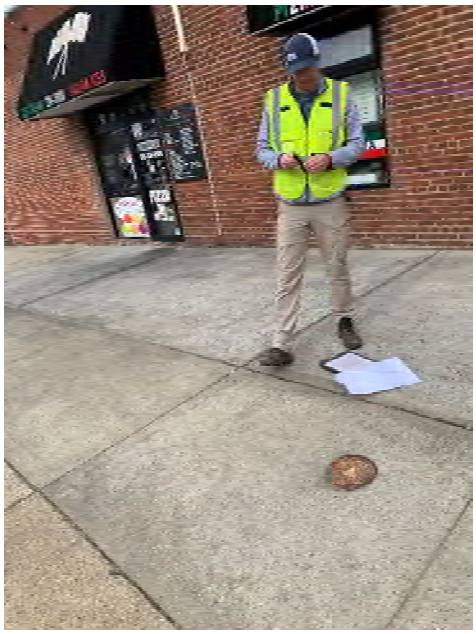
Site Photographs (Descriptions Below)	
	
Back alley of 197 Franklin Ave behind businesses	Storage area and added rock layer in back alley, possibly overtop of MW-1 and MW-2.
	
Undetermined cover for monitoring well or SSDS	Looking from alley into Cigar Shop business

	
Air Purifier location	Air Purifier set speed

	
Storage and debris, possible location of MW-1	Possible location for MW-2

Pretzel Factory and Cigar Shop

Pretzel Factory interior

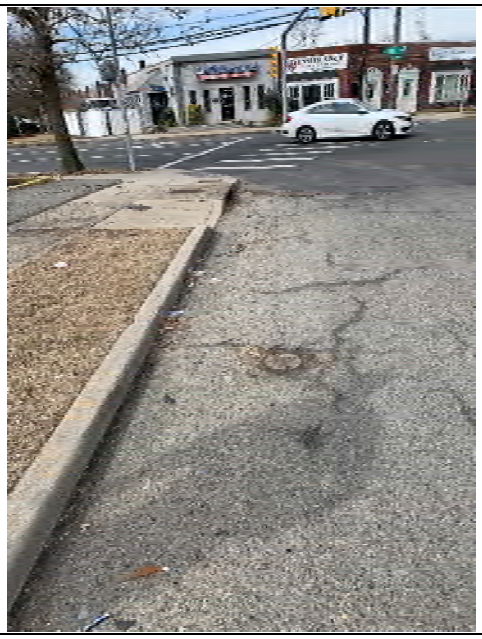


MW-3 location

MW-3 rusted bolt

MW-4 location

MW-5A (left) MW-5B (right)



MW-6

MW-6 open with sand in well

Comments

EA unable to locate MW-1 and MW-2

Site Inspector(s): Noah Robinson | **Date: 2/17/22**

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☐
Comments:			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is the site supplied with green power and is it properly installed and/or maintained?	Yes ☐	No ☐	N/A☒
Is the site employing 2007 or newer or retrofitted diesel trucks?	Yes ☐	No ☒	N/A☐
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is equipment properly maintained and operated by trained personnel?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points?	AM ☐	PM ☐	N/A☒
Are products and materials appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
Are appropriate metrics documented for inclusion on Form A, Summary of Green Remediation Metrics, by the CONTRACTOR?	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments:			

Site Inspection Checklist

Site Name (Number): Tres Bon Cleaners 130058 Date/Time: 2/17/22 11:45

Site Address (nearest cross street): 197 Franklin Ave, Franklin Square, NY

Weather: 60°F Partly Overcast	Personnel:	Liane DeSantis, Kritika Thapa, Noah Robinson (EA)

Site property description (.e.g, buildings, fencing, gates, etc)

Building(s): 1 - divided into 2	Stories: 1	In Use/Active: Inuse	
Bldg material: Concrete		Area Use (R/C/I):	
Fenced (Y/N) (material): N		Gate(s): N	Lock(s): N

Nearest adjacent buildings (and descriptions):
Resident homes

Site Surface Hydrology

Surface water drainage/Impoundments: Street drain / Alley drain	Creeks/Streams: NA

Ponds/Water front NA

Site Features

Asphalt/Concrete (%) : 100%	Condition: Acceptable

Slope/Direction (steep/flat,hilly, etc.) Flat

Vegetation (grassy/trees/shrubs; overgrown, etc.) NA

Overhead Utilities (electric/data/phone): NA

Subsurface Utilities and Locations: Gas line, water line on west side of building

Monitoring Wells (see attached checklist).

Notes/Other Observations:
Unable to locate MW-1 & MW-2

Site Sketch

SITE-WIDE INSPECTION **Day:** 1 **Date:** 3/6/23

NYSDEC		Temperature: (F)	F	(am)	51 F	(pm)
Site Owner: Alexandra Ehrlein **Current Site Use:** Commercial		Wind Direction/Speed:	-	(am)	6 mph N	(pm)
Tres Bon Cleaners Site **NYSDEC Site # 130058**		Weather:	(am) (pm) Cloudy			
Franklin Square, New York		Arrive at site	12 pm	(am)		
		Leave site:	1:25	(pm)		

Site Security

Evidence of vandalism (Wells, building, etc.):

None

Evidence of digging:

None

General site condition (Building, wells, pavement cover, etc.):

Site in good condition and maintained as smoke shop and pretzel shop.

Additional Comments:

Pavement Cover

Evidence of integrity loss (cracks, pitting, missing portions, etc.):

None

Evidence of erosion/dust:

None

Additional Comments:
None

Site Drainage

Evidence of ponding within parking area or storm drain surcharge:
None

Evidence of site runoff not entering storm sewer system:
None

Additional Comments:
None

SITE-WIDE INSPECTION **Day:** 1 **Date:** 3/6/23

Site Monitoring Wells

Are there any new cracks in the concrete collars of the site related MWs?

None, MW-1 and MW-2 on-site are missing.

MW-7, MW-9, and MW-10 likely present under grass in front lawns not accessed.

Are monitoring wells locked?

Do monitoring wells have caps?

Air Purifying Unit

Air Purifying Unit condition (Operating, end of life service indicator, etc.):

Air Purifying Unit is opperating as it should. Display indicates filters require changing (changed during inspection).

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Appendix D

Indoor Air Sampling Letter Reports

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EA Engineering, P.C. and Its Affiliate
EA Science and Technology

269 W. Jefferson Street
Syracuse, NY 13202
Telephone: 315-431-4610
www.eaest.com

26 May 2023

Ms. Evelyn Hussey
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7012

RE: Summary of Indoor Air Sampling Results from March 2023
Contract/Work Assignment No.: D009806-23
Tres Bon Cleaners, Franklin Square, New York
Site No. 130058
EA Project No. 1602523

Dear Ms. Hussey:

This letter provides a summary of analytical results for samples collected during field activities at the Tres Bon Cleaners (No. 130058) in the Village of Franklin Square, Nassau County, New York (**Figure 1**). EA Engineering, P.C. and its affiliate EA Science and Technology (EA) completed sampling to evaluate the indoor air quality during the operation of New York State Department of Conservation (NYSDEC) provided air filters.

Site Background

The Tres Bon Cleaner site is a Class 4 inactive hazardous waste disposal site that is approximately 0.25 acres at 197 Franklin Avenue. The site is currently leased as a commercial/retail tenant space. The surrounding parcels are used for a combination of residential and commercial uses. The nearest residential area is directly adjacent to the south and west site borders.

The Tres Bon Cleaners property operated as a dry cleaner from 1962 to 2003. In January 1988, the Nassau County Department of Health completed a site inspection and observed that water from the dry-cleaning fluid separator was being discharged to the soil and pavement in the rear of the building. Shortly afterward, the tetrachloroethylene (PCE)/water separator discharge was discontinued. Prior to March 2004, all dry-cleaning operations at this location were discontinued, and all dry-cleaning equipment was dismantled and removed from the site in October 2003 by the property owner.

Air Sampling Event

EA completed air sampling on 6–7 March 2023. The purpose of the event was to evaluate the potential for volatile organic compounds (VOCs) such as PCE to enter the building and impact indoor air through a process called soil vapor intrusion. The samples were collected as part of a continued effort to evaluate the effectiveness of the on-site air purifying unit and the potential need for installation of a sub-slab depressurization system (SSDS). Two indoor air samples were

collected inside the building, and one outdoor air sample was collected concurrently to provide information on background ambient air quality in the vicinity of the site. Sample locations are provided in **Figure 1** and included with a building layout in **Figure 2**. Daily Field Reports and Field Notes are provided in **Attachments 1 and 2**, respectively. During the event, the New York State Department of Health (NYSDOH) Indoor Air Quality Questionnaire was completed and is provided in **Attachment 3**.

The air canisters were shipped Con-Test Analytical Laboratory located in East Longmeadow, Massachusetts. Con-Test Analytical Laboratory is an approved Environmental Laboratory Analytical Program certified laboratory for analysis of VOCs by Method TO-15. Analytical data are provided in **Attachment 4**.

Analytical Results

Analytical results for the air samples were validated by an independent third party. A summary of validated analytical results from the March 2023 sampling compared to NYSDOH Ambient Air Guidelines and Immediate Action Levels is provided on **Table 1**. The Data Usability Summary Report is provided as **Attachment 5**. Concentrations of PCE (32 micrograms per cubic meter µg/m^3 maximum) detected in indoor air were greater than the NYSDOH Air Guideline Value of 30 µg/m^3. This is consistent with PCE indoor air concentrations detected in 2016 and 2018which were also greater than the guidance value.

Indoor Air Matrix Evaluation

For an estimation of risk, analytic results were evaluated using the NYSDOH indoor air decision matrices (2006)[1]. Both indoor air and sub-slab vapor samples are required to complete the matrices evaluation; however, no sub-slab vapor samples were collected in 2023. The most recent sub-slab vapor samples were collected in 2016 and 2018 and PCE was the only analyte detected (concentrations of 82,000 µg/m^3 and 80,000 µg/m^3, respectively). The 2018 concentration for PCE will be used for the evaluation.

Matrix A evaluates carbon tetrachloride, 1,1-dichloroethene, cis-1,2-dichloroethene (cis-1,2-DCE), and trichloroethene (TCE), of which only carbon tetrachloride, cis-1,2-DCE, and TCE were detected at maximum concentrations of 0.46 µg/m^3, 3 µg/m^3, and 0.25 µg/m^3, respectively. The 2016 and 2018 sub-slab concentrations for these parameters were non-detect. However, based on the indoor air concentrations of cis-1,2-DCE, matrix A requires mitigation.

Matrix B evaluates methylene chloride, PCE, and 1,1,1-trichloroethane, of which methylene chloride and PCE were detected in 2023 indoor air samples. Methylene chloride was detected at a maximum indoor air concentration of 0.71 µg/m^3 and was not detected in 2016 or 2018 sub-slab samples. Based on Matrix B, no further action is required for methylene chloride.

[1] NYSDOH. 2006. *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, October, and NYSDOH Soil Vapor Intrusion Updates dated September 2013, August 2015, and May 2017.

PCE was detected at a maximum indoor air concentration of 32 µg/m^3 and a 2018 sub-slab sample concentration of 80,000 µg/m^3. Based on these concentrations, Matrix B requires mitigation for PCE in the building.

Matrix C evaluates vinyl chloride which was not detected in 2023 indoor air samples or 2016 and 2018 sub-slab samples. Matrix C requires no further action.

Recommendations

Currently, indoor air concentrations are greater than NYSDOH Air Guideline Values even with the air purifying unit operating. Consistent with the NYSDOH letter to the NYSDEC dated 6 July 2022 regarding the Tres Bon Site, based on the evaluation of Matrices A and B, further mitigation is required. An SSDS could potentially be used to mitigate PCE and Cis-1,2-DCE from entering the building through soil vapor intrusion.

Sincerely,

EA ENGINEERING, P.C. AND ITS AFFILIATE
EA SCIENCE AND TECHNOLOGY

Michael Miller
Project Manager

Attachments

cc: S. Saucier
D. Tucholski
D. Conan

Figures

Tables

Attachments

Figures

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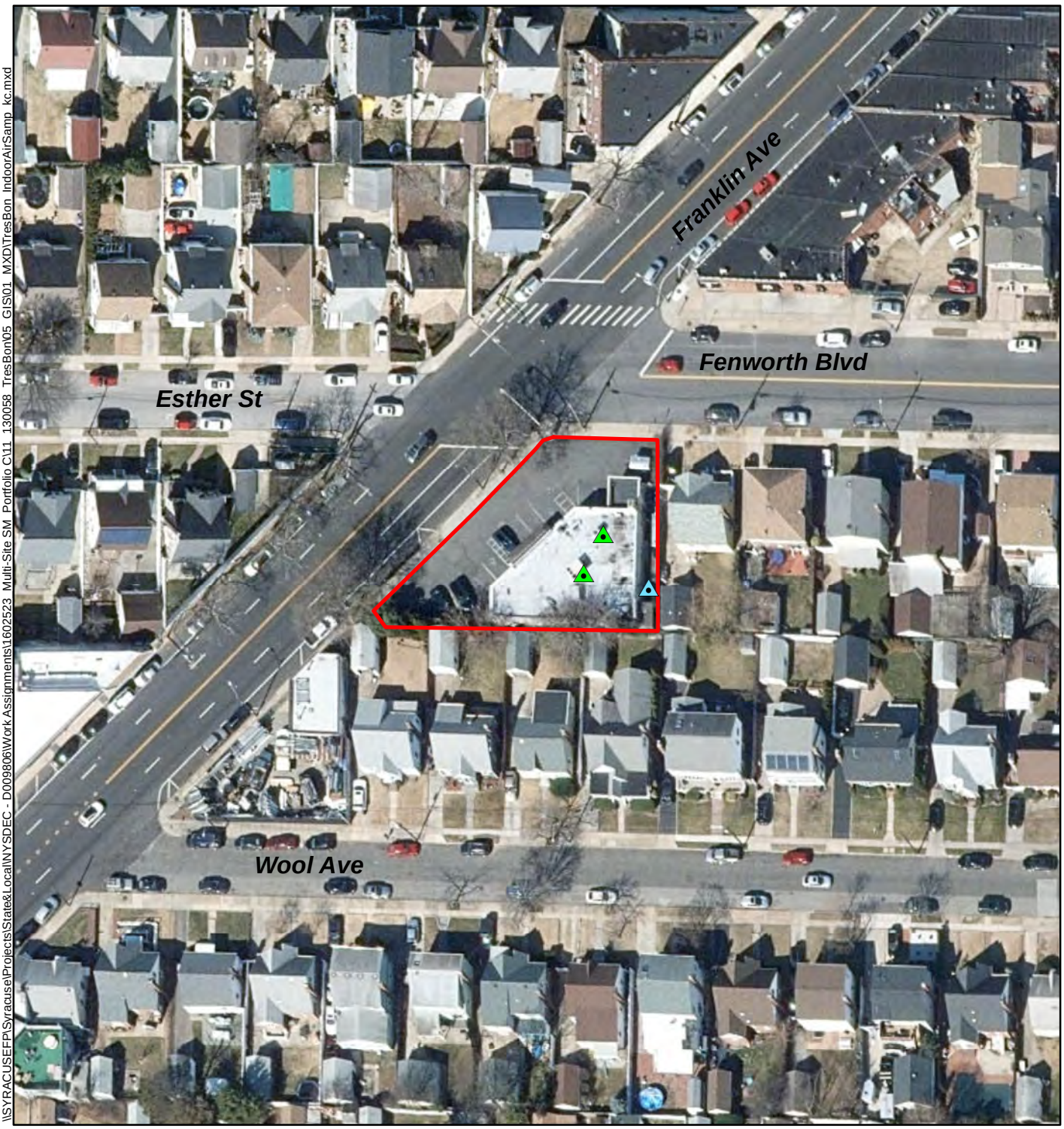
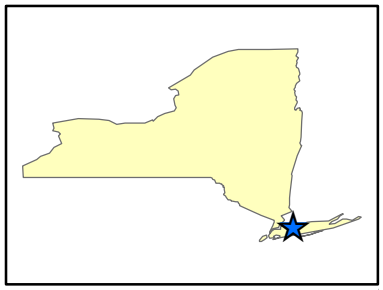


\\SYRACUSEFP\Syracuse\Projects\State&Local\NYSDEC - D009806\Work Assignments\1602523 Multi-Site SM Portfolio C\11 130058 TresBon\05 GIS\01 MXD\TresBon IndoorAirSamp kc.mxd



0 130
Feet

Legend

- Indoor Air Sample (Approximate Location)
- Outdoor Air Sample (Approximate Location)
- Tres Bon Cleaners Approximate Site Boundary
- Site Location

Figure 1
Site and Sample Locations (March 2023)
Tres Bon Cleaners| (NYSDEC Site 130058)
Franklin Square, NY

Map Date: 5/5/2022
Projection: NAD83 State Plane New York Long Island
FIPS 3104 Feet

EA Engineering, Science, and Technology, Inc., PBC
NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

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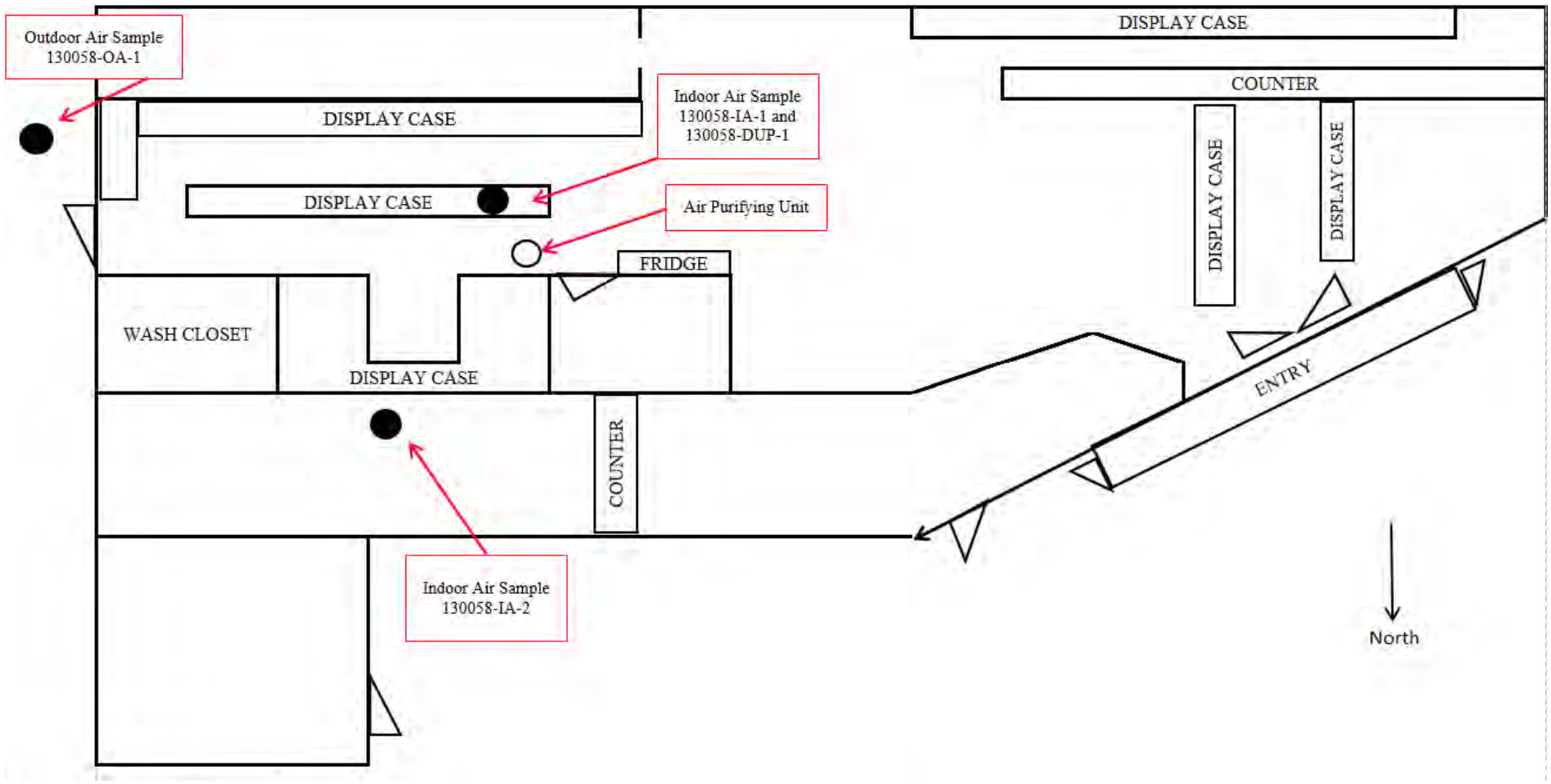

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

Tres Bon Cleaners (NYSDEC Site 130058)
Franklin Square, NY

Figure 2
Building Layout and
Sample Locations

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Tables

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Table 1. Summary of Detected VOCs in Indoor and Outdoor Air (March 2023)

	Building	Indoor Air						Outdoor Air		NYSDOH Ambient Air Quality Guideline[1]	NYSDOH Ambient Air Quality Recommended Immediate Action Level[1]
	Sample ID	130058-IA1		130058-IA-2		130058-DUP-1		130058-OA-1			
	Laboratory ID	23C1351-01		23C1351-02		23C1351-03		23C1351-04			
	Room	1st Floor/Show Room		1st Floor/Kitchen		1st Floor/Show Room		Outdoor			
	Sample Date	3/7/2023		3/7/2023		3/7/2023		3/7/2023			
Analyte	**Sample Type**	Indoor Air		Indoor Air		Indoor Air		Outdoor Air			
VOCs (TO-15)											
Acetone	µg/m^3	20		50		23		8.8		--	--
Benzene	µg/m^3	4.3		1.6		4.1		0.65		--	--
2-Butanone (MEK)	µg/m^3	1.4	J	4.6	J	2.4	J	1.5	J	--	--
Carbon Disulfide	µg/m^3	0.13	J	1.6		0.1	J	<0.10		--	--
Carbon Tetrachloride	µg/m^3	0.23		0.46		0.24		0.41		--	--
Chloroethane	µg/m^3	0.18		<0.094		0.16		<0.081		--	--
Chloromethane	µg/m^3	1.4		1.3		1.3		1.3		--	--
Cyclohexane	µg/m^3	0.2		0.18		0.16		0.096	J	--	--
Dichlorodifluoromethane (Freon 12)	µg/m^3	2.4		<0.19		2.4		3.2		--	--
1,2-Dichloroethane	µg/m^3	0.17		<0.15		0.16		<0.13		--	--
cis-1,2-Dichloroethylene	µg/m^3	<0.10		3		<0.10		<0.10		--	--
trans-1,2-Dichloroethylene	µg/m^3	0.25		<0.12		<0.11		<0.11		--	--
Ethanol	µg/m^3	670	E	11000	E	660	E	120	E	--	--
Ethyl Acetate	µg/m^3	2.4		9.5		2.7		<0.63		--	--
Ethylbenzene	µg/m^3	0.5		0.26		0.38		0.15		--	--
4-Ethyltoluene	µg/m^3	0.12	J	0.13	J	<0.11		<0.11		--	--
Heptane	µg/m^3	1.8		0.76		1.3		0.38		--	--
Hexane	µg/m^3	0.7	J	<0.73		<0.64		<0.64		--	--
2-Hexanone (MBK)	µg/m^3	<0.071		1.1		0.61		0.32		--	--
Isopropanol	µg/m^3	5.2		6.9		6.1		1.6	J	--	--
Methylene Chloride	µg/m^3	0.71	J	<0.64		0.68	J	<0.56		*60*	
Naphthalene	µg/m^3	0.55	L-03, V-05	<0.16		<0.14		<0.14		--	--
Styrene	µg/m^3	0.9		0.34		0.92		<0.078		--	--
Tetrachloroethylene	µg/m^3	**32**		12		**31**		0.36		*30*	*300*
Tetrahydrofuran	µg/m^3	0.46	J	<0.19		<0.17		<0.17		--	--
Toluene	µg/m^3	1.8		1.1		1.6		0.78		--	--
Trichloroethylene	µg/m^3	<0.13		0.25		<0.13		<0.13		*2*	--
Trichlorofluoromethane (Freon 11)	µg/m^3	0.67		1.3		0.68	J	1.3		--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/m^3	<0.30		0.71	J	<0.30		0.61	J	--	--
1,2,4-Trimethylbenzene	µg/m^3	0.58		0.52		0.28		0.19		--	--
1,3,5-Trimethylbenzene	µg/m^3	0.14	J	0.23		<0.091		<0.090		--	--
Vinyl Acetate	µg/m^3	<0.66		<0.76		2.3	J	<0.66		--	--
m&p-Xylene	µg/m^3	0.98		0.64		0.66		0.46		--	--
o-Xylene	µg/m^3	0.44		0.3		0.31		0.2		--	--

Table 1. Summary of Detected VOCs in Indoor and Outdoor Air (March 2023)

NOTES:

[1.] NYSDOH Ambient Air Guidelines and Immediate Action Levels based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013, August 2015, and May 2017.

Bold values exceed Ambient Air Guidelines

µg/m3	= Microgram(s) per cubic meter = parts per billion
ID	= Identification
J	= The identification of the analyte is acceptable; the reported value is an estimate.
E	#NAME?
L-03	Laboratory fortified blank/control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing Calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
NYSDEC	= New York State Department of Environmental Conservation
NYSDOH	= New York State Department of Health
VOC	= Volatile organic compound
U	= Not detected at the Reporting Limit (or Method Detection Limit where applicable).

Analytical data results provided by Pace Analytical.

Duplicate sample was collected at 130058-IA-1.

Attachment 1

Daily Field Reports

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DAILY INSPECTION REPORT - No. 01
(Former Tres Bon Cleaners) Site No. 130058

Date: 03/06/2023

NYSDEC
Division of Environmental Remediation

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Contract No.

DEC Insp. – N/A

DEC PM – Evelyn Hussey

Contractor Supt. – N/A

Engineer PM – Mike Miller

Engineer Insp. – Haley Young & Lincoln Backman-Lowe

Site Location: Former Tres Bon Cleaners

Weather Conditions				
General Description	--	AM	Cloudy	PM
Temperature	--	AM	51 F	PM
Wind	--	AM	6 mph N	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA

Health & Safety Comments

Safety Topic: Vehicles, slips, trips & falls.

Summary of Work Performed	Arrived at site:	1200	Departed Site:	1325

(1200) EA [L. Backman-Lowe & H. Young] onsite, speak to site representative about the SOW for this site visit and sampling effort. (1205) Calibrate PID. (1210) Air purifying unit found operating, replace filters in air purifier, reset purifier system, new pre-filter was damaged when opened and removed from packaging, photos taken. Filter installed without issue and seems to be operating as necessary. (1253) Set up and begin collection at IA-1 with Field Duplicate [FD-1]. (1258) Set up & begin collection at OA-1. (1305) Interview with cigar shop worker, photos of building inventory taken. (1314) Set up and begin collection at IA-2. (1316) Photos of pretzel shop inventory taken. (1325) EA personnel offsite.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No	NA
Were there any vehicles which were not tarped?	* Yes	No	NA
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	1.5
Haley Young	EA	Scientist	1.5

Equipment Description	Contractor/Vendor	Quantity	Used
Horiba U-52	Pine Environmental	1	No
Peristaltic Pump	Pine Environmental	1	No
Water Level Meter	Pine Environmental	1	No
Mini Rae 3000	Pine Environmental	1	Yes
SUMMA Cannister	Pace	4	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
None.						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
None.		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
Lincoln Backman-Lowe	**EA**
Haley Young	**EA**

Project Schedule Comments

Issues Pending
Pre-filter for air purifier system was lightly damaged when it was removed from the box. Just some small cracks in the outer Styrofoam container. Pictures taken and shown in attached photo log.
Interaction with Public, Property Owners, Media, etc.
Cigar shop worker was interviewed as part of NYSDEC & NYSDOH questionnaire.

Include (insert) figures with markups showing location of work and job progress

See 6 March 2023 Daily Inspection Report

Site Photographs (Descriptions Below)

See 6 March 2023 Daily Inspection Report

Comments	
None.	
Site Inspector(s): Lincoln Backman-Lowe, Haley Young	**Date:** 03/06/2023

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work. Yes ☐

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☒	No ☐
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☒	No ☐
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☒
Comments: None.		

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A☒
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☐	N/A☒
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☐	No ☐	N/A☒
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☐	No ☐	N/A☒
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☐	No ☐	N/A☒
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

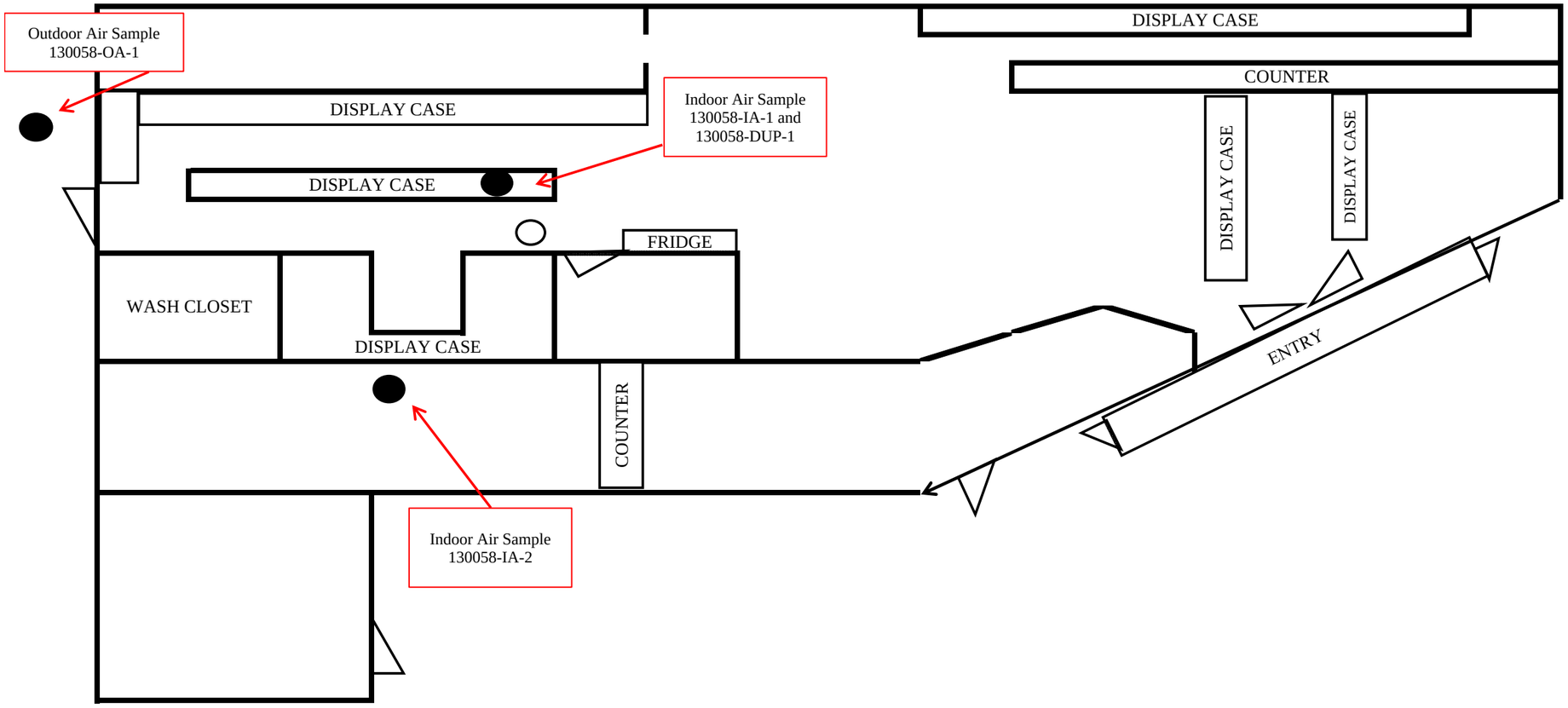
Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☐	N/A☒
Was noise outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☐
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒

Comments:
None.

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments: None.			

* BART – Best Available Retrofit Technology


Outdoor Air Sample
130058-OA-1
DISPLAY CASE
Indoor Air Sample
130058-IA-1 and
130058-DUP-1
DISPLAY CASE
DISPLAY CASE
COUNTER
DISPLAY CASE
DISPLAY CASE
FRIDGE
WASH CLOSET
DISPLAY CASE
COUNTER
ENTRY
Indoor Air Sample
130058-IA-2

Photographic Record

Former Tres Bon Cleaners
Franklin Square, NY
March 2023

Crack in Styrofoam casing for pre-filter

Crack in Styrofoam casing for pre-filter

IA-1 and FD-1 air cannister sample locations, within cigar shop

OA-1 air cannister sample location, just outside of cigar shop

Display case inside cigar shop, contains butane torches - located ~5 ft from IA-1 and FD-1 locations

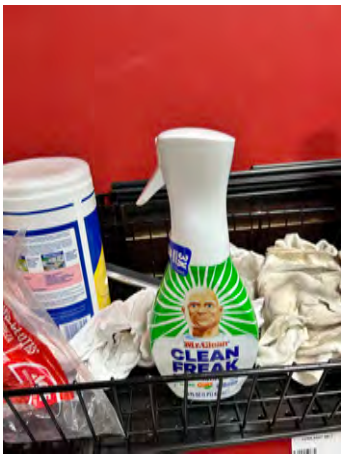


Photo of chemical-based cleaner located within cigar shop

Photographic Record

Former Tres Bon Cleaners
Franklin Square, NY
March 2023

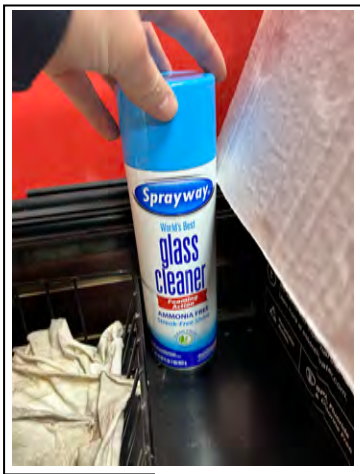
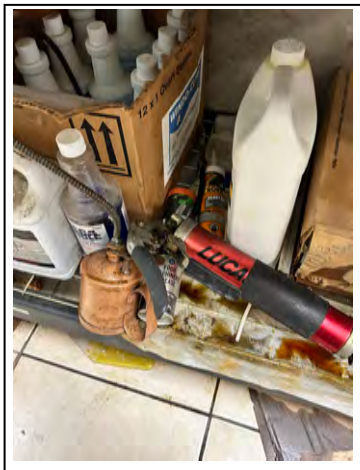


Photo of chemical-based cleaner located within cigar shop

IA-2 air cannister sampling location, within pretzel shop

Indoor pesticide container located within pretzel shop

Weed killer container located within pretzel shop



Multiple lubricant containers located at floor level within pretzel shop

Leak detector fluid container located at floor level within pretzel shop

NYSDEC
Division of Environmental Remediation

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Contract No.

DEC Insp. – N/A

DEC PM – Evelyn Hussey

Contractor Supt. – N/A

Engineer PM – Mike Miller

Engineer Insp. – Haley Young & Lincoln Backman-Lowe

Site Location: Former Tres Bon Cleaners

Weather Conditions

General Description	--	AM	Sunny	PM
Temperature	--	AM	45 F	PM
Wind	--	AM	3 mph N	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA

Health & Safety Comments

Safety Topic: Vehicles, slips, trips & falls.

Summary of Work Performed	Arrived at site:	0930	Departed Site:	1000

(0930) EA [L. Backman-Lowe & H. Young] onsite. (0935) Stop collection for IA-1 sample. (0936) Stop collection for FD-1 & OA-1 samples. (0940) Stop collection for IA-2 sample. (0942) Remove flow controllers from all SUMMA cannisters, pack into boxes. (1000) EA personnel offsite.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No	NA
Were there any vehicles which were not tarped?	* Yes	No	NA
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	1.5
Haley Young	EA	Scientist	1.5

Equipment Description	Contractor/Vendor	Quantity	Used
Horiba U-52	Pine Environmental	1	No
Peristaltic Pump	Pine Environmental	1	No
Water Level Meter	Pine Environmental	1	No
Mini Rae 3000	Pine Environmental	1	No
SUMMA Cannister	Pace	4	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
None.						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
None.		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
Lincoln Backman-Lowe	**EA**
Haley Young	**EA**

Project Schedule Comments

Issues Pending
None.

Interaction with Public, Property Owners, Media, etc.
None.

Include (insert) figures with markups showing location of work and job progress

See 6 March 2023 Daily Inspection report

Site Photographs (Descriptions Below)

See 6 March 2023 Daily Inspection report

Comments	
None.	
Site Inspector(s): Lincoln Backman-Lowe, Haley Young	**Date:** 03/07/2023

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work. Yes ☐

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☒	No ☐
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☒	No ☐
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☒
Comments: None.		

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A☒
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☐	N/A☒
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☐	No ☐	N/A☒
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☐	No ☐	N/A☒
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☐	No ☐	N/A☒
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☐	N/A☒
Was noise outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☐
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒

Comments:
None.

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments: None.			

* BART – Best Available Retrofit Technology

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Attachment 2

Field Notes

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Tres Bon Cleaners 03/06/23

Weather: 51F, cloudy

Personnel: L. Backman-Lowe, H. Young

Objective: set SUMMA cannisters, site inspection

1200 - EA onsite, speak to site representative about SOW

1205 - calibrate PID

1210 - replace filters in air purifier, reset system, pre-filter was damaged when opened from packaging, photos taken

1253 - set + begin collection @ IA-1 with DUP

1258 - set + begin collection @ OA-1

1305 - quick interview w/ cigar shop worker, photo all inventory

1314 - set + begin collection @ IA-2

1316 - photo all inventory

1325 - EA offsite

03/06/23

Scale: 1 square =

Rite in the Rain

Tres Bon 03/07/23

Weather: 45 F, sunny
Personnel: L. Backman-Lowe, H. Young
Objective: collect SUMMA canisters

0930 - EA onsite
0935 - stop collection for IA-1
0936 - stop collection for FD-1
- stop collection for OA-1
0940 - stop collection for IA-2
0942 - remove flow controllers from all SUMMA canisters, pack into boxes
1000 - EA offsite

L. Backman-Lowe
03/07/23

Scale: 1 square = _____

Attachment 3

New York State Department of Health Indoor Air Quality Questionnaire

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NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Haley Young Date/Time Prepared 03/06/2022 1300

Preparer's Affiliation Independent Consultant – EA Engineering Phone No: 315-460-6026

Purpose of Investigation Air Sampling

1. OCCUPANT: Interviewed: Y / N

Last Name: Villa-Novoa First Name: Francisco

Address: N/A

County: N/A

Home Phone: N/A Office Phone: 516-270-2333

Number of Occupants/persons at this location: 1 Age of Occupants: 26

2. OWNER OR LANDLORD: (Check if same as occupant____)

Interviewed: Y / N

Last Name: Ehrlein First Name: Alexandra

Address: N/A

County: N/A

Home Phone: N/A Cell Phone: 516-382-4626

3. BUILDING CHARACTERISTICS Type of

Building: (Circle appropriate response)

Residential School Commercial/Multi-use

Industrial Church Other: _____

If the property is residential, type? (Circle appropriate response) N/A

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? N/A

If the property iscommercial, type?

Business Type(s) Cigar Shop, Pretzel Shop
Does it include residences (i.e., multi-use)? Y / N If yes, how many N/A

Other characteristics:

Number of floors: 1 Building age ~~69 years (constructed in 1954)~~
Is the building insulated? Y / N How airtight? Tight / Average / Not Tight

4. AIRFLOW
Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors:
N/A – One story

Airflow near source:
None

Outdoor air infiltration:
None

Infiltration into airducts:
None

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick (w/ stucco façade)
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: **0** (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)
None visible - all piping in wall(s)

6. HEATING, VENTING and AIR CONDITIONING

Type of heating system(s) used in this building: (circle all that apply –note primary)

Hot air circulation - Heat pump - Hot water baseboard - Space Heaters - Stream radiation - Radiant floor - Electric baseboard - Wood stove - Outdoor wood boiler - Other _____

The primary type of fuel used is:

Natural Gas - Fuel Oil - Kerosene - Electric - Propane - Solar - Wood - Coal

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement - Outdoors - Main Floor – Other: ___

Air conditioning: Central Air - Window units - Open Windows - None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time - Occasionally - Seldom - Almost Never

Level General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage)

Basement_____
1st Floor Cigar Shop & Pretzel Shop
2nd Floor _____
3rd Floor _____
4th Floor _____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / N

b. Does the garage have a separate heating unit? Y / N / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify_____

d. Has the building ever had a fire? Y / N When?_____

e. Is a kerosene or unvented gas space heater present? Y / N Where? _____

f. Is there a workshop or hobby/craft area? Y / N Where & Type? _____

g. Is there smoking in the building? Y / N How frequently? _____

h. Have cleaning products been used recently? Y / N When & Type? _____

i. Have cosmetic products been used recently? Y / N When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / N When & Type? _____

k. Is there new carpet, drapes or other textiles? Y / N Where & When? _____

l. Have air fresheners been used recently? Y / N When & Type? _____

m. Is there a kitchen exhaust fan? Y / N If yes, where vented?
Kitchen of pretzel shop

n. Is there a bathroom exhaust fan? Y / N If yes, where vented?
_____

o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / N When &Type? > 1 year ago

Are there odors in the building? N/A
If yes, please describe:

_____

Do any of the building occupants use solvents at work? Y / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____
If yes, are their clothes washed at work? Y / N / NA

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / N Date of Installation:
Is the system active or passive? Active/Passive / NA

9. WATER AND SEWAGE

Water Supply:	Public Water	Drilled Well	Driven Well	Dug Well	Other: ___
Sewage Disposal:	Public Sewer	Septic Tank	Leach Field	Dry Well	Other: ___

10. RELOCATION INFORMATION (for oil spill residential emergency)

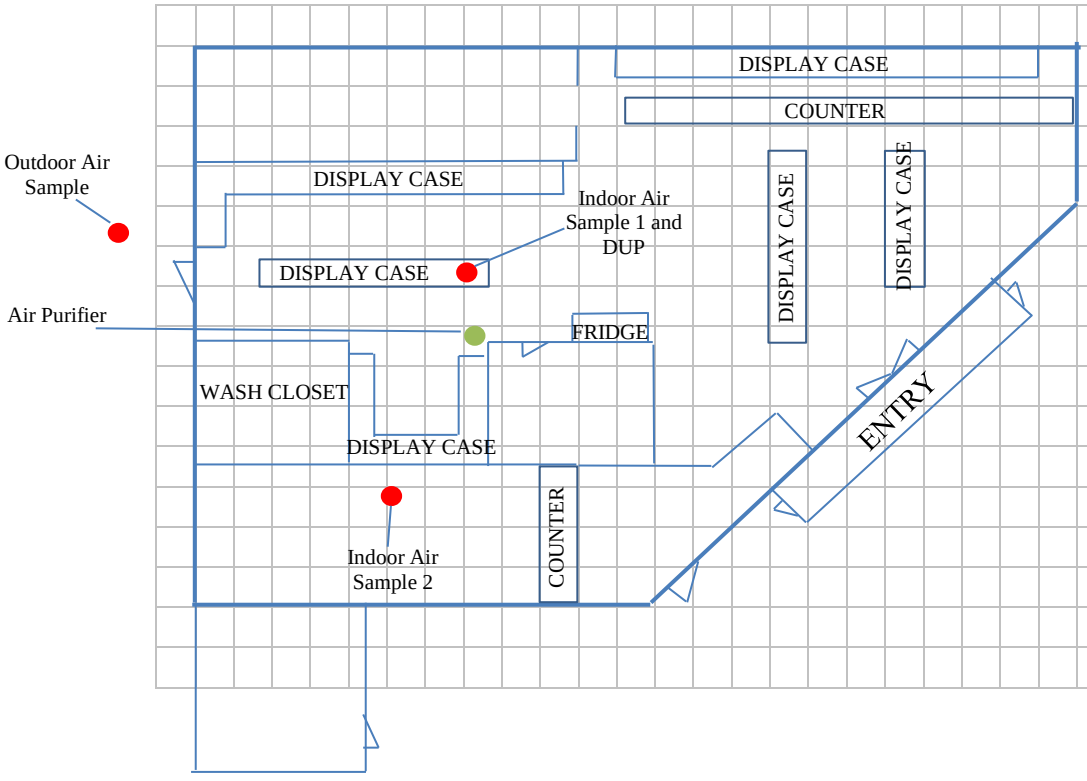
1.a. **Provide reasons why relocation is recommended:** _____
1.b. **Residents choose to:** remain in home relocate to friends/family relocate to hotel/motel
1.c. **Responsibility for costs associated with reimbursement explained.** Y / N
1.d. **Relocation package provided and explained to residents?** Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: NO BASEMENT

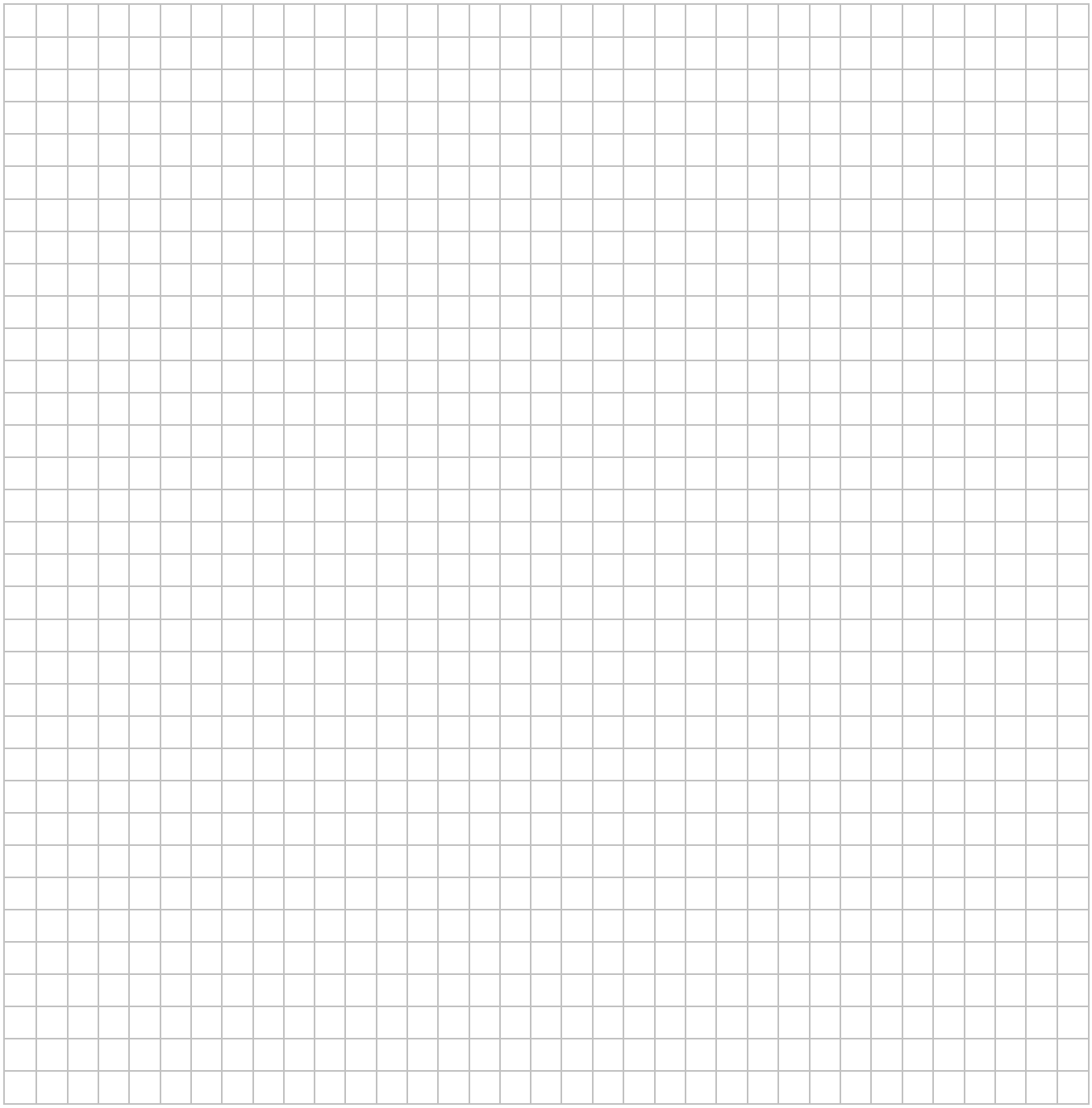
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repairshops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.
Also indicate compass direction, wind direction and speed during sampling, the locations of the welland septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

Not Applicable



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residences that have the potential to affect indoor air quality.

* 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.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Display case, cigar shop	Butane Torches	> 20	New/unopened	Butane	0.0	Y
Display case, cigar shop	Packages of charcoal	> 50	New/unopened	Carbon	0.0	Y
Alleyway, cigar shop	All-purpose joint compound	28 kg	Opened, with cap on	Gypsum board	0.0	Y
Maintenance closet, cigar shop	Disinfectant Spray	16 oz	Opened, Spray Bottle	Triethanolamine, Lauryl Betaine, PEG PPG Ethylhexyl Ether, Dipropylene Glycol Butyl Ether, Sodium Carbonate, Ethanolamine, Xanthan Gum, PEG, Fragrances	0.0	Y
Maintenance closet, cigar shop	Glass Cleaner	28 oz	Open, with cap on	Alcohol, Butoxyethanol, Propane, Butane, Sodium Nitrite, And T-Butyl Alcohol	0.0	Y
Maintenance closet, pretzel shop	Pan coating canola oil spray	16 oz	Opened, with cap on	High oleic canola oil, soybean lecithin, natural flavor, dimethyl silicone (anti-foaming agent), beta-carotene, propellant.	0.0	Y
Eyewash Station, pretzel shop	Physicians Care eyewash solution	16 oz	New/unopened	Purified water	0.0	Y
Floor level, storage hallway, pretzel shop	Container of weed B'gon weed killer	1 gal	Had cap on	Dimethylamine Salt of 2,4-D acid	0.0	Y
Cupboard under cash register, pretzel shop	Windo Clear A (251) bottle	N/A	Open, with cap on	2-Hexoxyethanol Isopropanol amine Ammonium hydroxide	0.0	Y
Countertop, next to cash register, pretzel shop	Bucket of markers and pens	N/A	All pens had caps	N/A	0.0	Y
Floor level, storage hallway, pretzel shop	Indoor insect barrier spray	1 gal	Opened with cap on	N/A	0.0	Y
Floor level, storage hallway, pretzel shop	Container of lubricant	N/A	Opened, with no cap	N/A	0.0	Y
Shelf, dishwashing station, pretzel shop	Bottle of leak detector fluid	N/A	Opened, with cap on	N/A	0.0	Y
Floor level, dishwashing station, pretzel shop	Bottle of degreaser	N/A	Opened, with no cap	N/A	0.0	Y

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Tres Bon Cleaners Site Code: 130058 Operable Unit: OU1

Building Code: Building Name: Cigar Shop & Pretzel Shop

Address: 197 Franklin Avenue Apt/Suite No:

City: Franklin Square State: NY Zip: 11010 County: Nassau

Contact Information

Preparer's Name: Haley Young Phone No: 315-460-6026

Preparer's Affiliation: Scientist - EA Engineering, Science & Technol Company Code: EAEST

Purpose of Investigation: Air Sampling (Contracted by DEC) Date of Inspection: March 6th, 20

Contact Name: Affiliation:

Phone No: Alt. Phone No: Email:

Number of Occupants (total): 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): SMALL

If Commercial or Industrial Facility, Select Operations: RETAIL STORE

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):

Smoke test not administered

Foundation Description

Foundation Type: UNKNOWN Foundation Depth (bgs): Unit: FEET

Foundation Floor Material:

Foundation Wall Material:

Foundation Floor Thickness: Unit: INCHES

Foundation Wall Thickness:

☐ Floor penetrations? Describe Floor Penetrations:

☐ Wall penetrations? Describe Wall Penetrations:

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

Describe Foundation Condition (cracks, seepage, etc.) :

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

Heating / Cooling / Ventilation Systems

Heating System: Heat Fuel Type: ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: Clothes Dryer Fuel Type:

Water Htr Vent Location: Dryer Vent Location:

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Cigar Shop & Pretzel Shop Bldg Code: Date: 3/6/2023

Bldg Address: 197 Franklin Avenue Apt/Suite No:

Bldg City/State/Zip: Franklin Square NY, 11010

Make and Model of PID: Honeywell Mini Rae 3000 Date of Calibration:

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Cigar Shop	Butane torches	> 20	Unopened	Butane	0.0	☐
Cigar Shop	Packages of charcoal	> 50	Unopened	Carbon	0.0	☐
Cigar Shop	All-purpose joint compound	28 kg	Open w cap	Gypsum board	0.0	☐
Cigar Shop	Disinfectant spray	16 oz	Open	Triethanolamine, Lauryl Betaine, Ethylhexyl Ether, Dipropylene Glycol Butyl Ether, Sodium Carbonate, Ethanolamine, Xanthan Gum	0.0	☐
Cigar Shop	Glass cleaner	28 oz	Open w cap	Alcohol, Butoxyethanol, Propane, Butane, Sodium Nitrite, And T-Butyl Alcohol	0.0	☐
Pretzel Shop	Canola oil spray	16 oz	Open w cap	High oleic canola oil, soybean lecithin, natural flavor, dimethyl silicone (anti-foaming agent), beta-carotene, propellant.	0.0	☐
Pretzel Shop	Eyewash station solution	16 oz	Unopened	Purified water	0.0	☐
Pretzel Shop	Weed killer	1 gal	Open w cap	Dimethylamine Salt of 2,4-D acid	**0.0**	☐
Pretzel Shop	Markers/pens	N/A	All capped	2-Hexoxyethanol Isopropanol amine Ammonium hydroxide	0.0	☐
Pretzel Shop	Indoor insect spray		Open w cap	N/A	0.0	☐
Pretzel Shop	Container of lubricant	N/A	Open w cap	N/A	0.0	☐
Pretzel Shop	Leak detector fluid	N/A	Open w cap	N/A	0.0	☐
Pretzel Shop	Degreaser	N/A	Open w cap	N/A	0.0	☐
						☐
						☐
						☐

* 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? No ☐ Products with COC?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Tres Bon Cleaners Site Code: 130058 Operable Unit: OU1

Building Code: Building Name: Cigar Shop & Pretzel Shop

Address: 197 Franklin Avenue Apt/Suite No:

City: Franklin Square State: NY Zip: 11010 County: Nassau

Factors Affecting Indoor Air Quailty

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

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

Alternate Heat Source: ☐ 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:

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

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

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 45 °F

Current Building Use: RETAIL STORE Barometric Pressure: 30.07 in(hg)

Product Inventory Complete? Yes ☐ Building Questionnaire Completed?

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: _____ Address: 197 Franklin Ave Franklin Square , NY 11010

Sampling Information

Sampler Name(s): Lincoln Backman-Lowe / Haley Youn

Sampler Company Code: EAEST

Sample Collection Date: Mar 7, 2023

Date Samples Sent To Lab: 3/8/2023

Sample Chain of Custody Number: _____

Outdoor Air Sample Location ID: 13008-OA-1

SUMMA Canister Information

Sample ID:	130058-OA-1-0323	130058-IA-1	130058-IA-2	130058-FD-1	
Location Code:	130058-OA-1	130058-IA-1	130058-IA-2	130058-IA-2	
Location Type:	FIRST FLOOR	FIRST FLOOR	FIRST FLOOR	FIRST FLOOR	
Canister ID:	1073	1618	2157	2158	
Regulator ID:	3732	3417	3731	3508	
Matrix:	Ambient Outdoor A	Indoor Air	Indoor Air	Indoor Air	
Sampling Method:	SUMMA AIR SAMPLI	SUMMA AIR SA	SUMMA AIR SA	SUMMA AIR SA	

Sampling Area Info

Slab Thickness (inches):					
Sub-Slab Material:					
Sub-Slab Moisture:					
Seal Type:					
Seal Adequate?:	☐	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	03/06/2023 12:5	03/06/2023	03/06/2023	03/06/2023	
Vacuum Gauge Start:	-29	-30	-29	-28	
Sample End Date/Time:	03/07/2023 9:36	03/07/2023	03/07/2023	03/07/2023	
Vacuum Gauge End:	-12	-13	-14	-7	
Sample Duration (hrs):	20.6	20.7	20.4	20.7	
Vacuum Gauge Unit:	in(hg)	in(hg)	in(hg)	in(hg)	

Sample QA/QC Readings

Vapor Port Purge:	☐	☐	☐	☐	☐
Purge PID Reading:					
Purge PID Unit:					
Tracer Test Pass:	☐	☐	☐	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level .
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

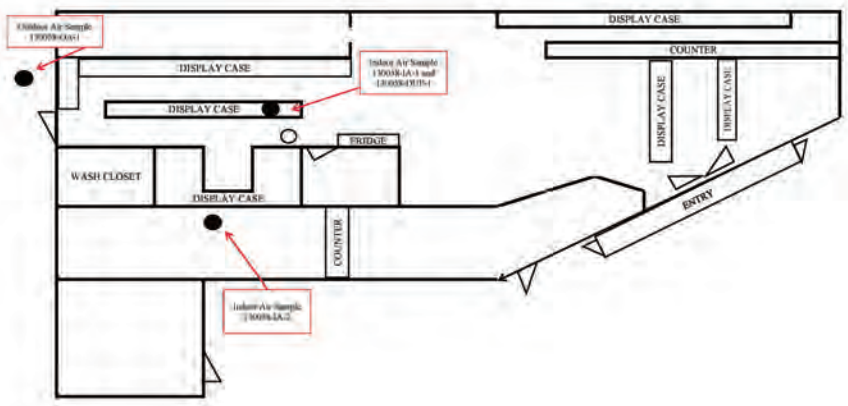
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building.
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image

Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sket
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Attachment 4

Analytic Data Laboratory Report

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

March 29, 2023

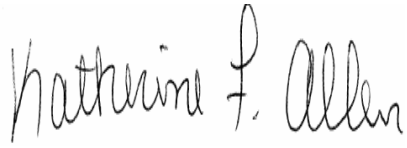
Michael Miller
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: Franklin Square, NY
Client Job Number:
Project Number: 1602523.0011
Laboratory Work Order Number: 23C1351

Enclosed are results of analyses for samples as received by the laboratory on March 10, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle K. Stuckey
Project Manager



QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Michael Miller

REPORT DATE: 3/29/2023

PURCHASE ORDER NUMBER: SMPC0001

PROJECT NUMBER: 1602523.0011

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23C1351

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

PROJECT LOCATION: Franklin Square, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
130058-IA-1-0323	23C1351-01	Indoor air		EPA TO-15	
130058-IA-2-0323	23C1351-02	Indoor air		EPA TO-15	
130058-OA-1-0323	23C1351-03	Ambient Air		EPA TO-15	
130058-FD-1-0323	23C1351-04	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.

EPA TO-15

Qualifications:

E Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Ethanol

23C1351-01[130058-IA-1-0323], 23C1351-02RE1[130058-IA-2-0323], 23C1351-03[130058-OA-1-0323], 23C1351-04[130058-FD-1-0323]

L-01 Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Benzyl chloride

B335600-BS1

L-03 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorobutadiene, Naphthalene

23C1351-01[130058-IA-1-0323], 23C1351-02[130058-IA-2-0323], 23C1351-03[130058-OA-1-0323], 23C1351-04[130058-FD-1-0323], B335600-BLK1, B335600-BS1

V-05 Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Hexachlorobutadiene, Naphthalene

23C1351-01[130058-IA-1-0323], 23C1351-02[130058-IA-2-0323], 23C1351-03[130058-OA-1-0323], 23C1351-04[130058-FD-1-0323], B335600-BLK1, B335600-BS1, S085202-CCV1

V-20 Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

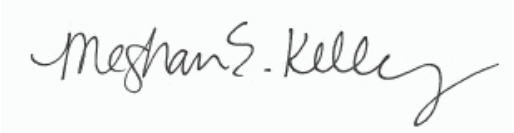
Analyte & Samples(s) Qualified:

Benzyl chloride

B335600-BS1, S085202-CCV1

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

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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A Pace Analytical® Laboratory

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-IA-1-0323
Sample ID: 23C1351-01
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1618
Canister Size: 6 liter
Flow Controller ID: 3417
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -13
Receipt Vacuum(in Hg): -12.1
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	8.3	1.4	0.84		20	3.3	2.0	0.696	3/23/23 14:44	CMR
Benzene	1.3	0.035	0.026		4.3	0.11	0.084	0.696	3/23/23 14:44	CMR
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.696	3/23/23 14:44	CMR
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.696	3/23/23 14:44	CMR
Bromoform	ND	0.035	0.024		ND	0.36	0.24	0.696	3/23/23 14:44	CMR
Bromomethane	ND	0.035	0.023		ND	0.14	0.090	0.696	3/23/23 14:44	CMR
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.696	3/23/23 14:44	CMR
2-Butanone (MEK)	0.47	1.4	0.37	J	1.4	4.1	1.1	0.696	3/23/23 14:44	CMR
Carbon Disulfide	0.042	0.35	0.032	J	0.13	1.1	0.10	0.696	3/23/23 14:44	CMR
Carbon Tetrachloride	0.036	0.035	0.028		0.23	0.22	0.17	0.696	3/23/23 14:44	CMR
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.696	3/23/23 14:44	CMR
Chloroethane	0.068	0.035	0.031		0.18	0.092	0.081	0.696	3/23/23 14:44	CMR
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.696	3/23/23 14:44	CMR
Chloromethane	0.68	0.070	0.028		1.4	0.14	0.057	0.696	3/23/23 14:44	CMR
Cyclohexane	0.058	0.035	0.021		0.20	0.12	0.072	0.696	3/23/23 14:44	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.696	3/23/23 14:44	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.696	3/23/23 14:44	CMR
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.696	3/23/23 14:44	CMR
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.696	3/23/23 14:44	CMR
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.696	3/23/23 14:44	CMR
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034		2.4	0.17	0.17	0.696	3/23/23 14:44	CMR
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.696	3/23/23 14:44	CMR
1,2-Dichloroethane	0.043	0.035	0.032		0.17	0.14	0.13	0.696	3/23/23 14:44	CMR
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.696	3/23/23 14:44	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.696	3/23/23 14:44	CMR
trans-1,2-Dichloroethylene	0.062	0.035	0.027		0.25	0.14	0.11	0.696	3/23/23 14:44	CMR
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.696	3/23/23 14:44	CMR
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.696	3/23/23 14:44	CMR
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.696	3/23/23 14:44	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.696	3/23/23 14:44	CMR
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.696	3/23/23 14:44	CMR
Ethanol	350	1.4	0.61	E	670	2.6	1.2	0.696	3/23/23 14:44	CMR
Ethyl Acetate	0.68	0.35	0.18		2.4	1.3	0.63	0.696	3/23/23 14:44	CMR
Ethylbenzene	0.12	0.035	0.020		0.50	0.15	0.088	0.696	3/23/23 14:44	CMR
4-Ethyltoluene	0.025	0.035	0.021	J	0.12	0.17	0.11	0.696	3/23/23 14:44	CMR
Heptane	0.43	0.035	0.022		1.8	0.14	0.091	0.696	3/23/23 14:44	CMR
Hexachlorobutadiene	ND	0.035	0.029	L-03, V-05	ND	0.37	0.31	0.696	3/23/23 14:44	CMR
Hexane	0.20	1.4	0.18	J	0.70	4.9	0.64	0.696	3/23/23 14:44	CMR
2-Hexanone (MBK)	ND	0.035	0.017		ND	0.14	0.071	0.696	3/23/23 14:44	CMR
Isopropanol	2.1	1.4	0.24		5.2	3.4	0.59	0.696	3/23/23 14:44	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.696	3/23/23 14:44	CMR
Methylene Chloride	0.20	0.35	0.16	J	0.71	1.2	0.56	0.696	3/23/23 14:44	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.019		ND	0.14	0.076	0.696	3/23/23 14:44	CMR
Naphthalene	0.11	0.035	0.026	L-03, V-05	0.55	0.18	0.14	0.696	3/23/23 14:44	CMR
Propene	ND	1.4	0.31		ND	2.4	0.53	0.696	3/23/23 14:44	CMR
Styrene	0.21	0.035	0.018		0.90	0.15	0.078	0.696	3/23/23 14:44	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.696	3/23/23 14:44	CMR

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-IA-1-0323
Sample ID: 23C1351-01
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1618
Canister Size: 6 liter
Flow Controller ID: 3417
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -13
Receipt Vacuum(in Hg): -12.1
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	4.8	0.035	0.027		32	0.24	0.18	0.696	3/23/23 14:44	CMR
Tetrahydrofuran	0.16	0.35	0.057	J	0.46	1.0	0.17	0.696	3/23/23 14:44	CMR
Toluene	0.48	0.035	0.020		1.8	0.13	0.075	0.696	3/23/23 14:44	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.032		ND	0.26	0.24	0.696	3/23/23 14:44	CMR
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.696	3/23/23 14:44	CMR
1,1,2-Trichloroethane	ND	0.035	0.024		ND	0.19	0.13	0.696	3/23/23 14:44	CMR
Trichloroethylene	ND	0.035	0.023		ND	0.19	0.13	0.696	3/23/23 14:44	CMR
Trichlorofluoromethane (Freon 11)	0.12	0.14	0.041	J	0.67	0.78	0.23	0.696	3/23/23 14:44	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14	0.039		ND	1.1	0.30	0.696	3/23/23 14:44	CMR
1,2,4-Trimethylbenzene	0.12	0.035	0.015		0.58	0.17	0.076	0.696	3/23/23 14:44	CMR
1,3,5-Trimethylbenzene	0.029	0.035	0.018	J	0.14	0.17	0.090	0.696	3/23/23 14:44	CMR
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.696	3/23/23 14:44	CMR
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.696	3/23/23 14:44	CMR
m&p-Xylene	0.23	0.070	0.039		0.98	0.30	0.17	0.696	3/23/23 14:44	CMR
o-Xylene	0.10	0.035	0.018		0.44	0.15	0.077	0.696	3/23/23 14:44	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	3/23/23 14:44

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-IA-2-0323
Sample ID: 23C1351-02
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 2157
Canister Size: 6 liter
Flow Controller ID: 3731
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -14
Receipt Vacuum(in Hg): -13.7
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	21	1.6	0.97		50	3.8	2.3	0.8	3/23/23 15:16	CMR
Benzene	0.50	0.040	0.030		1.6	0.13	0.097	0.8	3/23/23 15:16	CMR
Benzyl chloride	ND	0.040	0.035		ND	0.21	0.18	0.8	3/23/23 15:16	CMR
Bromodichloromethane	ND	0.040	0.028		ND	0.27	0.19	0.8	3/23/23 15:16	CMR
Bromoform	ND	0.040	0.027		ND	0.41	0.28	0.8	3/23/23 15:16	CMR
Bromomethane	ND	0.040	0.027		ND	0.16	0.10	0.8	3/23/23 15:16	CMR
1,3-Butadiene	ND	0.040	0.034		ND	0.088	0.074	0.8	3/23/23 15:16	CMR
2-Butanone (MEK)	1.6	1.6	0.43	J	4.6	4.7	1.3	0.8	3/23/23 15:16	CMR
Carbon Disulfide	0.51	0.40	0.037		1.6	1.2	0.12	0.8	3/23/23 15:16	CMR
Carbon Tetrachloride	0.073	0.040	0.032		0.46	0.25	0.20	0.8	3/23/23 15:16	CMR
Chlorobenzene	ND	0.040	0.027		ND	0.18	0.12	0.8	3/23/23 15:16	CMR
Chloroethane	ND	0.040	0.035		ND	0.11	0.094	0.8	3/23/23 15:16	CMR
Chloroform	ND	0.040	0.038		ND	0.20	0.19	0.8	3/23/23 15:16	CMR
Chloromethane	0.64	0.080	0.032		1.3	0.17	0.066	0.8	3/23/23 15:16	CMR
Cyclohexane	0.051	0.040	0.024		0.18	0.14	0.083	0.8	3/23/23 15:16	CMR
Dibromochloromethane	ND	0.040	0.026		ND	0.34	0.23	0.8	3/23/23 15:16	CMR
1,2-Dibromoethane (EDB)	ND	0.040	0.024		ND	0.31	0.19	0.8	3/23/23 15:16	CMR
1,2-Dichlorobenzene	ND	0.040	0.023		ND	0.24	0.14	0.8	3/23/23 15:16	CMR
1,3-Dichlorobenzene	ND	0.040	0.022		ND	0.24	0.13	0.8	3/23/23 15:16	CMR
1,4-Dichlorobenzene	ND	0.040	0.026		ND	0.24	0.16	0.8	3/23/23 15:16	CMR
Dichlorodifluoromethane (Freon 12)	ND	0.040	0.039		ND	0.20	0.19	0.8	3/23/23 15:16	CMR
1,1-Dichloroethane	ND	0.040	0.035		ND	0.16	0.14	0.8	3/23/23 15:16	CMR
1,2-Dichloroethane	ND	0.040	0.036		ND	0.16	0.15	0.8	3/23/23 15:16	CMR
1,1-Dichloroethylene	ND	0.040	0.030		ND	0.16	0.12	0.8	3/23/23 15:16	CMR
cis-1,2-Dichloroethylene	0.74	0.040	0.029		3.0	0.16	0.12	0.8	3/23/23 15:16	CMR
trans-1,2-Dichloroethylene	ND	0.040	0.031		ND	0.16	0.12	0.8	3/23/23 15:16	CMR
1,2-Dichloropropane	ND	0.040	0.022		ND	0.18	0.10	0.8	3/23/23 15:16	CMR
cis-1,3-Dichloropropene	ND	0.040	0.021		ND	0.18	0.094	0.8	3/23/23 15:16	CMR
trans-1,3-Dichloropropene	ND	0.040	0.020		ND	0.18	0.093	0.8	3/23/23 15:16	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.040	0.039		ND	0.28	0.28	0.8	3/23/23 15:16	CMR
1,4-Dioxane	ND	0.40	0.033		ND	1.4	0.12	0.8	3/23/23 15:16	CMR
Ethanol	5800	80	35	E	11000	150	66	40	3/24/23 22:43	TPH
Ethyl Acetate	2.6	0.40	0.20		9.5	1.4	0.73	0.8	3/23/23 15:16	CMR
Ethylbenzene	0.060	0.040	0.023		0.26	0.17	0.10	0.8	3/23/23 15:16	CMR
4-Ethyltoluene	0.027	0.040	0.025	J	0.13	0.20	0.12	0.8	3/23/23 15:16	CMR
Heptane	0.18	0.040	0.026		0.76	0.16	0.10	0.8	3/23/23 15:16	CMR
Hexachlorobutadiene	ND	0.040	0.033	L-03, V-05	ND	0.43	0.35	0.8	3/23/23 15:16	CMR
Hexane	ND	1.6	0.21		ND	5.6	0.73	0.8	3/23/23 15:16	CMR
2-Hexanone (MBK)	0.28	0.040	0.020		1.1	0.16	0.082	0.8	3/23/23 15:16	CMR
Isopropanol	2.8	1.6	0.28		6.9	3.9	0.68	0.8	3/23/23 15:16	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.040	0.031		ND	0.14	0.11	0.8	3/23/23 15:16	CMR
Methylene Chloride	ND	0.40	0.19		ND	1.4	0.64	0.8	3/23/23 15:16	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.040	0.021		ND	0.16	0.088	0.8	3/23/23 15:16	CMR
Naphthalene	ND	0.040	0.030	L-03, V-05	ND	0.21	0.16	0.8	3/23/23 15:16	CMR
Propene	ND	1.6	0.35		ND	2.8	0.61	0.8	3/23/23 15:16	CMR
Styrene	0.081	0.040	0.021		0.34	0.17	0.090	0.8	3/23/23 15:16	CMR
1,1,2,2-Tetrachloroethane	ND	0.040	0.022		ND	0.27	0.15	0.8	3/23/23 15:16	CMR

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-IA-2-0323
Sample ID: 23C1351-02
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 2157
Canister Size: 6 liter
Flow Controller ID: 3731
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -14
Receipt Vacuum(in Hg): -13.7
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	1.7	0.040	0.031		12	0.27	0.21	0.8	3/23/23 15:16	CMR
Tetrahydrofuran	ND	0.40	0.066		ND	1.2	0.19	0.8	3/23/23 15:16	CMR
Toluene	0.30	0.040	0.023		1.1	0.15	0.086	0.8	3/23/23 15:16	CMR
1,2,4-Trichlorobenzene	ND	0.040	0.037		ND	0.30	0.27	0.8	3/23/23 15:16	CMR
1,1,1-Trichloroethane	ND	0.040	0.031		ND	0.22	0.17	0.8	3/23/23 15:16	CMR
1,1,2-Trichloroethane	ND	0.040	0.028		ND	0.22	0.15	0.8	3/23/23 15:16	CMR
Trichloroethylene	0.046	0.040	0.027		0.25	0.21	0.14	0.8	3/23/23 15:16	CMR
Trichlorofluoromethane (Freon 11)	0.24	0.16	0.047		1.3	0.90	0.27	0.8	3/23/23 15:16	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.092	0.16	0.044	J	0.71	1.2	0.34	0.8	3/23/23 15:16	CMR
1,2,4-Trimethylbenzene	0.11	0.040	0.018		0.52	0.20	0.087	0.8	3/23/23 15:16	CMR
1,3,5-Trimethylbenzene	0.047	0.040	0.021		0.23	0.20	0.10	0.8	3/23/23 15:16	CMR
Vinyl Acetate	ND	0.80	0.21		ND	2.8	0.76	0.8	3/23/23 15:16	CMR
Vinyl Chloride	ND	0.040	0.036		ND	0.10	0.092	0.8	3/23/23 15:16	CMR
m&p-Xylene	0.15	0.080	0.045		0.64	0.35	0.19	0.8	3/23/23 15:16	CMR
o-Xylene	0.069	0.040	0.020		0.30	0.17	0.089	0.8	3/23/23 15:16	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	3/24/23 22:43
4-Bromofluorobenzene (1)	108	70-130	3/23/23 15:16

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-OA-1-0323
Sample ID: 23C1351-03
Sample Matrix: Ambient Air
Sampled: 3/7/2023 09:36

Sample Description/Location:
Sub Description/Location:
Canister ID: 1073
Canister Size: 6 liter
Flow Controller ID: 3732
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -12
Receipt Vacuum(in Hg): -11.5
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	3.7	1.4	0.84		8.8	3.3	2.0	0.696	3/23/23 15:48	CMR
Benzene	0.20	0.035	0.026		0.65	0.11	0.084	0.696	3/23/23 15:48	CMR
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.696	3/23/23 15:48	CMR
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.696	3/23/23 15:48	CMR
Bromoform	ND	0.035	0.024		ND	0.36	0.24	0.696	3/23/23 15:48	CMR
Bromomethane	ND	0.035	0.023		ND	0.14	0.090	0.696	3/23/23 15:48	CMR
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.696	3/23/23 15:48	CMR
2-Butanone (MEK)	0.51	1.4	0.37	J	1.5	4.1	1.1	0.696	3/23/23 15:48	CMR
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.696	3/23/23 15:48	CMR
Carbon Tetrachloride	0.065	0.035	0.028		0.41	0.22	0.17	0.696	3/23/23 15:48	CMR
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.696	3/23/23 15:48	CMR
Chloroethane	ND	0.035	0.031		ND	0.092	0.081	0.696	3/23/23 15:48	CMR
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.696	3/23/23 15:48	CMR
Chloromethane	0.62	0.070	0.028		1.3	0.14	0.057	0.696	3/23/23 15:48	CMR
Cyclohexane	0.028	0.035	0.021	J	0.096	0.12	0.072	0.696	3/23/23 15:48	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.696	3/23/23 15:48	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.696	3/23/23 15:48	CMR
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.696	3/23/23 15:48	CMR
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.696	3/23/23 15:48	CMR
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.696	3/23/23 15:48	CMR
Dichlorodifluoromethane (Freon 12)	0.64	0.035	0.034		3.2	0.17	0.17	0.696	3/23/23 15:48	CMR
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.696	3/23/23 15:48	CMR
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.696	3/23/23 15:48	CMR
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.696	3/23/23 15:48	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.696	3/23/23 15:48	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.696	3/23/23 15:48	CMR
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.696	3/23/23 15:48	CMR
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.696	3/23/23 15:48	CMR
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.696	3/23/23 15:48	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.696	3/23/23 15:48	CMR
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.696	3/23/23 15:48	CMR
Ethanol	66	1.4	0.61	E	120	2.6	1.2	0.696	3/23/23 15:48	CMR
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.63	0.696	3/23/23 15:48	CMR
Ethylbenzene	0.035	0.035	0.020		0.15	0.15	0.088	0.696	3/23/23 15:48	CMR
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.696	3/23/23 15:48	CMR
Heptane	0.093	0.035	0.022		0.38	0.14	0.091	0.696	3/23/23 15:48	CMR
Hexachlorobutadiene	ND	0.035	0.029	L-03, V-05	ND	0.37	0.31	0.696	3/23/23 15:48	CMR
Hexane	ND	1.4	0.18		ND	4.9	0.64	0.696	3/23/23 15:48	CMR
2-Hexanone (MBK)	0.079	0.035	0.017		0.32	0.14	0.071	0.696	3/23/23 15:48	CMR
Isopropanol	0.67	1.4	0.24	J	1.6	3.4	0.59	0.696	3/23/23 15:48	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.696	3/23/23 15:48	CMR
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.56	0.696	3/23/23 15:48	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.019		ND	0.14	0.076	0.696	3/23/23 15:48	CMR
Naphthalene	ND	0.035	0.026	L-03, V-05	ND	0.18	0.14	0.696	3/23/23 15:48	CMR
Propene	ND	1.4	0.31		ND	2.4	0.53	0.696	3/23/23 15:48	CMR
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.696	3/23/23 15:48	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.696	3/23/23 15:48	CMR

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-OA-1-0323
Sample ID: 23C1351-03
Sample Matrix: Ambient Air
Sampled: 3/7/2023 09:36

Sample Description/Location:
Sub Description/Location:
Canister ID: 1073
Canister Size: 6 liter
Flow Controller ID: 3732
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -12
Receipt Vacuum(in Hg): -11.5
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	0.053	0.035	0.027		0.36	0.24	0.18	0.696	3/23/23 15:48	CMR
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.696	3/23/23 15:48	CMR
Toluene	0.21	0.035	0.020		0.78	0.13	0.075	0.696	3/23/23 15:48	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.032		ND	0.26	0.24	0.696	3/23/23 15:48	CMR
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.696	3/23/23 15:48	CMR
1,1,2-Trichloroethane	ND	0.035	0.024		ND	0.19	0.13	0.696	3/23/23 15:48	CMR
Trichloroethylene	ND	0.035	0.023		ND	0.19	0.13	0.696	3/23/23 15:48	CMR
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.3	0.78	0.23	0.696	3/23/23 15:48	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.079	0.14	0.039	J	0.61	1.1	0.30	0.696	3/23/23 15:48	CMR
1,2,4-Trimethylbenzene	0.038	0.035	0.015		0.19	0.17	0.076	0.696	3/23/23 15:48	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.090	0.696	3/23/23 15:48	CMR
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.696	3/23/23 15:48	CMR
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.696	3/23/23 15:48	CMR
m&p-Xylene	0.11	0.070	0.039		0.46	0.30	0.17	0.696	3/23/23 15:48	CMR
o-Xylene	0.046	0.035	0.018		0.20	0.15	0.077	0.696	3/23/23 15:48	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	3/23/23 15:48

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-FD-1-0323
Sample ID: 23C1351-04
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:36

Sample Description/Location:
Sub Description/Location:
Canister ID: 2158
Canister Size: 6 liter
Flow Controller ID: 3508
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -7
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	9.9	1.4	0.84		23	3.3	2.0	0.698	3/23/23 16:20	CMR
Benzene	1.3	0.035	0.026		4.1	0.11	0.084	0.698	3/23/23 16:20	CMR
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	3/23/23 16:20	CMR
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	3/23/23 16:20	CMR
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	3/23/23 16:20	CMR
Bromomethane	ND	0.035	0.023		ND	0.14	0.090	0.698	3/23/23 16:20	CMR
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	3/23/23 16:20	CMR
2-Butanone (MEK)	0.80	1.4	0.37	J	2.4	4.1	1.1	0.698	3/23/23 16:20	CMR
Carbon Disulfide	0.033	0.35	0.032	J	0.10	1.1	0.10	0.698	3/23/23 16:20	CMR
Carbon Tetrachloride	0.038	0.035	0.028		0.24	0.22	0.17	0.698	3/23/23 16:20	CMR
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	3/23/23 16:20	CMR
Chloroethane	0.060	0.035	0.031		0.16	0.092	0.082	0.698	3/23/23 16:20	CMR
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	3/23/23 16:20	CMR
Chloromethane	0.65	0.070	0.028		1.3	0.14	0.057	0.698	3/23/23 16:20	CMR
Cyclohexane	0.046	0.035	0.021		0.16	0.12	0.073	0.698	3/23/23 16:20	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/23/23 16:20	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	3/23/23 16:20	CMR
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	3/23/23 16:20	CMR
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	3/23/23 16:20	CMR
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	3/23/23 16:20	CMR
Dichlorodifluoromethane (Freon 12)	0.49	0.035	0.034		2.4	0.17	0.17	0.698	3/23/23 16:20	CMR
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/23/23 16:20	CMR
1,2-Dichloroethane	0.038	0.035	0.032		0.16	0.14	0.13	0.698	3/23/23 16:20	CMR
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	3/23/23 16:20	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	3/23/23 16:20	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	3/23/23 16:20	CMR
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	3/23/23 16:20	CMR
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	3/23/23 16:20	CMR
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	3/23/23 16:20	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	3/23/23 16:20	CMR
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	3/23/23 16:20	CMR
Ethanol	350	1.4	0.62	E	660	2.6	1.2	0.698	3/23/23 16:20	CMR
Ethyl Acetate	0.76	0.35	0.18		2.7	1.3	0.64	0.698	3/23/23 16:20	CMR
Ethylbenzene	0.087	0.035	0.020		0.38	0.15	0.088	0.698	3/23/23 16:20	CMR
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	3/23/23 16:20	CMR
Heptane	0.32	0.035	0.022		1.3	0.14	0.091	0.698	3/23/23 16:20	CMR
Hexachlorobutadiene	ND	0.035	0.029	L-03, V-05	ND	0.37	0.31	0.698	3/23/23 16:20	CMR
Hexane	ND	1.4	0.18		ND	4.9	0.64	0.698	3/23/23 16:20	CMR
2-Hexanone (MBK)	0.15	0.035	0.017		0.61	0.14	0.071	0.698	3/23/23 16:20	CMR
Isopropanol	2.5	1.4	0.24		6.1	3.4	0.59	0.698	3/23/23 16:20	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	3/23/23 16:20	CMR
Methylene Chloride	0.20	0.35	0.16	J	0.68	1.2	0.56	0.698	3/23/23 16:20	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.019		ND	0.14	0.076	0.698	3/23/23 16:20	CMR
Naphthalene	ND	0.035	0.026	L-03, V-05	ND	0.18	0.14	0.698	3/23/23 16:20	CMR
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	3/23/23 16:20	CMR
Styrene	0.22	0.035	0.018		0.92	0.15	0.078	0.698	3/23/23 16:20	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	3/23/23 16:20	CMR

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-FD-1-0323
Sample ID: 23C1351-04
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:36

Sample Description/Location:
Sub Description/Location:
Canister ID: 2158
Canister Size: 6 liter
Flow Controller ID: 3508
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -7
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	4.6	0.035	0.027		31	0.24	0.18	0.698	3/23/23 16:20	CMR
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	3/23/23 16:20	CMR
Toluene	0.42	0.035	0.020		1.6	0.13	0.075	0.698	3/23/23 16:20	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.032		ND	0.26	0.24	0.698	3/23/23 16:20	CMR
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	3/23/23 16:20	CMR
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	3/23/23 16:20	CMR
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	3/23/23 16:20	CMR
Trichlorofluoromethane (Freon 11)	0.12	0.14	0.041	J	0.68	0.78	0.23	0.698	3/23/23 16:20	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14	0.039		ND	1.1	0.30	0.698	3/23/23 16:20	CMR
1,2,4-Trimethylbenzene	0.058	0.035	0.015		0.28	0.17	0.076	0.698	3/23/23 16:20	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	3/23/23 16:20	CMR
Vinyl Acetate	0.65	0.70	0.19	J	2.3	2.5	0.66	0.698	3/23/23 16:20	CMR
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	3/23/23 16:20	CMR
m&p-Xylene	0.15	0.070	0.039		0.66	0.30	0.17	0.698	3/23/23 16:20	CMR
o-Xylene	0.072	0.035	0.018		0.31	0.15	0.078	0.698	3/23/23 16:20	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	109	70-130	3/23/23 16:20

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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
23C1351-02RE1 [130058-IA-2-0323]	B335323	2	1	N/A	1000	200	10	03/24/23

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
23C1351-01 [130058-IA-1-0323]	B335600	1.74	1	N/A	1000	200	500	03/23/23
23C1351-02 [130058-IA-2-0323]	B335600	2.0	1	N/A	1000	200	500	03/23/23
23C1351-03 [130058-OA-1-0323]	B335600	1.74	1	N/A	1000	200	500	03/23/23
23C1351-04 [130058-FD-1-0323]	B335600	1.5	1	N/A	1000	200	430	03/23/23

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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 B335323 - TO-15 Prep											
Blank (B335323-BLK1)					Prepared & Analyzed: 03/24/23						
Acetone	ND	0.80									
2-Butanone (MEK)	ND	0.80									
Ethanol	ND	0.80									
4-Ethyltoluene	ND	0.020									
Isopropanol	0.21	0.80									J
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Surrogate: 4-Bromofluorobenzene (1)	*8.56*				*8.00*		*107*	*70-130*			
LCS (B335323-BS1)					Prepared & Analyzed: 03/24/23						
Acetone	4.90				5.00		98.1	70-130			
2-Butanone (MEK)	4.10				5.00		81.9	70-130			
Ethanol	4.52				5.00		90.5	70-130			
4-Ethyltoluene	4.62				5.00		92.5	70-130			
Isopropanol	3.98				5.00		79.5	70-130			
1,2,4-Trimethylbenzene	4.56				5.00		91.2	70-130			
1,3,5-Trimethylbenzene	4.58				5.00		91.5	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.60*				*8.00*		*107*	*70-130*			
Batch B335600 - TO-15 Prep											
Blank (B335600-BLK1)					Prepared & Analyzed: 03/23/23						
Acetone	ND	0.80									
Benzene	ND	0.020									
Benzyl chloride	ND	0.020									
Bromodichloromethane	ND	0.020									
Bromoform	ND	0.020									
Bromomethane	ND	0.020									
1,3-Butadiene	ND	0.020									
2-Butanone (MEK)	ND	0.80									
Carbon Disulfide	ND	0.20									
Carbon Tetrachloride	ND	0.020									
Chlorobenzene	ND	0.020									
Chloroethane	ND	0.020									
Chloroform	ND	0.020									
Chloromethane	ND	0.040									
Cyclohexane	ND	0.020									
Dibromochloromethane	ND	0.020									
1,2-Dibromoethane (EDB)	ND	0.020									
1,2-Dichlorobenzene	ND	0.020									
1,3-Dichlorobenzene	ND	0.020									
1,4-Dichlorobenzene	ND	0.020									
Dichlorodifluoromethane (Freon 12)	ND	0.020									
1,1-Dichloroethane	ND	0.020									
1,2-Dichloroethane	ND	0.020									
1,1-Dichloroethylene	ND	0.020									
cis-1,2-Dichloroethylene	ND	0.020									

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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 B335600 - TO-15 Prep											
Blank (B335600-BLK1)					Prepared & Analyzed: 03/23/23						
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.20									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									L-03, V-05
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									L-03, V-05
Propene	ND	0.80									
Styrene	ND	0.020									
1,1,2,2-Tetrachloroethane	ND	0.020									
Tetrachloroethylene	ND	0.020									
Tetrahydrofuran	ND	0.20									
Toluene	ND	0.020									
1,2,4-Trichlorobenzene	ND	0.020									
1,1,1-Trichloroethane	ND	0.020									
1,1,2-Trichloroethane	ND	0.020									
Trichloroethylene	ND	0.020									
Trichlorofluoromethane (Freon 11)	ND	0.080									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080									
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Vinyl Acetate	ND	0.40									
Vinyl Chloride	ND	0.020									
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
Surrogate: 4-Bromofluorobenzene (1)	*8.59*				*8.00*		*107*	*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 B335600 - TO-15 Prep												
LCS (B335600-BS1)					Prepared & Analyzed: 03/23/23							
Acetone	5.73				5.00		115		70-130			
Benzene	5.82				5.00		116		70-130			
Benzyl chloride	6.93				5.00		**139**	*	70-130			L-01, V-20
Bromodichloromethane	5.98				5.00		120		70-130			
Bromoform	6.33				5.00		127		70-130			
Bromomethane	5.36				5.00		107		70-130			
1,3-Butadiene	5.47				5.00		109		70-130			
2-Butanone (MEK)	4.90				5.00		97.9		70-130			
Carbon Disulfide	5.07				5.00		101		70-130			
Carbon Tetrachloride	5.49				5.00		110		70-130			
Chlorobenzene	5.39				5.00		108		70-130			
Chloroethane	5.73				5.00		115		70-130			
Chloroform	5.35				5.00		107		70-130			
Chloromethane	5.62				5.00		112		70-130			
Cyclohexane	6.10				5.00		122		70-130			
Dibromochloromethane	5.78				5.00		116		70-130			
1,2-Dibromoethane (EDB)	5.57				5.00		111		70-130			
1,2-Dichlorobenzene	5.51				5.00		110		70-130			
1,3-Dichlorobenzene	5.54				5.00		111		70-130			
1,4-Dichlorobenzene	5.89				5.00		118		70-130			
Dichlorodifluoromethane (Freon 12)	5.51				5.00		110		70-130			
1,1-Dichloroethane	5.85				5.00		117		70-130			
1,2-Dichloroethane	5.38				5.00		108		70-130			
1,1-Dichloroethylene	5.28				5.00		106		70-130			
cis-1,2-Dichloroethylene	5.44				5.00		109		70-130			
trans-1,2-Dichloroethylene	5.61				5.00		112		70-130			
1,2-Dichloropropane	6.20				5.00		124		70-130			
cis-1,3-Dichloropropene	6.11				5.00		122		70-130			
trans-1,3-Dichloropropene	6.36				5.00		127		70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.09				5.00		102		70-130			
1,4-Dioxane	6.03				5.00		121		70-130			
Ethanol	5.27				5.00		105		70-130			
Ethyl Acetate	5.10				5.00		102		70-130			
Ethylbenzene	5.52				5.00		110		70-130			
4-Ethyltoluene	5.72				5.00		114		70-130			
Heptane	6.01				5.00		120		70-130			
Hexachlorobutadiene	3.34				5.00		**66.8**	*	70-130			L-03, V-05
Hexane	5.52				5.00		110		70-130			
2-Hexanone (MBK)	5.43				5.00		109		70-130			
Isopropanol	4.70				5.00		94.0		70-130			
Methyl tert-Butyl Ether (MTBE)	5.41				5.00		108		70-130			
Methylene Chloride	4.93				5.00		98.6		70-130			
4-Methyl-2-pentanone (MIBK)	6.29				5.00		126		70-130			
Naphthalene	3.43				5.00		**68.6**	*	70-130			L-03, V-05
Propene	6.15				5.00		123		70-130			
Styrene	5.67				5.00		113		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 B335600 - TO-15 Prep											
LCS (B335600-BS1)					Prepared & Analyzed: 03/23/23						
1,1,2,2-Tetrachloroethane	5.65				5.00		113	70-130			
Tetrachloroethylene	5.52				5.00		110	70-130			
Tetrahydrofuran	5.16				5.00		103	70-130			
Toluene	5.55				5.00		111	70-130			
1,2,4-Trichlorobenzene	4.53				5.00		90.6	70-130			
1,1,1-Trichloroethane	5.40				5.00		108	70-130			
1,1,2-Trichloroethane	5.64				5.00		113	70-130			
Trichloroethylene	5.55				5.00		111	70-130			
Trichlorofluoromethane (Freon 11)	5.05				5.00		101	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.74				5.00		94.9	70-130			
1,2,4-Trimethylbenzene	5.59				5.00		112	70-130			
1,3,5-Trimethylbenzene	5.64				5.00		113	70-130			
Vinyl Acetate	6.07				5.00		121	70-130			
Vinyl Chloride	5.61				5.00		112	70-130			
m&p-Xylene	11.2				10.0		112	70-130			
o-Xylene	5.59				5.00		112	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.67*				*8.00*		*108*	*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-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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ANALYST

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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 (S082540-ICV1)			Lab File ID: J23A025019.D			Analyzed: 01/26/23 00:04			
Bromochloromethane (1)	341158	2.806	341158	2.806	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1102343	3.428	1102343	3.428	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	959356	5.043	959356	5.043	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 (S085066-CCV1)			Lab File ID: J23A083004.D			Analyzed: 03/24/23 14:27			
Bromochloromethane (1)	341732	2.78	341732	2.78	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1001669	3.413	1001669	3.413	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	911329	5.034	911329	5.034	100	60 - 140	0.0000	+/-0.50	
LCS (B335323-BS1)			Lab File ID: J23A083005.D			Analyzed: 03/24/23 14:52			
Bromochloromethane (1)	347038	2.78	341732	2.78	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1006649	3.413	1001669	3.413	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	922043	5.034	911329	5.034	101	60 - 140	0.0000	+/-0.50	
Blank (B335323-BLK1)			Lab File ID: J23A083007.D			Analyzed: 03/24/23 15:48			
Bromochloromethane (1)	334553	2.764	341732	2.78	98	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	971000	3.4	1001669	3.413	97	60 - 140	-0.0130	+/-0.50	
Chlorobenzene-d5 (1)	883906	5.031	911329	5.034	97	60 - 140	-0.0030	+/-0.50	
130058-IA-2-0323 (23C1351-02RE1)			Lab File ID: J23A083022.D			Analyzed: 03/24/23 22:43			
Bromochloromethane (1)	339050	2.767	341732	2.78	99	60 - 140	-0.0130	+/-0.50	
1,4-Difluorobenzene (1)	995983	3.403	1001669	3.413	99	60 - 140	-0.0100	+/-0.50	
Chlorobenzene-d5 (1)	917023	5.03	911329	5.034	101	60 - 140	-0.0040	+/-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 (S085202-CCV1)			Lab File ID: J23A082005.D			Analyzed: 03/23/23 12:17			
Bromochloromethane (1)	296957	2.78	296957	2.78	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	853952	3.413	853952	3.413	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	770016	5.034	770016	5.034	100	60 - 140	0.0000	+/-0.50	
LCS (B335600-BS1)			Lab File ID: J23A082006.D			Analyzed: 03/23/23 12:42			
Bromochloromethane (1)	295090	2.78	296957	2.78	99	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	851872	3.413	853952	3.413	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	764347	5.034	770016	5.034	99	60 - 140	0.0000	+/-0.50	

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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
Blank (B335600-BLK1)			Lab File ID: J23A082009.D			Analyzed: 03/23/23 14:11			
Bromochloromethane (1)	280704	2.761	296957	2.78	95	60 - 140	-0.0190	+/-0.50	
1,4-Difluorobenzene (1)	800850	3.401	853952	3.413	94	60 - 140	-0.0120	+/-0.50	
Chlorobenzene-d5 (1)	708726	5.031	770016	5.034	92	60 - 140	-0.0030	+/-0.50	
130058-IA-1-0323 (23C1351-01)			Lab File ID: J23A082010.D			Analyzed: 03/23/23 14:44			
Bromochloromethane (1)	294748	2.764	296957	2.78	99	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	841751	3.404	853952	3.413	99	60 - 140	-0.0090	+/-0.50	
Chlorobenzene-d5 (1)	757808	5.031	770016	5.034	98	60 - 140	-0.0030	+/-0.50	
130058-IA-2-0323 (23C1351-02)			Lab File ID: J23A082011.D			Analyzed: 03/23/23 15:16			
Bromochloromethane (1)	296678	2.764	296957	2.78	100	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	857771	3.401	853952	3.413	100	60 - 140	-0.0120	+/-0.50	
Chlorobenzene-d5 (1)	775908	5.031	770016	5.034	101	60 - 140	-0.0030	+/-0.50	
130058-OA-1-0323 (23C1351-03)			Lab File ID: J23A082012.D			Analyzed: 03/23/23 15:48			
Bromochloromethane (1)	294657	2.764	296957	2.78	99	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	842666	3.401	853952	3.413	99	60 - 140	-0.0120	+/-0.50	
Chlorobenzene-d5 (1)	756288	5.031	770016	5.034	98	60 - 140	-0.0030	+/-0.50	
130058-FD-1-0323 (23C1351-04)			Lab File ID: J23A082013.D			Analyzed: 03/23/23 16:20			
Bromochloromethane (1)	296879	2.764	296957	2.78	100	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	853396	3.404	853952	3.413	100	60 - 140	-0.0090	+/-0.50	
Chlorobenzene-d5 (1)	774403	5.031	770016	5.034	101	60 - 140	-0.0030	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085066-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.73	0.9172061	0.868044		-5.4	30
2-Butanone (MEK)	A	5.00	4.08	1.412082	1.152421		-18.4	30
Ethanol	A	5.00	5.04	0.1626733	0.1639413		0.8	30
4-Ethyltoluene	A	5.00	4.72	1.333301	1.257199		-5.7	30
Isopropanol	A	5.00	4.73	1.0816	1.023338		-5.4	30
1,2,4-Trimethylbenzene	A	5.00	4.70	1.114566	1.047673		-6.0	30
1,3,5-Trimethylbenzene	A	5.00	4.72	1.126426	1.062262		-5.7	30

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

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085202-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.33	0.9172061	0.9783504		6.7	30
Benzene	A	5.00	5.61	0.7387105	0.8286124		12.2	30
Benzyl chloride	A	5.00	6.89	0.7213395	0.9937123		37.8	30 *
Bromodichloromethane	A	5.00	5.83	0.5251533	0.61201		16.5	30
Bromoform	A	5.00	6.02	0.4277704	0.5146179		20.3	30
Bromomethane	A	5.00	5.16	0.6097815	0.6288587		3.1	30
1,3-Butadiene	A	5.00	5.41	0.4638914	0.5023003		8.3	30
2-Butanone (MEK)	A	5.00	4.60	1.412082	1.297632		-8.1	30
Carbon Disulfide	A	5.00	4.66	1.950889	1.819102		-6.8	30
Carbon Tetrachloride	A	5.00	5.54	0.4804808	0.5325358		10.8	30
Chlorobenzene	A	5.00	5.19	0.7448082	0.7734717		3.8	30
Chloroethane	A	5.00	5.32	0.3583321	0.3811892		6.4	30
Chloroform	A	5.00	5.04	1.602387	1.61354		0.7	30
Chloromethane	A	5.00	5.41	0.498645	0.5394289		8.2	30
Cyclohexane	A	5.00	5.76	0.3089687	0.3561643		15.3	30
Dibromochloromethane	A	5.00	5.56	0.5087335	0.5655779		11.2	30
1,2-Dibromoethane (EDB)	A	5.00	5.38	0.4954263	0.5332585		7.6	30
1,2-Dichlorobenzene	A	5.00	5.33	0.6000711	0.6398454		6.6	30
1,3-Dichlorobenzene	A	5.00	5.43	0.6282622	0.6819141		8.5	30
1,4-Dichlorobenzene	A	5.00	5.90	0.5785005	0.6829593		18.1	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.35	1.788333	1.912681		7.0	30
1,1-Dichloroethane	A	5.00	5.49	1.234282	1.356258		9.9	30
1,2-Dichloroethane	A	5.00	5.09	1.007865	1.025926		1.8	30
1,1-Dichloroethylene	A	5.00	4.87	1.125918	1.095905		-2.7	30
cis-1,2-Dichloroethylene	A	5.00	5.25	0.988136	1.036869		4.9	30
trans-1,2-Dichloroethylene	A	5.00	5.39	1.018061	1.097619		7.8	30
1,2-Dichloropropane	A	5.00	5.93	0.2543605	0.3014952		18.5	30
cis-1,3-Dichloropropene	A	5.00	6.08	0.3935901	0.4786911		21.6	30
trans-1,3-Dichloropropene	A	5.00	6.08	0.350459	0.4262141		21.6	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.22	1.768022	1.844604		4.3	30
1,4-Dioxane	A	5.00	5.74	0.1607629	0.1846736		14.9	30
Ethanol	A	5.00	5.55	0.1626733	0.1806053		11.0	30
Ethyl Acetate	A	5.00	5.20	0.2181169	0.2267641		4.0	30
Ethylbenzene	A	5.00	5.38	1.320541	1.420964		7.6	30
4-Ethyltoluene	A	5.00	5.55	1.333301	1.479759		11.0	30
Heptane	A	5.00	5.88	0.2163238	0.2543937		17.6	30
Hexachlorobutadiene	A	5.00	3.28	0.4316824	0.283219		-34.4	30 *
Hexane	L	5.00	5.27	0.7010749	0.7456702		5.4	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085202-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2-Hexanone (MBK)	A	5.00	5.07	0.5317658	0.5391659		1.4	30	
Isopropanol	A	5.00	5.36	1.0816	1.158837		7.1	30	
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.20	2.038246	2.118454		3.9	30	
Methylene Chloride	A	5.00	4.64	0.7621343	0.707658		-7.1	30	
4-Methyl-2-pentanone (MIBK)	A	5.00	5.80	0.2070279	0.2403189		16.1	30	
Naphthalene	A	5.00	3.23	0.9438203	0.6099572		-35.4	30	*
Propene	A	5.00	5.89	0.3658411	0.4306617		17.7	30	
Styrene	A	5.00	5.48	0.7117754	0.780497		9.7	30	
1,1,2,2-Tetrachloroethane	A	5.00	5.40	0.7493945	0.8094149		8.0	30	
Tetrachloroethylene	A	5.00	5.40	0.3917065	0.4233242		8.1	30	
Tetrahydrofuran	A	5.00	4.74	0.721119	0.6843442		-5.1	30	
Toluene	A	5.00	5.28	1.018666	1.07476		5.5	30	
1,2,4-Trichlorobenzene	A	5.00	4.44	0.3480916	0.3089099		-11.3	30	
1,1,1-Trichloroethane	A	5.00	5.42	0.5043155	0.5468054		8.4	30	
1,1,2-Trichloroethane	A	5.00	5.33	0.3354709	0.3573889		6.5	30	
Trichloroethylene	A	5.00	5.34	0.332105	0.354967		6.9	30	
Trichlorofluoromethane (Freon 11)	A	5.00	4.88	1.844271	1.798057		-2.5	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	4.44	1.418208	1.257987		-11.3	30	
1,2,4-Trimethylbenzene	A	5.00	5.50	1.114566	1.225373		9.9	30	
1,3,5-Trimethylbenzene	A	5.00	5.47	1.126426	1.231972		9.4	30	
Vinyl Acetate	A	5.00	5.16	1.280082	1.319965		3.1	30	
Vinyl Chloride	A	5.00	5.29	0.6431254	0.6801739		5.8	30	
m&p-Xylene	A	10.0	10.8	1.065519	1.154159		8.3	30	
o-Xylene	A	5.00	5.36	1.040057	1.115441		7.2	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

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
http://www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

23C1351

CHAIN OF CUSTODY RECORD (AIR)

Company Name: EA Engineering, Science, and Technology
Address: 209 W. Jefferson St. Syracuse, NY 13202
Phone: (315) 415-7689
Project Name: ~~Taber Steel Anodizing~~ TresBon Cleaners
Project Location: ~~Niagara Falls, NY~~ Franklin Square, NY
Project Number: 16025523.0011
Project Manager: Michael Miller
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: L. Backman-Lowe

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

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

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: michaelmiller@eaest.com
Fax To #:

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 Can ID	Flow Controller ID
01	130058-IA-1-0323	1253 03/06	0935 03/07	1242		IA		X				-30	-13	-12.1	1618	3417
02	130058-IA-2-0323	1314 03/06	0940 03/07	1226		IA		X				-29	-14	-13.7	2157	3731
03	130058-OA-1-0323	1258 03/06	0936 03/07	1238		AMB		X				-29	-12	-11.5	1073	3732
04	130058-FD-1-0323	1253 03/06	0936 03/07	1243		IA		X				-28	-7	-3.0	2158	3508

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: *Cat B deliverable* requested

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) L. Backman-Lowe	Date/Time: 03/08/23 1115	
Received by: (signature) PACE Pok	Date/Time: 3/8/23 11:18	
Relinquished by: (signature) PACE	Date/Time: 3/9/23 1410	
Received by: (signature)	Date/Time: 3/10/23	
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

[redacted]

FedEx® Tracking

DELIVERED

Friday

3/10/2023 at 9:36 am

Signed for by: L.ARROYO

Obtain Proof of delivery

How was your delivery?

☆ ☆ ☆ ☆ ☆

DELIVERY STATUS

Delivered

TRACKING ID

771523410134

FROM
Newburgh, NY US

Label Created
3/9/2023 1:26 PM

PACKAGE RECEIVED BY FEDEX
NEWBURGH, NY
3/9/2023 4:16 PM

IN TRANSIT
WINDSOR LOCKS, CT
3/10/2023 7:26 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
3/10/2023 7:36 AM

DELIVERED
EAST LONGMEADOW, MA US

Delivered
3/10/2023 at 9:36 AM

↓ View travel history

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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 EA Engineering, Science, and Technology

Project Tres Bon Cleaners

MCP/RCP Required ____

Deliverable Package Requirement CATB

Location Franklin Square, NY

PWSID# (When Applicable) ____

Arrival Method FedEx 7715 2341 0134

Received By / Date / Time LA 3-10-23 0935

Back-Sheet By / Date / Time TPH 3-10-23 1405

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
Summa Cans	4	6L	4	24hr
Tedlar Bags				
TO-17 Tubes				
Radiello				
Pufs/ TO-11				

Accessories			
Nut/Ferrule		IC Train	
Tubing			
T-Connector		Shipping Charges	
Syringe			
Tedlar			

Can #'s							
1	1618	9		17		25	
2	2157	10		18		26	
3	1073	11		19		27	
4	2158	12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Regs #'s							
1	3417	9		17		25	
2	3731	10		18		26	
3	3732	11		19		27	
4	3508	12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Unused Media							
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	

Pufs/TO-17's							
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: 1/13/2023 **Batch #:** 23CC0028

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

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

Media IDs: BC1618

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

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: CMR 3/29/23

Air Sampling Media Certificate of Analysis

Date Analyzed: 1/16/2023 **Batch #:** 23CC0029

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

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

Media IDs: BC2157, BC1073

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
0.05	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: CMR 3/29/23

Air Sampling Media Certificate of Analysis

Date Analyzed: 1/18/2023 **Batch #:** 23CC0038

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

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

Media IDs: BC2158

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

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: CMR 3/29/23

Attachment 5

Data Usability Summary Report

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EA Engineering, P.C. and Its Affiliate
EA Science and Technology

269 W. Jefferson Street
Syracuse, NY 13202
Telephone: 315-431-4610
www.eaest.com

17 May 2022

Ms. Evelyn Hussey
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7012

RE: Summary of Indoor Air Sampling Results from March 2022
Contract/Work Assignment No.: D009806-23
Tres Bon Cleaners, Franklin Square, New York
Site No. 130058
EA Project No. 1602523

Dear Ms. Hussey:

This letter provides a summary of analytical results for samples collected during field activities at the Tres Bon Cleaners (No. 130058) in the Village of Franklin Square, Nassau County, New York (**Figure 1**). EA Engineering, P.C. and its affiliate EA Science and Technology (EA) completed sampling to evaluate the indoor air quality during the operation of New York State Department of Conservation (NYSDEC) provided air filters.

Site Background

The Tres Bon Cleaner site is a Class 4 inactive hazardous waste disposal site that is approximately 0.25 acres at 197 Franklin Avenue. The site is currently leased as a commercial/retail tenant space. The surrounding parcels are used for a combination of residential and commercial uses. The nearest residential area is directly adjacent to the south and west site borders.

The Tres Bon Cleaners property operated as a dry cleaner from 1962 to 2003. In January 1988, the Nassau County Department of Health completed a site inspection and observed that water from the dry-cleaning fluid separator was being discharged to the soil and pavement in the rear of the building. Shortly afterward, the tetrachloroethylene (PCE)/water separator discharge was discontinued. Prior to March 2004, all dry-cleaning operations at this location were discontinued, and all dry-cleaning equipment was dismantled and removed from the site in October 2003 by the property owner.

Air Sampling Event

EA completed air sampling on 14 & 15 March 2022. The purpose of the event was to evaluate the potential for volatile organic compounds (VOCs) such as PCE to enter the building and impact indoor air through a process called soil vapor intrusion. The samples were collected as part of a continued effort to evaluate the effectiveness of the on-site air purifying unit and the potential need for installation of a sub slab diffusion system. Two indoor air samples were collected inside the

building, and one outdoor air sample was collected concurrently to provide information on background ambient air quality in the vicinity of the site. Sample locations are provided in **Figure 1**. Daily Field Reports and Field Notes are provided in **Attachments 1 and 2**, respectively. During the event, the New York State Department of Health (NYSDOH) Indoor Air Quality Questionnaire was completed and is provided in **Attachment 3**.

The air canisters were shipped to Pace Analytical National located in Mount Juliet, Tennessee. Pace Analytical National is an approved Environmental Laboratory Analytical Program certified laboratory for analysis of volatile organic compounds by Method TO-15. Analytical data are provided in **Attachment 4**.

Analytical Results

Analytical results for the air samples have been validated by an independent third party. A summary of validated analytical results from the March 2022 sampling compared to NYSDOH Ambient Air Guidelines and Immediate Action Levels is provided on **Table 1**. The Data Usability Summary Report is provided as **Attachment 5**. Concentrations of PCE (15.3 µg/m^3 maximum) detected in indoor air were less than the New York State Department of Health Air Guideline Value of 30 µg/m^3. In 2016 and 2018, PCE had been detected at concentrations greater than the guidance value.

Indoor Air Matrix Evaluation

For an estimation of risk, analytic results were evaluated using the NYSDOH indoor air decision matrices (2006)[1]. Both indoor air and sub-slab vapor samples are required to complete the matrices evaluation, however no sub-slab vapor samples were collected in 2022. The most recent sub-slab vapor samples were collected in 2016 and 2018 and PCE was the only analyte detected (concentrations of 82,000 µg/m^3 and 80,000 µg/m^3, respectively). The 2018 concentration for PCE will be used for the evaluation.

Matrix A evaluates carbon tetrachloride, 1,1-dichloroethene, cis-1,2-dichloroethene, and trichloroethene, of which only carbon tetrachloride was detected in one of two indoor air samples. Based on the 2022 detected concentration of 0.569 µg/m^3 and 2016 and 2018 non-detect sub-slab concentrations, Matrix A requires no further action.

Matrix B evaluates methylene chloride, PCE, and 1,1,1-trichloroethane, of which methylene chloride and PCE were detected in 2022 indoor air samples. Methylene chloride was detected at a maximum indoor air concentration of 0.927 in the duplicate sample from location 130058-IA-01 and was not detected in 2016 or 2018 sub-slab samples. Based on Matrix B, no further action is required for methylene chloride.

[1] NYSDOH. 2006. *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, October, and NYSDOH Soil Vapor Intrusion Updates dated September 2013, August 2015, and May 2017.

PCE was detected at a maximum indoor air concentration of 15.3 µg/m^3 and a 2018 sub-slab sample concentration of 80,000 µg/m^3. Based on these concentrations, Matrix B requires mitigation for PCE in the building.

Matrix C evaluates vinyl chloride which was not detected in 2022 indoor air samples or 2016 and 2018 sub-slab samples. Matrix C requires no further action.

Recommendations

Currently, indoor air concentrations are less than NYSDOH Air Guideline Values when the air purifying units are operating. However, based on the Matrix B evaluation of PCE, further mitigation may be required. A sub-slab depressurization system (SSDS) could potentially be used to mitigate PCE entering the building through soil vapor intrusion.

Installation of an SSDS will require additional upfront cost but will provide more reliable operation and potentially a reduction in long term operating costs and maintenance when compared to operation of the air purifying unit and routine sampling.

Sincerely,

EA ENGINEERING, P.C. AND ITS AFFILIATE
EA SCIENCE AND TECHNOLOGY

Chris Schroer
Project Manager

Attachments

cc: S. Saucier
D. Tucholski
D. Conan
L. DeSantis
M. Miller

Figures

Tables

Attachments

Figures

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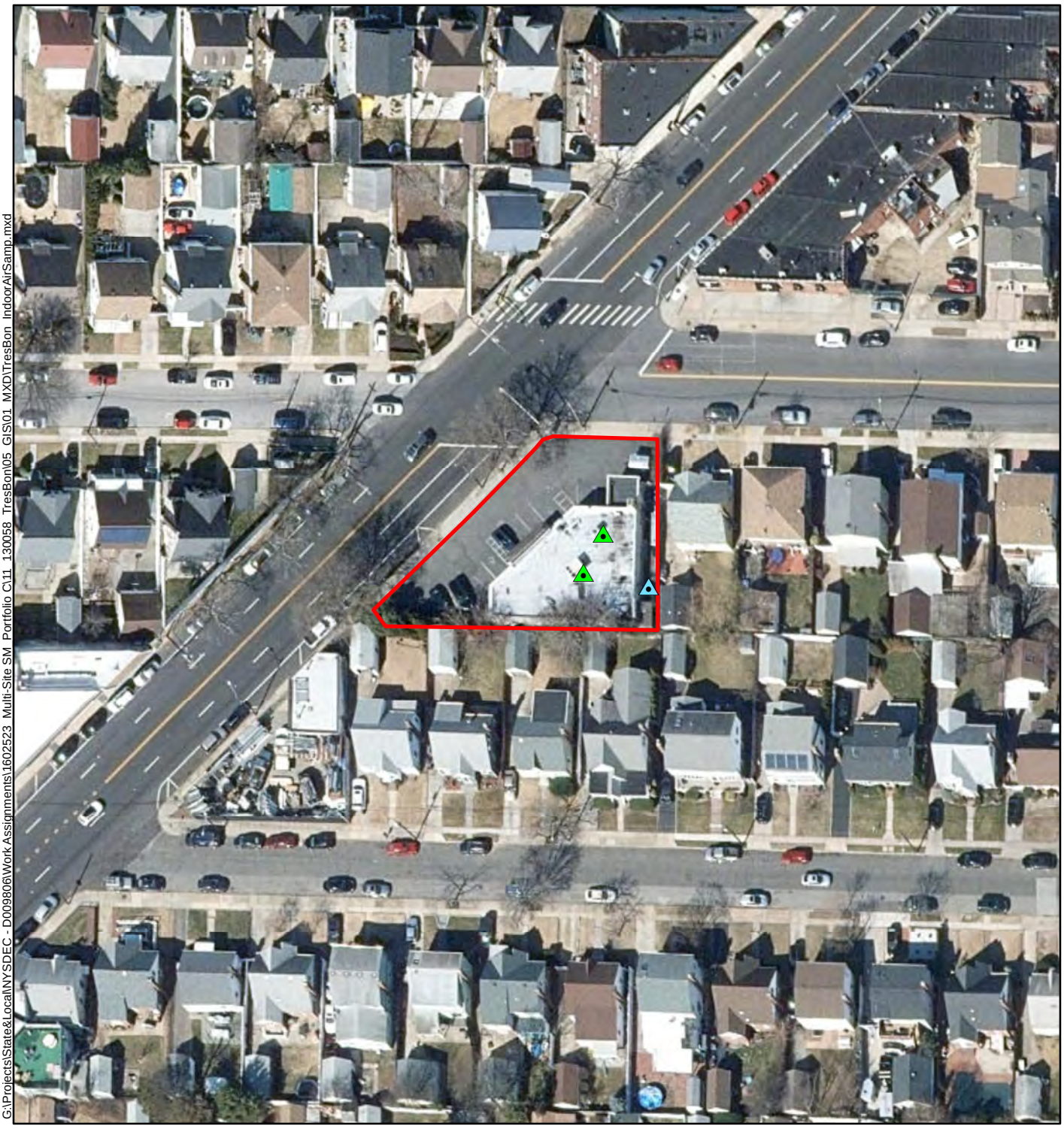
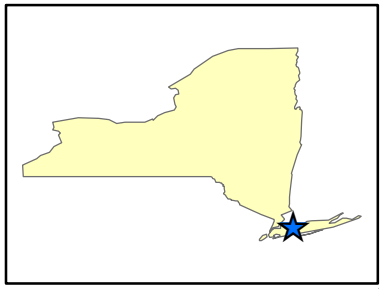


G:\Projects\State&Local\NYSDEC - D009806\Work Assignments\1602523 Multi-Site SM Portfolio C\11 130058 TresBon\05 GIS\01 MXD\TresBon IndoorAirSamp.mxd



0 130
Feet

N

Legend

- Indoor Air Sample (Approximate
- Outdoor Air Sample (Approximate
- Tres Bon Cleaners Approximate Site Boundary
- Site Location

Figure 1
Site and Sample Locations (March 2022)
Tres Bon Cleanersl (NYSDEC Site 130058)
Franklin Square, NY

Map Date: 5/17/2022
Projection: NAD83 State Plane New York Long Island
FIPS 3104 Feet

EA | NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

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Tables

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Table 1. Summary of Detected VOCs in Indoor and Outdoor Air (March 2022)

Analyte	Building	Indoor Air						Outdoor Air		NYSDOH Ambient Air Quality Guideline[1]	NYSDOH Ambient Air Quality Recommended Immediate Action Level[1]
	Sample ID	130058-IA1		130058-IA-2		130058-DUP-1		130058-OA-1			
	Laboratory ID	L147195-01		L1471925-02		L1471925-02		L1471925-03			
	Room	1st Floor/Show Room		1st Floor/Kitchen		1st Floor/Show Room		Outdoor			
	Sample Date	3/15/2022		3/15/2022		3/15/2022		3/15/2022			
	Sample Type	Indoor Air		Indoor Air		Indoor Air		Outdoor Air			
VOCs (TO-15)											
1,2,4-Trimethylbenzene	µg/m^3	U		0.834	J	U		U		--	--
1,2-Dichloroethane	µg/m^3	0.437	J	U		0.409	J	U		--	--
2-Butanone (MEK)	µg/m^3	6.1		4.48		4.87		1.78	J	--	--
2,2,4-Trimethylpentane	µg/m^3	U		0.649	J	U		U		--	--
Benzene	µg/m^3	0.543	J	1.02		0.53	J	0.77		--	--
Carbon tetrachloride	µg/m^3	U		0.569	J	U		U		--	--
Chloromethane	µg/m^3	1.34		1.36		1.49		1.26		--	--
Dichlorodifluoromethane	µg/m^3	2.33		2.6		2.6		2.44		--	--
Ethanol	µg/m^3	1340		2560		1600		232		--	--
Ethylbenzene	µg/m^3	U		0.377	J	U		U		--	--
Trichlorofluoromethane	µg/m^3	1.4		1.44		1.39		1.23		--	--
4-Methyl-2-pentanone (MIBK)	µg/m^3	0.815	J	U		0.491	J	U		--	--
Methylene Chloride	µg/m^3	0.861		0.809		0.927		0.743		*60*	--
tert-Butyl alcohol	µg/m^3	3.97		1.88		U		0.603	J	--	--
Tetrachloroethylene (PCE)	µg/m^3	13.6		15.3		12.8		U		*30*	*300*
Toluene	µg/m^3	3.22		3.32		3.1		1.37	J	--	--
m&p-Xylene	µg/m^3	0.698	J	1.14	J	U		U		--	--
o-Xylene	µg/m^3	0.413	J	0.581	J	U		U		--	--
(S) 1,4-Bromofluorobenzene	µg/m^3	97.9		96.3		96.6		96.5		--	--
(S) 1,4-Bromofluorobenzene	µg/m^3	97.7		96.8		95		97		--	--

NOTES:

[1.] NYSDOH Ambient Air Guidelines and Immediate Action Levels based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013, August 2015, and May 2017.

µg/m3 = Microgram(s) per cubic meter = parts per billion
ID = Identification
J = The identification of the analyte is acceptable; the reported value is an estimate.
NYSDEC = New York State Department of Environmental Conservation
NYSDOH = New York State Department of Health
VOC = Volatile organic compound
U = Not detected at the Reporting Limit (or Method Detection Limit where applicable).

Analytical data results provided by Pace Analytical.

Duplicate sample was collected at 130058-IA-1

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Attachment 1

Daily Field Reports

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DAILY FIELD REPORT **Day: Monday Date: 14 March 2022**

Temperature: (F) am: N/A
pm: 53° F

Wind Direction: n/a
Weather: Sun, Clear

Project Name: Tres Bon

NYSDEC Site # 130058

Work Assignment # 1602523 **Arrive at site:** 1510 (am)

Location: Village of Franklin Square , New York **Leave site:** 1600 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes (x)	n/a ( )	* No ( )

OTHER ITEMS:

- *If No, provide comments*

Site Sketch Attached: Yes ( ) No (x)
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

(1510) EA (L. Backman-Lowe) onsite. (1512) Brief inspection of cigar shop, log building inventory, air purifier was running. (1527) Set SUMMA cannister for indoor air parent sample 130058-IA-1 and field duplicate 130058-DUP-1, breathing zone height next to air purifier. (1538) Set SUMMA cannister for outdoor air sample 130058-OA-1. (1548) Set SUMMA cannister for indoor air sample 130058-IA-2 in pretzel shop. (1550) Log building inventory. (1600) EA offsite.

Samples collected:
130058-IA-1
130058-IA-2
130058-OA-1
130058-DUP-1

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: Lincoln Backman-Lowe

NYSDEC personnel: None

Subcontractor personnel: None

EA equipment:*

Subcontractor Equipment: MiniRAE 3000 (photoionization detector)

(*Indicates active equipment)

VISITORS TO SITE:

None

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

None.

COMMENTS:

None.

ATTACHMENT(S) TO THIS REPORT:

Photolog of building inventory

SITE REPRESENTATIVE:

Name: L. DeSantis

cc:

Photographic Record

Former Tres Bon Cleaners
Franklin Square, NY
March 14, 2022

Case of butane torches, closed

Case of charcoal packages, closed

SUMMA Canisters (left) next to air purifier (right

Bleach container, floor of wash closet

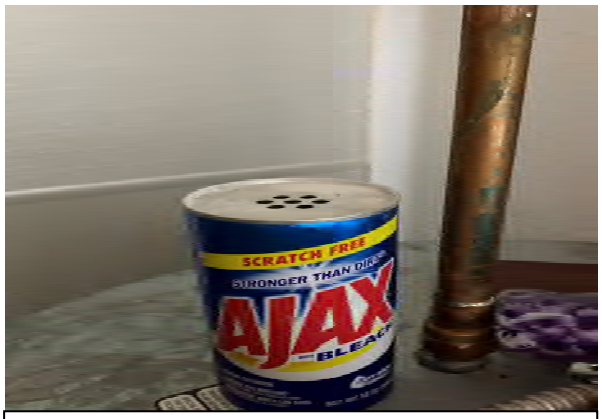
Bleach container, with no cap floor of wash closet

Fabric freshener with no cap, floor of wash closet

Photographic Record

Former Tres Bon Cleaners
Franklin Square, NY
March 14, 2022

Dish soap, sink in wash closet

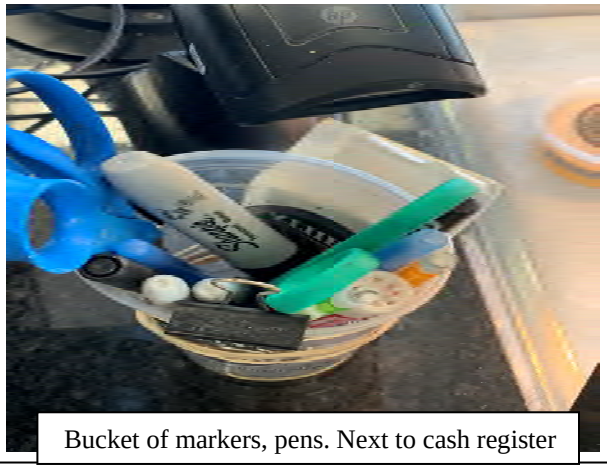


Bleach powder, on water heater tank in wash closet

SUMMA cannister (bottom left) in outdoor air location behind cigar shop

SUMMA cannister indoor air sample location in pretzel shop

Surface cleaner, under cash register, floor level



Bucket of markers, pens. Next to cash register

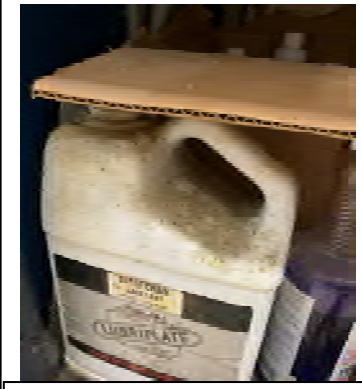
Photographic Record

Former Tres Bon Cleaners
Franklin Square, NY
March 14, 2022

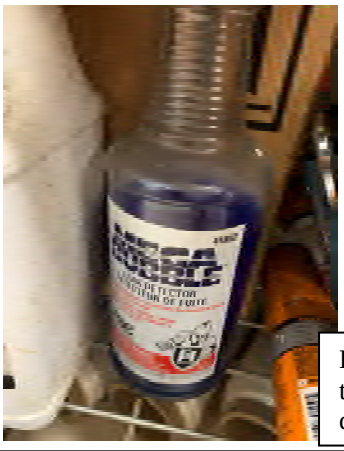
Canola oil spray, breathing zone height, near oven

Insect repellant spray, floor level in storage hallway

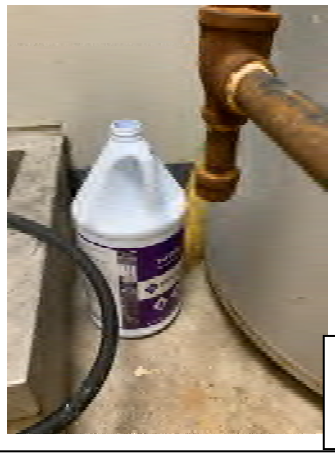
Weed killer spray, floor level in storage hallway



Bottle of lubricant, no cap, floor level in storage hallway



Leak detector bottle, top shelf near dishwashing station



Degreaser, no cap, floor level near dishwashing station

DAILY FIELD REPORT **Day: Monday Date: 15 March 2022**

Temperature: (F) am: N/A
pm: 55° F

Wind Direction: n/a
Weather: Sun, Clear

Project Name: Tres Bon

NYSDEC Site # 130058

Work Assignment # 1602523 **Arrive at site:** 1503 (am)

Location: Village of Franklin Square, New York **Leave site:** 1600 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?				
	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

OTHER ITEMS:

- *If No, provide comments*

Site Sketch Attached: Yes ( ) No (x)
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

(1503) EA (L. Backman-Lowe) onsite. (1506) Collect 130058-IA-1 and 130058-DUP-1 indoor air sample cannisters from cigar shop. (1513) Collect 130058-OA-1 outdoor air sample cannister from alley behind cigar shop. (1517) Collect 130058-IA-2 indoor air sample cannister from pretzel shop. (1520) Package SUMMA cannister samples and flow control devices and fill out chain of custody. (1600) EA offsite to ship sample containers.

Samples collected:
130058-IA-1
130058-IA-2
130058-OA-1
130058-DUP-1

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: Lincoln Backman-Lowe

NYSDEC personnel: None

Subcontractor personnel: None

EA equipment:*

Subcontractor Equipment: None

(*Indicates active equipment)

VISITORS TO SITE:

None

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

None.

COMMENTS:

None.

ATTACHMENT(S) TO THIS REPORT:

None.

SITE REPRESENTATIVE:

Name: L. DeSantis

cc:

INDOOR AIR SAMPLING FORM

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

Project No. 1002523.0011
Project Name: Tesbon
Location: Long Island
Project Manager: L. DeSantis

Sample Location Information:

Site ID Number:	130058	Sampler(s):	LDL
PID Meter Used: (Model, Serial #)	045751	Building I.D. No.:	

SUMMA Canister Record:

INDOOR AIR - FIRST FLOOR		INDOOR AIR - BASEMENT		SUBSLAB SOIL GAS		OUTDOOR AIR	
Flow Regulator No.	02125,4	Flow Regulator No.		Flow Regulator No.		Flow Regulator No.	
Canister Serial No.	11128	Canister Serial No.:		Canister Serial No.:		Canister Serial No.:	
Start Date/Time:	3/14/22 1527	Start Date/Time:		Start Date/Time:		Start Date/Time:	
Start Pressure: (inches Hg)	30.0 Hg	Start Pressure: (inches Hg)		Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	
Stop Date/Time:	3/15/22 1506	Stop Date/Time:		Stop Date/Time:		Stop Date/Time:	
Stop Pressure: (inches Hg)	6.5 Hg	Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	
Sample ID:	130058-IA-1 IA-C (LDL)	Sample ID:		Sample ID:		Sample ID:	

Other Sampling Information:

Story/Level	1	Story/Level		Basement or Crawl Space?		Direction from Building	
Room	shed room	Room		Floor Slab Thickness (inches) *[if present]*		Distance from Building	
Indoor Air Temp (°F)	70 °F	Indoor Air Temp		Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Barometric Pressure?	(LDL) ~~30 Hg~~	Barometric Pressure?		Ground Surface Condition (Crawl Space Only)		Intake Tubing Used?	
Intake Height Above Floor Level (ft.)	5'	Intake Height Above Floor Level (ft.)		If slab, intake Depth If Crawl Space, intake height		Distance to nearest Roadway	
Noticeable Odor?	NO	Noticeable Odor?		Noticeable Odor?		Noticeable Odor?	
PID Reading (ppb)	0.0	PID Reading (ppb)		PID Reading (ppb)		PID Reading (ppb)	
Duplicate Sample?	NO	Duplicate Sample?		Duplicate Sample?		Duplicate Sample?	

Comments:

Sampler Signature:

INDOOR AIR SAMPLING FORM

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

Project No. 1602523.0011
Project Name: Tres Bon
Location: Franklin Square, NY
Project Manager: L. DeSantis

Sample Location Information:

Site ID Number:	130058	Sampler(s):	LBL
PID Meter Used: (Model, Serial #)	045751	Building I.D. No.:	

SUMMA Canister Record:

INDOOR AIR - FIRST FLOOR		INDOOR AIR - BASEMENT		SUBSLAB SOIL GAS		OUTDOOR AIR	
Flow Regulator No.	01980	Flow Regulator No.		Flow Regulator No.		Flow Regulator No.	
Canister Serial No.	00917 82	Canister Serial No.:		Canister Serial No.:		Canister Serial No.:	
Start Date/Time:	3/14/22 1548	Start Date/Time:		Start Date/Time:		Start Date/Time:	
Start Pressure: (inches Hg)	-30.0	Start Pressure: (inches Hg)		Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	
Stop Date/Time:	3/15/22 1517	Stop Date/Time:		Stop Date/Time:		Stop Date/Time:	
Stop Pressure: (inches Hg)	-7.0	Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	
Sample ID:	130058-IA-2	Sample ID:		Sample ID:		Sample ID:	

Other Sampling Information:

Story/Level	1	Story/Level		Basement or Crawl Space?		Direction from Building	
Room	Kitchen	Room		Floor Slab Thickness (inches) *[if present]*		Distance from Building	
Indoor Air Temp (°F)	77°F	Indoor Air Temp		Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Barometric Pressure?		Barometric Pressure?		Ground Surface Condition (Crawl Space Only)		Intake Tubing Used?	
Intake Height Above Floor Level (ft.)	6'	Intake Height Above Floor Level (ft.)		If slab, intake Depth If Crawl Space, intake height		Distance to nearest Roadway	
Noticeable Odor?	NO	Noticeable Odor?		Noticeable Odor?		Noticeable Odor?	
PID Reading (ppb)	0.2	PID Reading (ppb)		PID Reading (ppb)		PID Reading (ppb)	
Duplicate Sample?	NO	Duplicate Sample?		Duplicate Sample?		Duplicate Sample?	

Comments:

Sampler Signature:

INDOOR AIR SAMPLING FORM

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

Project No. 1602523.0011
Project Name: Tres Bon
Location: Franklin Square, NY
Project Manager: L. DeSantis

Sample Location Information:

Site ID Number:	130058	Sampler(s):	LBL
PID Meter Used: (Model, Serial #)	04/5791	Building I.D. No.:	

SUMMA Canister Record:

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No. 01169	Flow Regulator No.	Flow Regulator No.	Flow Regulator No.
Canister Serial No. 1259	Canister Serial No.:	Canister Serial No.:	Canister Serial No.:
Start Date/Time: 3/14/22 1527	Start Date/Time:	Start Date/Time:	Start Date/Time:
Start Pressure: (inches Hg) 29.5 Hg	Start Pressure: (inches Hg)	Start Pressure: (inches Hg)	Start Pressure: (inches Hg)
Stop Date/Time: 1506 3/15/22	Stop Date/Time:	Stop Date/Time:	Stop Date/Time:
Stop Pressure: (inches Hg) 6.5 Hg	Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg)
Sample ID: IA (SBL) 130058-DUP-1	Sample ID:	Sample ID:	Sample ID:

Other Sampling Information:

Story/Level	1	Story/Level		Basement or Crawl Space?		Direction from Building	
Room	Show room	Room		Floor Slab Thickness (inches) *[if present]*		Distance from Building	
Indoor Air Temp (°F)	~70°F	Indoor Air Temp		Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Barometric Pressure?	(BP) ~~29.5 Hg~~	Barometric Pressure?		Ground Surface Condition (Crawl Space Only)		Intake Tubing Used?	
Intake Height Above Floor Level (ft.)	5'	Intake Height Above Floor Level (ft.)		If slab, intake Depth If Crawl Space, intake height		Distance to nearest Roadway	
Noticeable Odor?	ND	Noticeable Odor?		Noticeable Odor?		Noticeable Odor?	
PID Reading (ppb)	0.0	PID Reading (ppb)		PID Reading (ppb)		PID Reading (ppb)	
Duplicate Sample?	Yes	Duplicate Sample?		Duplicate Sample?		Duplicate Sample?	

Comments:

Sampler Signature:

INDOOR AIR SAMPLING FORM

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

Project No. 1602523.0011
Project Name: Tres Bon
Location: Franklin Sq., NY
Project Manager: L. DeSantis

Sample Location Information:

Site ID Number:	~~LBL~~ 130058	Sampler(s): LBL	
PID Meter Used: (Model, Serial #)	045751	Building I.D. No.:	

SUMMA Canister Record:

INDOOR AIR - FIRST FLOOR		INDOOR AIR - BASEMENT		SUBSLAB SOIL GAS		OUTDOOR AIR	
Flow Regulator No.	~~011718~~	Flow Regulator No.		Flow Regulator No.		Flow Regulator No.	011718
Canister Serial No.	~~020806~~	Canister Serial No.:		Canister Serial No.:		Canister Serial No.:	020806
Start Date/Time:	~~3/14/22~~ LBL	Start Date/Time:		Start Date/Time:		Start Date/Time:	3/14/22 1538
Start Pressure: (inches Hg)	~~30.0~~ LBL	Start Pressure: (inches Hg)		Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	30.0
Stop Date/Time:		Stop Date/Time:		Stop Date/Time:		Stop Date/Time:	3/15/22 1513
Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	3.5
Sample ID:		Sample ID:		Sample ID:		Sample ID:	130058-OA-1

Other Sampling Information:

Story/Level		Story/Level		Basement or Crawl Space?		Direction from Building	
Room		Room		Floor Slab Thickness (inches) *[if present]*		Distance from Building	6.5 ft
Indoor Air Temp (°F)		Indoor Air Temp		Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	2 ft
Barometric Pressure?		Barometric Pressure?		Ground Surface Condition (Crawl Space Only)		Intake Tubing Used?	NO
Intake Height Above Floor Level (ft.)	2 LBL	Intake Height Above Floor Level (ft.)		If slab, intake Depth If Crawl Space, intake height		Distance to nearest Roadway	~100 ft
Noticeable Odor?	~~NO~~	Noticeable Odor?		Noticeable Odor?		Noticeable Odor?	NO
PID Reading (~~ppb~~ ppm)	~~0.0~~	PID Reading (ppb)		PID Reading (ppb)		PID Reading (~~ppb~~ ppm)	0.0
Duplicate Sample?	~~NO~~	Duplicate Sample?		Duplicate Sample?		Duplicate Sample?	NO

Comments:

Sampler Signature:

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Attachment 2

Field Notes

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Tres Bon Site No. 130058 3/14/22

1510 - EA (L. Backman-Lowe) onsite

1512 - brief inspection of space, logging building inventory

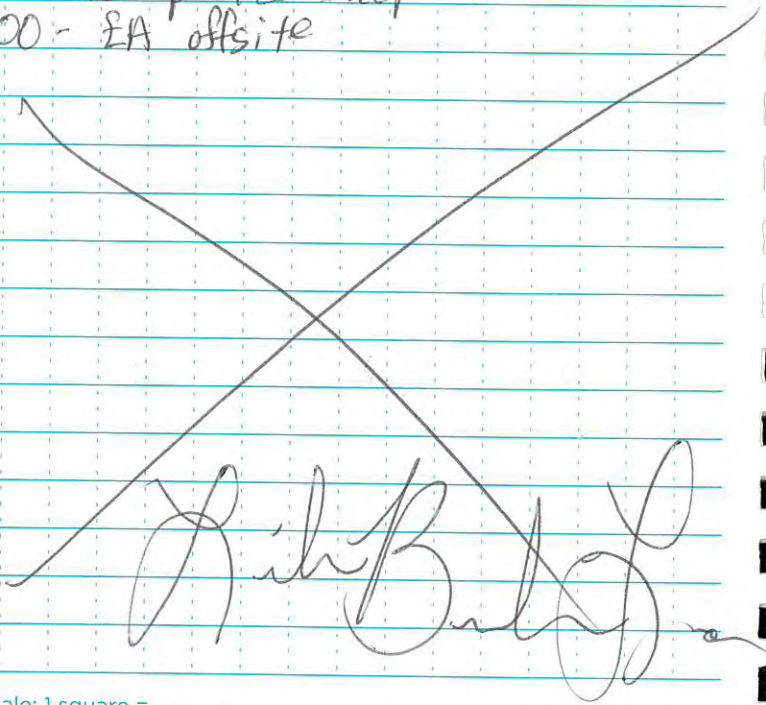
1527 - set 130058-1A-1 and DUP in Cigar Shop

1538 - set 130058-0A-1 in back alley of cigar shop

1548 - set 130058-1A-2 in pretzel shop

1550 - log building inventory for pretzel shop

1600 - EA offsite



Scale: 1 square = _____

Tres Bon 3/15/22

1503- Arrive Onsite (EA)

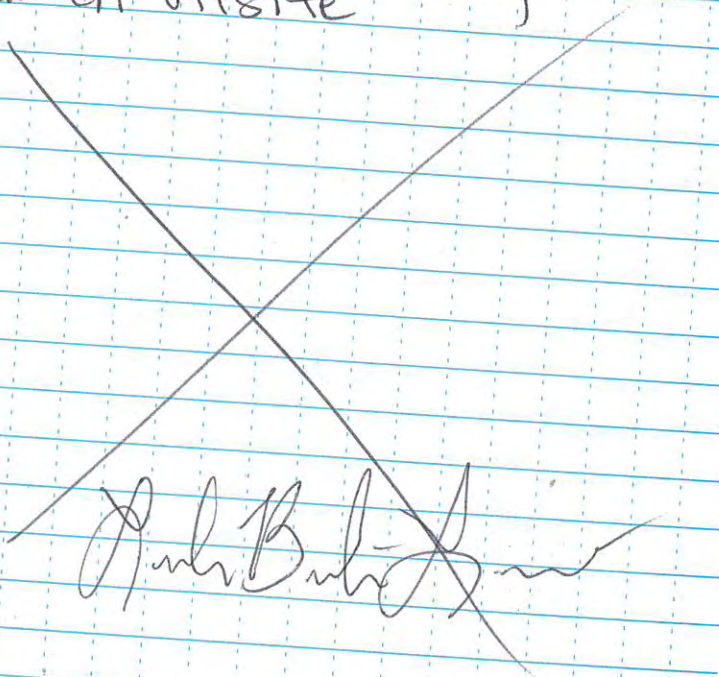
1506- collect 130058-IA-1 and DUP from cigar shop

1513- collect 130058-OA-1 from alley behind cigar shop

1517- collect 130058-IA-2 from pretzel shop

1520- package summa cannister samples, and fill out chain of custody

1600- EA offsite



Scale: 1 square = _____

Rite in the Rain

Attachment 3

New York State Department of Health Indoor Air Quality Questionnaire

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NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Lincoln Backman-Lowe Date/Time Prepared 3/15/2022 1058

Preparer's Affiliation Independent Consultant – EA Engineering Phone No: 716-364-7282

Purpose of Investigation Air Sampling

1. OCCUPANT: Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ____)

Interviewed: Y / N

Last Name: Ehrlein First Name: Alexandra

Address: _____

County: _____

Home Phone: _____ Cell Phone: 516-382-4626

3. BUILDING CHARACTERISTICS Type of

Building: (Circle appropriate response)

Residential School Commercial/Multi-use

Industrial Church Other: _____

If the property is residential, type? (Circle appropriate response) N/A

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many?
N/A **If the property is commercial, type?**

Business Type(s) Cigar shop, Pretzel Shop

Does it include residences (i.e., multi-use)? Y / N If yes, how many?_____

Other characteristics:

Number of floors 1 Building age 68, constructed in 1954

Is the building insulated? Y / N How air tight? Tight / Average / Not Tight

4. AIRFLOW
Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors
N/A – one story

Airflow near source
None

Outdoor air infiltration
None

Infiltration into air ducts
None

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick (w/ stucco façade)
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade:____0____(feet)
Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)
None visible, all piping in wall(s)

6. HEATING, VENTING and AIR CONDITIONING

Type of heating system(s) used in this building: (circle all that apply –note primary)

Hot air circulation - Heat pump - Hot water baseboard - Space Heaters - Stream radiation - Radiant floor - Electric baseboard - Wood stove - Outdoor wood boiler - Other _____

The primary type of fuel used is:
Natural Gas - Fuel Oil - Kerosene - Electric - Propane - Solar - Wood - Coal

Domestic hot water tank fueled by: _____
Boiler/furnace located in: Basement - Outdoors - Main Floor - Other_____
Air conditioning: Central Air - Window units - Open Windows - None
Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time - Occasionally - Seldom - Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement_____
1st Floor Cigar shop & pretzel shop
2nd Floor _____
3rd Floor _____
4th Floor _____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / N

b. Does the garage have a separate heating unit? Y / N / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify_____

d. Has the building ever had a fire? Y / N When?_____

e. Is a kerosene or unvented gas space heater present? Y / N Where? _____

f. Is there a workshop or hobby/craft area? Y / N Where & Type? _____

g. Is there smoking in the building? Y / N How frequently? _____

h. Have cleaning products been used recently? Y / N When & Type? _____

i. Have cosmetic products been used recently? Y / N When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / N When & Type? _____

k. Is there new carpet, drapes or other textiles? Y / N Where & When? _____

l. Have air fresheners been used recently? Y / N When & Type? _____

m. Is there a kitchen exhaust fan? Y / N If yes, where vented? Kitchen of pretzel shop

n. Is there a bathroom exhaust fan? Y / N If yes, where vented? _____

o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? UNSURE Y / N When &Type? > 1 year ago

Are there odors in the building? Y / N
If yes, please describe:

Do any of the building occupants use solvents at work? Y / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____
If yes, are their clothes washed at work? Y / N / NA

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / N Date of Installation:
Is the system active or passive? Active/Passive / NA

9. WATER AND SEWAGE
Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____
Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

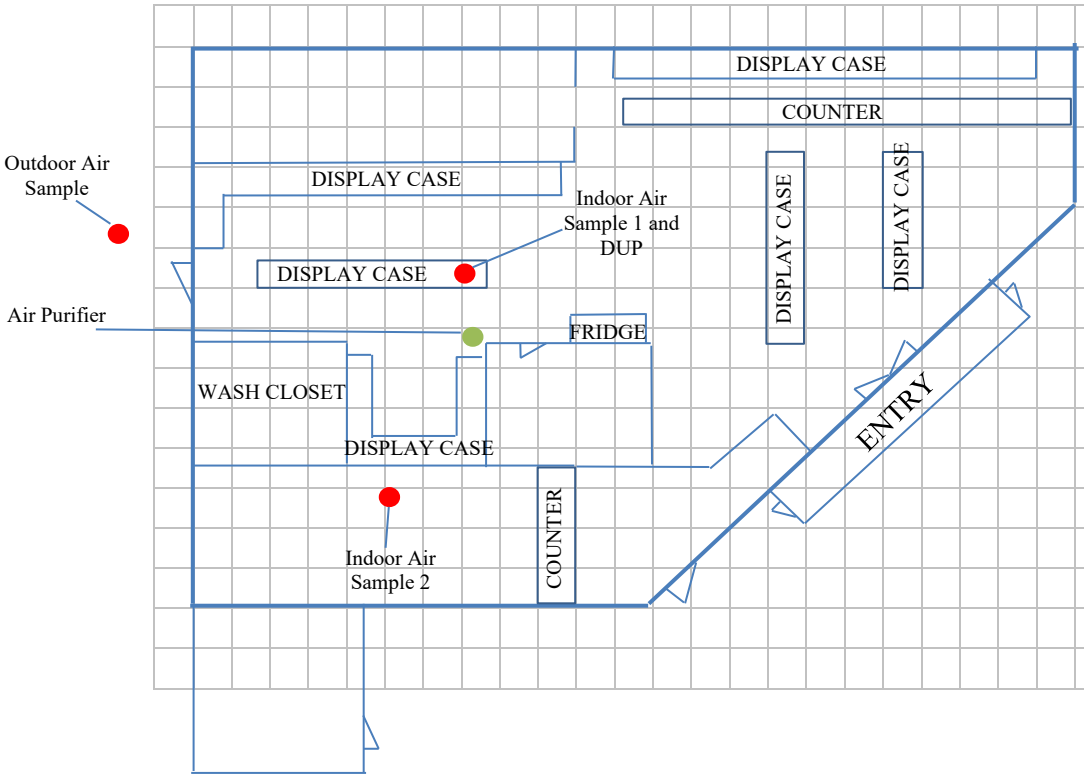
1.**10. RELOCATION INFORMATION (for oil spill residential emergency)**
1.a. **Provide reasons why relocation is recommended:** _____
1.b. **Residents choose to:** remain in home relocate to friends/family relocate to hotel/motel
1.c. **Responsibility for costs associated with reimbursement explained?** Y / N
1.d. **Relocation package provided and explained to residents?** Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: NO BASEMENT

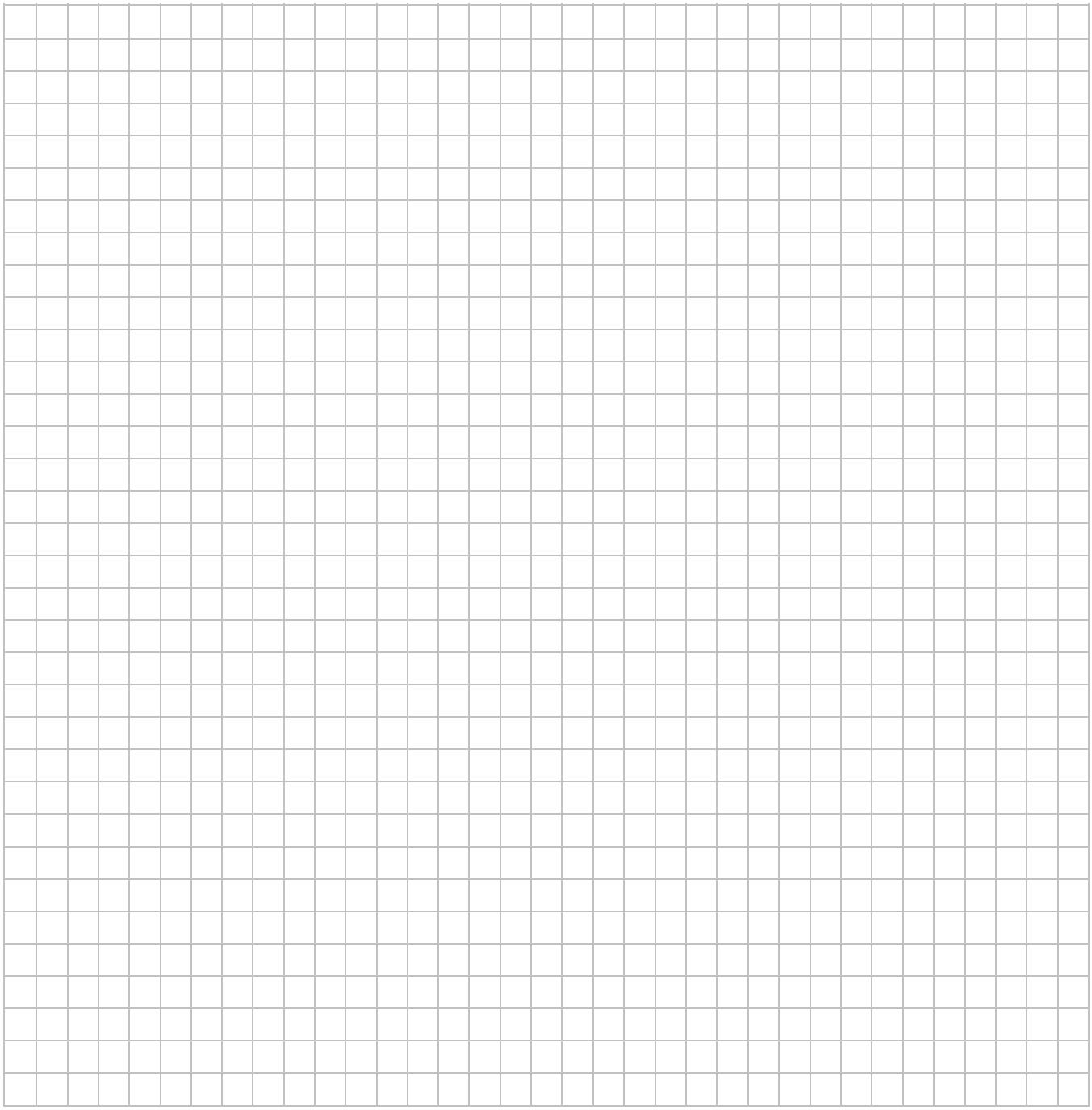
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repairshops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.
Also indicate compass direction, wind direction and speed during sampling, the locations of the welland septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

Not Applicable



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residences that have the potential to affect indoor air quality.

* 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.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Display case, cigar shop	Multiple torches	>20	New/unopened	Butane	0.0	Y
Display case, cigar shop	Multiple packages of charcoal	>50	New/unopened	Carbon	0.0	Y
Floor, washing closet, cigar shop	Bottle of bleach	2.39 L	Opened, with cap on	Sodium hypochlorite	0.0	Y
Floor, washing closet, cigar shop	Bottle of bleach	3.57 L	Opened, with no cap	Sodium hypochlorite	0.0	Y
Floor, washing closet, cigar shop	Bottle of Odor counteractant/fabric freshener	3.78 L	Opened, with no cap	Didecyl dimethyl ammonium chloride Benzisothiazolinone Sodium citrate	0.0	Y
Sink, washing closet, cigar shop	Bottle of dish soap	1.66 L	Opened, with cap	Water, sodium hydroxide	0.0	Y
Water heater tank, washing closet, cigar shop	Container of AJAX brand bleach powder	14 oz	Opened, with no cap	Calcium carbonate Sodium carbonate Sodium dodecylbenzenesulfonate	0.0	Y
Cupboard under cash register, pretzel shop	Windo Clear A (251) bottle	NA	Open, with cap on	2-Hexoxyethanol Isopropanolamine Ammonium hydroxide	0.0	Y
Counter top, next to cash register, pretzel shop	Bucket of markers and pens	NA	All pens had caps	NA	0.0	Y
Hanging basket, near oven, pretzel shop	Cans of canola oil spray	4 cans	All had caps on	NA	0.0	Y
Floor level, storage hallway, pretzel shop	Container of weed B'gon weed killer	NA	Had cap on	Dimethylamine Salt of 2,4-D acid	0.0	Y
Floor level, storage hallway, pretzel shop	Container of lubricant	NA	Opened, with no cap	NA	0.0	Y
Shelf, dishwashing station, pretzel shop	Bottle of leak detector fluid	NA	Opened, with cap on	NA	0.0	Y
Floor level, dishwashing station, pretzel shop	Bottle of degreaser	NA	Opened, with no cap	NA	0.0	Y

Attachment 4

Analytic Data Laboratory Report

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ANALYTICAL REPORT

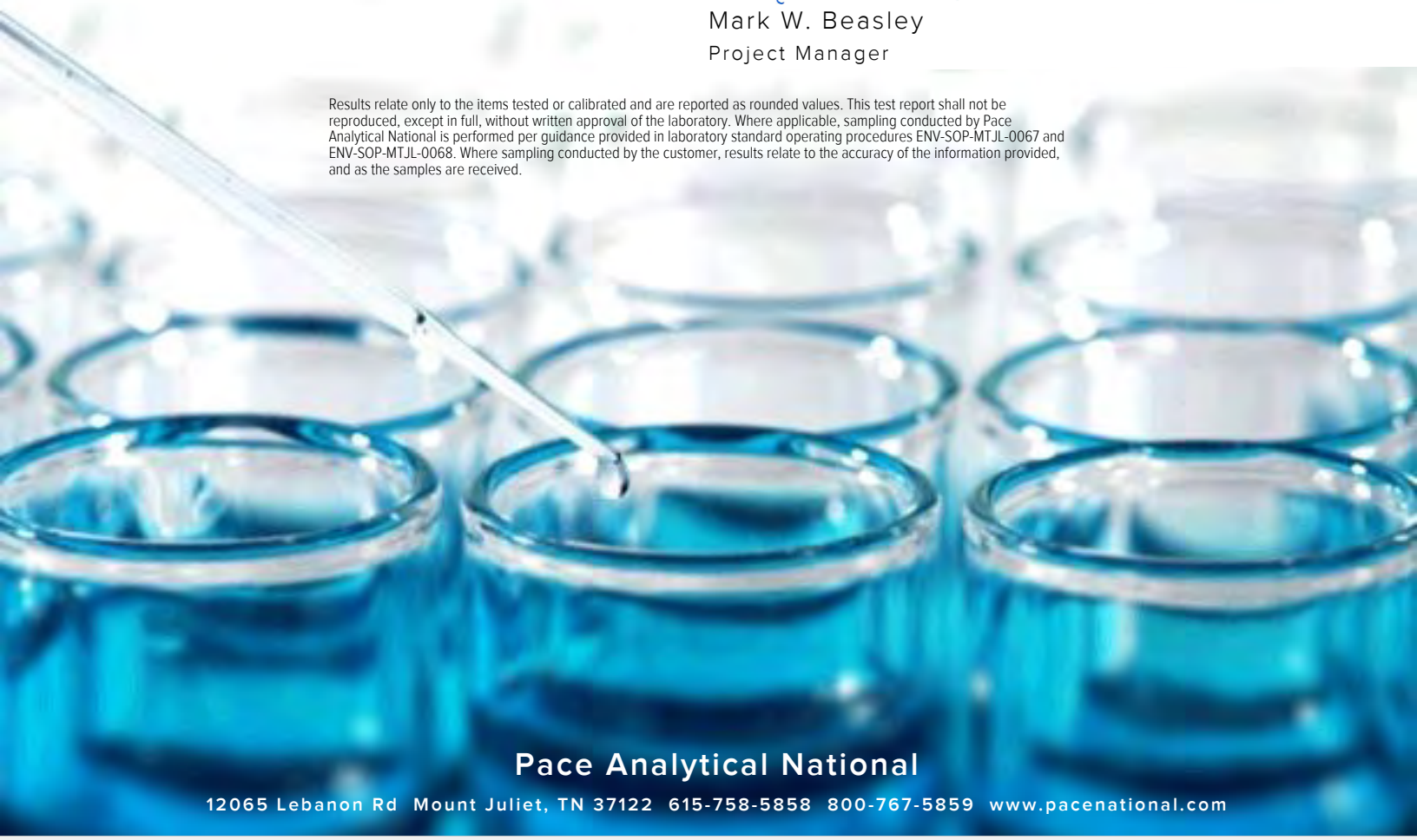
March 24, 2022

NYDEC

Sample Delivery Group:	L1471925
Samples Received:	03/16/2022
Project Number:	130058
Description:	Tres Bon
Site:	130058
Report To:	Noah Robinson 269 West Jefferson St. Syracuse, NY 13202

Entire Report Reviewed By:

Mark W. Beasley
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SAMPLE SUMMARY

130058-IA-1 L1471925-01 Air

Collected by	Collected date/time	Received date/time
Lincoln Backman-Lowe	03/15/22 15:06	03/16/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1836251	1	03/22/22 11:34	03/22/22 11:34	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1836954	10	03/23/22 11:34	03/23/22 11:34	CAW	Mt. Juliet, TN

130058-IA-2 L1471925-02 Air

Collected by	Collected date/time	Received date/time
Lincoln Backman-Lowe	03/15/22 15:17	03/16/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1836251	1	03/22/22 12:05	03/22/22 12:05	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1836954	100	03/23/22 12:11	03/23/22 12:11	CAW	Mt. Juliet, TN

130058-OA-1 L1471925-03 Air

Collected by	Collected date/time	Received date/time
Lincoln Backman-Lowe	03/15/22 15:13	03/16/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1836251	1	03/22/22 12:36	03/22/22 12:36	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1836954	10	03/23/22 12:50	03/23/22 12:50	CAW	Mt. Juliet, TN

130058-DUP-1 L1471925-04 Air

Collected by	Collected date/time	Received date/time
Lincoln Backman-Lowe	03/15/22 00:00	03/16/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1836251	1	03/22/22 13:07	03/22/22 13:07	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1836954	10	03/23/22 13:29	03/23/22 13:29	CAW	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL ug/m3	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	1.09	U		1	WG1836251
1,1,2,2-Tetrachloroethane	79-34-5	168	0.511	1.37	U		1	WG1836251
1,1,2-Trichloroethane	79-00-5	133	0.422	1.09	U		1	WG1836251
1,1-Dichloroethane	75-34-3	98	0.290	0.802	U		1	WG1836251
1,1-Dichloroethene	75-35-4	96.90	0.302	0.793	U		1	WG1836251
1,2,4-Trichlorobenzene	120-82-1	181	1.10	4.66	U		1	WG1836251
1,2,4-Trimethylbenzene	95-63-6	120	0.375	0.982	U		1	WG1836251
1,2-Dibromoethane	106-93-4	188	0.554	1.54	U		1	WG1836251
1,2-Dichlorobenzene	95-50-1	147	0.770	1.20	U		1	WG1836251
1,2-Dichloroethane	107-06-2	99	0.283	0.810	0.437	J	1	WG1836251
1,2-Dichloropropane	78-87-5	113	0.351	0.924	U		1	WG1836251
1,3,5-Trimethylbenzene	108-67-8	120	0.382	0.982	U		1	WG1836251
1,4-Dichlorobenzene	106-46-7	147	0.335	1.20	U		1	WG1836251
1,4-Dioxane	123-91-1	88.10	0.300	0.721	U		1	WG1836251
2-Butanone (MEK)	78-93-3	72.10	0.240	3.69	6.10		1	WG1836251
1,3-Dichlorobenzene	541-73-1	147	1.09	1.20	U		1	WG1836251
2,2,4-Trimethylpentane	540-84-1	114.22	0.621	0.934	U		1	WG1836251
Benzene	71-43-2	78.10	0.228	0.639	0.543	J	1	WG1836251
Benzyl Chloride	100-44-7	127	0.311	1.04	U		1	WG1836251
Bromodichloromethane	75-27-4	164	0.471	1.34	U		1	WG1836251
Bromoform	75-25-2	253	0.757	6.21	U		1	WG1836251
Bromomethane	74-83-9	94.90	0.381	0.776	U		1	WG1836251
Carbon tetrachloride	56-23-5	154	0.461	1.26	U		1	WG1836251
Chlorobenzene	108-90-7	113	0.385	0.924	U		1	WG1836251
Chloroethane	75-00-3	64.50	0.263	0.528	U		1	WG1836251
Chloroform	67-66-3	119	0.349	0.973	U		1	WG1836251
Cyclohexane	110-82-7	84.20	0.259	0.689	U		1	WG1836251
Chloromethane	74-87-3	50.50	0.213	0.413	1.34		1	WG1836251
cis-1,2-Dichloroethene	156-59-2	96.90	0.311	0.793	U		1	WG1836251
cis-1,3-Dichloropropene	10061-01-5	111	0.313	0.908	U		1	WG1836251
Dibromochloromethane	124-48-1	208	0.618	1.70	U		1	WG1836251
Dichlorodifluoromethane	75-71-8	120.92	0.678	0.989	2.33		1	WG1836251
Ethanol	64-17-5	46.10	5.00	23.6	1340		10	WG1836954
Ethylbenzene	100-41-4	106	0.362	0.867	U		1	WG1836251
Trichlorofluoromethane	75-69-4	137.40	0.460	1.12	1.40		1	WG1836251
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.608	1.53	U		1	WG1836251
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.622	1.40	U		1	WG1836251
n-Hexane	110-54-3	86.20	0.726	2.22	U		1	WG1836251
Hexachloro-1,3-butadiene	87-68-3	261	1.12	6.73	U		1	WG1836251
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.313	5.12	0.815	J	1	WG1836251
MTBE	1634-04-4	88.10	0.233	0.721	U		1	WG1836251
Methylene Chloride	75-09-2	84.90	0.340	0.694	0.861		1	WG1836251
Styrene	100-42-5	104	0.335	0.851	U		1	WG1836251
tert-Butyl alcohol	75-65-0	74.12	0.176	0.606	3.97		1	WG1836251
Tetrachloroethylene	127-18-4	166	0.553	1.36	13.6		1	WG1836251
Toluene	108-88-3	92.10	0.328	1.88	3.22		1	WG1836251
m&p-Xylene	1330-20-7	106	0.585	1.73	0.698	J	1	WG1836251
o-Xylene	95-47-6	106	0.359	0.867	0.413	J	1	WG1836251
trans-1,2-Dichloroethene	156-60-5	96.90	0.267	0.793	U		1	WG1836251
trans-1,3-Dichloropropene	10061-02-6	111	0.331	0.908	U		1	WG1836251
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG1836251
Vinyl chloride	75-01-4	62.50	0.243	0.511	U		1	WG1836251
Naphthalene	91-20-3	128	1.83	3.30	U		1	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*97.9*		*60.0-140*	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*97.7*		*60.0-140*	WG1836954

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL ug/m3	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	1.09	U		1	WG1836251
1,1,2,2-Tetrachloroethane	79-34-5	168	0.511	1.37	U		1	WG1836251
1,1,2-Trichloroethane	79-00-5	133	0.422	1.09	U		1	WG1836251
1,1-Dichloroethane	75-34-3	98	0.290	0.802	U		1	WG1836251
1,1-Dichloroethene	75-35-4	96.90	0.302	0.793	U		1	WG1836251
1,2,4-Trichlorobenzene	120-82-1	181	1.10	4.66	U		1	WG1836251
1,2,4-Trimethylbenzene	95-63-6	120	0.375	0.982	0.834	J	1	WG1836251
1,2-Dibromoethane	106-93-4	188	0.554	1.54	U		1	WG1836251
1,2-Dichlorobenzene	95-50-1	147	0.770	1.20	U		1	WG1836251
1,2-Dichloroethane	107-06-2	99	0.283	0.810	U		1	WG1836251
1,2-Dichloropropane	78-87-5	113	0.351	0.924	U		1	WG1836251
1,3,5-Trimethylbenzene	108-67-8	120	0.382	0.982	U		1	WG1836251
1,4-Dichlorobenzene	106-46-7	147	0.335	1.20	U		1	WG1836251
1,4-Dioxane	123-91-1	88.10	0.300	0.721	U		1	WG1836251
2-Butanone (MEK)	78-93-3	72.10	0.240	3.69	4.48		1	WG1836251
1,3-Dichlorobenzene	541-73-1	147	1.09	1.20	U		1	WG1836251
2,2,4-Trimethylpentane	540-84-1	114.22	0.621	0.934	0.649	J	1	WG1836251
Benzene	71-43-2	78.10	0.228	0.639	1.02		1	WG1836251
Benzyl Chloride	100-44-7	127	0.311	1.04	U		1	WG1836251
Bromodichloromethane	75-27-4	164	0.471	1.34	U		1	WG1836251
Bromoform	75-25-2	253	0.757	6.21	U		1	WG1836251
Bromomethane	74-83-9	94.90	0.381	0.776	U		1	WG1836251
Carbon tetrachloride	56-23-5	154	0.461	1.26	0.569	J	1	WG1836251
Chlorobenzene	108-90-7	113	0.385	0.924	U		1	WG1836251
Chloroethane	75-00-3	64.50	0.263	0.528	U		1	WG1836251
Chloroform	67-66-3	119	0.349	0.973	U		1	WG1836251
Cyclohexane	110-82-7	84.20	0.259	0.689	U		1	WG1836251
Chloromethane	74-87-3	50.50	0.213	0.413	1.36		1	WG1836251
cis-1,2-Dichloroethene	156-59-2	96.90	0.311	0.793	U		1	WG1836251
cis-1,3-Dichloropropene	10061-01-5	111	0.313	0.908	U		1	WG1836251
Dibromochloromethane	124-48-1	208	0.618	1.70	U		1	WG1836251
Dichlorodifluoromethane	75-71-8	120.92	0.678	0.989	2.60		1	WG1836251
Ethanol	64-17-5	46.10	50.0	236	2560		100	WG1836954
Ethylbenzene	100-41-4	106	0.362	0.867	0.377	J	1	WG1836251
Trichlorofluoromethane	75-69-4	137.40	0.460	1.12	1.44		1	WG1836251
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.608	1.53	U		1	WG1836251
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.622	1.40	U		1	WG1836251
n-Hexane	110-54-3	86.20	0.726	2.22	U		1	WG1836251
Hexachloro-1,3-butadiene	87-68-3	261	1.12	6.73	U		1	WG1836251
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.313	5.12	U		1	WG1836251
MTBE	1634-04-4	88.10	0.233	0.721	U		1	WG1836251
Methylene Chloride	75-09-2	84.90	0.340	0.694	0.809		1	WG1836251
Styrene	100-42-5	104	0.335	0.851	U		1	WG1836251
tert-Butyl alcohol	75-65-0	74.12	0.176	0.606	1.88		1	WG1836251
Tetrachloroethylene	127-18-4	166	0.553	1.36	15.3		1	WG1836251
Toluene	108-88-3	92.10	0.328	1.88	3.32		1	WG1836251
m&p-Xylene	1330-20-7	106	0.585	1.73	1.14	J	1	WG1836251
o-Xylene	95-47-6	106	0.359	0.867	0.581	J	1	WG1836251
trans-1,2-Dichloroethene	156-60-5	96.90	0.267	0.793	U		1	WG1836251
trans-1,3-Dichloropropene	10061-02-6	111	0.331	0.908	U		1	WG1836251
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG1836251
Vinyl chloride	75-01-4	62.50	0.243	0.511	U		1	WG1836251
Naphthalene	91-20-3	128	1.83	3.30	U		1	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*96.3*		*60.0-140*	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*96.8*		*60.0-140*	WG1836954

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL ug/m3	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	1.09	U		1	WG1836251
1,1,2,2-Tetrachloroethane	79-34-5	168	0.511	1.37	U		1	WG1836251
1,1,2-Trichloroethane	79-00-5	133	0.422	1.09	U		1	WG1836251
1,1-Dichloroethane	75-34-3	98	0.290	0.802	U		1	WG1836251
1,1-Dichloroethene	75-35-4	96.90	0.302	0.793	U		1	WG1836251
1,2,4-Trichlorobenzene	120-82-1	181	1.10	4.66	U		1	WG1836251
1,2,4-Trimethylbenzene	95-63-6	120	0.375	0.982	U		1	WG1836251
1,2-Dibromoethane	106-93-4	188	0.554	1.54	U		1	WG1836251
1,2-Dichlorobenzene	95-50-1	147	0.770	1.20	U		1	WG1836251
1,2-Dichloroethane	107-06-2	99	0.283	0.810	U		1	WG1836251
1,2-Dichloropropane	78-87-5	113	0.351	0.924	U		1	WG1836251
1,3,5-Trimethylbenzene	108-67-8	120	0.382	0.982	U		1	WG1836251
1,4-Dichlorobenzene	106-46-7	147	0.335	1.20	U		1	WG1836251
1,4-Dioxane	123-91-1	88.10	0.300	0.721	U		1	WG1836251
2-Butanone (MEK)	78-93-3	72.10	0.240	3.69	1.78	J	1	WG1836251
1,3-Dichlorobenzene	541-73-1	147	1.09	1.20	U		1	WG1836251
2,2,4-Trimethylpentane	540-84-1	114.22	0.621	0.934	U		1	WG1836251
Benzene	71-43-2	78.10	0.228	0.639	0.770		1	WG1836251
Benzyl Chloride	100-44-7	127	0.311	1.04	U		1	WG1836251
Bromodichloromethane	75-27-4	164	0.471	1.34	U		1	WG1836251
Bromoform	75-25-2	253	0.757	6.21	U		1	WG1836251
Bromomethane	74-83-9	94.90	0.381	0.776	U		1	WG1836251
Carbon tetrachloride	56-23-5	154	0.461	1.26	U		1	WG1836251
Chlorobenzene	108-90-7	113	0.385	0.924	U		1	WG1836251
Chloroethane	75-00-3	64.50	0.263	0.528	U		1	WG1836251
Chloroform	67-66-3	119	0.349	0.973	U		1	WG1836251
Cyclohexane	110-82-7	84.20	0.259	0.689	U		1	WG1836251
Chloromethane	74-87-3	50.50	0.213	0.413	1.26		1	WG1836251
cis-1,2-Dichloroethene	156-59-2	96.90	0.311	0.793	U		1	WG1836251
cis-1,3-Dichloropropene	10061-01-5	111	0.313	0.908	U		1	WG1836251
Dibromochloromethane	124-48-1	208	0.618	1.70	U		1	WG1836251
Dichlorodifluoromethane	75-71-8	120.92	0.678	0.989	2.44		1	WG1836251
Ethanol	64-17-5	46.10	5.00	23.6	232		10	WG1836954
Ethylbenzene	100-41-4	106	0.362	0.867	U		1	WG1836251
Trichlorofluoromethane	75-69-4	137.40	0.460	1.12	1.23		1	WG1836251
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.608	1.53	U		1	WG1836251
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.622	1.40	U		1	WG1836251
n-Hexane	110-54-3	86.20	0.726	2.22	U		1	WG1836251
Hexachloro-1,3-butadiene	87-68-3	261	1.12	6.73	U		1	WG1836251
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.313	5.12	U		1	WG1836251
MTBE	1634-04-4	88.10	0.233	0.721	U		1	WG1836251
Methylene Chloride	75-09-2	84.90	0.340	0.694	0.743		1	WG1836251
Styrene	100-42-5	104	0.335	0.851	U		1	WG1836251
tert-Butyl alcohol	75-65-0	74.12	0.176	0.606	0.603	J	1	WG1836251
Tetrachloroethylene	127-18-4	166	0.553	1.36	U		1	WG1836251
Toluene	108-88-3	92.10	0.328	1.88	1.37	J	1	WG1836251
m&p-Xylene	1330-20-7	106	0.585	1.73	U		1	WG1836251
o-Xylene	95-47-6	106	0.359	0.867	U		1	WG1836251
trans-1,2-Dichloroethene	156-60-5	96.90	0.267	0.793	U		1	WG1836251
trans-1,3-Dichloropropene	10061-02-6	111	0.331	0.908	U		1	WG1836251
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG1836251
Vinyl chloride	75-01-4	62.50	0.243	0.511	U		1	WG1836251
Naphthalene	91-20-3	128	1.83	3.30	U		1	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*96.5*		*60.0-140*	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*97.0*		*60.0-140*	WG1836954

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL ug/m3	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	1.09	U		1	WG1836251
1,1,2,2-Tetrachloroethane	79-34-5	168	0.511	1.37	U		1	WG1836251
1,1,2-Trichloroethane	79-00-5	133	0.422	1.09	U		1	WG1836251
1,1-Dichloroethane	75-34-3	98	0.290	0.802	U		1	WG1836251
1,1-Dichloroethene	75-35-4	96.90	0.302	0.793	U		1	WG1836251
1,2,4-Trichlorobenzene	120-82-1	181	1.10	4.66	U		1	WG1836251
1,2,4-Trimethylbenzene	95-63-6	120	0.375	0.982	U		1	WG1836251
1,2-Dibromoethane	106-93-4	188	0.554	1.54	U		1	WG1836251
1,2-Dichlorobenzene	95-50-1	147	0.770	1.20	U		1	WG1836251
1,2-Dichloroethane	107-06-2	99	0.283	0.810	0.409	J	1	WG1836251
1,2-Dichloropropane	78-87-5	113	0.351	0.924	U		1	WG1836251
1,3,5-Trimethylbenzene	108-67-8	120	0.382	0.982	U		1	WG1836251
1,4-Dichlorobenzene	106-46-7	147	0.335	1.20	U		1	WG1836251
1,4-Dioxane	123-91-1	88.10	0.300	0.721	U		1	WG1836251
2-Butanone (MEK)	78-93-3	72.10	0.240	3.69	4.87		1	WG1836251
1,3-Dichlorobenzene	541-73-1	147	1.09	1.20	U		1	WG1836251
2,2,4-Trimethylpentane	540-84-1	114.22	0.621	0.934	U		1	WG1836251
Benzene	71-43-2	78.10	0.228	0.639	0.530	J	1	WG1836251
Benzyl Chloride	100-44-7	127	0.311	1.04	U		1	WG1836251
Bromodichloromethane	75-27-4	164	0.471	1.34	U		1	WG1836251
Bromoform	75-25-2	253	0.757	6.21	U		1	WG1836251
Bromomethane	74-83-9	94.90	0.381	0.776	U		1	WG1836251
Carbon tetrachloride	56-23-5	154	0.461	1.26	U		1	WG1836251
Chlorobenzene	108-90-7	113	0.385	0.924	U		1	WG1836251
Chloroethane	75-00-3	64.50	0.263	0.528	U		1	WG1836251
Chloroform	67-66-3	119	0.349	0.973	U		1	WG1836251
Cyclohexane	110-82-7	84.20	0.259	0.689	U		1	WG1836251
Chloromethane	74-87-3	50.50	0.213	0.413	1.49		1	WG1836251
cis-1,2-Dichloroethene	156-59-2	96.90	0.311	0.793	U		1	WG1836251
cis-1,3-Dichloropropene	10061-01-5	111	0.313	0.908	U		1	WG1836251
Dibromochloromethane	124-48-1	208	0.618	1.70	U		1	WG1836251
Dichlorodifluoromethane	75-71-8	120.92	0.678	0.989	2.60		1	WG1836251
Ethanol	64-17-5	46.10	5.00	23.6	1600		10	WG1836954
Ethylbenzene	100-41-4	106	0.362	0.867	U		1	WG1836251
Trichlorofluoromethane	75-69-4	137.40	0.460	1.12	1.39		1	WG1836251
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.608	1.53	U		1	WG1836251
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.622	1.40	U		1	WG1836251
n-Hexane	110-54-3	86.20	0.726	2.22	U		1	WG1836251
Hexachloro-1,3-butadiene	87-68-3	261	1.12	6.73	U		1	WG1836251
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.313	5.12	0.491	J	1	WG1836251
MTBE	1634-04-4	88.10	0.233	0.721	U		1	WG1836251
Methylene Chloride	75-09-2	84.90	0.340	0.694	0.927		1	WG1836251
Styrene	100-42-5	104	0.335	0.851	U		1	WG1836251
tert-Butyl alcohol	75-65-0	74.12	0.176	0.606	U		1	WG1836251
Tetrachloroethylene	127-18-4	166	0.553	1.36	12.8		1	WG1836251
Toluene	108-88-3	92.10	0.328	1.88	3.10		1	WG1836251
m&p-Xylene	1330-20-7	106	0.585	1.73	U		1	WG1836251
o-Xylene	95-47-6	106	0.359	0.867	U		1	WG1836251
trans-1,2-Dichloroethene	156-60-5	96.90	0.267	0.793	U		1	WG1836251
trans-1,3-Dichloropropene	10061-02-6	111	0.331	0.908	U		1	WG1836251
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG1836251
Vinyl chloride	75-01-4	62.50	0.243	0.511	U		1	WG1836251
Naphthalene	91-20-3	128	1.83	3.30	U		1	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*96.6*		*60.0-140*	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*95.0*		*60.0-140*	WG1836954

Method Blank (MB)

(MB) R3772917-3 03/22/22 09:14

Analyte	MB Result ug/m3	MB Qualifier	MB MDL ug/m3	MB RDL ug/m3
1,1,1-Trichloroethane	U		0.400	1.09
1,1,2,2-Tetrachloroethane	U		0.511	1.37
1,1,2-Trichloroethane	U		0.422	1.09
1,1-Dichloroethane	U		0.290	0.802
1,1-Dichloroethene	U		0.302	0.793
1,2,4-Trichlorobenzene	U		1.10	4.66
1,2,4-Trimethylbenzene	U		0.375	0.982
1,2-Dibromoethane	U		0.554	1.54
1,2-Dichlorobenzene	U		0.770	1.20
1,2-Dichloroethane	U		0.283	0.810
1,2-Dichloropropane	U		0.351	0.924
1,3,5-Trimethylbenzene	U		0.382	0.982
1,4-Dichlorobenzene	U		0.335	1.20
1,4-Dioxane	U		0.300	0.721
2-Butanone (MEK)	U		0.240	3.69
1,3-Dichlorobenzene	U		1.09	1.20
2,2,4-Trimethylpentane	U		0.621	0.934
Benzene	U		0.228	0.639
Benzyl Chloride	U		0.311	1.04
Bromodichloromethane	U		0.471	1.34
Bromoform	U		0.757	6.21
Bromomethane	U		0.381	0.776
Carbon tetrachloride	U		0.461	1.26
Chlorobenzene	U		0.385	0.924
Chloroethane	U		0.263	0.528
Chloroform	U		0.349	0.973
Cyclohexane	U		0.259	0.689
Chloromethane	U		0.213	0.413
cis-1,2-Dichloroethene	U		0.311	0.793
cis-1,3-Dichloropropene	U		0.313	0.908
Dibromochloromethane	U		0.618	1.70
Dichlorodifluoromethane	U		0.678	0.989
Ethylbenzene	U		0.362	0.867
Trichlorofluoromethane	U		0.460	1.12
1,1,2-Trichlorotrifluoroethane	U		0.608	1.53
1,2-Dichlorotetrafluoroethane	U		0.622	1.40
n-Hexane	U		0.726	2.22
Hexachloro-1,3-butadiene	U		1.12	6.73
4-Methyl-2-pentanone (MIBK)	U		0.313	5.12
MTBE	U		0.233	0.721

Method Blank (MB)

(MB) R3772917-3 03/22/22 09:14

Analyte	MB Result ug/m3	MB Qualifier	MB MDL ug/m3	MB RDL ug/m3
Methylene Chloride	U		0.340	0.694
Styrene	U		0.335	0.851
tert-Butyl alcohol	U		0.176	0.606
Tetrachloroethylene	U		0.553	1.36
Toluene	U		0.328	1.88
m&p-Xylene	U		0.585	1.73
o-Xylene	U		0.359	0.867
trans-1,2-Dichloroethene	U		0.267	0.793
trans-1,3-Dichloropropene	U		0.331	0.908
Trichloroethylene	U		0.364	1.07
Vinyl chloride	U		0.243	0.511
Naphthalene	U		1.83	3.30
(S) 1,4-Bromofluorobenzene	*97.4*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3772917-1 03/22/22 08:11 • (LCSD) R3772917-2 03/22/22 08:44

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1-Trichloroethane	20.4	21.3	20.5	104	101	70.0-130			3.65	25
1,1,2,2-Tetrachloroethane	25.8	25.3	25.4	98.1	98.4	70.0-130			0.271	25
1,1,2-Trichloroethane	20.4	20.7	20.9	102	102	70.0-130			0.784	25
1,1-Dichloroethane	15.0	15.8	15.1	105	101	70.0-130			4.66	25
1,1-Dichloroethene	14.9	15.3	15.1	103	102	70.0-130			1.56	25
1,2,4-Trichlorobenzene	27.8	27.8	27.4	100	98.7	70.0-160			1.34	25
1,2,4-Trimethylbenzene	18.4	17.9	18.3	97.3	99.5	70.0-130			2.17	25
1,2-Dibromoethane	28.8	30.0	29.6	104	103	70.0-130			1.29	25
1,2-Dichlorobenzene	22.5	22.2	23.1	98.4	103	70.0-130			4.24	25
1,2-Dichloroethane	15.2	15.5	15.0	102	98.7	70.0-130			3.19	25
1,2-Dichloropropane	17.3	18.3	17.5	106	101	70.0-130			4.65	25
1,3,5-Trimethylbenzene	18.4	18.5	18.9	101	103	70.0-130			2.10	25
1,4-Dichlorobenzene	22.5	21.2	21.6	93.9	95.7	70.0-130			1.97	25
1,4-Dioxane	13.5	13.6	14.1	101	104	70.0-140			3.38	25
Methyl Ethyl Ketone	11.1	12.5	12.1	113	109	70.0-130			3.12	25
1,3-Dichlorobenzene	22.5	21.9	22.7	97.3	101	70.0-130			3.50	25
2,2,4-Trimethylpentane	17.5	18.3	18.0	104	103	70.0-130			1.55	25
Benzene	12.0	12.3	12.1	102	101	70.0-130			1.57	25
Benzyl Chloride	19.5	18.8	19.2	96.3	98.7	70.0-152			2.46	25
Bromodichloromethane	25.2	26.4	26.0	105	103	70.0-130			1.79	25

QUALITY CONTROL SUMMARY

L1471925-01,02,03,04

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3772917-1 03/22/22 08:11 • (LCSD) R3772917-2 03/22/22 08:44

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	38.8	37.0	36.8	95.5	94.9	70.0-130			0.560	25
Bromomethane	14.6	15.1	15.0	104	103	70.0-130			0.774	25
Carbon tetrachloride	23.6	24.5	23.6	104	100	70.0-130			3.66	25
Chlorobenzene	17.3	17.5	17.1	101	98.7	70.0-130			2.14	25
Chloroethane	9.89	10.2	10.2	103	103	70.0-130			0.000	25
Chloroform	18.3	19.1	18.8	105	103	70.0-130			1.54	25
Cyclohexane	12.9	13.9	13.1	108	102	70.0-130			5.86	25
Chloromethane	7.75	8.30	7.89	107	102	70.0-130			5.10	25
cis-1,2-Dichloroethene	14.9	15.1	15.2	102	102	70.0-130			0.522	25
cis-1,3-Dichloropropene	17.0	17.5	17.5	103	103	70.0-130			0.000	25
Dibromochloromethane	31.9	32.6	31.7	102	99.5	70.0-130			2.65	25
Dichlorodifluoromethane	18.5	20.0	19.1	108	103	64.0-139			4.56	25
Ethylbenzene	16.3	16.4	16.9	101	104	70.0-130			2.86	25
Trichlorofluoromethane	21.1	21.9	21.4	104	101	70.0-130			2.34	25
1,1,2-Trichlorotrifluoroethane	28.7	29.7	29.0	103	101	70.0-130			2.35	25
1,2-Dichlorotetrafluoroethane	26.2	27.3	26.5	104	101	70.0-130			2.86	25
n-Hexane	13.2	13.8	13.5	104	102	70.0-130			2.33	25
Hexachloro-1,3-butadiene	40.0	39.3	40.7	98.1	102	70.0-151			3.47	25
4-Methyl-2-pentanone (MIBK)	15.4	15.3	15.7	99.7	102	70.0-139			2.38	25
MTBE	13.5	14.2	14.1	105	104	70.0-130			1.27	25
Methylene Chloride	13.0	13.4	13.4	103	103	70.0-130			0.259	25
Styrene	16.0	16.4	16.5	103	104	70.0-130			1.03	25
tert-Butyl alcohol	11.4	11.9	11.7	105	103	70.0-130			2.05	25
Tetrachloroethylene	25.5	23.8	24.1	93.3	94.7	70.0-130			1.42	25
Toluene	14.1	14.2	13.9	101	98.1	70.0-130			2.68	25
m&p-Xylene	32.5	32.3	32.8	99.3	101	70.0-130			1.47	25
o-Xylene	16.3	16.0	16.3	98.7	100	70.0-130			1.61	25
trans-1,2-Dichloroethene	14.9	15.2	14.9	102	101	70.0-130			1.58	25
trans-1,3-Dichloropropene	17.0	17.3	16.9	102	99.2	70.0-130			2.65	25
Trichloroethylene	20.1	20.4	20.1	102	100	70.0-130			1.32	25
Vinyl chloride	9.59	10.3	9.74	107	102	70.0-130			5.36	25
Naphthalene	19.6	18.3	18.3	93.1	93.1	70.0-159			0.000	25
(S) 1,4-Bromofluorobenzene				*96.8*	*100*	*60.0-140*				

Method Blank (MB)

(MB) R3773110-3 03/23/22 10:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/m3		ug/m3	ug/m3
Ethanol	U		0.500	2.36
(S) 1,4-Bromofluorobenzene	*96.2*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3773110-1 03/23/22 08:44 • (LCSD) R3773110-2 03/23/22 09:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/m3	ug/m3	ug/m3	%	%	%			%	%
Ethanol	7.07	6.58	6.54	93.1	92.5	55.0-148			0.575	25
(S) 1,4-Bromofluorobenzene				*98.7*	*98.5*	*60.0-140*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
NYDEC

269 West Jefferson St.
Syracuse, NY 13202

Billing Information:
Accounts Payable
831 Route 67
Ballston, NY 12020

Report To:
Noah Robinson

Email To:
nrobinson@eaest.com

Project Description: **Tres Bon**

City/State Collected: Village of Franklin Square, NY

Please Circle: PT MT CT (ET)

Phone:
315-849-4194

Client Project #
130058

Lab Project #
NYDEC-EA

Collected by (print):
Lincoln Backman-Love

Site/Facility ID #
130058

P.O. #
1602523/0034

Collected by (signature):
Lincoln Backman-Love

Rush? (Lab MUST Be Notified)
___ Same Day ___ Three Day
___ Next Day ___ Five Day
___ Two Day
Standard

Date Results Needed
standard

Analysis
TO-15 Summa

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE
MT JULIET, TN
12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1471925

D147

Acctnum: **NYDEC**
Template: **T204878**
Prelogin: **P909936**
PM: **134 - Mark W. Beasley**
PB: LSL-03/04/22

Shipped Via: **FedEX Ground**

Sample ID	Can #	Flow Cont. #	Collection Date	Collection Time	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	TO-15 Summa	Rem./Contaminant	Sample # (lab only)
130058-IA-1	11128	021254	3/15/22	1506	30.0	6.5	X		-01
130058-IA-2	009782	011680	3/15/22	1517	30.0	7.0	X		-02
130058-OA-1	020806	011718	3/15/22	1513	30.0	3.5	X		-03
130058-DUP-1	12519	011692	3/15/22	~~1506~~ LBL	29.5	6.5	X		-04

Sample Receipt Checklist
COC Seal Present/Intact: __Y ✓N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Pres.Correct/Check: __Y __N

Samples returned via:
__ UPS __ FedEx __ Courier ____

Tracking # 5349 7821 1897

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Lincoln Backman-Love	3/15/22	1619			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
			D Ramsey	3/16/22	930

Condition: OK (lab use only)

COC Seal Intact: ___Y ___N ___NA

NCF:

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Attachment 5

Data Usability Summary Report

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Appendix E

Laboratory Analysis Reports

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ANALYTICAL REPORT

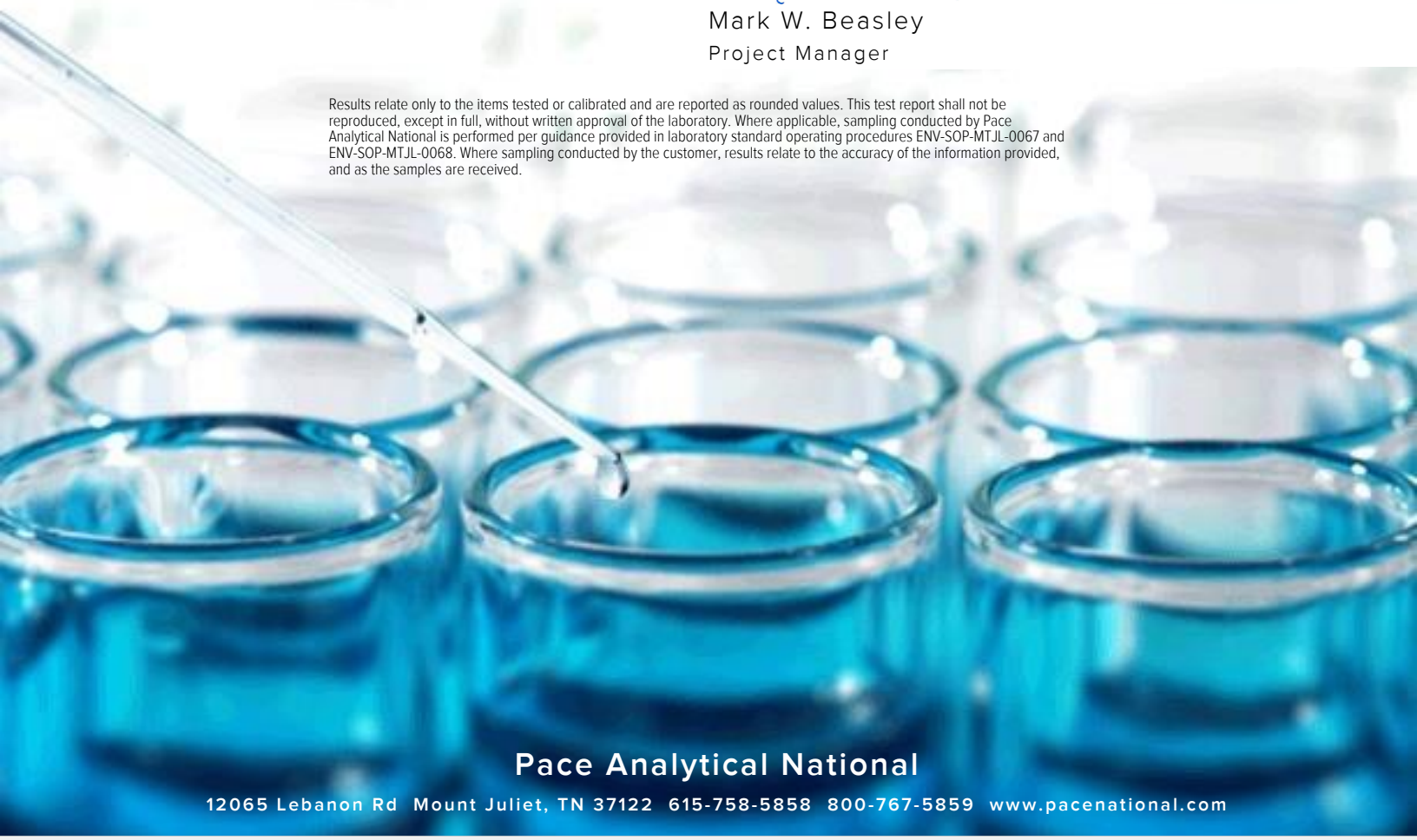
March 24, 2022

NYDEC

Sample Delivery Group:	L1471925
Samples Received:	03/16/2022
Project Number:	130058
Description:	Tres Bon
Site:	130058
Report To:	Noah Robinson 269 West Jefferson St. Syracuse, NY 13202

Entire Report Reviewed By:

Mark W. Beasley
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

130058-IA-1 L1471925-01 Air

Collected by	Collected date/time	Received date/time
Lincoln Backman-Lowe	03/15/22 15:06	03/16/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1836251	1	03/22/22 11:34	03/22/22 11:34	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1836954	10	03/23/22 11:34	03/23/22 11:34	CAW	Mt. Juliet, TN

130058-IA-2 L1471925-02 Air

Collected by	Collected date/time	Received date/time
Lincoln Backman-Lowe	03/15/22 15:17	03/16/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1836251	1	03/22/22 12:05	03/22/22 12:05	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1836954	100	03/23/22 12:11	03/23/22 12:11	CAW	Mt. Juliet, TN

130058-OA-1 L1471925-03 Air

Collected by	Collected date/time	Received date/time
Lincoln Backman-Lowe	03/15/22 15:13	03/16/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1836251	1	03/22/22 12:36	03/22/22 12:36	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1836954	10	03/23/22 12:50	03/23/22 12:50	CAW	Mt. Juliet, TN

130058-DUP-1 L1471925-04 Air

Collected by	Collected date/time	Received date/time
Lincoln Backman-Lowe	03/15/22 00:00	03/16/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1836251	1	03/22/22 13:07	03/22/22 13:07	CAW	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1836954	10	03/23/22 13:29	03/23/22 13:29	CAW	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL ug/m3	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	1.09	U		1	WG1836251
1,1,2,2-Tetrachloroethane	79-34-5	168	0.511	1.37	U		1	WG1836251
1,1,2-Trichloroethane	79-00-5	133	0.422	1.09	U		1	WG1836251
1,1-Dichloroethane	75-34-3	98	0.290	0.802	U		1	WG1836251
1,1-Dichloroethene	75-35-4	96.90	0.302	0.793	U		1	WG1836251
1,2,4-Trichlorobenzene	120-82-1	181	1.10	4.66	U		1	WG1836251
1,2,4-Trimethylbenzene	95-63-6	120	0.375	0.982	U		1	WG1836251
1,2-Dibromoethane	106-93-4	188	0.554	1.54	U		1	WG1836251
1,2-Dichlorobenzene	95-50-1	147	0.770	1.20	U		1	WG1836251
1,2-Dichloroethane	107-06-2	99	0.283	0.810	0.437	J	1	WG1836251
1,2-Dichloropropane	78-87-5	113	0.351	0.924	U		1	WG1836251
1,3,5-Trimethylbenzene	108-67-8	120	0.382	0.982	U		1	WG1836251
1,4-Dichlorobenzene	106-46-7	147	0.335	1.20	U		1	WG1836251
1,4-Dioxane	123-91-1	88.10	0.300	0.721	U		1	WG1836251
2-Butanone (MEK)	78-93-3	72.10	0.240	3.69	6.10		1	WG1836251
1,3-Dichlorobenzene	541-73-1	147	1.09	1.20	U		1	WG1836251
2,2,4-Trimethylpentane	540-84-1	114.22	0.621	0.934	U		1	WG1836251
Benzene	71-43-2	78.10	0.228	0.639	0.543	J	1	WG1836251
Benzyl Chloride	100-44-7	127	0.311	1.04	U		1	WG1836251
Bromodichloromethane	75-27-4	164	0.471	1.34	U		1	WG1836251
Bromoform	75-25-2	253	0.757	6.21	U		1	WG1836251
Bromomethane	74-83-9	94.90	0.381	0.776	U		1	WG1836251
Carbon tetrachloride	56-23-5	154	0.461	1.26	U		1	WG1836251
Chlorobenzene	108-90-7	113	0.385	0.924	U		1	WG1836251
Chloroethane	75-00-3	64.50	0.263	0.528	U		1	WG1836251
Chloroform	67-66-3	119	0.349	0.973	U		1	WG1836251
Cyclohexane	110-82-7	84.20	0.259	0.689	U		1	WG1836251
Chloromethane	74-87-3	50.50	0.213	0.413	1.34		1	WG1836251
cis-1,2-Dichloroethene	156-59-2	96.90	0.311	0.793	U		1	WG1836251
cis-1,3-Dichloropropene	10061-01-5	111	0.313	0.908	U		1	WG1836251
Dibromochloromethane	124-48-1	208	0.618	1.70	U		1	WG1836251
Dichlorodifluoromethane	75-71-8	120.92	0.678	0.989	2.33		1	WG1836251
Ethanol	64-17-5	46.10	5.00	23.6	1340		10	WG1836954
Ethylbenzene	100-41-4	106	0.362	0.867	U		1	WG1836251
Trichlorofluoromethane	75-69-4	137.40	0.460	1.12	1.40		1	WG1836251
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.608	1.53	U		1	WG1836251
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.622	1.40	U		1	WG1836251
n-Hexane	110-54-3	86.20	0.726	2.22	U		1	WG1836251
Hexachloro-1,3-butadiene	87-68-3	261	1.12	6.73	U		1	WG1836251
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.313	5.12	0.815	J	1	WG1836251
MTBE	1634-04-4	88.10	0.233	0.721	U		1	WG1836251
Methylene Chloride	75-09-2	84.90	0.340	0.694	0.861		1	WG1836251
Styrene	100-42-5	104	0.335	0.851	U		1	WG1836251
tert-Butyl alcohol	75-65-0	74.12	0.176	0.606	3.97		1	WG1836251
Tetrachloroethylene	127-18-4	166	0.553	1.36	13.6		1	WG1836251
Toluene	108-88-3	92.10	0.328	1.88	3.22		1	WG1836251
m&p-Xylene	1330-20-7	106	0.585	1.73	0.698	J	1	WG1836251
o-Xylene	95-47-6	106	0.359	0.867	0.413	J	1	WG1836251
trans-1,2-Dichloroethene	156-60-5	96.90	0.267	0.793	U		1	WG1836251
trans-1,3-Dichloropropene	10061-02-6	111	0.331	0.908	U		1	WG1836251
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG1836251
Vinyl chloride	75-01-4	62.50	0.243	0.511	U		1	WG1836251
Naphthalene	91-20-3	128	1.83	3.30	U		1	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*97.9*		*60.0-140*	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*97.7*		*60.0-140*	WG1836954

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL ug/m3	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	1.09	U		1	WG1836251
1,1,2,2-Tetrachloroethane	79-34-5	168	0.511	1.37	U		1	WG1836251
1,1,2-Trichloroethane	79-00-5	133	0.422	1.09	U		1	WG1836251
1,1-Dichloroethane	75-34-3	98	0.290	0.802	U		1	WG1836251
1,1-Dichloroethene	75-35-4	96.90	0.302	0.793	U		1	WG1836251
1,2,4-Trichlorobenzene	120-82-1	181	1.10	4.66	U		1	WG1836251
1,2,4-Trimethylbenzene	95-63-6	120	0.375	0.982	0.834	J	1	WG1836251
1,2-Dibromoethane	106-93-4	188	0.554	1.54	U		1	WG1836251
1,2-Dichlorobenzene	95-50-1	147	0.770	1.20	U		1	WG1836251
1,2-Dichloroethane	107-06-2	99	0.283	0.810	U		1	WG1836251
1,2-Dichloropropane	78-87-5	113	0.351	0.924	U		1	WG1836251
1,3,5-Trimethylbenzene	108-67-8	120	0.382	0.982	U		1	WG1836251
1,4-Dichlorobenzene	106-46-7	147	0.335	1.20	U		1	WG1836251
1,4-Dioxane	123-91-1	88.10	0.300	0.721	U		1	WG1836251
2-Butanone (MEK)	78-93-3	72.10	0.240	3.69	4.48		1	WG1836251
1,3-Dichlorobenzene	541-73-1	147	1.09	1.20	U		1	WG1836251
2,2,4-Trimethylpentane	540-84-1	114.22	0.621	0.934	0.649	J	1	WG1836251
Benzene	71-43-2	78.10	0.228	0.639	1.02		1	WG1836251
Benzyl Chloride	100-44-7	127	0.311	1.04	U		1	WG1836251
Bromodichloromethane	75-27-4	164	0.471	1.34	U		1	WG1836251
Bromoform	75-25-2	253	0.757	6.21	U		1	WG1836251
Bromomethane	74-83-9	94.90	0.381	0.776	U		1	WG1836251
Carbon tetrachloride	56-23-5	154	0.461	1.26	0.569	J	1	WG1836251
Chlorobenzene	108-90-7	113	0.385	0.924	U		1	WG1836251
Chloroethane	75-00-3	64.50	0.263	0.528	U		1	WG1836251
Chloroform	67-66-3	119	0.349	0.973	U		1	WG1836251
Cyclohexane	110-82-7	84.20	0.259	0.689	U		1	WG1836251
Chloromethane	74-87-3	50.50	0.213	0.413	1.36		1	WG1836251
cis-1,2-Dichloroethene	156-59-2	96.90	0.311	0.793	U		1	WG1836251
cis-1,3-Dichloropropene	10061-01-5	111	0.313	0.908	U		1	WG1836251
Dibromochloromethane	124-48-1	208	0.618	1.70	U		1	WG1836251
Dichlorodifluoromethane	75-71-8	120.92	0.678	0.989	2.60		1	WG1836251
Ethanol	64-17-5	46.10	50.0	236	2560		100	WG1836954
Ethylbenzene	100-41-4	106	0.362	0.867	0.377	J	1	WG1836251
Trichlorofluoromethane	75-69-4	137.40	0.460	1.12	1.44		1	WG1836251
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.608	1.53	U		1	WG1836251
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.622	1.40	U		1	WG1836251
n-Hexane	110-54-3	86.20	0.726	2.22	U		1	WG1836251
Hexachloro-1,3-butadiene	87-68-3	261	1.12	6.73	U		1	WG1836251
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.313	5.12	U		1	WG1836251
MTBE	1634-04-4	88.10	0.233	0.721	U		1	WG1836251
Methylene Chloride	75-09-2	84.90	0.340	0.694	0.809		1	WG1836251
Styrene	100-42-5	104	0.335	0.851	U		1	WG1836251
tert-Butyl alcohol	75-65-0	74.12	0.176	0.606	1.88		1	WG1836251
Tetrachloroethylene	127-18-4	166	0.553	1.36	15.3		1	WG1836251
Toluene	108-88-3	92.10	0.328	1.88	3.32		1	WG1836251
m&p-Xylene	1330-20-7	106	0.585	1.73	1.14	J	1	WG1836251
o-Xylene	95-47-6	106	0.359	0.867	0.581	J	1	WG1836251
trans-1,2-Dichloroethene	156-60-5	96.90	0.267	0.793	U		1	WG1836251
trans-1,3-Dichloropropene	10061-02-6	111	0.331	0.908	U		1	WG1836251
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG1836251
Vinyl chloride	75-01-4	62.50	0.243	0.511	U		1	WG1836251
Naphthalene	91-20-3	128	1.83	3.30	U		1	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*96.3*		*60.0-140*	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*96.8*		*60.0-140*	WG1836954

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL ug/m3	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	1.09	U		1	WG1836251
1,1,2,2-Tetrachloroethane	79-34-5	168	0.511	1.37	U		1	WG1836251
1,1,2-Trichloroethane	79-00-5	133	0.422	1.09	U		1	WG1836251
1,1-Dichloroethane	75-34-3	98	0.290	0.802	U		1	WG1836251
1,1-Dichloroethene	75-35-4	96.90	0.302	0.793	U		1	WG1836251
1,2,4-Trichlorobenzene	120-82-1	181	1.10	4.66	U		1	WG1836251
1,2,4-Trimethylbenzene	95-63-6	120	0.375	0.982	U		1	WG1836251
1,2-Dibromoethane	106-93-4	188	0.554	1.54	U		1	WG1836251
1,2-Dichlorobenzene	95-50-1	147	0.770	1.20	U		1	WG1836251
1,2-Dichloroethane	107-06-2	99	0.283	0.810	U		1	WG1836251
1,2-Dichloropropane	78-87-5	113	0.351	0.924	U		1	WG1836251
1,3,5-Trimethylbenzene	108-67-8	120	0.382	0.982	U		1	WG1836251
1,4-Dichlorobenzene	106-46-7	147	0.335	1.20	U		1	WG1836251
1,4-Dioxane	123-91-1	88.10	0.300	0.721	U		1	WG1836251
2-Butanone (MEK)	78-93-3	72.10	0.240	3.69	1.78	J	1	WG1836251
1,3-Dichlorobenzene	541-73-1	147	1.09	1.20	U		1	WG1836251
2,2,4-Trimethylpentane	540-84-1	114.22	0.621	0.934	U		1	WG1836251
Benzene	71-43-2	78.10	0.228	0.639	0.770		1	WG1836251
Benzyl Chloride	100-44-7	127	0.311	1.04	U		1	WG1836251
Bromodichloromethane	75-27-4	164	0.471	1.34	U		1	WG1836251
Bromoform	75-25-2	253	0.757	6.21	U		1	WG1836251
Bromomethane	74-83-9	94.90	0.381	0.776	U		1	WG1836251
Carbon tetrachloride	56-23-5	154	0.461	1.26	U		1	WG1836251
Chlorobenzene	108-90-7	113	0.385	0.924	U		1	WG1836251
Chloroethane	75-00-3	64.50	0.263	0.528	U		1	WG1836251
Chloroform	67-66-3	119	0.349	0.973	U		1	WG1836251
Cyclohexane	110-82-7	84.20	0.259	0.689	U		1	WG1836251
Chloromethane	74-87-3	50.50	0.213	0.413	1.26		1	WG1836251
cis-1,2-Dichloroethene	156-59-2	96.90	0.311	0.793	U		1	WG1836251
cis-1,3-Dichloropropene	10061-01-5	111	0.313	0.908	U		1	WG1836251
Dibromochloromethane	124-48-1	208	0.618	1.70	U		1	WG1836251
Dichlorodifluoromethane	75-71-8	120.92	0.678	0.989	2.44		1	WG1836251
Ethanol	64-17-5	46.10	5.00	23.6	232		10	WG1836954
Ethylbenzene	100-41-4	106	0.362	0.867	U		1	WG1836251
Trichlorofluoromethane	75-69-4	137.40	0.460	1.12	1.23		1	WG1836251
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.608	1.53	U		1	WG1836251
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.622	1.40	U		1	WG1836251
n-Hexane	110-54-3	86.20	0.726	2.22	U		1	WG1836251
Hexachloro-1,3-butadiene	87-68-3	261	1.12	6.73	U		1	WG1836251
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.313	5.12	U		1	WG1836251
MTBE	1634-04-4	88.10	0.233	0.721	U		1	WG1836251
Methylene Chloride	75-09-2	84.90	0.340	0.694	0.743		1	WG1836251
Styrene	100-42-5	104	0.335	0.851	U		1	WG1836251
tert-Butyl alcohol	75-65-0	74.12	0.176	0.606	0.603	J	1	WG1836251
Tetrachloroethylene	127-18-4	166	0.553	1.36	U		1	WG1836251
Toluene	108-88-3	92.10	0.328	1.88	1.37	J	1	WG1836251
m&p-Xylene	1330-20-7	106	0.585	1.73	U		1	WG1836251
o-Xylene	95-47-6	106	0.359	0.867	U		1	WG1836251
trans-1,2-Dichloroethene	156-60-5	96.90	0.267	0.793	U		1	WG1836251
trans-1,3-Dichloropropene	10061-02-6	111	0.331	0.908	U		1	WG1836251
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG1836251
Vinyl chloride	75-01-4	62.50	0.243	0.511	U		1	WG1836251
Naphthalene	91-20-3	128	1.83	3.30	U		1	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*96.5*		*60.0-140*	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*97.0*		*60.0-140*	WG1836954

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL ug/m3	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	1.09	U		1	WG1836251
1,1,2,2-Tetrachloroethane	79-34-5	168	0.511	1.37	U		1	WG1836251
1,1,2-Trichloroethane	79-00-5	133	0.422	1.09	U		1	WG1836251
1,1-Dichloroethane	75-34-3	98	0.290	0.802	U		1	WG1836251
1,1-Dichloroethene	75-35-4	96.90	0.302	0.793	U		1	WG1836251
1,2,4-Trichlorobenzene	120-82-1	181	1.10	4.66	U		1	WG1836251
1,2,4-Trimethylbenzene	95-63-6	120	0.375	0.982	U		1	WG1836251
1,2-Dibromoethane	106-93-4	188	0.554	1.54	U		1	WG1836251
1,2-Dichlorobenzene	95-50-1	147	0.770	1.20	U		1	WG1836251
1,2-Dichloroethane	107-06-2	99	0.283	0.810	0.409	J	1	WG1836251
1,2-Dichloropropane	78-87-5	113	0.351	0.924	U		1	WG1836251
1,3,5-Trimethylbenzene	108-67-8	120	0.382	0.982	U		1	WG1836251
1,4-Dichlorobenzene	106-46-7	147	0.335	1.20	U		1	WG1836251
1,4-Dioxane	123-91-1	88.10	0.300	0.721	U		1	WG1836251
2-Butanone (MEK)	78-93-3	72.10	0.240	3.69	4.87		1	WG1836251
1,3-Dichlorobenzene	541-73-1	147	1.09	1.20	U		1	WG1836251
2,2,4-Trimethylpentane	540-84-1	114.22	0.621	0.934	U		1	WG1836251
Benzene	71-43-2	78.10	0.228	0.639	0.530	J	1	WG1836251
Benzyl Chloride	100-44-7	127	0.311	1.04	U		1	WG1836251
Bromodichloromethane	75-27-4	164	0.471	1.34	U		1	WG1836251
Bromoform	75-25-2	253	0.757	6.21	U		1	WG1836251
Bromomethane	74-83-9	94.90	0.381	0.776	U		1	WG1836251
Carbon tetrachloride	56-23-5	154	0.461	1.26	U		1	WG1836251
Chlorobenzene	108-90-7	113	0.385	0.924	U		1	WG1836251
Chloroethane	75-00-3	64.50	0.263	0.528	U		1	WG1836251
Chloroform	67-66-3	119	0.349	0.973	U		1	WG1836251
Cyclohexane	110-82-7	84.20	0.259	0.689	U		1	WG1836251
Chloromethane	74-87-3	50.50	0.213	0.413	1.49		1	WG1836251
cis-1,2-Dichloroethene	156-59-2	96.90	0.311	0.793	U		1	WG1836251
cis-1,3-Dichloropropene	10061-01-5	111	0.313	0.908	U		1	WG1836251
Dibromochloromethane	124-48-1	208	0.618	1.70	U		1	WG1836251
Dichlorodifluoromethane	75-71-8	120.92	0.678	0.989	2.60		1	WG1836251
Ethanol	64-17-5	46.10	5.00	23.6	1600		10	WG1836954
Ethylbenzene	100-41-4	106	0.362	0.867	U		1	WG1836251
Trichlorofluoromethane	75-69-4	137.40	0.460	1.12	1.39		1	WG1836251
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.608	1.53	U		1	WG1836251
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.622	1.40	U		1	WG1836251
n-Hexane	110-54-3	86.20	0.726	2.22	U		1	WG1836251
Hexachloro-1,3-butadiene	87-68-3	261	1.12	6.73	U		1	WG1836251
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.313	5.12	0.491	J	1	WG1836251
MTBE	1634-04-4	88.10	0.233	0.721	U		1	WG1836251
Methylene Chloride	75-09-2	84.90	0.340	0.694	0.927		1	WG1836251
Styrene	100-42-5	104	0.335	0.851	U		1	WG1836251
tert-Butyl alcohol	75-65-0	74.12	0.176	0.606	U		1	WG1836251
Tetrachloroethylene	127-18-4	166	0.553	1.36	12.8		1	WG1836251
Toluene	108-88-3	92.10	0.328	1.88	3.10		1	WG1836251
m&p-Xylene	1330-20-7	106	0.585	1.73	U		1	WG1836251
o-Xylene	95-47-6	106	0.359	0.867	U		1	WG1836251
trans-1,2-Dichloroethene	156-60-5	96.90	0.267	0.793	U		1	WG1836251
trans-1,3-Dichloropropene	10061-02-6	111	0.331	0.908	U		1	WG1836251
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG1836251
Vinyl chloride	75-01-4	62.50	0.243	0.511	U		1	WG1836251
Naphthalene	91-20-3	128	1.83	3.30	U		1	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*96.6*		*60.0-140*	WG1836251
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*			*95.0*		*60.0-140*	WG1836954

Method Blank (MB)

(MB) R3772917-3 03/22/22 09:14

Analyte	MB Result ug/m3	MB Qualifier	MB MDL ug/m3	MB RDL ug/m3
1,1,1-Trichloroethane	U		0.400	1.09
1,1,2,2-Tetrachloroethane	U		0.511	1.37
1,1,2-Trichloroethane	U		0.422	1.09
1,1-Dichloroethane	U		0.290	0.802
1,1-Dichloroethene	U		0.302	0.793
1,2,4-Trichlorobenzene	U		1.10	4.66
1,2,4-Trimethylbenzene	U		0.375	0.982
1,2-Dibromoethane	U		0.554	1.54
1,2-Dichlorobenzene	U		0.770	1.20
1,2-Dichloroethane	U		0.283	0.810
1,2-Dichloropropane	U		0.351	0.924
1,3,5-Trimethylbenzene	U		0.382	0.982
1,4-Dichlorobenzene	U		0.335	1.20
1,4-Dioxane	U		0.300	0.721
2-Butanone (MEK)	U		0.240	3.69
1,3-Dichlorobenzene	U		1.09	1.20
2,2,4-Trimethylpentane	U		0.621	0.934
Benzene	U		0.228	0.639
Benzyl Chloride	U		0.311	1.04
Bromodichloromethane	U		0.471	1.34
Bromoform	U		0.757	6.21
Bromomethane	U		0.381	0.776
Carbon tetrachloride	U		0.461	1.26
Chlorobenzene	U		0.385	0.924
Chloroethane	U		0.263	0.528
Chloroform	U		0.349	0.973
Cyclohexane	U		0.259	0.689
Chloromethane	U		0.213	0.413
cis-1,2-Dichloroethene	U		0.311	0.793
cis-1,3-Dichloropropene	U		0.313	0.908
Dibromochloromethane	U		0.618	1.70
Dichlorodifluoromethane	U		0.678	0.989
Ethylbenzene	U		0.362	0.867
Trichlorofluoromethane	U		0.460	1.12
1,1,2-Trichlorotrifluoroethane	U		0.608	1.53
1,2-Dichlorotetrafluoroethane	U		0.622	1.40
n-Hexane	U		0.726	2.22
Hexachloro-1,3-butadiene	U		1.12	6.73
4-Methyl-2-pentanone (MIBK)	U		0.313	5.12
MTBE	U		0.233	0.721

Method Blank (MB)

(MB) R3772917-3 03/22/22 09:14

Analyte	MB Result ug/m3	MB Qualifier	MB MDL ug/m3	MB RDL ug/m3
Methylene Chloride	U		0.340	0.694
Styrene	U		0.335	0.851
tert-Butyl alcohol	U		0.176	0.606
Tetrachloroethylene	U		0.553	1.36
Toluene	U		0.328	1.88
m&p-Xylene	U		0.585	1.73
o-Xylene	U		0.359	0.867
trans-1,2-Dichloroethene	U		0.267	0.793
trans-1,3-Dichloropropene	U		0.331	0.908
Trichloroethylene	U		0.364	1.07
Vinyl chloride	U		0.243	0.511
Naphthalene	U		1.83	3.30
(S) 1,4-Bromofluorobenzene	*97.4*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3772917-1 03/22/22 08:11 • (LCSD) R3772917-2 03/22/22 08:44

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1-Trichloroethane	20.4	21.3	20.5	104	101	70.0-130			3.65	25
1,1,2,2-Tetrachloroethane	25.8	25.3	25.4	98.1	98.4	70.0-130			0.271	25
1,1,2-Trichloroethane	20.4	20.7	20.9	102	102	70.0-130			0.784	25
1,1-Dichloroethane	15.0	15.8	15.1	105	101	70.0-130			4.66	25
1,1-Dichloroethene	14.9	15.3	15.1	103	102	70.0-130			1.56	25
1,2,4-Trichlorobenzene	27.8	27.8	27.4	100	98.7	70.0-160			1.34	25
1,2,4-Trimethylbenzene	18.4	17.9	18.3	97.3	99.5	70.0-130			2.17	25
1,2-Dibromoethane	28.8	30.0	29.6	104	103	70.0-130			1.29	25
1,2-Dichlorobenzene	22.5	22.2	23.1	98.4	103	70.0-130			4.24	25
1,2-Dichloroethane	15.2	15.5	15.0	102	98.7	70.0-130			3.19	25
1,2-Dichloropropane	17.3	18.3	17.5	106	101	70.0-130			4.65	25
1,3,5-Trimethylbenzene	18.4	18.5	18.9	101	103	70.0-130			2.10	25
1,4-Dichlorobenzene	22.5	21.2	21.6	93.9	95.7	70.0-130			1.97	25
1,4-Dioxane	13.5	13.6	14.1	101	104	70.0-140			3.38	25
Methyl Ethyl Ketone	11.1	12.5	12.1	113	109	70.0-130			3.12	25
1,3-Dichlorobenzene	22.5	21.9	22.7	97.3	101	70.0-130			3.50	25
2,2,4-Trimethylpentane	17.5	18.3	18.0	104	103	70.0-130			1.55	25
Benzene	12.0	12.3	12.1	102	101	70.0-130			1.57	25
Benzyl Chloride	19.5	18.8	19.2	96.3	98.7	70.0-152			2.46	25
Bromodichloromethane	25.2	26.4	26.0	105	103	70.0-130			1.79	25

QUALITY CONTROL SUMMARY

L1471925-01,02,03,04

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3772917-1 03/22/22 08:11 • (LCSD) R3772917-2 03/22/22 08:44

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	38.8	37.0	36.8	95.5	94.9	70.0-130			0.560	25
Bromomethane	14.6	15.1	15.0	104	103	70.0-130			0.774	25
Carbon tetrachloride	23.6	24.5	23.6	104	100	70.0-130			3.66	25
Chlorobenzene	17.3	17.5	17.1	101	98.7	70.0-130			2.14	25
Chloroethane	9.89	10.2	10.2	103	103	70.0-130			0.000	25
Chloroform	18.3	19.1	18.8	105	103	70.0-130			1.54	25
Cyclohexane	12.9	13.9	13.1	108	102	70.0-130			5.86	25
Chloromethane	7.75	8.30	7.89	107	102	70.0-130			5.10	25
cis-1,2-Dichloroethene	14.9	15.1	15.2	102	102	70.0-130			0.522	25
cis-1,3-Dichloropropene	17.0	17.5	17.5	103	103	70.0-130			0.000	25
Dibromochloromethane	31.9	32.6	31.7	102	99.5	70.0-130			2.65	25
Dichlorodifluoromethane	18.5	20.0	19.1	108	103	64.0-139			4.56	25
Ethylbenzene	16.3	16.4	16.9	101	104	70.0-130			2.86	25
Trichlorofluoromethane	21.1	21.9	21.4	104	101	70.0-130			2.34	25
1,1,2-Trichlorotrifluoroethane	28.7	29.7	29.0	103	101	70.0-130			2.35	25
1,2-Dichlorotetrafluoroethane	26.2	27.3	26.5	104	101	70.0-130			2.86	25
n-Hexane	13.2	13.8	13.5	104	102	70.0-130			2.33	25
Hexachloro-1,3-butadiene	40.0	39.3	40.7	98.1	102	70.0-151			3.47	25
4-Methyl-2-pentanone (MIBK)	15.4	15.3	15.7	99.7	102	70.0-139			2.38	25
MTBE	13.5	14.2	14.1	105	104	70.0-130			1.27	25
Methylene Chloride	13.0	13.4	13.4	103	103	70.0-130			0.259	25
Styrene	16.0	16.4	16.5	103	104	70.0-130			1.03	25
tert-Butyl alcohol	11.4	11.9	11.7	105	103	70.0-130			2.05	25
Tetrachloroethylene	25.5	23.8	24.1	93.3	94.7	70.0-130			1.42	25
Toluene	14.1	14.2	13.9	101	98.1	70.0-130			2.68	25
m&p-Xylene	32.5	32.3	32.8	99.3	101	70.0-130			1.47	25
o-Xylene	16.3	16.0	16.3	98.7	100	70.0-130			1.61	25
trans-1,2-Dichloroethene	14.9	15.2	14.9	102	101	70.0-130			1.58	25
trans-1,3-Dichloropropene	17.0	17.3	16.9	102	99.2	70.0-130			2.65	25
Trichloroethylene	20.1	20.4	20.1	102	100	70.0-130			1.32	25
Vinyl chloride	9.59	10.3	9.74	107	102	70.0-130			5.36	25
Naphthalene	19.6	18.3	18.3	93.1	93.1	70.0-159			0.000	25
(S) 1,4-Bromofluorobenzene				*96.8*	*100*	*60.0-140*				

Method Blank (MB)

(MB) R3773110-3 03/23/22 10:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/m3		ug/m3	ug/m3
Ethanol	U		0.500	2.36
(S) 1,4-Bromofluorobenzene	*96.2*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3773110-1 03/23/22 08:44 • (LCSD) R3773110-2 03/23/22 09:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/m3	ug/m3	ug/m3	%	%	%			%	%
Ethanol	7.07	6.58	6.54	93.1	92.5	55.0-148			0.575	25
(S) 1,4-Bromofluorobenzene				*98.7*	*98.5*	*60.0-140*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
NYDEC

269 West Jefferson St.
Syracuse, NY 13202

Billing Information:
Accounts Payable
831 Route 67
Ballston, NY 12020

Report To:
Noah Robinson

Email To:
nrobinson@eaest.com

Project Description: **Tres Bon**

City/State Collected: Village of Franklin Square, NY

Please Circle: PT MT CT (ET)

Phone:
315-849-4194

Client Project #
130058

Lab Project #
NYDEC-EA

Collected by (print):
Lincoln Backman-Love

Site/Facility ID #
130058

P.O. #
1602523/0034

Collected by (signature):
Lincoln Backman-Love

Rush? (Lab MUST Be Notified)
___ Same Day ___ Three Day
___ Next Day ___ Five Day
___ Two Day
Standard

Date Results Needed
standard

Sample ID	Can #	Flow Cont. #	Collection Date	Collection Time	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	TO-15 Summa	Analysis	Analysis	Analysis	Rem./Contaminant	Sample # (lab only)
130058-IA-1	11128	021254	3/15/22	1506	30.0	6.5	X					-01
130058-IA-2	009782	011680	3/15/22	1517	30.0	7.0	X					-02
130058-OA-1	020806	011718	3/15/22	1513	30.0	3.5	X					-03
130058-DUP-1	12519	011692	3/15/22	~~1506~~ LBL	29.5	6.5	X					-04

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE
MT JULIET, TN
12065 Lebanon Road Mt Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1471925

D147

Acctnum: **NYDEC**
Template: **T204878**
Prelogin: **P909936**
PM: **134 - Mark W. Beasley**
PB: LSL 03/04/22
Shipped Via: **FedEX Ground**

Sample Receipt Checklist
COC Seal Present/Intact: __Y ✓N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Pres.Correct/Check: __Y __N

Samples returned via:
__ UPS __ FedEx __ Courier ____

Tracking # 5349 7821 1897

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Lincoln Backman-Love	3/15/22	1619			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
			D. Ramsey	3/16/22	930

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ___NA

NCF:

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

March 29, 2023

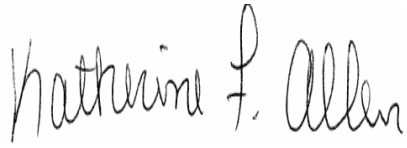
Michael Miller
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: Franklin Square, NY
Client Job Number:
Project Number: 1602523.0011
Laboratory Work Order Number: 23C1351

Enclosed are results of analyses for samples as received by the laboratory on March 10, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle K. Stuckey
Project Manager



QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Michael Miller

REPORT DATE: 3/29/2023

PURCHASE ORDER NUMBER: SMPC0001

PROJECT NUMBER: 1602523.0011

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23C1351

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

PROJECT LOCATION: Franklin Square, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
130058-IA-1-0323	23C1351-01	Indoor air		EPA TO-15	
130058-IA-2-0323	23C1351-02	Indoor air		EPA TO-15	
130058-OA-1-0323	23C1351-03	Ambient Air		EPA TO-15	
130058-FD-1-0323	23C1351-04	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.

EPA TO-15

Qualifications:

E Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Ethanol

23C1351-01[130058-IA-1-0323], 23C1351-02RE1[130058-IA-2-0323], 23C1351-03[130058-OA-1-0323], 23C1351-04[130058-FD-1-0323]

L-01 Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Benzyl chloride

B335600-BS1

L-03 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorobutadiene, Naphthalene

23C1351-01[130058-IA-1-0323], 23C1351-02[130058-IA-2-0323], 23C1351-03[130058-OA-1-0323], 23C1351-04[130058-FD-1-0323], B335600-BLK1, B335600-BS1

V-05 Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Hexachlorobutadiene, Naphthalene

23C1351-01[130058-IA-1-0323], 23C1351-02[130058-IA-2-0323], 23C1351-03[130058-OA-1-0323], 23C1351-04[130058-FD-1-0323], B335600-BLK1, B335600-BS1, S085202-CCV1

V-20 Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Benzyl chloride

B335600-BS1, S085202-CCV1

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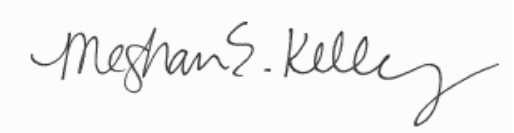
The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in 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: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-IA-1-0323
Sample ID: 23C1351-01
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1618
Canister Size: 6 liter
Flow Controller ID: 3417
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -13
Receipt Vacuum(in Hg): -12.1
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	8.3	1.4	0.84		20	3.3	2.0	0.696	3/23/23 14:44	CMR
Benzene	1.3	0.035	0.026		4.3	0.11	0.084	0.696	3/23/23 14:44	CMR
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.696	3/23/23 14:44	CMR
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.696	3/23/23 14:44	CMR
Bromoform	ND	0.035	0.024		ND	0.36	0.24	0.696	3/23/23 14:44	CMR
Bromomethane	ND	0.035	0.023		ND	0.14	0.090	0.696	3/23/23 14:44	CMR
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.696	3/23/23 14:44	CMR
2-Butanone (MEK)	0.47	1.4	0.37	J	1.4	4.1	1.1	0.696	3/23/23 14:44	CMR
Carbon Disulfide	0.042	0.35	0.032	J	0.13	1.1	0.10	0.696	3/23/23 14:44	CMR
Carbon Tetrachloride	0.036	0.035	0.028		0.23	0.22	0.17	0.696	3/23/23 14:44	CMR
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.696	3/23/23 14:44	CMR
Chloroethane	0.068	0.035	0.031		0.18	0.092	0.081	0.696	3/23/23 14:44	CMR
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.696	3/23/23 14:44	CMR
Chloromethane	0.68	0.070	0.028		1.4	0.14	0.057	0.696	3/23/23 14:44	CMR
Cyclohexane	0.058	0.035	0.021		0.20	0.12	0.072	0.696	3/23/23 14:44	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.696	3/23/23 14:44	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.696	3/23/23 14:44	CMR
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.696	3/23/23 14:44	CMR
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.696	3/23/23 14:44	CMR
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.696	3/23/23 14:44	CMR
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.034		2.4	0.17	0.17	0.696	3/23/23 14:44	CMR
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.696	3/23/23 14:44	CMR
1,2-Dichloroethane	0.043	0.035	0.032		0.17	0.14	0.13	0.696	3/23/23 14:44	CMR
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.696	3/23/23 14:44	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.696	3/23/23 14:44	CMR
trans-1,2-Dichloroethylene	0.062	0.035	0.027		0.25	0.14	0.11	0.696	3/23/23 14:44	CMR
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.696	3/23/23 14:44	CMR
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.696	3/23/23 14:44	CMR
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.696	3/23/23 14:44	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.696	3/23/23 14:44	CMR
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.696	3/23/23 14:44	CMR
Ethanol	350	1.4	0.61	E	670	2.6	1.2	0.696	3/23/23 14:44	CMR
Ethyl Acetate	0.68	0.35	0.18		2.4	1.3	0.63	0.696	3/23/23 14:44	CMR
Ethylbenzene	0.12	0.035	0.020		0.50	0.15	0.088	0.696	3/23/23 14:44	CMR
4-Ethyltoluene	0.025	0.035	0.021	J	0.12	0.17	0.11	0.696	3/23/23 14:44	CMR
Heptane	0.43	0.035	0.022		1.8	0.14	0.091	0.696	3/23/23 14:44	CMR
Hexachlorobutadiene	ND	0.035	0.029	L-03, V-05	ND	0.37	0.31	0.696	3/23/23 14:44	CMR
Hexane	0.20	1.4	0.18	J	0.70	4.9	0.64	0.696	3/23/23 14:44	CMR
2-Hexanone (MBK)	ND	0.035	0.017		ND	0.14	0.071	0.696	3/23/23 14:44	CMR
Isopropanol	2.1	1.4	0.24		5.2	3.4	0.59	0.696	3/23/23 14:44	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.696	3/23/23 14:44	CMR
Methylene Chloride	0.20	0.35	0.16	J	0.71	1.2	0.56	0.696	3/23/23 14:44	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.019		ND	0.14	0.076	0.696	3/23/23 14:44	CMR
Naphthalene	0.11	0.035	0.026	L-03, V-05	0.55	0.18	0.14	0.696	3/23/23 14:44	CMR
Propene	ND	1.4	0.31		ND	2.4	0.53	0.696	3/23/23 14:44	CMR
Styrene	0.21	0.035	0.018		0.90	0.15	0.078	0.696	3/23/23 14:44	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.696	3/23/23 14:44	CMR

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-IA-1-0323
Sample ID: 23C1351-01
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1618
Canister Size: 6 liter
Flow Controller ID: 3417
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -13
Receipt Vacuum(in Hg): -12.1
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	4.8	0.035	0.027		32	0.24	0.18	0.696	3/23/23 14:44	CMR
Tetrahydrofuran	0.16	0.35	0.057	J	0.46	1.0	0.17	0.696	3/23/23 14:44	CMR
Toluene	0.48	0.035	0.020		1.8	0.13	0.075	0.696	3/23/23 14:44	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.032		ND	0.26	0.24	0.696	3/23/23 14:44	CMR
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.696	3/23/23 14:44	CMR
1,1,2-Trichloroethane	ND	0.035	0.024		ND	0.19	0.13	0.696	3/23/23 14:44	CMR
Trichloroethylene	ND	0.035	0.023		ND	0.19	0.13	0.696	3/23/23 14:44	CMR
Trichlorofluoromethane (Freon 11)	0.12	0.14	0.041	J	0.67	0.78	0.23	0.696	3/23/23 14:44	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14	0.039		ND	1.1	0.30	0.696	3/23/23 14:44	CMR
1,2,4-Trimethylbenzene	0.12	0.035	0.015		0.58	0.17	0.076	0.696	3/23/23 14:44	CMR
1,3,5-Trimethylbenzene	0.029	0.035	0.018	J	0.14	0.17	0.090	0.696	3/23/23 14:44	CMR
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.696	3/23/23 14:44	CMR
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.696	3/23/23 14:44	CMR
m&p-Xylene	0.23	0.070	0.039		0.98	0.30	0.17	0.696	3/23/23 14:44	CMR
o-Xylene	0.10	0.035	0.018		0.44	0.15	0.077	0.696	3/23/23 14:44	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	3/23/23 14:44

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-IA-2-0323
Sample ID: 23C1351-02
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 2157
Canister Size: 6 liter
Flow Controller ID: 3731
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -14
Receipt Vacuum(in Hg): -13.7
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	21	1.6	0.97		50	3.8	2.3	0.8	3/23/23 15:16	CMR
Benzene	0.50	0.040	0.030		1.6	0.13	0.097	0.8	3/23/23 15:16	CMR
Benzyl chloride	ND	0.040	0.035		ND	0.21	0.18	0.8	3/23/23 15:16	CMR
Bromodichloromethane	ND	0.040	0.028		ND	0.27	0.19	0.8	3/23/23 15:16	CMR
Bromoform	ND	0.040	0.027		ND	0.41	0.28	0.8	3/23/23 15:16	CMR
Bromomethane	ND	0.040	0.027		ND	0.16	0.10	0.8	3/23/23 15:16	CMR
1,3-Butadiene	ND	0.040	0.034		ND	0.088	0.074	0.8	3/23/23 15:16	CMR
2-Butanone (MEK)	1.6	1.6	0.43	J	4.6	4.7	1.3	0.8	3/23/23 15:16	CMR
Carbon Disulfide	0.51	0.40	0.037		1.6	1.2	0.12	0.8	3/23/23 15:16	CMR
Carbon Tetrachloride	0.073	0.040	0.032		0.46	0.25	0.20	0.8	3/23/23 15:16	CMR
Chlorobenzene	ND	0.040	0.027		ND	0.18	0.12	0.8	3/23/23 15:16	CMR
Chloroethane	ND	0.040	0.035		ND	0.11	0.094	0.8	3/23/23 15:16	CMR
Chloroform	ND	0.040	0.038		ND	0.20	0.19	0.8	3/23/23 15:16	CMR
Chloromethane	0.64	0.080	0.032		1.3	0.17	0.066	0.8	3/23/23 15:16	CMR
Cyclohexane	0.051	0.040	0.024		0.18	0.14	0.083	0.8	3/23/23 15:16	CMR
Dibromochloromethane	ND	0.040	0.026		ND	0.34	0.23	0.8	3/23/23 15:16	CMR
1,2-Dibromoethane (EDB)	ND	0.040	0.024		ND	0.31	0.19	0.8	3/23/23 15:16	CMR
1,2-Dichlorobenzene	ND	0.040	0.023		ND	0.24	0.14	0.8	3/23/23 15:16	CMR
1,3-Dichlorobenzene	ND	0.040	0.022		ND	0.24	0.13	0.8	3/23/23 15:16	CMR
1,4-Dichlorobenzene	ND	0.040	0.026		ND	0.24	0.16	0.8	3/23/23 15:16	CMR
Dichlorodifluoromethane (Freon 12)	ND	0.040	0.039		ND	0.20	0.19	0.8	3/23/23 15:16	CMR
1,1-Dichloroethane	ND	0.040	0.035		ND	0.16	0.14	0.8	3/23/23 15:16	CMR
1,2-Dichloroethane	ND	0.040	0.036		ND	0.16	0.15	0.8	3/23/23 15:16	CMR
1,1-Dichloroethylene	ND	0.040	0.030		ND	0.16	0.12	0.8	3/23/23 15:16	CMR
cis-1,2-Dichloroethylene	0.74	0.040	0.029		3.0	0.16	0.12	0.8	3/23/23 15:16	CMR
trans-1,2-Dichloroethylene	ND	0.040	0.031		ND	0.16	0.12	0.8	3/23/23 15:16	CMR
1,2-Dichloropropane	ND	0.040	0.022		ND	0.18	0.10	0.8	3/23/23 15:16	CMR
cis-1,3-Dichloropropene	ND	0.040	0.021		ND	0.18	0.094	0.8	3/23/23 15:16	CMR
trans-1,3-Dichloropropene	ND	0.040	0.020		ND	0.18	0.093	0.8	3/23/23 15:16	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.040	0.039		ND	0.28	0.28	0.8	3/23/23 15:16	CMR
1,4-Dioxane	ND	0.40	0.033		ND	1.4	0.12	0.8	3/23/23 15:16	CMR
Ethanol	5800	80	35	E	11000	150	66	40	3/24/23 22:43	TPH
Ethyl Acetate	2.6	0.40	0.20		9.5	1.4	0.73	0.8	3/23/23 15:16	CMR
Ethylbenzene	0.060	0.040	0.023		0.26	0.17	0.10	0.8	3/23/23 15:16	CMR
4-Ethyltoluene	0.027	0.040	0.025	J	0.13	0.20	0.12	0.8	3/23/23 15:16	CMR
Heptane	0.18	0.040	0.026		0.76	0.16	0.10	0.8	3/23/23 15:16	CMR
Hexachlorobutadiene	ND	0.040	0.033	L-03, V-05	ND	0.43	0.35	0.8	3/23/23 15:16	CMR
Hexane	ND	1.6	0.21		ND	5.6	0.73	0.8	3/23/23 15:16	CMR
2-Hexanone (MBK)	0.28	0.040	0.020		1.1	0.16	0.082	0.8	3/23/23 15:16	CMR
Isopropanol	2.8	1.6	0.28		6.9	3.9	0.68	0.8	3/23/23 15:16	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.040	0.031		ND	0.14	0.11	0.8	3/23/23 15:16	CMR
Methylene Chloride	ND	0.40	0.19		ND	1.4	0.64	0.8	3/23/23 15:16	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.040	0.021		ND	0.16	0.088	0.8	3/23/23 15:16	CMR
Naphthalene	ND	0.040	0.030	L-03, V-05	ND	0.21	0.16	0.8	3/23/23 15:16	CMR
Propene	ND	1.6	0.35		ND	2.8	0.61	0.8	3/23/23 15:16	CMR
Styrene	0.081	0.040	0.021		0.34	0.17	0.090	0.8	3/23/23 15:16	CMR
1,1,2,2-Tetrachloroethane	ND	0.040	0.022		ND	0.27	0.15	0.8	3/23/23 15:16	CMR

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-IA-2-0323
Sample ID: 23C1351-02
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 2157
Canister Size: 6 liter
Flow Controller ID: 3731
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -14
Receipt Vacuum(in Hg): -13.7
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	1.7	0.040	0.031		12	0.27	0.21	0.8	3/23/23 15:16	CMR
Tetrahydrofuran	ND	0.40	0.066		ND	1.2	0.19	0.8	3/23/23 15:16	CMR
Toluene	0.30	0.040	0.023		1.1	0.15	0.086	0.8	3/23/23 15:16	CMR
1,2,4-Trichlorobenzene	ND	0.040	0.037		ND	0.30	0.27	0.8	3/23/23 15:16	CMR
1,1,1-Trichloroethane	ND	0.040	0.031		ND	0.22	0.17	0.8	3/23/23 15:16	CMR
1,1,2-Trichloroethane	ND	0.040	0.028		ND	0.22	0.15	0.8	3/23/23 15:16	CMR
Trichloroethylene	0.046	0.040	0.027		0.25	0.21	0.14	0.8	3/23/23 15:16	CMR
Trichlorofluoromethane (Freon 11)	0.24	0.16	0.047		1.3	0.90	0.27	0.8	3/23/23 15:16	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.092	0.16	0.044	J	0.71	1.2	0.34	0.8	3/23/23 15:16	CMR
1,2,4-Trimethylbenzene	0.11	0.040	0.018		0.52	0.20	0.087	0.8	3/23/23 15:16	CMR
1,3,5-Trimethylbenzene	0.047	0.040	0.021		0.23	0.20	0.10	0.8	3/23/23 15:16	CMR
Vinyl Acetate	ND	0.80	0.21		ND	2.8	0.76	0.8	3/23/23 15:16	CMR
Vinyl Chloride	ND	0.040	0.036		ND	0.10	0.092	0.8	3/23/23 15:16	CMR
m&p-Xylene	0.15	0.080	0.045		0.64	0.35	0.19	0.8	3/23/23 15:16	CMR
o-Xylene	0.069	0.040	0.020		0.30	0.17	0.089	0.8	3/23/23 15:16	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	3/24/23 22:43
4-Bromofluorobenzene (1)	108	70-130	3/23/23 15:16

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-OA-1-0323
Sample ID: 23C1351-03
Sample Matrix: Ambient Air
Sampled: 3/7/2023 09:36

Sample Description/Location:
Sub Description/Location:
Canister ID: 1073
Canister Size: 6 liter
Flow Controller ID: 3732
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -12
Receipt Vacuum(in Hg): -11.5
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	3.7	1.4	0.84		8.8	3.3	2.0	0.696	3/23/23 15:48	CMR
Benzene	0.20	0.035	0.026		0.65	0.11	0.084	0.696	3/23/23 15:48	CMR
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.696	3/23/23 15:48	CMR
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.696	3/23/23 15:48	CMR
Bromoform	ND	0.035	0.024		ND	0.36	0.24	0.696	3/23/23 15:48	CMR
Bromomethane	ND	0.035	0.023		ND	0.14	0.090	0.696	3/23/23 15:48	CMR
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.696	3/23/23 15:48	CMR
2-Butanone (MEK)	0.51	1.4	0.37	J	1.5	4.1	1.1	0.696	3/23/23 15:48	CMR
Carbon Disulfide	ND	0.35	0.032		ND	1.1	0.10	0.696	3/23/23 15:48	CMR
Carbon Tetrachloride	0.065	0.035	0.028		0.41	0.22	0.17	0.696	3/23/23 15:48	CMR
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.696	3/23/23 15:48	CMR
Chloroethane	ND	0.035	0.031		ND	0.092	0.081	0.696	3/23/23 15:48	CMR
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.696	3/23/23 15:48	CMR
Chloromethane	0.62	0.070	0.028		1.3	0.14	0.057	0.696	3/23/23 15:48	CMR
Cyclohexane	0.028	0.035	0.021	J	0.096	0.12	0.072	0.696	3/23/23 15:48	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.696	3/23/23 15:48	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.696	3/23/23 15:48	CMR
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.696	3/23/23 15:48	CMR
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.696	3/23/23 15:48	CMR
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.696	3/23/23 15:48	CMR
Dichlorodifluoromethane (Freon 12)	0.64	0.035	0.034		3.2	0.17	0.17	0.696	3/23/23 15:48	CMR
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.696	3/23/23 15:48	CMR
1,2-Dichloroethane	ND	0.035	0.032		ND	0.14	0.13	0.696	3/23/23 15:48	CMR
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.696	3/23/23 15:48	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.696	3/23/23 15:48	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.696	3/23/23 15:48	CMR
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.696	3/23/23 15:48	CMR
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.696	3/23/23 15:48	CMR
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.696	3/23/23 15:48	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.696	3/23/23 15:48	CMR
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.696	3/23/23 15:48	CMR
Ethanol	66	1.4	0.61	E	120	2.6	1.2	0.696	3/23/23 15:48	CMR
Ethyl Acetate	ND	0.35	0.18		ND	1.3	0.63	0.696	3/23/23 15:48	CMR
Ethylbenzene	0.035	0.035	0.020		0.15	0.15	0.088	0.696	3/23/23 15:48	CMR
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.696	3/23/23 15:48	CMR
Heptane	0.093	0.035	0.022		0.38	0.14	0.091	0.696	3/23/23 15:48	CMR
Hexachlorobutadiene	ND	0.035	0.029	L-03, V-05	ND	0.37	0.31	0.696	3/23/23 15:48	CMR
Hexane	ND	1.4	0.18		ND	4.9	0.64	0.696	3/23/23 15:48	CMR
2-Hexanone (MBK)	0.079	0.035	0.017		0.32	0.14	0.071	0.696	3/23/23 15:48	CMR
Isopropanol	0.67	1.4	0.24	J	1.6	3.4	0.59	0.696	3/23/23 15:48	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.696	3/23/23 15:48	CMR
Methylene Chloride	ND	0.35	0.16		ND	1.2	0.56	0.696	3/23/23 15:48	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.019		ND	0.14	0.076	0.696	3/23/23 15:48	CMR
Naphthalene	ND	0.035	0.026	L-03, V-05	ND	0.18	0.14	0.696	3/23/23 15:48	CMR
Propene	ND	1.4	0.31		ND	2.4	0.53	0.696	3/23/23 15:48	CMR
Styrene	ND	0.035	0.018		ND	0.15	0.078	0.696	3/23/23 15:48	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.696	3/23/23 15:48	CMR

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-OA-1-0323
Sample ID: 23C1351-03
Sample Matrix: Ambient Air
Sampled: 3/7/2023 09:36

Sample Description/Location:
Sub Description/Location:
Canister ID: 1073
Canister Size: 6 liter
Flow Controller ID: 3732
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -12
Receipt Vacuum(in Hg): -11.5
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	0.053	0.035	0.027		0.36	0.24	0.18	0.696	3/23/23 15:48	CMR
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.696	3/23/23 15:48	CMR
Toluene	0.21	0.035	0.020		0.78	0.13	0.075	0.696	3/23/23 15:48	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.032		ND	0.26	0.24	0.696	3/23/23 15:48	CMR
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.696	3/23/23 15:48	CMR
1,1,2-Trichloroethane	ND	0.035	0.024		ND	0.19	0.13	0.696	3/23/23 15:48	CMR
Trichloroethylene	ND	0.035	0.023		ND	0.19	0.13	0.696	3/23/23 15:48	CMR
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.041		1.3	0.78	0.23	0.696	3/23/23 15:48	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.079	0.14	0.039	J	0.61	1.1	0.30	0.696	3/23/23 15:48	CMR
1,2,4-Trimethylbenzene	0.038	0.035	0.015		0.19	0.17	0.076	0.696	3/23/23 15:48	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.090	0.696	3/23/23 15:48	CMR
Vinyl Acetate	ND	0.70	0.19		ND	2.5	0.66	0.696	3/23/23 15:48	CMR
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.696	3/23/23 15:48	CMR
m&p-Xylene	0.11	0.070	0.039		0.46	0.30	0.17	0.696	3/23/23 15:48	CMR
o-Xylene	0.046	0.035	0.018		0.20	0.15	0.077	0.696	3/23/23 15:48	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	3/23/23 15:48

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-FD-1-0323
Sample ID: 23C1351-04
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:36

Sample Description/Location:
Sub Description/Location:
Canister ID: 2158
Canister Size: 6 liter
Flow Controller ID: 3508
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -7
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	9.9	1.4	0.84		23	3.3	2.0	0.698	3/23/23 16:20	CMR
Benzene	1.3	0.035	0.026		4.1	0.11	0.084	0.698	3/23/23 16:20	CMR
Benzyl chloride	ND	0.035	0.031		ND	0.18	0.16	0.698	3/23/23 16:20	CMR
Bromodichloromethane	ND	0.035	0.024		ND	0.23	0.16	0.698	3/23/23 16:20	CMR
Bromoform	ND	0.035	0.024		ND	0.36	0.25	0.698	3/23/23 16:20	CMR
Bromomethane	ND	0.035	0.023		ND	0.14	0.090	0.698	3/23/23 16:20	CMR
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	3/23/23 16:20	CMR
2-Butanone (MEK)	0.80	1.4	0.37	J	2.4	4.1	1.1	0.698	3/23/23 16:20	CMR
Carbon Disulfide	0.033	0.35	0.032	J	0.10	1.1	0.10	0.698	3/23/23 16:20	CMR
Carbon Tetrachloride	0.038	0.035	0.028		0.24	0.22	0.17	0.698	3/23/23 16:20	CMR
Chlorobenzene	ND	0.035	0.023		ND	0.16	0.11	0.698	3/23/23 16:20	CMR
Chloroethane	0.060	0.035	0.031		0.16	0.092	0.082	0.698	3/23/23 16:20	CMR
Chloroform	ND	0.035	0.033		ND	0.17	0.16	0.698	3/23/23 16:20	CMR
Chloromethane	0.65	0.070	0.028		1.3	0.14	0.057	0.698	3/23/23 16:20	CMR
Cyclohexane	0.046	0.035	0.021		0.16	0.12	0.073	0.698	3/23/23 16:20	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/23/23 16:20	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.021		ND	0.27	0.16	0.698	3/23/23 16:20	CMR
1,2-Dichlorobenzene	ND	0.035	0.020		ND	0.21	0.12	0.698	3/23/23 16:20	CMR
1,3-Dichlorobenzene	ND	0.035	0.019		ND	0.21	0.12	0.698	3/23/23 16:20	CMR
1,4-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.14	0.698	3/23/23 16:20	CMR
Dichlorodifluoromethane (Freon 12)	0.49	0.035	0.034		2.4	0.17	0.17	0.698	3/23/23 16:20	CMR
1,1-Dichloroethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/23/23 16:20	CMR
1,2-Dichloroethane	0.038	0.035	0.032		0.16	0.14	0.13	0.698	3/23/23 16:20	CMR
1,1-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	3/23/23 16:20	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.025		ND	0.14	0.10	0.698	3/23/23 16:20	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.027		ND	0.14	0.11	0.698	3/23/23 16:20	CMR
1,2-Dichloropropane	ND	0.035	0.019		ND	0.16	0.087	0.698	3/23/23 16:20	CMR
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	3/23/23 16:20	CMR
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.081	0.698	3/23/23 16:20	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035	0.034		ND	0.24	0.24	0.698	3/23/23 16:20	CMR
1,4-Dioxane	ND	0.35	0.029		ND	1.3	0.10	0.698	3/23/23 16:20	CMR
Ethanol	350	1.4	0.62	E	660	2.6	1.2	0.698	3/23/23 16:20	CMR
Ethyl Acetate	0.76	0.35	0.18		2.7	1.3	0.64	0.698	3/23/23 16:20	CMR
Ethylbenzene	0.087	0.035	0.020		0.38	0.15	0.088	0.698	3/23/23 16:20	CMR
4-Ethyltoluene	ND	0.035	0.021		ND	0.17	0.11	0.698	3/23/23 16:20	CMR
Heptane	0.32	0.035	0.022		1.3	0.14	0.091	0.698	3/23/23 16:20	CMR
Hexachlorobutadiene	ND	0.035	0.029	L-03, V-05	ND	0.37	0.31	0.698	3/23/23 16:20	CMR
Hexane	ND	1.4	0.18		ND	4.9	0.64	0.698	3/23/23 16:20	CMR
2-Hexanone (MBK)	0.15	0.035	0.017		0.61	0.14	0.071	0.698	3/23/23 16:20	CMR
Isopropanol	2.5	1.4	0.24		6.1	3.4	0.59	0.698	3/23/23 16:20	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.027		ND	0.13	0.097	0.698	3/23/23 16:20	CMR
Methylene Chloride	0.20	0.35	0.16	J	0.68	1.2	0.56	0.698	3/23/23 16:20	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.019		ND	0.14	0.076	0.698	3/23/23 16:20	CMR
Naphthalene	ND	0.035	0.026	L-03, V-05	ND	0.18	0.14	0.698	3/23/23 16:20	CMR
Propene	ND	1.4	0.31		ND	2.4	0.53	0.698	3/23/23 16:20	CMR
Styrene	0.22	0.035	0.018		0.92	0.15	0.078	0.698	3/23/23 16:20	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.019		ND	0.24	0.13	0.698	3/23/23 16:20	CMR

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ANALYTICAL RESULTS

Project Location: Franklin Square, NY
Date Received: 3/10/2023
Field Sample #: 130058-FD-1-0323
Sample ID: 23C1351-04
Sample Matrix: Indoor air
Sampled: 3/7/2023 09:36

Sample Description/Location:
Sub Description/Location:
Canister ID: 2158
Canister Size: 6 liter
Flow Controller ID: 3508
Sample Type: 24 hr

Work Order: 23C1351
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -7
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	4.6	0.035	0.027		31	0.24	0.18	0.698	3/23/23 16:20	CMR
Tetrahydrofuran	ND	0.35	0.057		ND	1.0	0.17	0.698	3/23/23 16:20	CMR
Toluene	0.42	0.035	0.020		1.6	0.13	0.075	0.698	3/23/23 16:20	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.032		ND	0.26	0.24	0.698	3/23/23 16:20	CMR
1,1,1-Trichloroethane	ND	0.035	0.027		ND	0.19	0.15	0.698	3/23/23 16:20	CMR
1,1,2-Trichloroethane	ND	0.035	0.025		ND	0.19	0.13	0.698	3/23/23 16:20	CMR
Trichloroethylene	ND	0.035	0.024		ND	0.19	0.13	0.698	3/23/23 16:20	CMR
Trichlorofluoromethane (Freon 11)	0.12	0.14	0.041	J	0.68	0.78	0.23	0.698	3/23/23 16:20	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14	0.039		ND	1.1	0.30	0.698	3/23/23 16:20	CMR
1,2,4-Trimethylbenzene	0.058	0.035	0.015		0.28	0.17	0.076	0.698	3/23/23 16:20	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.091	0.698	3/23/23 16:20	CMR
Vinyl Acetate	0.65	0.70	0.19	J	2.3	2.5	0.66	0.698	3/23/23 16:20	CMR
Vinyl Chloride	ND	0.035	0.031		ND	0.089	0.080	0.698	3/23/23 16:20	CMR
m&p-Xylene	0.15	0.070	0.039		0.66	0.30	0.17	0.698	3/23/23 16:20	CMR
o-Xylene	0.072	0.035	0.018		0.31	0.15	0.078	0.698	3/23/23 16:20	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	109	70-130	3/23/23 16:20

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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
23C1351-02RE1 [130058-IA-2-0323]	B335323	2	1	N/A	1000	200	10	03/24/23

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
23C1351-01 [130058-IA-1-0323]	B335600	1.74	1	N/A	1000	200	500	03/23/23
23C1351-02 [130058-IA-2-0323]	B335600	2.0	1	N/A	1000	200	500	03/23/23
23C1351-03 [130058-OA-1-0323]	B335600	1.74	1	N/A	1000	200	500	03/23/23
23C1351-04 [130058-FD-1-0323]	B335600	1.5	1	N/A	1000	200	430	03/23/23

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 B335323 - TO-15 Prep											
Blank (B335323-BLK1)					Prepared & Analyzed: 03/24/23						
Acetone	ND	0.80									
2-Butanone (MEK)	ND	0.80									
Ethanol	ND	0.80									
4-Ethyltoluene	ND	0.020									
Isopropanol	0.21	0.80									J
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Surrogate: 4-Bromofluorobenzene (1)	*8.56*				*8.00*		*107*	*70-130*			
LCS (B335323-BS1)					Prepared & Analyzed: 03/24/23						
Acetone	4.90				5.00		98.1	70-130			
2-Butanone (MEK)	4.10				5.00		81.9	70-130			
Ethanol	4.52				5.00		90.5	70-130			
4-Ethyltoluene	4.62				5.00		92.5	70-130			
Isopropanol	3.98				5.00		79.5	70-130			
1,2,4-Trimethylbenzene	4.56				5.00		91.2	70-130			
1,3,5-Trimethylbenzene	4.58				5.00		91.5	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.60*				*8.00*		*107*	*70-130*			
Batch B335600 - TO-15 Prep											
Blank (B335600-BLK1)					Prepared & Analyzed: 03/23/23						
Acetone	ND	0.80									
Benzene	ND	0.020									
Benzyl chloride	ND	0.020									
Bromodichloromethane	ND	0.020									
Bromoform	ND	0.020									
Bromomethane	ND	0.020									
1,3-Butadiene	ND	0.020									
2-Butanone (MEK)	ND	0.80									
Carbon Disulfide	ND	0.20									
Carbon Tetrachloride	ND	0.020									
Chlorobenzene	ND	0.020									
Chloroethane	ND	0.020									
Chloroform	ND	0.020									
Chloromethane	ND	0.040									
Cyclohexane	ND	0.020									
Dibromochloromethane	ND	0.020									
1,2-Dibromoethane (EDB)	ND	0.020									
1,2-Dichlorobenzene	ND	0.020									
1,3-Dichlorobenzene	ND	0.020									
1,4-Dichlorobenzene	ND	0.020									
Dichlorodifluoromethane (Freon 12)	ND	0.020									
1,1-Dichloroethane	ND	0.020									
1,2-Dichloroethane	ND	0.020									
1,1-Dichloroethylene	ND	0.020									
cis-1,2-Dichloroethylene	ND	0.020									

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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 B335600 - TO-15 Prep											
Blank (B335600-BLK1)					Prepared & Analyzed: 03/23/23						
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.20									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									L-03, V-05
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									L-03, V-05
Propene	ND	0.80									
Styrene	ND	0.020									
1,1,2,2-Tetrachloroethane	ND	0.020									
Tetrachloroethylene	ND	0.020									
Tetrahydrofuran	ND	0.20									
Toluene	ND	0.020									
1,2,4-Trichlorobenzene	ND	0.020									
1,1,1-Trichloroethane	ND	0.020									
1,1,2-Trichloroethane	ND	0.020									
Trichloroethylene	ND	0.020									
Trichlorofluoromethane (Freon 11)	ND	0.080									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080									
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Vinyl Acetate	ND	0.40									
Vinyl Chloride	ND	0.020									
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
Surrogate: 4-Bromofluorobenzene (1)	*8.59*				*8.00*		*107*	*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 B335600 - TO-15 Prep												
LCS (B335600-BS1)					Prepared & Analyzed: 03/23/23							
Acetone	5.73				5.00		115		70-130			
Benzene	5.82				5.00		116		70-130			
Benzyl chloride	6.93				5.00		**139**	*	70-130			L-01, V-20
Bromodichloromethane	5.98				5.00		120		70-130			
Bromoform	6.33				5.00		127		70-130			
Bromomethane	5.36				5.00		107		70-130			
1,3-Butadiene	5.47				5.00		109		70-130			
2-Butanone (MEK)	4.90				5.00		97.9		70-130			
Carbon Disulfide	5.07				5.00		101		70-130			
Carbon Tetrachloride	5.49				5.00		110		70-130			
Chlorobenzene	5.39				5.00		108		70-130			
Chloroethane	5.73				5.00		115		70-130			
Chloroform	5.35				5.00		107		70-130			
Chloromethane	5.62				5.00		112		70-130			
Cyclohexane	6.10				5.00		122		70-130			
Dibromochloromethane	5.78				5.00		116		70-130			
1,2-Dibromoethane (EDB)	5.57				5.00		111		70-130			
1,2-Dichlorobenzene	5.51				5.00		110		70-130			
1,3-Dichlorobenzene	5.54				5.00		111		70-130			
1,4-Dichlorobenzene	5.89				5.00		118		70-130			
Dichlorodifluoromethane (Freon 12)	5.51				5.00		110		70-130			
1,1-Dichloroethane	5.85				5.00		117		70-130			
1,2-Dichloroethane	5.38				5.00		108		70-130			
1,1-Dichloroethylene	5.28				5.00		106		70-130			
cis-1,2-Dichloroethylene	5.44				5.00		109		70-130			
trans-1,2-Dichloroethylene	5.61				5.00		112		70-130			
1,2-Dichloropropane	6.20				5.00		124		70-130			
cis-1,3-Dichloropropene	6.11				5.00		122		70-130			
trans-1,3-Dichloropropene	6.36				5.00		127		70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.09				5.00		102		70-130			
1,4-Dioxane	6.03				5.00		121		70-130			
Ethanol	5.27				5.00		105		70-130			
Ethyl Acetate	5.10				5.00		102		70-130			
Ethylbenzene	5.52				5.00		110		70-130			
4-Ethyltoluene	5.72				5.00		114		70-130			
Heptane	6.01				5.00		120		70-130			
Hexachlorobutadiene	3.34				5.00		**66.8**	*	70-130			L-03, V-05
Hexane	5.52				5.00		110		70-130			
2-Hexanone (MBK)	5.43				5.00		109		70-130			
Isopropanol	4.70				5.00		94.0		70-130			
Methyl tert-Butyl Ether (MTBE)	5.41				5.00		108		70-130			
Methylene Chloride	4.93				5.00		98.6		70-130			
4-Methyl-2-pentanone (MIBK)	6.29				5.00		126		70-130			
Naphthalene	3.43				5.00		**68.6**	*	70-130			L-03, V-05
Propene	6.15				5.00		123		70-130			
Styrene	5.67				5.00		113		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 B335600 - TO-15 Prep											
LCS (B335600-BS1)					Prepared & Analyzed: 03/23/23						
1,1,2,2-Tetrachloroethane	5.65				5.00		113	70-130			
Tetrachloroethylene	5.52				5.00		110	70-130			
Tetrahydrofuran	5.16				5.00		103	70-130			
Toluene	5.55				5.00		111	70-130			
1,2,4-Trichlorobenzene	4.53				5.00		90.6	70-130			
1,1,1-Trichloroethane	5.40				5.00		108	70-130			
1,1,2-Trichloroethane	5.64				5.00		113	70-130			
Trichloroethylene	5.55				5.00		111	70-130			
Trichlorofluoromethane (Freon 11)	5.05				5.00		101	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.74				5.00		94.9	70-130			
1,2,4-Trimethylbenzene	5.59				5.00		112	70-130			
1,3,5-Trimethylbenzene	5.64				5.00		113	70-130			
Vinyl Acetate	6.07				5.00		121	70-130			
Vinyl Chloride	5.61				5.00		112	70-130			
m&p-Xylene	11.2				10.0		112	70-130			
o-Xylene	5.59				5.00		112	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.67*				*8.00*		*108*	*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-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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ANALYST

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CMR	Catherine M. Rouleau

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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 (S082540-ICV1)			Lab File ID: J23A025019.D			Analyzed: 01/26/23 00:04			
Bromochloromethane (1)	341158	2.806	341158	2.806	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1102343	3.428	1102343	3.428	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	959356	5.043	959356	5.043	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 (S085066-CCV1)			Lab File ID: J23A083004.D			Analyzed: 03/24/23 14:27			
Bromochloromethane (1)	341732	2.78	341732	2.78	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1001669	3.413	1001669	3.413	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	911329	5.034	911329	5.034	100	60 - 140	0.0000	+/-0.50	
LCS (B335323-BS1)			Lab File ID: J23A083005.D			Analyzed: 03/24/23 14:52			
Bromochloromethane (1)	347038	2.78	341732	2.78	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1006649	3.413	1001669	3.413	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	922043	5.034	911329	5.034	101	60 - 140	0.0000	+/-0.50	
Blank (B335323-BLK1)			Lab File ID: J23A083007.D			Analyzed: 03/24/23 15:48			
Bromochloromethane (1)	334553	2.764	341732	2.78	98	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	971000	3.4	1001669	3.413	97	60 - 140	-0.0130	+/-0.50	
Chlorobenzene-d5 (1)	883906	5.031	911329	5.034	97	60 - 140	-0.0030	+/-0.50	
130058-IA-2-0323 (23C1351-02RE1)			Lab File ID: J23A083022.D			Analyzed: 03/24/23 22:43			
Bromochloromethane (1)	339050	2.767	341732	2.78	99	60 - 140	-0.0130	+/-0.50	
1,4-Difluorobenzene (1)	995983	3.403	1001669	3.413	99	60 - 140	-0.0100	+/-0.50	
Chlorobenzene-d5 (1)	917023	5.03	911329	5.034	101	60 - 140	-0.0040	+/-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 (S085202-CCV1)			Lab File ID: J23A082005.D			Analyzed: 03/23/23 12:17			
Bromochloromethane (1)	296957	2.78	296957	2.78	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	853952	3.413	853952	3.413	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	770016	5.034	770016	5.034	100	60 - 140	0.0000	+/-0.50	
LCS (B335600-BS1)			Lab File ID: J23A082006.D			Analyzed: 03/23/23 12:42			
Bromochloromethane (1)	295090	2.78	296957	2.78	99	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	851872	3.413	853952	3.413	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	764347	5.034	770016	5.034	99	60 - 140	0.0000	+/-0.50	

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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
Blank (B335600-BLK1)			Lab File ID: J23A082009.D			Analyzed: 03/23/23 14:11			
Bromochloromethane (1)	280704	2.761	296957	2.78	95	60 - 140	-0.0190	+/-0.50	
1,4-Difluorobenzene (1)	800850	3.401	853952	3.413	94	60 - 140	-0.0120	+/-0.50	
Chlorobenzene-d5 (1)	708726	5.031	770016	5.034	92	60 - 140	-0.0030	+/-0.50	
130058-IA-1-0323 (23C1351-01)			Lab File ID: J23A082010.D			Analyzed: 03/23/23 14:44			
Bromochloromethane (1)	294748	2.764	296957	2.78	99	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	841751	3.404	853952	3.413	99	60 - 140	-0.0090	+/-0.50	
Chlorobenzene-d5 (1)	757808	5.031	770016	5.034	98	60 - 140	-0.0030	+/-0.50	
130058-IA-2-0323 (23C1351-02)			Lab File ID: J23A082011.D			Analyzed: 03/23/23 15:16			
Bromochloromethane (1)	296678	2.764	296957	2.78	100	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	857771	3.401	853952	3.413	100	60 - 140	-0.0120	+/-0.50	
Chlorobenzene-d5 (1)	775908	5.031	770016	5.034	101	60 - 140	-0.0030	+/-0.50	
130058-OA-1-0323 (23C1351-03)			Lab File ID: J23A082012.D			Analyzed: 03/23/23 15:48			
Bromochloromethane (1)	294657	2.764	296957	2.78	99	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	842666	3.401	853952	3.413	99	60 - 140	-0.0120	+/-0.50	
Chlorobenzene-d5 (1)	756288	5.031	770016	5.034	98	60 - 140	-0.0030	+/-0.50	
130058-FD-1-0323 (23C1351-04)			Lab File ID: J23A082013.D			Analyzed: 03/23/23 16:20			
Bromochloromethane (1)	296879	2.764	296957	2.78	100	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	853396	3.404	853952	3.413	100	60 - 140	-0.0090	+/-0.50	
Chlorobenzene-d5 (1)	774403	5.031	770016	5.034	101	60 - 140	-0.0030	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085066-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.73	0.9172061	0.868044		-5.4	30
2-Butanone (MEK)	A	5.00	4.08	1.412082	1.152421		-18.4	30
Ethanol	A	5.00	5.04	0.1626733	0.1639413		0.8	30
4-Ethyltoluene	A	5.00	4.72	1.333301	1.257199		-5.7	30
Isopropanol	A	5.00	4.73	1.0816	1.023338		-5.4	30
1,2,4-Trimethylbenzene	A	5.00	4.70	1.114566	1.047673		-6.0	30
1,3,5-Trimethylbenzene	A	5.00	4.72	1.126426	1.062262		-5.7	30

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

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085202-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.33	0.9172061	0.9783504		6.7	30
Benzene	A	5.00	5.61	0.7387105	0.8286124		12.2	30
Benzyl chloride	A	5.00	6.89	0.7213395	0.9937123		37.8	30 *
Bromodichloromethane	A	5.00	5.83	0.5251533	0.61201		16.5	30
Bromoform	A	5.00	6.02	0.4277704	0.5146179		20.3	30
Bromomethane	A	5.00	5.16	0.6097815	0.6288587		3.1	30
1,3-Butadiene	A	5.00	5.41	0.4638914	0.5023003		8.3	30
2-Butanone (MEK)	A	5.00	4.60	1.412082	1.297632		-8.1	30
Carbon Disulfide	A	5.00	4.66	1.950889	1.819102		-6.8	30
Carbon Tetrachloride	A	5.00	5.54	0.4804808	0.5325358		10.8	30
Chlorobenzene	A	5.00	5.19	0.7448082	0.7734717		3.8	30
Chloroethane	A	5.00	5.32	0.3583321	0.3811892		6.4	30
Chloroform	A	5.00	5.04	1.602387	1.61354		0.7	30
Chloromethane	A	5.00	5.41	0.498645	0.5394289		8.2	30
Cyclohexane	A	5.00	5.76	0.3089687	0.3561643		15.3	30
Dibromochloromethane	A	5.00	5.56	0.5087335	0.5655779		11.2	30
1,2-Dibromoethane (EDB)	A	5.00	5.38	0.4954263	0.5332585		7.6	30
1,2-Dichlorobenzene	A	5.00	5.33	0.6000711	0.6398454		6.6	30
1,3-Dichlorobenzene	A	5.00	5.43	0.6282622	0.6819141		8.5	30
1,4-Dichlorobenzene	A	5.00	5.90	0.5785005	0.6829593		18.1	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.35	1.788333	1.912681		7.0	30
1,1-Dichloroethane	A	5.00	5.49	1.234282	1.356258		9.9	30
1,2-Dichloroethane	A	5.00	5.09	1.007865	1.025926		1.8	30
1,1-Dichloroethylene	A	5.00	4.87	1.125918	1.095905		-2.7	30
cis-1,2-Dichloroethylene	A	5.00	5.25	0.988136	1.036869		4.9	30
trans-1,2-Dichloroethylene	A	5.00	5.39	1.018061	1.097619		7.8	30
1,2-Dichloropropane	A	5.00	5.93	0.2543605	0.3014952		18.5	30
cis-1,3-Dichloropropene	A	5.00	6.08	0.3935901	0.4786911		21.6	30
trans-1,3-Dichloropropene	A	5.00	6.08	0.350459	0.4262141		21.6	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.22	1.768022	1.844604		4.3	30
1,4-Dioxane	A	5.00	5.74	0.1607629	0.1846736		14.9	30
Ethanol	A	5.00	5.55	0.1626733	0.1806053		11.0	30
Ethyl Acetate	A	5.00	5.20	0.2181169	0.2267641		4.0	30
Ethylbenzene	A	5.00	5.38	1.320541	1.420964		7.6	30
4-Ethyltoluene	A	5.00	5.55	1.333301	1.479759		11.0	30
Heptane	A	5.00	5.88	0.2163238	0.2543937		17.6	30
Hexachlorobutadiene	A	5.00	3.28	0.4316824	0.283219		-34.4	30 *
Hexane	L	5.00	5.27	0.7010749	0.7456702		5.4	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S085202-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.07	0.5317658	0.5391659		1.4	30
Isopropanol	A	5.00	5.36	1.0816	1.158837		7.1	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.20	2.038246	2.118454		3.9	30
Methylene Chloride	A	5.00	4.64	0.7621343	0.707658		-7.1	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.80	0.2070279	0.2403189		16.1	30
Naphthalene	A	5.00	3.23	0.9438203	0.6099572		-35.4	30 *
Propene	A	5.00	5.89	0.3658411	0.4306617		17.7	30
Styrene	A	5.00	5.48	0.7117754	0.780497		9.7	30
1,1,2,2-Tetrachloroethane	A	5.00	5.40	0.7493945	0.8094149		8.0	30
Tetrachloroethylene	A	5.00	5.40	0.3917065	0.4233242		8.1	30
Tetrahydrofuran	A	5.00	4.74	0.721119	0.6843442		-5.1	30
Toluene	A	5.00	5.28	1.018666	1.07476		5.5	30
1,2,4-Trichlorobenzene	A	5.00	4.44	0.3480916	0.3089099		-11.3	30
1,1,1-Trichloroethane	A	5.00	5.42	0.5043155	0.5468054		8.4	30
1,1,2-Trichloroethane	A	5.00	5.33	0.3354709	0.3573889		6.5	30
Trichloroethylene	A	5.00	5.34	0.332105	0.354967		6.9	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.88	1.844271	1.798057		-2.5	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	4.44	1.418208	1.257987		-11.3	30
1,2,4-Trimethylbenzene	A	5.00	5.50	1.114566	1.225373		9.9	30
1,3,5-Trimethylbenzene	A	5.00	5.47	1.126426	1.231972		9.4	30
Vinyl Acetate	A	5.00	5.16	1.280082	1.319965		3.1	30
Vinyl Chloride	A	5.00	5.29	0.6431254	0.6801739		5.8	30
m&p-Xylene	A	10.0	10.8	1.065519	1.154159		8.3	30
o-Xylene	A	5.00	5.36	1.040057	1.115441		7.2	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	04/1/2023
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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East Longmeadow, MA 01028

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23C1351

CHAIN OF CUSTODY RECORD (AIR)

Company Name: EA Engineering, Science, and Technology
Address: 209 W. Jefferson St. Syracuse, NY 13202
Phone: (315) 415-7689
Project Name: ~~Taber Steel Anodizing~~ TresBon Cleaners
Project Location: ~~Niagara Falls, NY~~ Franklin Square, NY
Project Number: 16025523.0011
Project Manager: Michael Miller
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: L. Backman-Lowe

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

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

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: michaelmiller@eaest.com
Fax To #:

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	TO-15				" 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					Initial Pressure	Final Pressure	Lab Receipt Pressure		
01	130058-IA-1-0323	1253 03/06	0935 03/07	1242		IA		X				-30	-13	12.1	1618	3417
02	130058-IA-2-0323	1314 03/06	0940 03/07	1226		IA		X				-29	-14	13.7	2157	3731
03	130058-OA-1-0323	1258 03/06	0936 03/07	1238		AMB		X				-29	-12	11.5	1073	3732
04	130058-FD-1-0323	1253 03/06	0936 03/07	1243		IA		X				-28	-7	8.0	2158	3508

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: *Cat B deliverable* requested

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) L. Backman-Lowe	Date/Time: 03/08/23 1115
Received by: (signature) Ben PACE Pak	Date/Time: 3/8/23 11:18
Relinquished by: (signature) PACE	Date/Time: 3/9/23 1410
Received by: (signature)	Date/Time: 3/10/23
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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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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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 EA Engineering, Science, and Technology

Project Tres Bon Cleaners

MCP/RCP Required —

Deliverable Package Requirement CAT B

Location Franklin Square, NY

PWSID# (When Applicable) _____

Arrival Method FedEx 7715 2341 0134

Received By / Date / Time LA 3-10-23 0935

Back-Sheet By / Date / Time TPH 3-10-23 1405

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
Summa Cans	4	6L	4	24hr
Tedlar Bags				
TO-17 Tubes				
Radiello				
Pufs/ TO-11				

Accessories			
Nut/Ferrule		IC Train	
Tubing			
T-Connector		Shipping Charges	
Syringe			
Tedlar			

Can #'s							
1	1618	9		17		25	
2	2157	10		18		26	
3	1073	11		19		27	
4	2158	12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Regs #'s							
1	3417	9		17		25	
2	3731	10		18		26	
3	3732	11		19		27	
4	3508	12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Unused Media							
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	

Pufs/TO-17's							
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			

Air Sampling Media Certificate of Analysis

Date Analyzed: 1/13/2023 **Batch #:** 23CC0028

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

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

Media IDs: BC1618

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

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: CMR 3/29/23

Air Sampling Media Certificate of Analysis

Date Analyzed: 1/16/2023 **Batch #:** 23CC0029

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

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

Media IDs: BC2157, BC1073

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
0.05	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: CMR 3/29/23

Air Sampling Media Certificate of Analysis

Date Analyzed: 1/18/2023 **Batch #:** 23CC0038

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

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

Media IDs: BC2158

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

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: CMR 3/29/23

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Appendix F

Data Usability Summary Reports

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DATA VALIDATION REPORT

Tres Bon Cleaners

SDGs: L1471925

Chemical Analyses Performed by:

Pace Analytical National – Mount Juliet, TN

Prepared by

ENVIRONMENTAL DATA SERVICES, LTD.

Prepared for

EA Engineering, Science and Technology, Inc.

May 12, 2022

5 Brilliant Avenue, Pittsburgh, PA 15215
412.408.3288 I www.eds-pa.com

ENVIRONMENTAL DATA SERVICES, LTD.

DATA USABILITY SUMMARY REPORT FOR VOLATILES

PROJECT: Tres Bon Cleaners

CLIENT: EA Engineering, Science and Technology, Inc.

LABORATORY: Pace Analytical National - Mount Juliet, TN

SAMPLE DELIVERY GROUP: L1471925

SAMPLE DATES: 03/15/2022

This sample delivery group consist of the following samples:

Sample Identification	Laboratory Identification
130058-IA-1	L1471925-01
130058-IA-2	L1471925-02
130058-OA-1	L1471925-03
130058-DUP-1	L1471925-04

The samples described above were analyzed via methods USEPA TO-15 and/or USEPA TO-15 SIM to determine the concentrations of trace volatile organic analytes (VOAs) in air samples.

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15 Data Validation, HW-31, Rev. 6, June 2014 have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with “R”, rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, “All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.”

1. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this delivery group were prepared and analyzed within the holding time specified in the validation guidelines.

2. BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

Method blanks were prepared and analyzed in association with the samples in this delivery group at the specified frequency. Upon examination of method blank data, no analyte was positively identified at a concentration equal to or above the method detection limit (MDL) in any associated method blank.

Storage Blanks

No storage blanks were required for this sample delivery group (SDG).

Trip Blanks

No trip blanks were submitted in association with this SDG.

Field Blanks

No field blanks were submitted in association with this SDG.

3. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for volatiles is bromofluorobenzene (BFB).

All tunes associated with this SDG were fully compliant.

4. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 24-hour analytical sequence, denoted as a "closing" calibration verification and ascertains acceptable performance at the conclusion of the analytical sequence.

Note, no closing continuing calibration verifications were performed in association with this SDG.

Response Factor

The relative response factor (RRF) measures the instruments responses to specific chemical compounds. The RRFs for the volatile organic analysis (VOA) target compound list (TCL) must be ≥0.05 in both the initial and continuing calibrations with exception of poor response compounds, where RRFs must be ≥0.01. Additionally, the RRF in the closing continuing calibration must be ≥0.01. A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is <0.05, or <0.01 for poor response compounds, or the RRF for the closing continuing calibration is <0.01 for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibrations were found to be acceptable in all cases.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instrument's daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be <30%.

An RSD value outside initial calibration limit indicates the potential for quantitation errors. For this reason, all positive results are qualified as estimated. Severe performance failures (RSD >90%) require qualification of non-detected results as well.

The %D for continuing calibration must be <30%.

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated, and non-detects are qualified with "UJ".

All initial calibration and continuing calibration %RSD and %D values were within defined QC criteria with the following exceptions.

The %D values for the target analytes benzyl chloride and ethanol were outside of acceptance limits for two continuing calibration verifications. All samples are associated with the non-compliant continuing calibration verifications. The results reported for the impacted analytes have been qualified estimated "J" or "UJ" as appropriate on this basis.

5. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatography/mass spectrometry (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than +/- 20 seconds from the associated continuing calibration standard. The area count must be within -60% to +140% range of the associated standard. If area count is >140% non-detected results are not qualified while positive results are qualified "J", estimated. However, when an observed area count is <60%, positive results are qualified "J" estimated while non-detected results are rejected.

The reported analysis for all samples, lab control sample, and associated method blanks had internal standard areas and retention times within QC criteria in all cases.

6. COMPOUND IDENTIFICATION

Volatile

The TCL compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ±0.06 RRT units of the standard compound, and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All identification criteria were met. Therefore, no analytes were qualified for compound identification.

Volatile Tentatively Identified Compounds

Tentatively Identified Compounds (TICs) were reported by the laboratory and reviewed for quality assurance. For all TIC results where there is presumptive evidence of a match, being greater than or equal to an 85% match, the results are qualified "NJ", tentatively identified. If the non-target compound is reported as an unknown, the result is qualified "J", estimated. Likewise, if it is determined that the identification of a TIC is unacceptable, the tentative identification of the compound is changed to "unknown" and the result is qualified "J", estimated.

Tentatively identified compounds were not reported by the laboratory and were not evaluated for this program.

7. LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

All LCS/Laboratory Control Sample Duplicate (LCSD) precision and accuracy indicators were favorable.

8. REPORTING

All samples were analyzed at dilutions to bring the concentration of target analytes within the calibrated range; the reported compound quantitation limits were adjusted upwards accordingly. No other dilution, re-extraction, or reanalysis was performed on the samples associated with this SDG.

9. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

None.

10. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 130058-IA-1 and 130058-DUP-1 were submitted as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated with the exception of tert-butyl alcohol. Results reported for the impacted analyte in the field duplicate samples have been qualified estimated "J" or "UJ" as appropriate on this basis.

11. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Clean canisters were used to transport air samples in this SDG. All criteria were met to ensure containers were appropriate for sample storage.

Overall, the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Volatiles		**Major**	**Minor**
Holding Time	x		
Method Blanks	x		
Storage Blanks	NA		
Trip Blanks	NA		
Field Blanks	NA		
Mass Spectrometer Tuning	x		
Calibration Response Factor	x		
Calibration Percent Relative Standard Deviation and Percent Difference			x
Internal Standards	x		
Compound Identification - Volatile	x		
Tentatively Identified Compounds - Volatile	NA		
Laboratory Control Sample	x		
Reporting	x		
Other Quality Control Data out of Specification	x		
Field Duplicate			x

Major= Major data quality issue identified resulting in rejection of data.
Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.
NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.