77-57 VLEIGH PLACE

QUEENS COUNTY

FLUSHING, NEW YORK

PERIODIC REVIEW REPORT

NYSDEC Site Number: C241168

Prepared for:

VP Capital Holdings, LLC

62 West 47th Street, Suite 603

New York, New York 10036

Prepared by:

EnviroTrac Engineering PE PC

5 Old Dock Road, Yaphank, NY 11980

(631) 924-3001

OCTOBER 2022

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C241168**

Site Name 77-57 Vleigh Place

Site Address: 77-39/63 Vleigh Place Zip Code: 11367
City/Town: Flushing
County: Queens
Site Acreage: 0.669

Reporting Period: April 24, 2021 to April 24, 2022

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. 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. Is the site currently undergoing development?	X	☐

Box 2

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

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

9/15/22
Date

SITE NO. C241168 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
(portion of) 30-6630-1	VP Capital Holdings LLC	Ground Water Use Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan
		Landuse Restriction

Institutional Controls:

A series of ICs is required by the Decision Document to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and, (3) limit the use and development of the site to Restricted Residential uses only. Adherence to these ICs on the site is required by the Environmental Easement and will be implemented under this SMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

These ICs are:
- The property may be used for restricted residential use;
- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Queens Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on Figure 14, as well as nearby buildings in the vicinity of the Site, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited;

Box 4

Description of Engineering Controls

Parcel	Engineering Control
(portion of) 30-6630-1	Groundwater Treatment System Vapor Mitigation Cover System Air Sparging/Soil Vapor Extraction

Engineering Controls:

Cover:
Exposure to remaining contamination at the Site is prevented by a cover system placed over the site. In the absence of a finalized building foundation design plan, an interim composite cover comprised of a minimum of 6 to 10 inches of ¾-inch bluestone underlain by a minimum of 24 inches of clean soil fill material was installed at the bottom of excavation. This cover system is designed to be capped in the future by a 6-inch thick mat building slab.

Vapor Mitigation:
Any on-site buildings will be required to have a sub-slab depressurization system, or similarly engineered systems, to mitigate the migration of contaminated soil vapor into on-site buildings.

Soil Vapor Extraction:
Soil vapor extraction (SVE) implemented to remove volatile organic compounds (VOCs) from the subsurface. VOCs will be physically removed from the soil by applying a vacuum to wells that have been installed into the vadose zone (the area below the ground but above the water table). The vacuum draws air through the soil matrix which carries the VOCs from the soil to the SVE well. The air extracted from the SVE wells is then treated as necessary prior to being discharged to the atmosphere.

Two off-site SVE wells are installed into the vadose zone to a depth of approximately 15 and 25 feet below ground surface. The air containing VOCs extracted from the SVE wells are treated by passing the air stream through activated carbon which removes the VOCs from the air prior to it being discharged to the atmosphere.

A final SVE system will be commissioned in concert with construction of the eventual planned on-site building and is expected to consist of a triangular shaped loop of horizontal interconnected perforated piping installed within a layer of bluestone beneath the building foundation. Similarly, effluent extracted from the horizontal extraction wells will be treated by passing it through two granulated active carbon drums prior to discharge to the atmosphere.

Off-Site Sub-Slab Depressurization System:
To mitigate the soil vapor intrusion impact at four buildings located at the Regency Gardens Apartment complex identified as 141- 05, 141-12, 141-18 & 141-24 78th Avenue Corp.The designed SSDS for this property will consist of two suction pits installed beneath the basement slab of each of the four target buildings. Each suction pit will consist of a sub-slab cavity of approximately 2 feet by 2 feet in area by 2 feet in depth. A 4" diameter open-ended PVC pipe will be placed in the pit and held in place with a clamp. The pit will then be filled with crushed stone to prevent displacement of soil particles under vacuum and resurfaced. Each 2 suction pits per building will be manifolded into one riser and connected in the exterior of to a rooftop mounted suction fan with 4-inch diameter cast iron pipe.

Groundwater Treatment System:
Remediation of dissolved phase VOCs in groundwater will be accomplished through a chemical oxidant and bioremediation injection program. Remedial injections were mainly concentrated around the source area of PCE in the southeastern portion of the Site. Based on sampling results from continued groundwater monitoring, additional groundwater treatment via in-situ chemical oxidation or bioremediation may be necessary.

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 Engineering Control certification;

   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. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The 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) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Jerry Wall — 9/15/22

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. C241168

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 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 Tracy Wall (print name) at EnviroTrac Ltd. 5 Old Dock Rd, Yaphank, NY 11980 (print business address)

am certifying as ~~for the~~ Owner VP Capital Holdings (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Tracy Wall
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

9/15/22
Date

EC CERTIFICATIONS

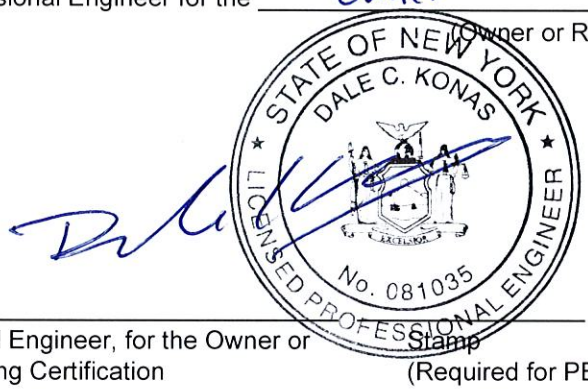
Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 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 Dale Konas at EnviroTrac Engineering PE PC,
print name print business address 5 Old Dock Rd. Yaphank, NY 11980

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)



Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

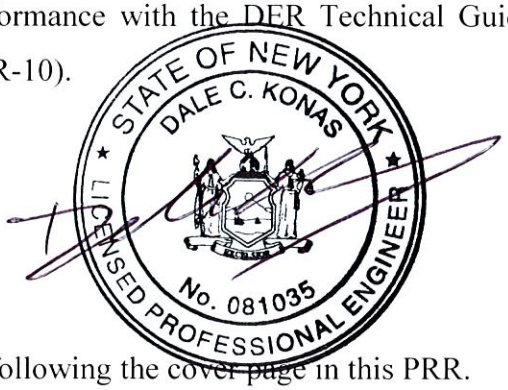
Stamp (Required for PE)

9/15/22
Date

and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Dale C. Konas P.E.

9/15/22 DATE



IC/EC Certification forms are provided following the cover page in this PRR.

PERIODIC REVIEW REPORT

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EnviroTrac

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List of Acronyms

AS	Air Sparging
ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAMP	Community Air Monitoring Plan
C/D	Construction and Demolition
CFR	Code of Federal Regulation
CLP	Contract Laboratory Program
COC	Certificate of Completion
CO2	Carbon Dioxide
CP	Commissioner Policy
DER	Division of Environmental Remediation
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Approval Program
ERP	Environmental Restoration Program
EWP	Excavation Work Plan
GHG	Green House Gas
GWE&T	Groundwater Extraction and Treatment
HASP	Health and Safety Plan
IC	Institutional Control
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules, and Regulations
O&M	Operation and Maintenance
OM&M	Operation, Maintenance and Monitoring
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PID	Photoionization Detector
PRP	Potentially Responsible Party
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision

List of Acronyms *(continued)*

RP	Remedial Party
RSO	Remedial System Optimization
SAC	State Assistance Contract
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SOP	Standard Operating Procedures
SOW	Statement of Work
SPDES	State Pollutant Discharge Elimination System
SSD	Sub-slab Depressurization
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leachate Procedure
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program

1.0 EXECUTIVE SUMMARY

1.1 Site Summary

The property at 77-57 Vleigh Place (also known as 77-39/63 Vleigh Place), Flushing, NY 11367 (the Site) is currently in the New York State Brownfield Cleanup Program (BCP), Site No. C241168, which is administered by the New York State Department of Environmental Conservation (NYSDEC). This report is the Periodic Review Report (PRR) that was prepared in accordance with the Site Management Plan (SMP) for the Site. The PRR covers the period from June 2021 to August 2022.

Aldrich Management Co., LLC entered into a Brownfield Cleanup Agreement (BCA) as a Participant, on April 6, 2015, with the NYSDEC to remediate the Site. VP Capital Holdings, LLC was then added to BCA as a Participant following a purchase transaction of the Site from Aldrich Management Co., LLC on July 2, 2018, and pursuant to an amended BCA on July 10, 2018. A Certificate of Completion (COC) was provided by the NYSDEC for the Site on December 24, 2019.

The subsurface at the Site has been impacted with tetrachloroethylene (PCE), its breakdown products (cis-1,2-dichloroethylene and trichloroethylene), and chloroform, associated with a former dry cleaner that occupied the Site. The most impacted area at the Site included the southeastern corner where elevated concentrations of PCE were detected in soil and groundwater. Remedial work for the Site includes operation and maintenance of the original soil vapor extraction (SVE) system, the removal of all soil from the Site to approximately 25 feet below grade, operation and maintenance of the current interim SVE system, and four (4) rounds of insitu chemical oxidation (ISCO) at the southeast corner of the Site, which included the use of PersulfOx, 3_D Microemulsion Factory Emulsified (3DME) mixed with additives identified as Bio-Dechlor Innoculum Plus (BDI Plus) and Chemical Reducing Solution (CRS), and sodium permanganate.

After completion of the remedial work, some contamination was left at this Site, which is hereafter referred to as "remaining contamination." Institutional and Engineering Controls (ICs and ECs) have been incorporated into the Site remedy to control exposure to remaining contamination to ensure the protection of public health and the environment. An Environmental Easement granted to the NYSDEC and recorded with the Office of the City Registrar of the City of New York (under recording number 2019000306865), requires compliance with the SMP and all ECs and ICs placed on the Site.

The following provides a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, maintenance, and reporting activities required by the SMP:

Institutional Controls:	1. The property may be used for restricted residential use consistent with the recorded Environmental Easement; 2. All ECs must be operated and maintained as specified in this SMP and required by the Environmental Easement recorded for the Site; 3. All ECs must be inspected at a frequency and in a manner defined in the SMP and required by the Environmental Easement; 4. The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Queens Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department; 5. Groundwater and other environmental or public health monitoring must be performed as defined in the SMP, consistent with the Environmental Easement; 6. Data and information pertinent to Site management must be reported at a frequency and in a manner as defined in the SMP and required by the Environmental Easement; 7. All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP; 8. Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP; 9. Operation, maintenance, monitoring, inspection, and reported of any mechanical or physical component of the remedy shall be performed as defined in the SMP; 10. Access to the Site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified in the Environmental Easement; 11. The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries, as well as any nearby off-Site buildings, and any potential impacts that are identified must be monitored or mitigated; 12. Vegetable gardens and farming on the Site are prohibited consistent with the Environmental Easement in place on the property.

Engineering Controls:	1. Cover system 2. Soil Vapor Extraction (SVE) system 3. Off-Site Sub-slab Depressurization (SSD) system at Regency Gardens 4. Additional In-situ Chemical Oxidation (ISCO) and Bioremediation Treatments as required by the NYSDEC.

Inspections:	Frequency
1. Cover inspection	Annually
Monitoring/Maintenance:	
SVE System	
1. Blower on-off function	Monthly
2. Effluent Parameters	Monthly
3. Alarm sound and on/of light	Monthly
4. Flow, PID, Vacuum pressure at SVE well heads	Monthly
5. Vacuum pressure at Vacuum Monitoring Points	Monthly
6. Weather conditions	Monthly
7. GAC drum testing	Semi-Annually
8. Soil vapor sampling from off-Site soil vapor points	Annually
9. SVE Blower	As needed
Monitoring/Maintenance:	
Off-Site SSD system at Regency Gardens	
1. Fans on/off function	Annually
2. Alarm sound and on/off light	Annually
3. Vacuum pressure at the Vacuum Monitoring Points	Annually
4. Indoor air/outdoor air sampling	30 days after startup and Annually
5. Soil vapor evaluations in adjacent structures	30 days after startup

6. SSD system fans	As needed
Monitoring:	
ISCO and Bioremediation Treatment	
1. All monitoring well sampling	Quarterly
2. Select monitoring well sampling	60 days after ISCO injection
Reporting:	
1. Groundwater Data	Quarterly
2. Soil Vapor Data	Annually
3. SVE System Monitoring	Monthly
4. Cover System and SSD system inspections	Annually
5. Periodic Review Report	Annually

1.2 Effectiveness of the Remedial Program

Monthly Site visits were conducted for the Interim SVE system (June 2021 to August 2022), groundwater monitoring was conducted on a quarterly basis (for this reporting period sampling occurred on August 2021, November 2021, February 2022, May 2022, and August 2022), and the four (4) sub-slab depressurization (SSD) systems at Regency Gardens Apartment complex and Site cover are inspected annually. The annual Site inspection was conducted on August 10, 2022. The ECs include the operation and maintenance (O&M) of an Interim SVE system and the maintenance of the Site cover system. Not included as an EC for the Site but included as part of the remedy to address off-Site contamination, O&M is conducted for four (4) SSD systems, off-Site at Regency Gardens to the south. The SSD systems have been operating since December 2020 and the Interim SVE system has been operating since January 2020. Beginning December 2020, only SVE well EW-6, located beneath the sidewalk, in front of the adjoining property to the east, has been operating, and the other two (2) SVE wells, EW-4 and EW-5, have been turned off. Turning off vacuum applied to EW-4 and EW-5 has increased the vacuum at EW-6 and improved the soil gas quality at off-Site wells SV-KG-1 and SV-9. Monitoring results for the SVE system and SSD systems showed that they were operating properly with no issues. Inspection of the Site cover indicated no issues, and during each monthly Site visit. The Site was recently redeveloped with a mixed commercial and residential-use building that is currently under construction. The building will be four (4) stories when completed with a sub-cellar utilized as a parking garage and a cellar utilized for commercial purposes. The first floor will also be utilized for commercial purposes and the remaining upper floors will be utilized as residential apartments. Groundwater monitoring and soil gas sampling results indicate a reduction in on-Site and off-Site remaining groundwater and soil gas contamination since the removal of soil across the Site from grade to approximately 25 feet below grade during April and September 2019, the startup of the Interim SVE system in January 2020 and addition of SVE well EW-6 to address soil vapors in the area of off-Site soil gas wells

SV-KG-1 and SV-9, and implementation of ISCO groundwater injections in March 2018, August 2019, December 2019, and March 2021.

1.3 Compliance

No areas of non-compliance were noted for the Site. Based on the above inspections, monitoring, and sampling results, the Site ICs and ECs are in compliance with the SMP for the Site.

1.4 Recommendations

Since groundwater and soil gas concentrations for PCE have significantly decreased since (1) the removal of soil across the Site from grade to approximately 25 feet below grade, (2) the startup of the Interim SVE system, and (3) implementation of ISCO groundwater injections, EnviroTrac recommends that monthly O&M for the Interim SVE system, quarterly groundwater monitoring, annual soil gas sampling, and annual Site cover inspections and off-Site SSD system inspections at Regency Gardens continue as per the Site's SMP. EnviroTrac recently recommended that the annual indoor air sampling events during the certification of the SSD systems at Regency Gardens discontinue since two (2) consecutive years of indoor air sampling results for the Regency Gardens basements showed that none of the NYSDOH Air Guideline Values were exceeded. The NYSDEC and NYSDOH approved this request on September 8, 2022. EnviroTrac also recently recommended that four (4) groundwater monitoring wells (MW-1, MW-2, MW-6, and MW-13) be removed from the quarterly groundwater sampling list since total VOCs has been consistently below 50 micrograms per liter (ug/L) since October 2020 for MW-1 and MW-2, since August 2021 for MW-6, and since October 2019 for MW-13. The NYSDEC and the NYSDOH approved this request only for MW-1, MW-2, and MW-13 on September 8, 2022.

As per the Site's SMP, a Final SVE system was proposed to be installed at the southeast corner of the proposed Site building and the Interim SVE system would then be decommissioned. However, EnviroTrac was made aware of changes to the proposed

building foundation elevation, making it deeper. These changes will inherently impact the proper operation of the Final SVE system at the southeast corner. The new foundation elevation is approximately one (1) foot above the Site-specific water table at the southeast corner of the Site. Installation of horizontal slotted PVC piping connected to an SVE blower would draw groundwater into the PVC piping and system. Water drawn into the piping and SVE blower would counteract the purpose of the SVE system and damage the SVE blower and other system parts. Therefore, to address potential vapors at the Site, an SSD system was installed along the southern portion of the Site rather than an SVE system. A Pilot Test was recently conducted for the SSD system, which showed that acceptable vacuum levels could be achieved. A Pilot Test Report will be provided to the NYSDEC and the NYSDOH for review. To address additional vapor concerns a vapor barrier was installed across the Site beneath the building three (3) foot think foundation slab. Since elevated PCE soil gas vapors remain at off-Site soil gas well SV-KG-1, EnviroTrac recommends the continued operation of the Interim SVE system until soil gas concentrations at SV-KG-1 reach acceptable levels.

EnviroTrac will continue to conduct monthly O&M Interim SVE system inspections, quarterly groundwater monitoring events, annual SSD system certifications at Regency Gardens, annual Site cover inspections, and annual soil gas sampling events. Once the Final SSD system is operating and the Interim SVE system is discontinued, inspections for said system will be reduced to an annual frequency. The reporting frequency will not change and will continue as the following: (1) quarterly groundwater and Interim SVE system monitoring reports; and (2) annual PRRs.

2.0 SITE OVERVIEW

2.1 Site Location and Description

The Site is located in the County of Queens, New York and is identified as Block 6630 and Lot 1 on the Queens Tax Map. The Site is situated on an approximately 0.669-acre area bounded by 77th Road to the north and then property owned by North Queen Community High School, by 78th Avenue to the south and then Regency Gardens apartment complex, by Vleigh Place to the west and then Stepping Stone Day School, and by Kew Gardens apartment complex to the east. The owner of the Site parcel is VP Capital Holdings, LLC.

2.2 Physical Setting

2.2.1 Land Use

The Site consists of a partially constructed mixed-use (commercial/residential) building located at 141-15 78th Avenue in Flushing, New York. Former addresses associated with the Site include 77-39 – 77-63 Vleigh Place. The Site is bounded by 77th Road to the north, 78th Avenue to the south, Vleigh Place to the west, and Kew Gardens apartment complex to the east. The Site currently consists of a partially constructed mixed-use (commercial/residential) building with a sub-cellar parking garage and cellar level commercial space. The first floor will also be utilized for commercial use and the remaining upper floors will be residential apartments. A vapor barrier and a three (3) foot thick slab have been installed at the Site. The bottom of the building foundation is located approximately one (1) foot above the top of the water table.

The Site was formerly developed with a single-story commercial building with a basement that was present along the western portion of the Site, facing Vleigh Place. Paragon Cleaners formerly occupied the unit at 77-57 Vleigh Place. The Site was previously owned by Aldrich Management Co., LLC from June 2007 until July 2018 when it was purchased by VP Capital Holdings, LLC.

It is assumed that sanitary wastes and wastewater from the former commercial units discharged to the municipal sewerage system piping. The new building is also connected to the municipal sewer system. The Site is zoned for restricted-residential and commercial purposes.

The properties adjoining to the Site and in the neighborhood surrounding the Site primarily include commercial and residential properties. The properties immediately south and east of the Site include apartment complexes. The properties immediately to the north and west of the Site include schools.

2.3 Investigation and Remedial History

The subsurface at the Site has been impacted with PCE due to the historical use of the former unit at 77-57 Vleigh Place as a dry cleaner. Subsurface investigations and remedial activities were conducted at the Site from November 2015 to October 2016. The remedial investigation activities included several sampling events for soil, soil vapor, ambient air, and groundwater. Identified Areas of Concern (AOCs) included (1) the presence of chlorinated solvents in shallow and deep soil; (2) the presence of dissolved chlorinated solvents in groundwater on and off-Site; and (3) the presence of chlorinated solvents in soil vapor at the Site and off-Site. Remedial activities were implemented beginning in March 2018 to January 2020 and included (1) three (3) ISCO groundwater injections; (2) installation and operation of a SVE system at the southeast corner of the Site with three (3) wells: EW-1, EW-2, and EW-3; (3) removal of the soil across the Site to a depth of approximately 25 feet below grade with end point sample results that showed no detections of contaminants of concern (COC) above NYSDEC Soil Cleanup Objectives (SCOs) during April and September 2019, and (4) installation and operation of an Interim SVE system within the sidewalk, near the southeast corner of the Site, which consisted of two (2) SVE wells: EW-4 and EW-5, which began operating in January 2020. To address off-Site soil gas concentrations at the adjoining property to the east, within the garage area, SVE well EW-6 was added to the Interim SVE system and is located beneath the sidewalk, in front of the adjoining property to the east.

Based on the previous remedial investigations, the most contaminated areas of soil were removed from the Site along with all soil across the Site to a depth of approximately 25 feet below grade. Therefore, the source area at the southeast corner was properly removed from the Site and disposed off-Site.

After completion of the remedial work, some contamination was left at this Site, which included impacted groundwater and soil vapor, hereafter referred to as "remaining contamination." A Track 4 cleanup was implemented at the Site. Institutional and Engineering Controls (ICs and ECs) have been incorporated into the Site remedy to control exposure to remaining contamination to ensure the protection of public health and the environment. An Environmental Easement granted to the NYSDEC, and recorded with the Queens County Clerk, requires compliance with the SMP and all ECs and ICs placed on the Site.

The ECs include an Interim SVE system and the Site cover (demarcation layer, approximately 24" clean soil backfill, and approximately 6" of blue stone). Four (4) SSD systems were also installed within four (4) buildings to the south at Regency Gardens to mitigate contaminated soil vapors present beneath these buildings adjoining to the south.

The original SVE system was installed and began operating at the southeast corner of the Site prior to soil removal in April 2019. Between April 2019 and January 2020, no systems were operating at the Site. The Interim SVE system was installed at the Site and began operating in January 2020. The previous purpose of the Interim SVE system was to reduce the levels of remaining soil vapor contamination over time at the southeast corner of the Site and at the adjoining property in the area of SV-KG-1. The client has since moved forward with the construction of the new building. A vapor barrier and a three (3) foot thick slab have been installed at the Site. In order to improve the soil gas conditions at SV-KG-1, all vacuum has been applied to SVE well EW-6 since October 2020, which was approved by the NYSDEC. Monitoring of the Interim SVE system is

conducted on a monthly basis and soil gas sampling is conducted at wells surrounding the Site on an annual basis.

The Site cover consists of a demarcation layer, approximately 24" clean soil backfill, and approximately 6" of blue stone. Maintaining the Site cover in good condition reduces exposure to vapors off-gassing from remaining soil vapor and groundwater contamination within and surrounding the Site. Recently construction on the new building was started, which included the placement of a vapor barrier on top of the clean backfill followed by the placement of a three (3) foot thick mat slab.

On March 10, 2021, EnviroTrac implemented an ISCO groundwater injection event around groundwater monitoring well MW-11. Concentrations of PCE at MW-11 overtime have decreased significantly; however, the sampling event in January 2021 had indicated that PCE remained elevated at MW-11 with a concentration of 500 micrograms per liter (ug/L). Due to the remaining elevated concentration of PCE at MW-11, the ISCO groundwater injection event was conducted. The ISCO groundwater injection event included advancing two (2) borings to the east and west of groundwater monitoring well MW-11 to a maximum depth of 45 feet below grade. A total of 48 gallons of Rem Ox L 40% sodium permanganate was reduced to a 10% solution mixed with water to produce approximately 246 gallons of the 10% solution. A total of 123 gallons was injected into each boring from 45 feet below grade to approximately 34 feet below grade. No indications of the sodium permanganate were observed seeping through the open pit wall. No daylighting events occurred during the injections also. Follow-up 60-day groundwater monitoring and the quarterly groundwater monitoring event occurred on May 10, 2021, which showed a significant reduction to 200 ug/L. The PCE concentration in MW-11 has varied since May 2021, but the most recent sampling event in August 2022 showed a concentration of PCE at 170 in MW-11. EnviroTrac recommends continuing to monitor natural attenuation of PCE at MW-11. Therefore, no additional ISCO injection events appear to be warranted at the Site at this time.

3.0 REMEDIAL PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

3.1 Interim SVE System

The performance, effectiveness, and protectiveness of the Interim SVE system is evaluated by conducting monthly O&M visits, collecting monthly vacuum readings at Pressure Test (PT) points, collecting SVE influent and effluent air samples, and collecting annual soil gas samples from soil gas wells surrounding the Site and adjoining property to the east. The July 2021 monthly visit was missed. Figure 2A shows the location of the Interim SVE system, PTs, and soil gas wells. Table 1 summarizes the Interim SVE influent and effluent air samples. The total VOC effluent discharge in pounds per hour were calculated and are summarized in Table 2. The results show that the Interim SVE effluent air discharge total VOC concentrations are below the NYSDEC air discharge standard of 0.5 pounds per hour. The Interim SVE O&M Logs are provided in Appendix A and include the PT vacuum readings. Table 3 summarizes soil gas well sample results from November 2014 to January 2022. The laboratory reports are provided in Appendix B. The Annual Compliance Inspection Form for the Interim SVE System is provided in Appendix C.

EnviroTrac recommends that the carbon drum for the SVE system be replaced as breakthrough has been noted for the most recent SVE Influent and Effluent Air Sampling.

3.2 Site Cover System

The Site Cover system consists of a demarcation layer, approximately 24” clean soil backfill, and approximately 6” of blue stone that were installed at the Site following the removal of the soil across the Site down to approximately 25 feet below grade. The construction of the new building at the Site has begun, which when completed, will be a four (4) story mixed commercial and residential-use building with a cellar and sub-cellar. Prior to the start of construction, a gravel layer replaced the blue stone on the southern portion of the Site and a vapor barrier was placed on top of the blue stone on the northern

portion and the gravel on the southern portion. The vapor barrier also continued up the walls of the subgrade levels. A three (3) foot thick building slab was placed on top of the vapor barrier. EnviroTrac observed and inspected the placement of the gravel, vapor barrier, and three (3) foot thick slab. Currently, the new building sub-cellar, cellar, first floor, and second floor have been constructed. The slab and portions of the new building were observed in good condition. During the annual inspection, the Site was observed to be an active construction site; however, no permeant occupants reside within the building. Figure 2B shows the Site Cover.

3.3 Off-Site Regency Gardens SSD Systems

The performance, effectiveness, and protectiveness of the four (4) Regency Gardens SSD systems were evaluated by conducting an annual certification, collection of annual indoor air samples, and collecting annual vacuum readings from beneath the basement slabs at pressure test points (PTPs). The annual certification of the Regency Gardens SSD systems is not due until December 2022. However, vacuum readings and system component inspections were conducted along with the annual Site inspection and Interim SVE system certification. No additional indoor air samples were collected during this inspection. Indoor air samples were last collected in December 2021 and are summarized in Table 4. A total of eight (8) PTPs were installed near the corners of the basement slabs in the four (4) apartment buildings following the installation of the SSD systems. The PTPs are utilized to determine if an optimal amount of vacuum is being applied to the sub-slab by the SSD system blowers (fans). Figure 2C shows the As Built SSDS Layout at Regency Gardens including the SSD system suction pits and PTPs. Table 5 summarizes the PTP readings. Most of the vacuum measurements at the PTPs collected on August 10, 2022, were above the acceptable level of vacuum, at 0.01 inches of water, with the exception of PTP-5 and PTP-6. EnviroTrac monitored these PTP locations again on October 25, 2022, and the vacuums were shown to be within the acceptable level. The change in vacuum was likely a technical error in the field or instrument. The SSD systems are performing properly, appeared in good condition with no signs of damage,

and therefore, are protecting human health and the environment. The Site Inspection Management Form for the Regency Gardens SSD systems is provided in Appendix D.

3.4 Groundwater Monitoring Well Results

The performance, effectiveness, and protectiveness of the previous ISCO groundwater injection events as well as natural attenuation of contaminants in groundwater are evaluated by sampling the groundwater over time and tracking the changes. Groundwater monitoring events for this reporting period occurred in August 2021, November 2021, February 2022, May 2022, and August 2022. Since the startup of the original SVE system, removal of soil across the Site to a depth of 25 feet below grade, startup of the Interim SVE system, and four (4) previous ISCO groundwater injections, concentrations for the on and off-Site groundwater monitoring wells have significantly decreased by an order of magnitude. Figures 3A, 3B, 3C, 3D, and 3E show the monitoring well locations and groundwater flow contour lines. Table 6 summarizes the depth to water and water table elevation measurements from March 2018 to August 2022. Table 7 summarizes a water table elevation study conducted in January 2021 for wells MW-5D and MW-9. Table 8 summarizes the August 2022 groundwater monitoring event. Table 9 summarizes the chlorinated volatile organic compound (CVOC) (chloroform, cis-1,2-dichloroethylene, PCE, and TCE) concentrations detected in the wells from March 2018 to August 2022. The laboratory report for the August 2022 groundwater monitoring event is provided in Appendix B. The highest detected groundwater monitoring well sample concentration for PCE collected on August 10, 2022, was 260 ug/L in MW-3S. This is a similar concentration that was detected in May 2022, however, showed an increase from the prior sampling event in February 2022. The next highest detected groundwater monitoring well sample concentration for PCE collected on August 10, 2022, was 170 ug/L at MW-11. This is a similar concentration that was detected in May 2022, however showed a decrease from the prior sampling event in February 2022. The remaining detected PCE concentrations in the wells range from 0.53 ug/L at MW-13 to 78 ug/L at MW-12. Since the startup of the original SVE system, removal of soil across the Site from grade to approximately 25 feet below grade,

startup of the Interim SVE system, and a total of four (4) ISCO groundwater injection events, PCE concentrations have significantly decreased in all on and off-Site wells. Other CVOCs detected in groundwater overtime include chloroform, cis-1,2-dichloroethylene (breakdown product of PCE), and TCE (breakdown product of PCE). The highest detected groundwater monitoring well sample concentration for TCE collected on August 10, 2022, was 4.3 ug/L in MW-1, which is below its NYSDEC Groundwater Standard. All other concentrations of TCE detected in the groundwater monitoring wells were either non-detect or at a concentration well below its NYSDEC Groundwater Standard. The highest detected groundwater monitoring well sample concentration for chloroform collected on August 10, 2022, was 28 ug/L in MW-7. The remaining detected chloroform concentrations in the wells ranged from non-detect in three (3) wells to 16 ug/L at MW-3D. The highest detected groundwater monitoring well sample concentration for cis-1,2-dichloroethylene collected on August 10, 2022, was 1.5 ug/L in MW-11 which is below its NYSDEC Groundwater Standard. The remaining detected cis-1,2-dichloroethylene concentrations in the wells ranged from non-detect in seven (7) wells to 0.72 ug/L in MW-12. TCE, chloroform, and cis-1,2-dichloroethylene have not shown to significantly impact the Site during previous monitoring events but have shown to decrease overall in concentration overt time.

The NYSDEC is recommending that additional groundwater injections be conducted around wells that show elevated concentrations of PCE. It has been agreed that following the next groundwater monitoring event (November 2022) the results will be evaluated to determine if another groundwater injection is necessary.

4.0 INSTITUTIONAL AND ENGINEERING CONTROL PLAN COMPLIANCE REPORT

4.1 IC/EC Compliance

Since remaining contamination exists at the Site, ICs and ECs are required to protect human health and the environment. IC compliance is conducted on an annual basis by performing a Site inspection to determine that activities conducted at the Site are not in violation with the Environmental Easement. EC compliance is conducted on a monthly, quarterly, and annual basis for the Interim SVE system (monthly), groundwater monitoring (quarterly), SSD systems at Regency Gardens (annually), and Site cover (annually).

4.1.1 Institutional Controls

Adherence to the ICs on the Site is required by the Environmental Easement. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The IC boundaries are shown on Figure 4. These ICs:

- The property may be used for restricted residential use consistent with the recorded Environmental Easement;
- All ECs must be operated and maintained as specified in this SMP and required by the Environmental Easement recorded for the Site;
- All ECs must be inspected at a frequency and in a manner defined in the SMP and required by the Environmental Easement;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Queens Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP, consistent with the Environmental Easement;

- Data and information pertinent to Site management must be reported at a frequency and in a manner as defined in the SMP and required by the Environmental Easement;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Operation, maintenance, monitoring, inspection, and reported of any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- Access to the Site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified in the Environmental Easement;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries, as well as any nearby off-Site buildings, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the Site are prohibited consistent with the Environmental Easement in place on the property.
- The Environmental Easement allows for Restricted Residential use. A new building is currently being constructed at the Site and will be used for mixed commercial and residential-uses. No permanent occupants currently reside at the Site. Therefore, the adherence to the Environmental Easement was achieved.

4.1.2 Engineering Controls

4.1.2.1 Cover

The Site cover inspection was conducted on August 10, 2022. A new building is currently being constructed at the Site and will be used for mixed commercial and residential-uses. No permanent occupants currently reside at the Site. Prior to the start of construction a vapor barrier and three (3) foot thick slab were installed on top of the approximately 24" clean soil cover, demarcation layer, and blue stone/gravel layer. The

vapor barrier also continued up the subgrade walls. Therefore, the adherence to the Environmental Easement was achieved. The cover system remains in good condition; therefore, it is protecting human health and the environment.

4.1.2.2 Interim SVE System

Interim SVE O&M visits occurred on a monthly basis. The July 2021 monthly visit was missed. Figure 2A shows the Interim SVE system. An SVE pipe was damaged during construction of the building on June 27, 2022. The SVE system was temporarily shut down until the pipe could be replaced. EnviroTrac replaced the pipe on July 5, 2022. No other SVE issues or concerns were noted during this reporting period. Currently, only SVE well EW-6 is operating while SVE wells EW-4 and EW-5 are shutoff. This is so all vacuum from the blower is applied to EW-6, which has been shown to address the vapors in the vicinity of SV-KG-1. The SVE influent and effluent air samples were collected on August 10, 2022. Table 1 summarizes the Interim SVE influent and effluent air samples. The total VOC effluent discharge in pounds per hour were calculated and are summarized in Table 2. The results show that the Interim SVE effluent air discharge total VOC concentrations are below the NYSDEC air discharge standard of 0.5 pounds per hour. The Interim SVE O&M Logs are provided in Appendix A and include the PT vacuum readings. Table 3 summarizes soil gas well sample results from November 2014 to January 2022. Figure 1 shows the soil gas well locations. The laboratory reports are provided in Appendix B. The Annual Compliance Inspection Form for the Interim SVE System is provided in Appendix C. The Interim SVE system is performing properly, therefore, it is protecting human health and the environment. However, EnviroTrac recommends that the carbon drum for the SVE system be replaced as breakthrough has been noted for the most recent SVE Influent and Effluent Air Sampling.

4.1.2.3 SSD Systems at Regency Gardens

An annual certification and collection of vacuum readings at the PTPs from beneath the basement slabs of the four (4) buildings at Regency Gardens were conducted on August 10, 2022. Figure 2C shows the As Built SSDS Layout for Regency Gardens. No issues

were reported for the SSD systems, including the blowers (fans), piping, and gauges. The annual certification of the Regency Gardens SSD systems is not due until December 2022. However, vacuum readings and system component inspections were conducted along with the annual Site inspection and Interim SVE system certification. No additional indoor air samples were collected during this inspection. Indoor air samples were last collected in December 2021 and are summarized in Table 4. On September 8, 2022, the NYSDEC and NYSDOH approved the request to discontinue future annual indoor air sampling at Regency Gardens. A total of eight (8) PTPs were installed near the corners of the basement slabs in the four (4) apartment buildings following the installation of the SSD systems. The PTPs are utilized to determine if an optimal amount of vacuum is being applied to the sub-slab by the SSD system blowers (fans). Figure 2C shows the As Built SSDS Layout at Regency Gardens including the SSD system suction pits and PTPs. Table 5 summarizes the PTP readings. Most of the vacuum measurements at the PTPs collected on August 10, 2022, were above the acceptable level of vacuum, at 0.01 inches of water, with the exception of PTP-5 and PTP-6. EnviroTrac monitored these PTP locations again on October 25, 2022, and the vacuums were shown to be within the acceptable level. The change in vacuum was likely a technical error in the field or instrument. The Site Inspection Management Form for the Regency Gardens SSD systems is provided in Appendix D.

4.1.2.4 Groundwater Monitoring Results

The performance, effectiveness, and protectiveness of the previous ISCO groundwater injection events as well as natural attenuation of contaminants in groundwater are evaluated by sampling the groundwater over time and tracking the changes. Groundwater monitoring events for this reporting period occurred in August 2021, November 2021, February 2022, May 2022, and August 2022. Since the startup of the original SVE system, removal of soil across the Site to a depth of 25 feet below grade, startup of the Interim SVE system, and four (4) prior ISCO groundwater injections, concentrations for the on and off-Site groundwater monitoring wells have significantly

decreased by an order of magnitude. Figures 3A, 3B, 3C, 3D, and 3E show the monitoring well locations and groundwater flow contour lines. Table 6 summarizes the depth to water and water table elevation measurements from March 2018 to August 2022. Table 7 summarizes a water table elevation study conducted in January 2021 for wells MW-5D and MW-9. Table 8 summarizes the August 2022 groundwater monitoring event. Table 9 summarizes the chlorinated volatile organic compound (CVOC) (chloroform, cis-1,2-dichloroethylene, PCE, and TCE) concentrations detected in the wells from March 2018 to August 2022. The laboratory report for the August 2022 groundwater monitoring event is provided in Appendix B. The highest detected groundwater monitoring well sample concentration for PCE collected on August 10, 2022, was 260 ug/L in MW-3S. This is a similar concentration that was detected in May 2022, however, showed an increase from the prior sampling event in February 2022. The next highest detected groundwater monitoring well sample concentration for PCE collected on August 10, 2022, was 170 ug/L at MW-11. This is a similar concentration that was detected in May 2022, however, showed a decrease from the prior sampling event in February 2022. The remaining detected PCE concentrations in the wells range from 0.53 ug/L at MW-13 to 78 ug/L at MW-12. Since the startup of the original SVE system, removal of soil across the Site from grade to approximately 25 feet below grade, startup of the Interim SVE system, and a total of four (4) ISCO groundwater injection events, PCE concentrations have significantly decreased in all on and off-Site wells. Other CVOCs detected in groundwater overtime include chloroform, cis-1,2-dichloroethylene (breakdown product of PCE), and TCE (breakdown product of PCE). The highest detected groundwater monitoring well sample concentration for TCE collected on August 10, 2022, was 4.3 ug/L in MW-1, which is below its NYSDEC Groundwater Standard. All other concentrations of TCE detected in the groundwater monitoring wells were either non-detect or at a concentration well below its NYSDEC Groundwater Standard. The highest detected groundwater monitoring well sample concentration for chloroform collected on August 10, 2022, was 28 ug/L in MW-7. The remaining detected chloroform concentrations in the wells ranged from non-detect in

three (3) wells to 16 ug/L at MW-3D. The highest detected groundwater monitoring well sample concentration for cis-1,2-dichloroethylene collected on August 10, 2022, was 1.5 ug/L in MW-11 which is below its NYSDEC Groundwater Standard. The remaining detected cis-1,2-dichloroethylene concentrations in the wells ranged from non-detect in seven (7) wells to 0.72 ug/L in MW-12. TCE, chloroform, and cis-1,2-dichloroethylene have not shown to significantly impact the Site during previous monitoring events but have shown to decrease overall in concentration overt time.

4.2 Corrective Measures

No areas of non-compliance were noted. Based on the above inspections, monitoring, and sampling results, the Site ICs and ECs are in compliance with the SMP for the Site. Therefore, no corrective measures are recommended for the ICs and ECs.

EnviroTrac recommends that the carbon drum for the SVE system be replaced as breakthrough has been noted for the most recent SVE Influent and Effluent Air Sampling.

4.3 Conclusions and Recommendations

The ICs/ECs are properly operating and being maintained at the Site in compliance with the Environmental Easement and SMP.

Since groundwater and soil gas concentrations for PCE have significantly decreased since (1) the removal of soil across the Site from grade to approximately 25 feet below grade, (2) the startup of the Interim SVE system, and (3) implementation of ISCO groundwater injections, EnviroTrac recommends that monthly O&M for the Interim SVE system, quarterly groundwater monitoring, annual soil gas sampling, and annual Site cover inspections and off-Site SSD system inspections at Regency Gardens continue as per the Site's SMP. EnviroTrac recently recommended that the annual indoor air sampling events during the certification of the SSD systems at Regency Gardens discontinue since two (2) consecutive years of indoor air sampling results for the Regency Gardens basements showed that none of the NYSDOH Air Guideline Values were exceeded. The

NYSDEC and NYSDOH approved this request on September 8, 2022. EnviroTrac also recently recommended that four (4) groundwater monitoring wells (MW-1, MW-2, MW-6, and MW-13) be removed from the quarterly groundwater sampling list since total VOCs has been consistently below 50 ug/L since October 2020 for MW-1 and MW-2, since August 2021 for MW-6, and since October 2019 for MW-13. The NYSDEC and the NYSDOH approved this request only for MW-1, MW-2, and MW-13 on September 8, 2022.

As per the Site's SMP, a Final SVE system was proposed to be installed at the southeast corner of the proposed Site building and the Interim SVE system would then be decommissioned. However, EnviroTrac was made aware of changes to the proposed building foundation elevation, making it deeper. These changes will inherently impact the proper operation of the Final SVE system at the southeast corner. The new foundation elevation is approximately one (1) foot above the Site-specific water table at the southeast corner of the Site. Installation of horizontal slotted PVC piping connected to an SVE blower would draw groundwater into the PVC piping and system. Water drawn into the piping and SVE blower would counteract the purpose of the SVE system and damage the SVE blower and other system parts. Therefore, to address potential vapors at the Site, an SSD system was installed along the southern portion of the Site rather than an SVE system. A Pilot Test was recently conducted for the SSD system, which showed that acceptable vacuum levels could be achieved. A Pilot Test Report will be provided to the NYSDEC and the NYSDOH for review. To address additional vapor concerns a vapor barrier was installed across the Site beneath the building's three (3) foot think foundation slab and up the subgrade walls. Since elevated PCE soil gas vapors remain at off-Site soil gas well SV-KG-1, EnviroTrac recommends the continued operation of the Interim SVE system until soil gas concentrations at SV-KG-1 reach acceptable levels.

4.4 IC/EC Certification

"For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

- *The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;*
- *The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment;*
- *Nothing has occurred that would constitute a violation or failure to comply with any Site management plan for this control;*
- *Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;*
- *If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;*
- *Use of the Site is compliant with the environmental easement;*
- *The engineering control systems are performing as designed and are effective;*
- *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 in this report is accurate and complete.*

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Dale Konas, PE, of EnviroTrac PC PE, 5 Old Dock Road, Yaphank, New York 11980, am certifying as Owner's/Remedial Party's Designated Site Representative: I have been authorized and designated by all Site owners/remedial parties to sign this certification for the Site."

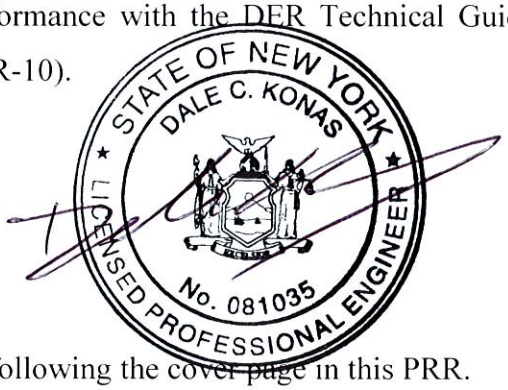
- *The assumptions made in the qualitative exposure assessment remain valid.*

I _DALE KONAS certify that I am currently a NYS registered professional engineer and that this Periodic Review Report was prepared in accordance with all applicable statutes

and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Dale C. Konas P.E.

9/15/22 DATE



IC/EC Certification forms are provided following the cover page in this PRR.

5.0 MONITORING PLAN COMPLAINCE REPORT

5.1 Components of the Monitoring Plan

Media sampled as part of the Monitoring Plan include soil gas well samples, Interim SVE influent and effluent air samples, groundwater samples, and indoor air samples at the four (4) buildings at Regency Gardens. The Interim SVE influent and effluent air sample results determine if the SVE system is in compliance with NYSDEC discharge guidance values. The soil gas well sample results determine if the Interim SVE system has addressed the soil gas surrounding the Site and off-Site, especially off-Site at SV-KG-1, adjoining to the east. The groundwater monitoring results determine if the remediation tasks conducted at the Site are removing contaminants from the groundwater beneath the Site. The indoor air results within the four (4) buildings at Regency Gardens determines if the SSD systems are operating properly. The following summarizes the monitoring conducted for the Site in compliance with the Monitoring Plan in the SMP.

5.1.1 Interim SVE System

Table 1 summarizes the Interim SVE influent and effluent air samples. The July 2021 monthly visit was missed. Figure 2C shows the Interim SVE system location. The total VOC effluent discharge in pounds per hour were calculated and are summarized in Table 2. The results show that the Interim SVE effluent air discharge total VOC concentrations are below the NYSDEC air discharge standard of 0.5 pounds per hour. Table 3 summarizes soil gas well sample results from November 2014 to January 2022. Figure 1 shows the soil gas well locations. The laboratory reports are provided in Appendix B. The Interim SVE system is performing properly, therefore, it is protecting human health and the environment. However, EnviroTrac recommends that the carbon drum for the SVE system be replaced as breakthrough has been noted for the most recent SVE Influent and Effluent Air Sampling.

5.1.2 Quarterly Groundwater Monitoring

The performance, effectiveness, and protectiveness of the previous ISCO groundwater injection events as well as natural attenuation of contaminants in groundwater are evaluated by sampling the groundwater over time and tracking the changes. Groundwater monitoring events occurred in August 2021, November 2021, February 2022, May 2022, and August 2022. Since the startup of the original SVE system, removal of soil across the Site to a depth of 25 feet below grade, startup of the Interim SVE system, and four (4) prior ISCO groundwater injections, concentrations for the on and off-Site groundwater monitoring wells have significantly decreased by an order of magnitude. Figures 3A, 3B, 3C, 3D, and 3E show the monitoring well locations and groundwater flow contour lines. Table 6 summarizes the depth to water and water table elevation measurements from March 2018 to August 2022. Table 7 summarizes a water table elevation study conducted in January 2021 for wells MW-5D and MW-9. Table 8 summarizes the August 2022 groundwater monitoring event. Table 9 summarizes the CVOC (chloroform, cis-1,2-dichloroethylene, PCE, and TCE) concentrations detected in the wells from March 2018 to August 2022. The laboratory report for the August 2022 groundwater monitoring event is provided in Appendix B. The highest detected groundwater monitoring well sample concentration for PCE collected on August 10, 2022, was 260 ug/L in MW-3S. This is a similar concentration that was detected in May 2022, however, showed an increase from the prior sampling event in February 2022. The next highest detected groundwater monitoring well sample concentration for PCE collected on August 10, 2022, was 170 ug/L at MW-11. This is a similar concentration that was detected in May 2022, however, showed a decrease from the prior sampling event in February 2022. The remaining detected PCE concentrations in the wells range from 0.53 ug/L at MW-13 to 78 ug/L at MW-12. Since the startup of the original SVE system, removal of soil across the Site from grade to approximately 25 feet below grade, startup of the Interim SVE system, and a total of four (4) ISCO groundwater injection events, PCE concentrations have significantly decreased in all on and off-Site wells. Other CVOCs detected in groundwater overtime include chloroform, cis-1,2-

dichloroethylene (breakdown product of PCE), and TCE (breakdown product of PCE). The highest detected groundwater monitoring well sample concentration for TCE collected on August 10, 2022, was 4.3 ug/L in MW-1, which is below its NYSDEC Groundwater Standard. All other concentrations of TCE detected in the groundwater monitoring wells were either non-detect or at a concentration well below its NYSDEC Groundwater Standard. The highest detected groundwater monitoring well sample concentration for chloroform collected on August 10, 2022, was 28 ug/L in MW-7. The remaining detected chloroform concentrations in the wells ranged from non-detect in three (3) wells to 16 ug/L at MW-3D. The highest detected groundwater monitoring well sample concentration for cis-1,2-dichloroethylene collected on August 10, 2022, was 1.5 ug/L in MW-11 which is below its NYSDEC Groundwater Standard. The remaining detected cis-1,2-dichloroethylene concentrations in the wells ranged from non-detect in seven (7) wells to 0.72 ug/L in MW-12. TCE, chloroform, and cis-1,2-dichloroethylene have not shown to significantly impact the Site during previous monitoring events but have shown to decrease overall in concentration overt time.

EnviroTrac recently recommended that four (4) groundwater monitoring wells (MW-1, MW-2, MW-6, and MW-13) be removed from the quarterly groundwater sampling list since total VOCs has been consistently below 50 ug/L since October 2020 for MW-1 and MW-2, since August 2021 for MW-6, and since October 2019 for MW-13. The NYSDEC and the NYSDOH approved this request only for MW-1, MW-2, and MW-13 on September 8, 2022.

5.1.3 Indoor Air Sampling at Regency Gardens

Indoor air samples were last collected in December 2021 and are summarized in Table 4. Figure 2C shows the As Built SSDS Layout for Regency Gardens. Based on the indoor air sample results, the SSD systems at Regency Gardens are operating properly. EnviroTrac recently recommended that the annual indoor air sampling events during the certification of the SSD systems at Regency Gardens discontinue since two (2) consecutive years of indoor air sampling results for the Regency Gardens basements

showed that none of the NYSDOH Air Guideline Values were exceeded. The NYSDEC and NYSDOH approved this request on September 8, 2022.

5.2 Monitoring Deficiencies

The July 2021 SVE O&M visit was missed; however, the SVE system was shown to be operating properly in June and August 2021.

Deficiencies were identified within the SSD system at Regency Gardens for pressure point readings at PTP-5 and PTP-6 on August 10, 2022. These pressure points were re-tested during the October SVE O&M, it is likely that it was a measurement/instrument error. The retest showed that the SSD system at Regency Gardens is operation properly.

EnviroTrac recommends that the carbon drum for the SVE system be replaced as breakthrough has been noted for the most recent SVE Influent and Effluent Air Sampling.

5.3 Conclusions and Recommendations

The monitoring data summarized above for the Interim SVE system air samples, groundwater samples, and indoor air samples at Regency Gardens indicate that the Interim SVE system, previous groundwater injections, and SSD systems at Regency Gardens are operating properly.

EnviroTrac recommends that the carbon drum for the SVE system be replaced as breakthrough has been noted for the most recent SVE Influent and Effluent Air Sampling.

The NYSDEC is recommending that additional groundwater injections be conducted around wells that show elevated concentrations of PCE. It has been agreed that following the next groundwater monitoring event (November 2022) the results will be evaluated to determine if another groundwater injection is necessary.

6.0 OPERATION AND MAINTENANCE PLAN COMPLIANCE REPORT

6.1 Components of the O&M Plan

O&M visits are conducted on a monthly basis for the Interim SVE system and on an annual basis for the four (4) SSD systems at Regency Gardens.

6.1.1 Interim SVE System

Interim SVE O&M visits occurred on a monthly basis. The July 2021 monthly visit was missed. The Interim SVE system is shown on Figure 2A. An SVE pipe was damaged during construction of the building on June 27, 2022. The SVE system was temporarily shut down until the pipe could be replaced. EnviroTrac replaced the pipe on July 5, 2022. No other SVE issues or concerns were noted during this reporting period. Currently, only SVE well EW-6 is operating while SVE wells EW-4 and EW-5 are shutoff. This is so all vacuum from the blower is applied to EW-6, which has been shown to address the vapors in the vicinity of SV-KG-1. The Interim SVE O&M Logs are provided in Appendix A and include the PT vacuum readings. The Annual Compliance Inspection Form for the Interim SVE System is provided in Appendix C. The Interim SVE system is performing properly, therefore, it is protecting human health and the environment. However, EnviroTrac recommends that the carbon drum for the SVE system be replaced as breakthrough has been noted for the most recent SVE Influent and Effluent Air Sampling.

6.1.2 SSD Systems at Regency Gardens

An annual certification and collection of vacuum readings at the PTPs from beneath the basement slabs of the four (4) buildings at Regency Gardens were conducted on August 10, 2022. No issues were reported for the SSD systems, including the blowers (fans), piping, and gauges. The annual certification of the Regency Gardens SSD systems is not due until December 2022. However, vacuum readings and system component inspections were conducted along with the annual Site inspection and Interim SVE system certification. A total of eight (8) PTPs were installed near the corners of the

basement slabs in the four (4) apartment buildings following the installation of the SSD systems. The PTPs are utilized to determine if an optimal amount of vacuum is being applied to the sub-slab by the SSD system blowers (fans). Figure 2C shows the As Built SSDS Layout at Regency Gardens including the SSD system suction pits and PTPs. Table 5 summarizes the PTP readings. Most of the vacuum measurements at the PTPs collected on August 10, 2022, were above the acceptable level of vacuum, at 0.01 inches of water, with the exception of PTP-5 and PTP-6. EnviroTrac monitored these PTP locations again on October 25, 2022, and the vacuums were shown to be within the acceptable level. The change in vacuum was likely a technical error in the field or instrument. The Site Inspection Management Form for the Regency Gardens SSD systems is provided in Appendix D.

6.2 O&M Deficiencies

The July 2021 SVE O&M visit was missed; however, the SVE system was shown to be operating properly in June and August 2021.

EnviroTrac recommends that the carbon drum for the SVE system be replaced as breakthrough has been noted for the most recent SVE Influent and Effluent Air Sampling.

Deficiencies were identified within the SSD system at Regency Gardens for pressure point readings at PTP-5 and PTP-6 on August 10, 2022. These pressure points were re-tested during the October SVE O&M, it is likely that it was a measurement/instrument error. The retest showed that the SSD system at Regency Gardens is operation properly.

6.3 Conclusions and Recommendations

The Interim SVE system continues to operate properly at the Site. The SSD systems at Regency Gardens continue to operate properly at the adjoining buildings to the south.

Since groundwater and soil gas concentrations for PCE have significantly decreased since (1) the removal of soil across the Site from grade to approximately 25 feet below grade,

(2) the startup of the Interim SVE system, and (3) implementation of ISCO groundwater injections, EnviroTrac recommends that monthly O&M for the Interim SVE system, quarterly groundwater monitoring, annual soil gas sampling, and annual Site cover inspections and off-Site SSD system inspections at Regency Gardens continue as per the Site's SMP. EnviroTrac recently recommended that the annual indoor air sampling events during the certification of the SSD systems at Regency Gardens discontinue since two (2) consecutive years of indoor air sampling results for the Regency Gardens basements showed that none of the NYSDOH Air Guideline Values were exceeded. The NYSDEC and NYSDOH approved this request on September 8, 2022. EnviroTrac also recently recommended that four (4) groundwater monitoring wells (MW-1, MW-2, MW-6, and MW-13) be removed from the quarterly groundwater sampling list since total VOCs has been consistently below 50 ug/L since October 2020 for MW-1 and MW-2, since August 2021 for MW-6, and since October 2019 for MW-13. The NYSDEC and the NYSDOH approved this request only for MW-1, MW-2, and MW-13 on September 8, 2022.

As per the Site's SMP, a Final SVE system was proposed to be installed at the southeast corner of the proposed Site building and the Interim SVE system would then be decommissioned. However, EnviroTrac was made aware of changes to the proposed building foundation elevation, making it deeper. These changes will inherently impact the proper operation of the Final SVE system at the southeast corner. The new foundation elevation is approximately one (1) foot above the Site-specific water table at the southeast corner of the Site. Installation of horizontal slotted PVC piping connected to an SVE blower would draw groundwater into the PVC piping and system. Water drawn into the piping and SVE blower would counteract the purpose of the SVE system and damage the SVE blower and other system parts. Therefore, to address potential vapors at the Site, an SSD system was installed along the southern portion of the Site rather than an SVE system. A Pilot Test was recently conducted for the SSD system, which showed that acceptable vacuum levels could be achieved. A Pilot Test Report will

be provided to the NYSDEC and the NYSDOH for review. To address additional vapor concerns a vapor barrier was installed across the Site beneath the building's three (3) foot think foundation slab and up the subgrade walls. Since elevated PCE soil gas vapors remain at off-Site soil gas well SV-KG-1, EnviroTrac recommends the continued operation of the Interim SVE system until soil gas concentrations at SV-KG-1 reach acceptable levels.

EnviroTrac recommends that the carbon drum for the SVE system be replaced as breakthrough has been noted for the most recent SVE Influent and Effluent Air Sampling.

The NYSDEC is recommending that additional groundwater injections be conducted around wells that show elevated concentrations of PCE. It has been agreed that following the next groundwater monitoring event (November 2022) the results will be evaluated to determine if another groundwater injection is necessary.

EnviroTrac will continue to conduct monthly O&M Interim SVE system inspections, quarterly groundwater monitoring events, annual SSD system certifications at Regency Gardens, annual Site cover inspections, and annual soil gas sampling events. Once the Final SSD system is operating and the Interim SVE system is discontinued, inspections for said system will be reduced to an annual frequency. The reporting frequency will not change and will continue as the following: (1) quarterly groundwater and Interim SVE system monitoring reports; and (2) annual PRRs.

7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

7.1 Compliance with the SMP

One monthly SVE monitoring event was missed for July 2021. No other areas of noncompliance were noted for the Site. The Environmental Easement allows for Restricted Residential use. A new building is currently being constructed at the Site and will be used for mixed commercial and residential-uses. No permanent occupants currently reside at the Site. Therefore, the adherence to the Environmental Easement was achieved.

7.2 Effectiveness of the Remedial Program

Monthly Site visits were conducted for the Interim SVE system (June 2021 to September 2022 with the exception of July 2021), groundwater monitoring was conducted on a quarterly basis (for this reporting period sampling occurred in August 2021, November 2021, February 2022, May 2022, and August 2022), and the Site cover is inspected annually. The SSD systems at Regency Gardens were also inspected and were found to be operating properly. The annual Site inspection was conducted on August 10, 2022. The ECs include the O&M of an Interim SVE system and the maintenance of the Site cover system. The SSD systems at Regency Gardens have been operating since December 2020 and the Interim SVE system has been operating since January 2020. Monitoring results for the Interim SVE system and SSD systems at Regency Gardens showed that they were operating properly with no issues. A new building is currently being constructed at the Site and will be used for mixed commercial and residential-uses. No permanent occupants currently reside at the Site. Prior to the start of construction perforated PVC piping was installed on the southern portion as part of a SSD system, and a vapor barrier and three (3) foot thick slab were installed on top of the approximately 24” clean soil cover, demarcation layer, and blue stone/gravel layer across the Site. The vapor barrier also continued up the subgrade walls. The Site is currently an active construction site. Groundwater monitoring results indicate a reduction in on-Site and off-Site remaining groundwater contamination since the startup of the original SVE system,

soil removal across the Site to a depth of approximately 25 feet below grade, startup of the Interim SVE system, and a total of four (4) groundwater ISCO injections.

7.3 Future PRR Submittals

PRR will continue to be submitted on an annual basis.

7.4 Recommendations

Since groundwater and soil gas concentrations for PCE have significantly decreased since (1) the removal of soil across the Site from grade to approximately 25 feet below grade, (2) the startup of the Interim SVE system, and (3) implementation of ISCO groundwater injections, EnviroTrac recommends that monthly O&M for the Interim SVE system, quarterly groundwater monitoring, annual soil gas sampling, and annual Site cover inspections and off-Site SSD system inspections at Regency Gardens continue as per the Site's SMP. EnviroTrac recently recommended that the annual indoor air sampling events during the certification of the SSD systems at Regency Gardens discontinue since two (2) consecutive years of indoor air sampling results for the Regency Gardens basements showed that none of the NYSDOH Air Guideline Values were exceeded. The NYSDEC and NYSDOH approved this request on September 8, 2022. EnviroTrac also recently recommended that four (4) groundwater monitoring wells (MW-1, MW-2, MW-6, and MW-13) be removed from the quarterly groundwater sampling list since total VOCs has been consistently below 50 micrograms per liter (ug/L) since October 2020 for MW-1 and MW-2, since August 2021 for MW-6, and since October 2019 for MW-13. The NYSDEC and the NYSDOH approved this request only for MW-1, MW-2, and MW-13 on September 8, 2022.

As per the Site's SMP, a Final SVE system was proposed to be installed at the southeast corner of the proposed Site building and the Interim SVE system would then be decommissioned. However, EnviroTrac was made aware of changes to the proposed building foundation elevation, making it deeper. These changes will inherently impact the proper operation of the Final SVE system at the southeast corner. The new

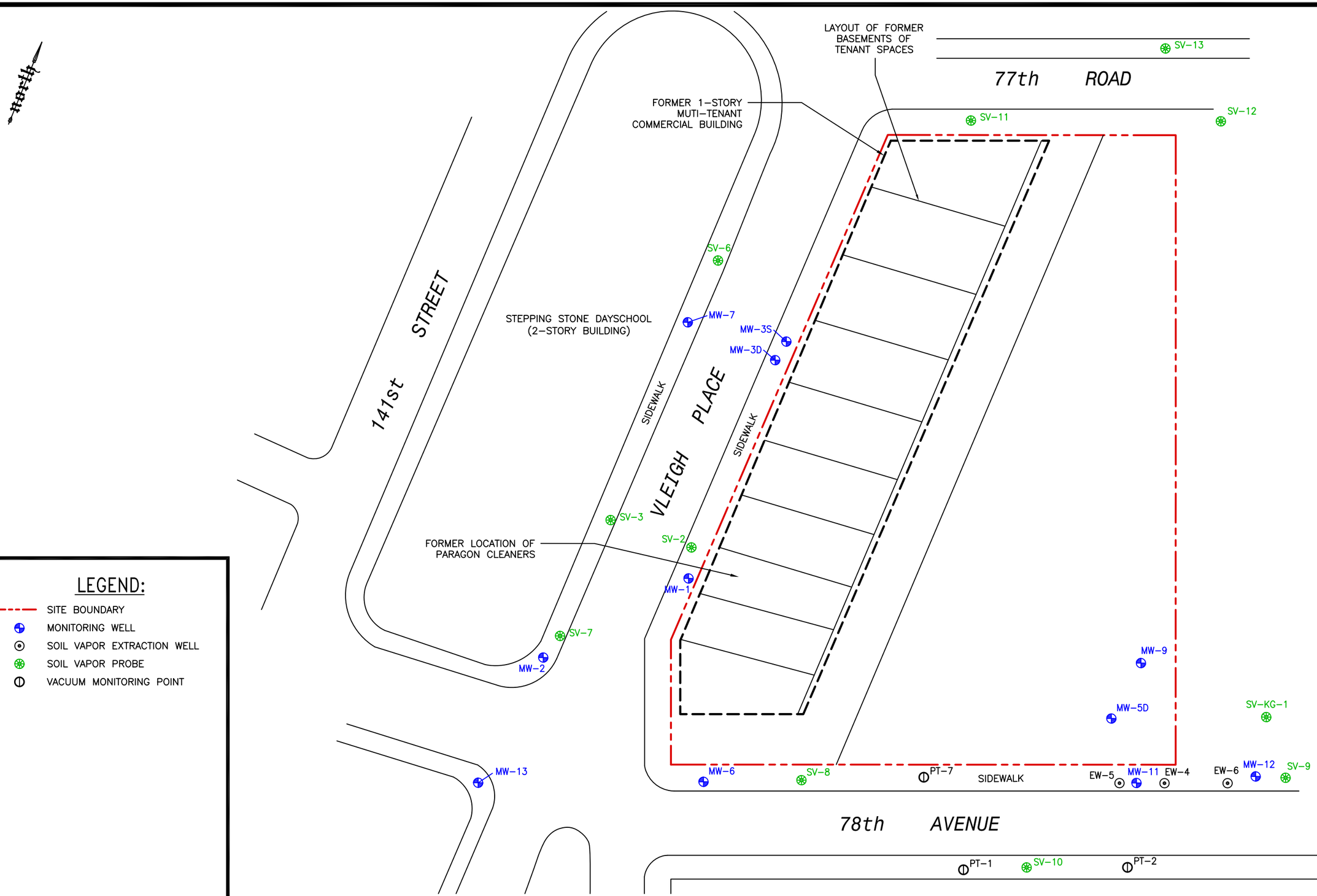
foundation elevation is approximately one (1) foot above the Site-specific water table at the southeast corner of the Site. Installation of horizontal slotted PVC piping connected to an SVE blower would draw groundwater into the PVC piping and system. Water drawn into the piping and SVE blower would counteract the purpose of the SVE system and damage the SVE blower and other system parts. Therefore, to address potential vapors at the Site, an SSD system was installed along the southern portion of the Site rather than an SVE system. A Pilot Test was recently conducted for the SSD system, which showed that acceptable vacuum levels could be achieved. A Pilot Test Report will be provided to the NYSDEC and the NYSDOH for review. To address additional vapor concerns a vapor barrier was installed across the Site beneath the building's three (3) foot think foundation slab. The vapor barrier also continued up the subgrade walls. Since elevated PCE soil gas vapors remain at off-Site soil gas well SV-KG-1, EnviroTrac recommends the continued operation of the Interim SVE system until soil gas concentrations at SV-KG-1 reach acceptable levels.

EnviroTrac will continue to conduct monthly O&M Interim SVE system inspections, quarterly groundwater monitoring events, annual SSD system certifications at Regency Gardens, annual Site cover inspections, and annual soil gas sampling events. Once the Final SSD system is operating and the Interim SVE system is discontinued, inspections for said system will be reduced to an annual frequency. The reporting frequency will not change and will continue as the following: (1) quarterly groundwater and Interim SVE system monitoring reports; and (2) annual PRRs.

EnviroTrac recommends that the carbon drum for the SVE system be replaced as breakthrough has been noted for the most recent SVE Influent and Effluent Air Sampling.

The NYSDEC is recommending that additional groundwater injections be conducted around wells that show elevated concentrations of PCE. It has been agreed that following the next groundwater monitoring event (November 2022) the results will be evaluated to determine if another groundwater injection is necessary.

FIGURES



LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR PROBE
- VACUUM MONITORING POINT

EnviroTrac
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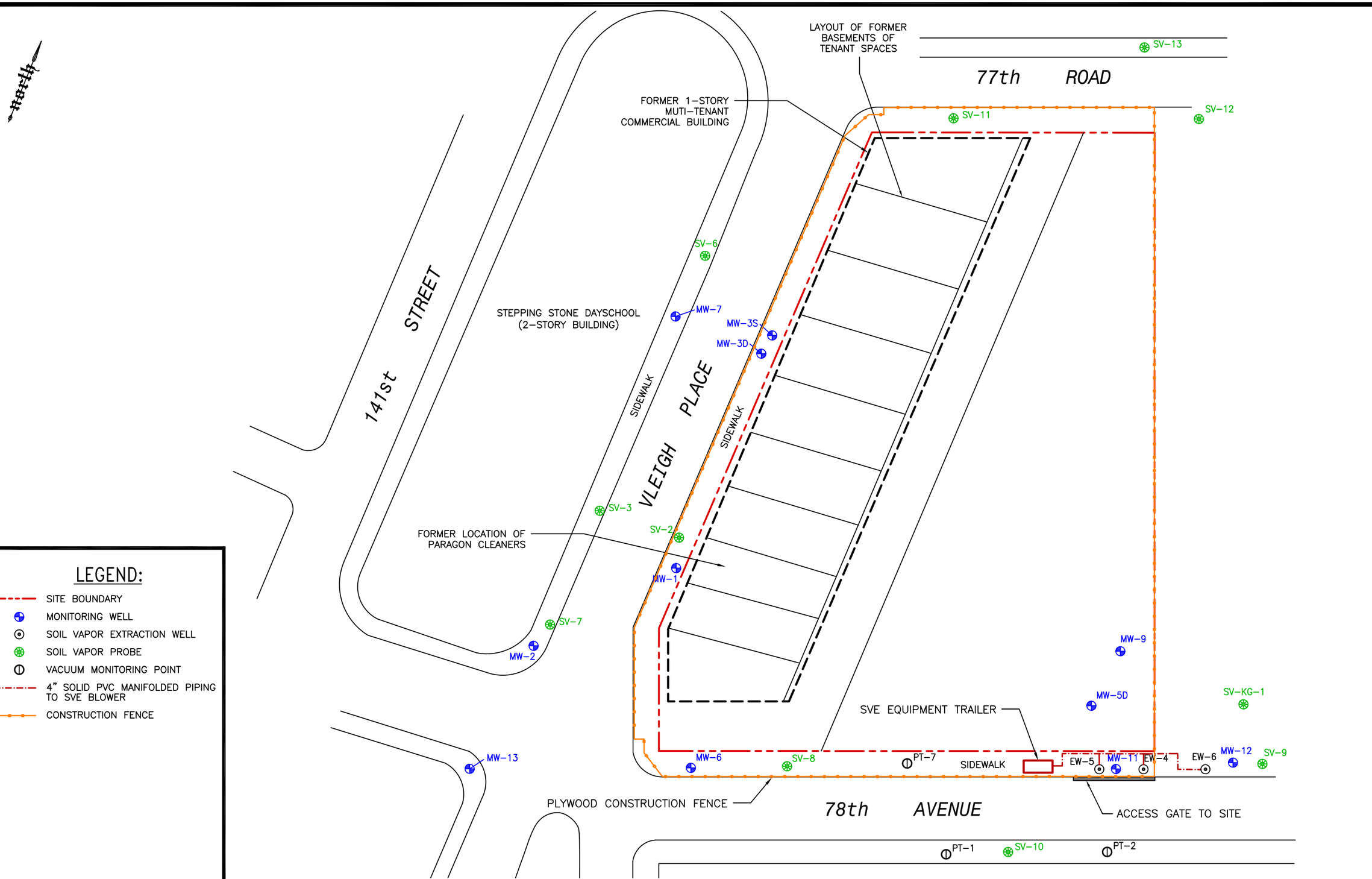
0 30
SCALE IN FEET

REVISION DATE: 7/19/2022 REVISED BY: BS

77-63 VLEIGH PLACE
FLUSHING, NEW YORK

SITE PLAN

FIGURE #
1



LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR PROBE
- VACUUM MONITORING POINT
- 4" SOLID PVC MANIFOLDED PIPING TO SVE BLOWER
- CONSTRUCTION FENCE

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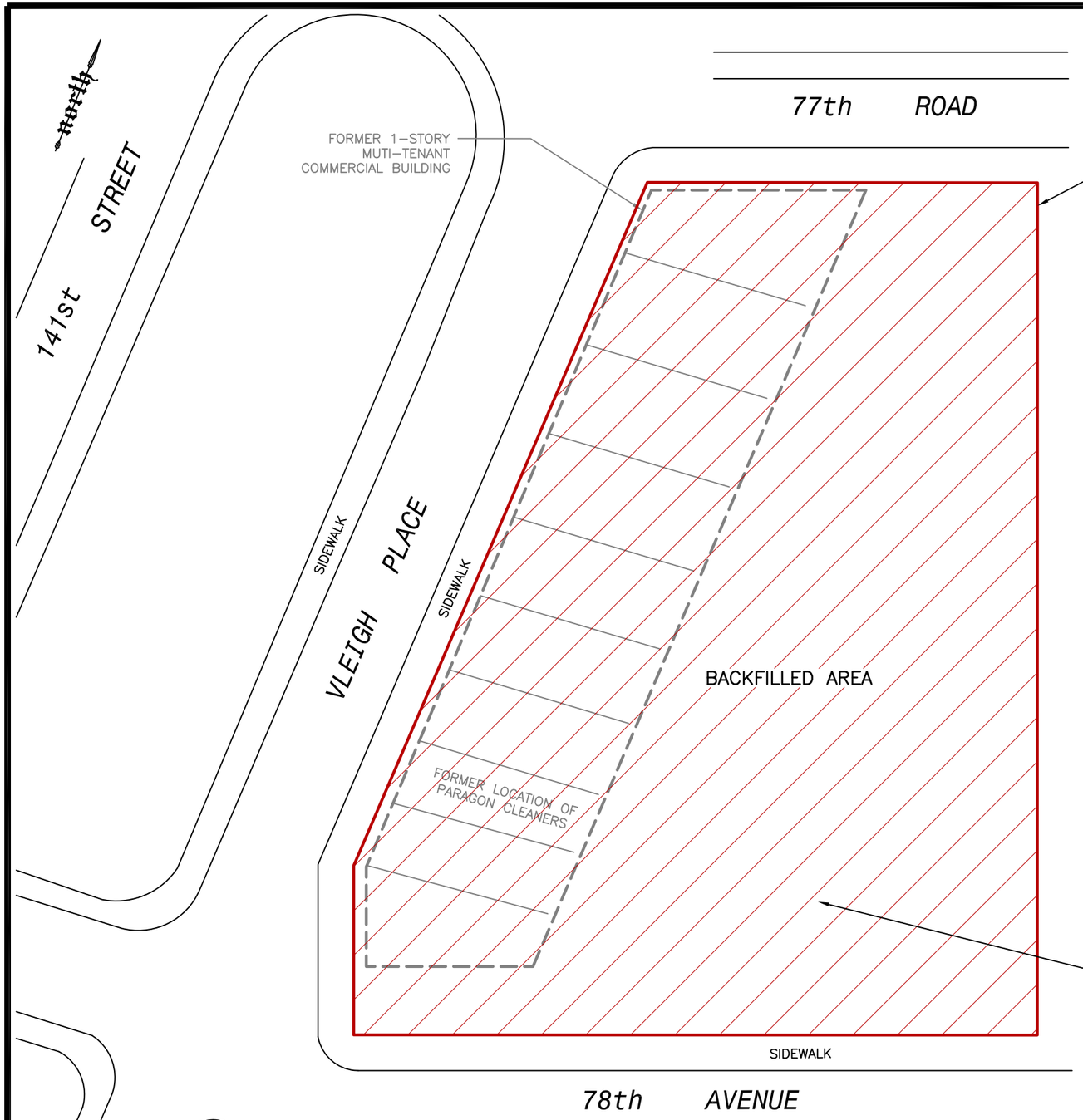
77-63 VLEIGH PLACE
FLUSHING, NEW YORK

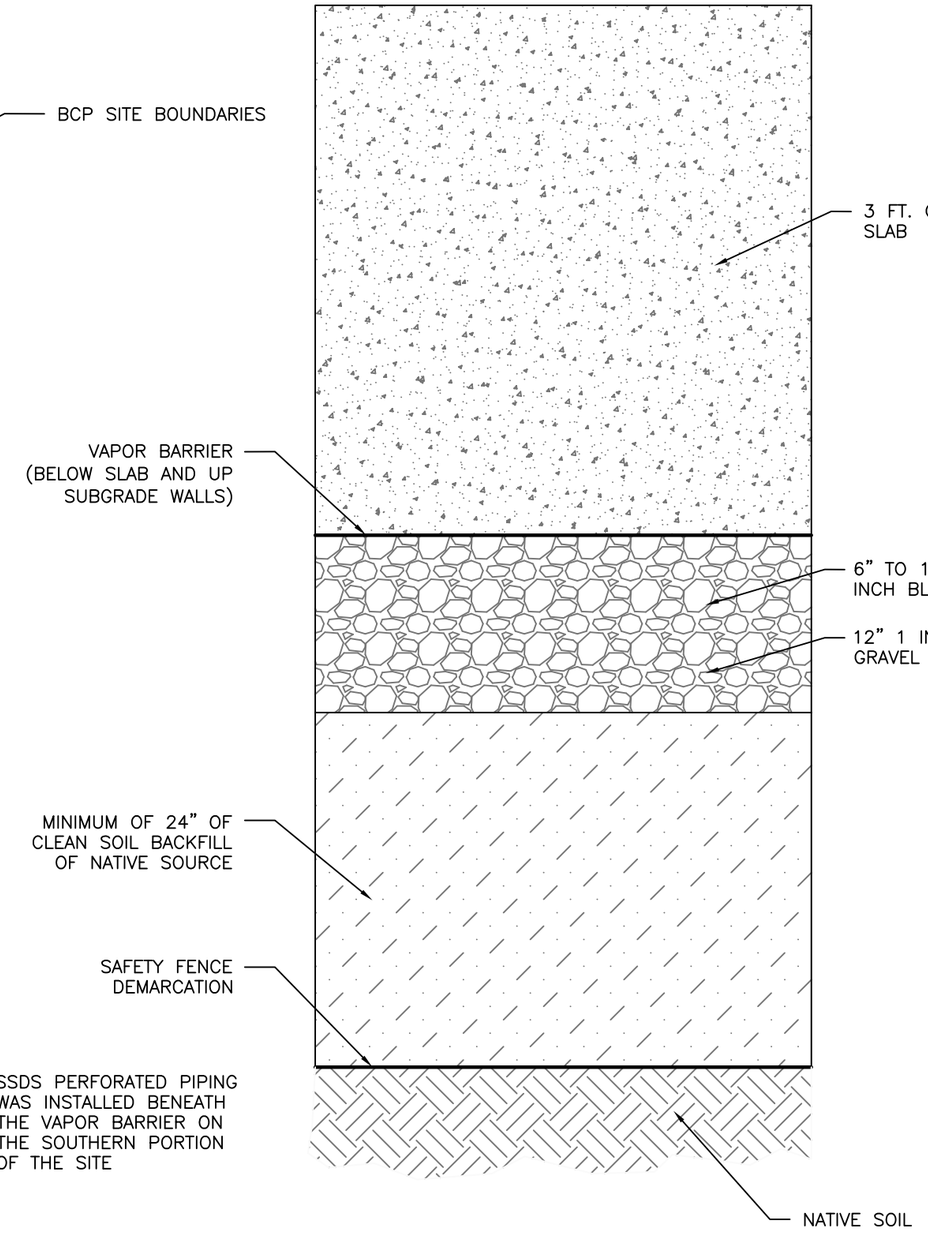
ENGINEERING CONTROL LOCATIONS INTERIM SVE SYSTEM

FIGURE # 2A



PLAN VIEW OF INSTALLED ENGINEERING CONTROLS

SCALE: 1" = 30'



CROSS SECTION OF BACKFILL

NOT TO SCALE

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DRAWING SCALE: AS SHOWN

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77-63 VLEIGH PLACE
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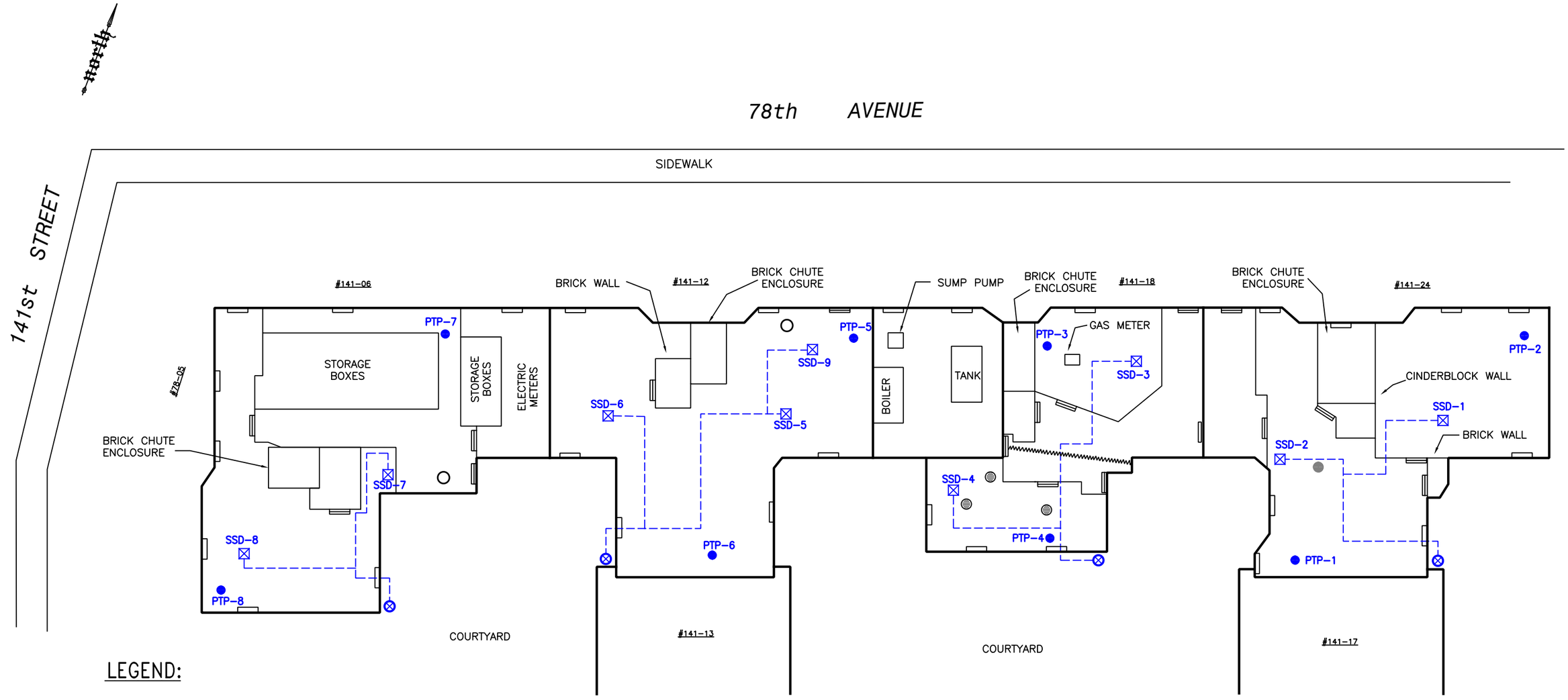
ENGINEERING CONTROL LOCATIONS
SITE COVER

FIGURE # 2B



LEGEND:

- 4" SCH 40 PVC PIPE
- WINDOW
- DOOR
- SUCTION PIT
- DRY PIT
- 4" CAST IRON RISER EXTENDING TO FAN
- PRESSURE TEST POINT
- REPAIRED SLAB TRENCH
- REPAIR SLAB
- DRAIN

SOURCE:

SITE PLAN BASED ON A FIGURE PREPARED BY HYDROTECH ENVIRONMENTAL ENGINEERING AND GEOLOGY, INC. 7/18/2019.

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0 20
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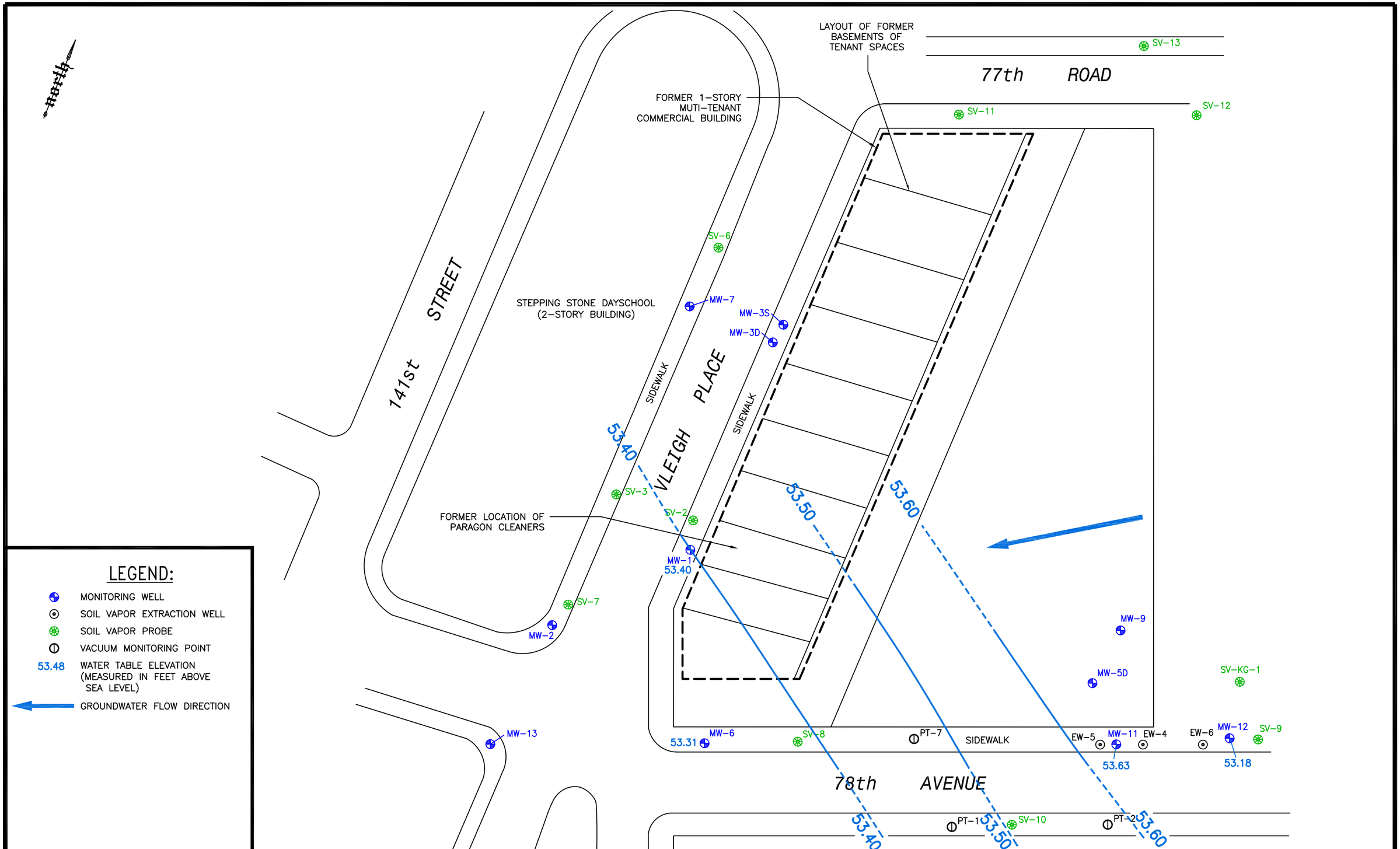
REVISION DATE: 1/8/2021 REVISED BY: SS

REGENCY GARDENS
7805 141ST STREET
141-06, 141-12, 141-18, 141-24 78TH AVENUE
FLUSHING, NEW YORK

AS-BUILT: SSDS LAYOUT

FIGURE # 2C



LEGEND:

- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR PROBE
- VACUUM MONITORING POINT
- 53.48 WATER TABLE ELEVATION (MEASURED IN FEET ABOVE SEA LEVEL)
- GROUNDWATER FLOW DIRECTION

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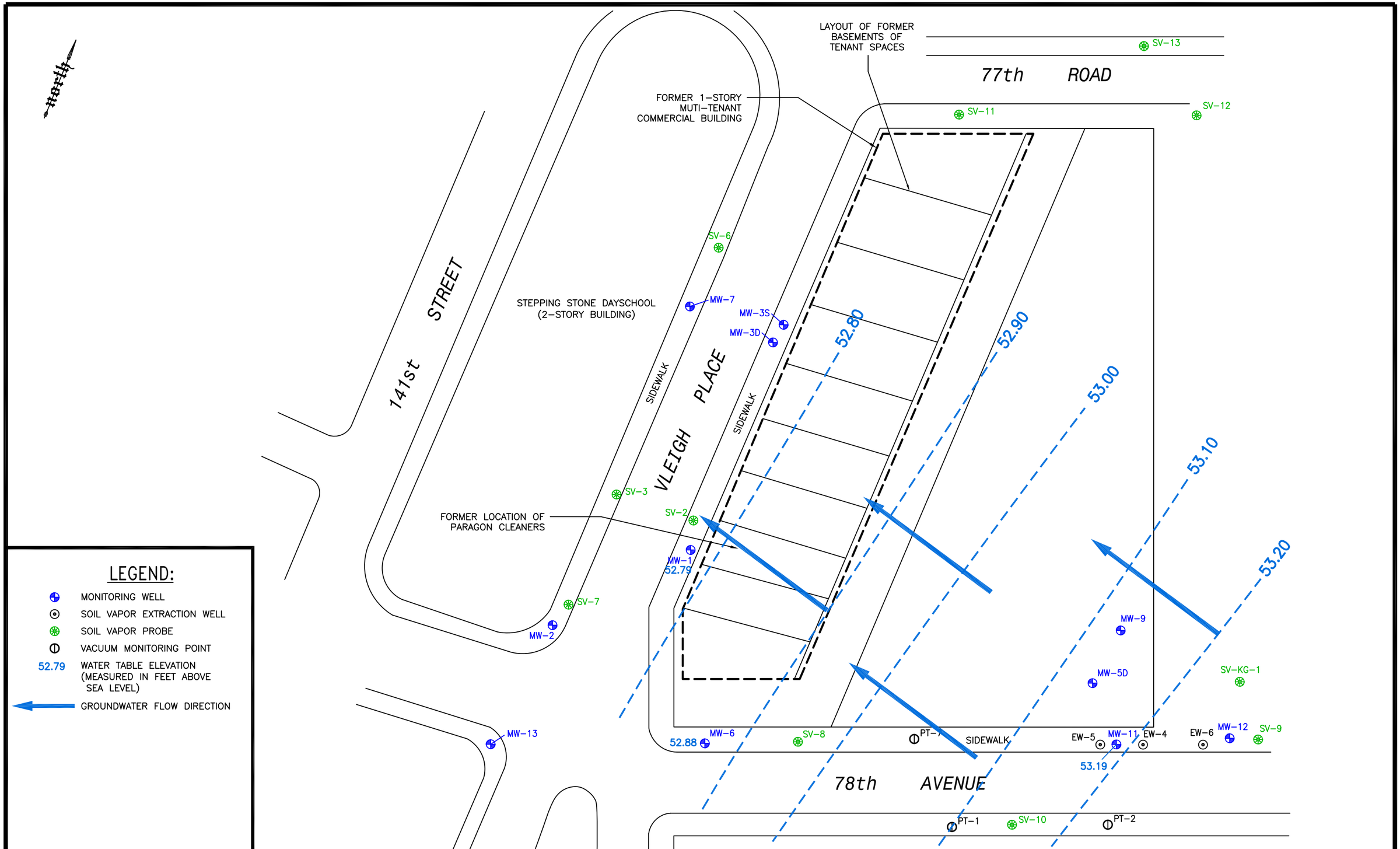
77-63 VLEIGH PLACE
FLUSHING, NEW YORK

GROUNDWATER CONTOUR MAP
AUGUST 17, 2021

FIGURE # 3A



LEGEND:

- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR PROBE
- VACUUM MONITORING POINT
- 52.79 WATER TABLE ELEVATION (MEASURED IN FEET ABOVE SEA LEVEL)
- GROUNDWATER FLOW DIRECTION

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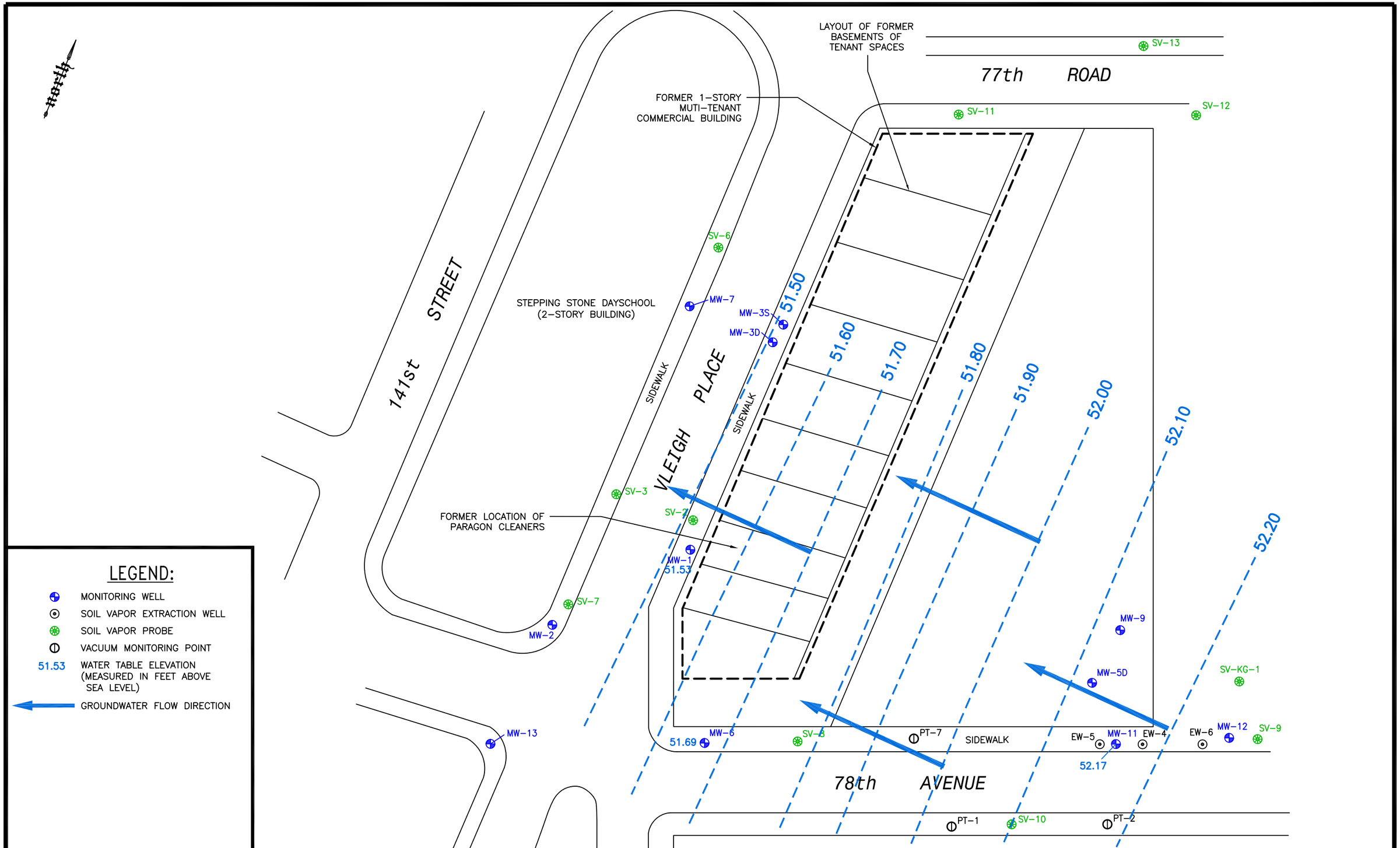
77-63 VLEIGH PLACE
FLUSHING, NEW YORK

GROUNDWATER CONTOUR MAP
NOVEMBER 30, 2021

FIGURE #
3B



LEGEND:

- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR PROBE
- VACUUM MONITORING POINT
- 51.53 WATER TABLE ELEVATION (MEASURED IN FEET ABOVE SEA LEVEL)
- GROUNDWATER FLOW DIRECTION

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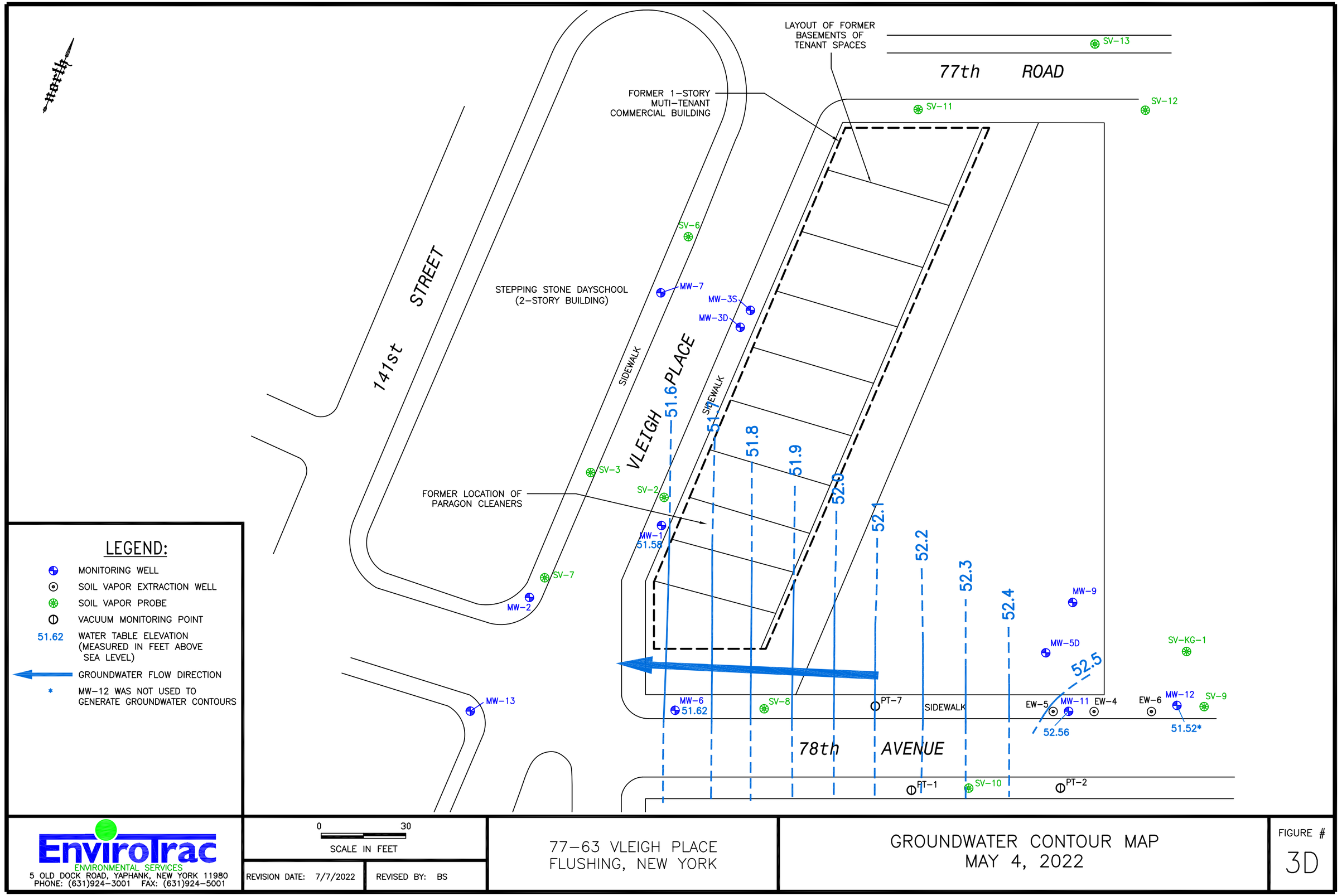
SCALE IN FEET

REVISION DATE: 4/25/2022 REVISED BY: BS

77-63 VLEIGH PLACE
FLUSHING, NEW YORK

GROUNDWATER CONTOUR MAP
FEBRUARY 14, 2022

FIGURE # 3C



LEGEND:

- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR PROBE
- VACUUM MONITORING POINT
- 51.62 WATER TABLE ELEVATION (MEASURED IN FEET ABOVE SEA LEVEL)
- GROUNDWATER FLOW DIRECTION
- * MW-12 WAS NOT USED TO GENERATE GROUNDWATER CONTOURS

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REVISION DATE: 7/7/2022 REVISED BY: BS

77-63 VLEIGH PLACE
FLUSHING, NEW YORK

GROUNDWATER CONTOUR MAP
MAY 4, 2022

FIGURE #
3D

LAYOUT OF FORMER BASEMENTS OF TENANT SPACES

FORMER 1-STORY MUTI-TENANT COMMERCIAL BUILDING

STEPPING STONE DAYSCHOOL (2-STORY BUILDING)

FORMER LOCATION OF PARAGON CLEANERS

141st STREET

VLEIGH PLACE

77th ROAD

78th AVENUE

SIDEWALK

SV-13 SV-12 SV-11 SV-6 SV-3 SV-2 SV-7 SV-10 SV-8 SV-9 SV-KG-1

MW-7 MW-3S MW-3D MW-1 50.94 MW-2 MW-13 MW-6 51.34 MW-9 MW-5D MW-11 51.93 MW-12 51.26*

EW-5 EW-4 EW-6

PT-7 PT-1 PT-2

51.00 51.25 51.50 51.75 52.00

LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR PROBE
- VACUUM MONITORING POINT
- 50.94 WATER TABLE ELEVATION (MEASURED IN FEET ABOVE SEA LEVEL)
- GROUNDWATER FLOW DIRECTION
- * MW-12 WAS NOT USED TO GENERATE GROUNDWATER CONTOURS

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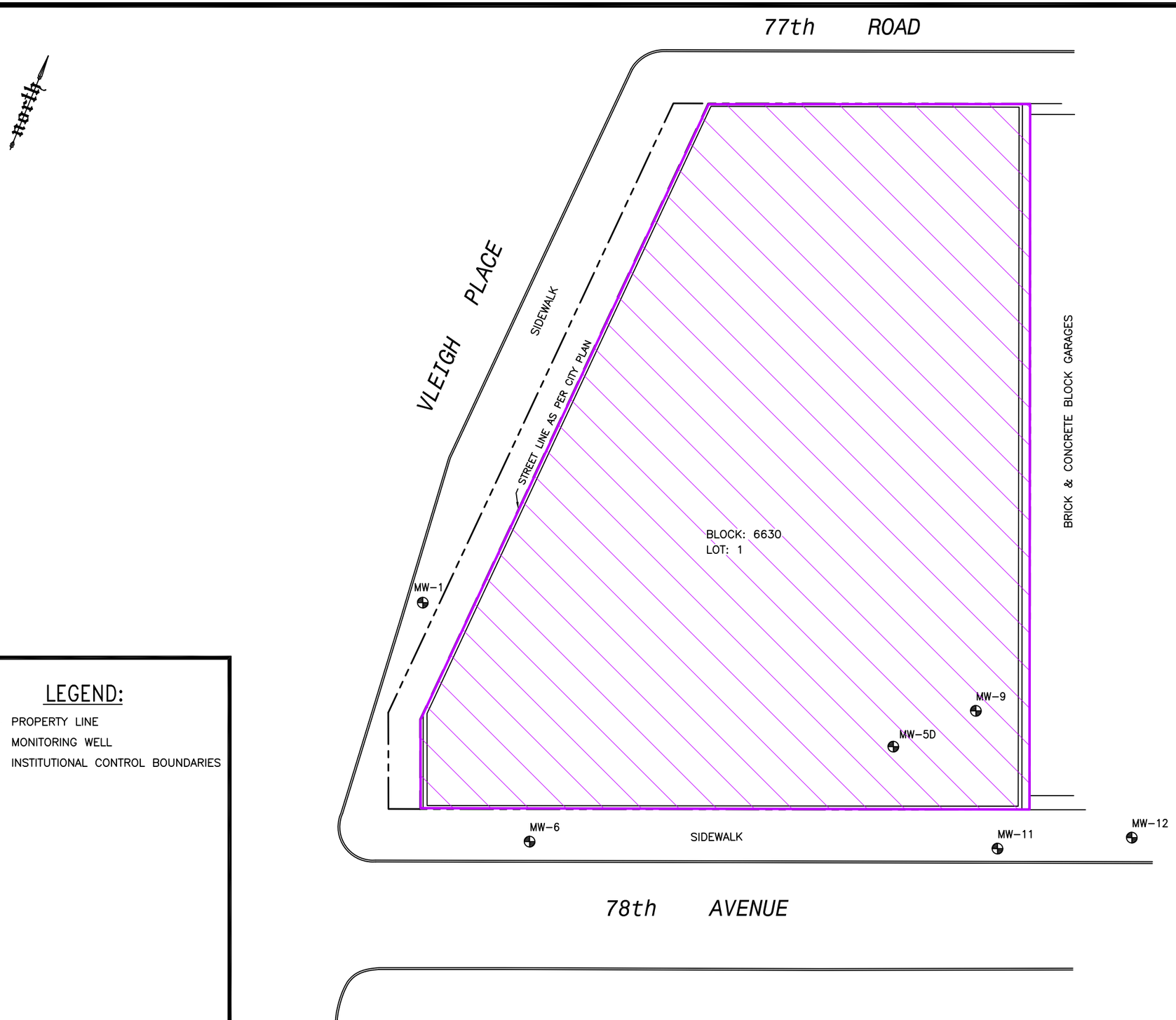
77-63 VLEIGH PLACE
FLUSHING, NEW YORK

GROUNDWATER CONTOUR MAP
AUGUST 10, 2022

FIGURE #
3E



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- INSTITUTIONAL CONTROL BOUNDARIES

SOURCE:

FIGURE BASED ON A SURVEY PREPARED BY MONTROSE SURVEYING CO., LLP CITY AND LAND SURVEYORS. SURVEY NO. 66447-6, LAST REVISED NOVEMBER 19, 2019.

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REVISION DATE: 6/4/2021 REVISED BY: BS

77-63 VLEIGH PLACE
FLUSHING, NEW YORK

INSTITUTIONAL CONTROL BOUNDARIES

FIGURE # 4

TABLES

Table 1
Summary of SVE Influent and Effluent Air Sample Results
77-57 Vleigh Place, Flushing, NY

Sample ID	SVE Influent	SVE Effluent
Sample Date	**8/10/2022**	**8/10/2022**
Volatile Organic Compounds *(in micrograms per cubic meter of air)*		
1,2,4-Trimethylbenzene	9.19	5.65
1,3,5-Trimethylbenzene	2.18	ND
2,2,4-Trimethylpentane	1.49	ND
2-Butanone	52.8	18.8
2-Hexanone	4.71	3.31
4-Ethyltoluene	1.65	ND
Acetone	33.5	141
Benzene	5.72	9.39
Bromodichloromethane	4.18	ND
Chloroform	60.1	33.5
Chloromethane	0.425	1.33
cis-1,2-Dichloroethene	1.23	ND
Cyclohexane	0.805	1.58
Dichlorodifluoromethane	2.22	2.11
Ethanol	32	43.3
Ethylbenzene	3.86	3.45
Heptane	3.21	2.47
Isopropanol	5.31	6.1
n-Hexane	1.83	1.63
o-Xylene	5.65	4.82
p/m-Xylene	12.9	11.2
Styrene	1.95	ND
Tertiary butyl Alcohol	3.91	24.7
Tetrachloroethene	645	1080
Toluene	17.3	15
Trichloroethene	8.55	8.44

Note:
Only detected analytes are reported.
ND = Not Detected

EnviroTrac

Table 2
VOC Calculations for SVE Effluent Air Discharge
77-57 Vleigh Place, Flushing, NY

Sample Date August 10, 2022

Air Emission VOCs- Pounds Per Hour

Emission rates in terms of pounds per hour (lbs/hr) for VOCs are calculated using the pollutant emission rate in parts per million (ppm/dry), flow rate in dscfm (Qs), molecular weight of the pollutant (MW), 60 minutes /hour, divided by 385.3x $10E^6$ dscf/lb-mole @ 68 F.

$$\text{Lbs/hr} = \frac{\text{PPM x Qs x MW x 60}}{385.3\text{x } 10E^6}$$

Compound	MW	PPBv	PPM	CFM	Lbs/Hr	Lbs/Hr	Tons/Yr
1,2,4-Trimethylbenzene	120.19	0.000	0	60	0.000E+00	0.00000	1.14E-04
2-Butanone	72.11	6.39	0.00639	60	4.305E-06	0.00000	5.50E-04
2-Hexanone	100.16	0.808	0.000808	60	7.562E-07	0.00000	2.89E-05
Acetone	58.08	59.200	0.0592	60	3.213E-05	0.00003	2.55E-04
Benzene	78.11	2.94	0.00294	60	2.146E-06	0.00000	9.40E-06
Chloroform	119.38	6.87	0.00687	60	7.663E-06	0.00001	7.51E-05
Chloromethane	50.49	0.646	0.000646	60	3.047E-07	0.00000	1.33E-06
Cyclohexane	84.16	0.46	0.00046	60	3.617E-07	0.00000	1.58E-06
Dichlorodifluoromethane	120.91	0.426	0.000426	60	4.813E-07	0.00000	2.11E-06
Ethanol	46.07	23.000	0.023	60	9.900E-06	0.00001	1.42E-04
Ethylbenzene	106.17	0.794	0.000794	60	7.876E-07	0.00000	3.45E-06
Heptane	100.21	0.602	0.000602	60	5.637E-07	0.00000	5.77E-06
Isopropanol	60.10	2.48	0.00248	60	1.393E-06	0.00000	6.10E-06
n-Hexane	86.18	0.462	0.000462	60	3.720E-07	0.00000	3.72E-06
o-Xylene	106.16	1.110	0.00111	60	1.101E-06	0.00000	4.82E-06
p/m-Xylene	106.16	2.570	0.00257	60	2.549E-06	0.00000	1.71E-05
Tertiary butyl Alcohol	74.12	8.15	0.00815	60	5.644E-06	0.00001	2.47E-05
Tetrachloroethylene	165.83	160.000	0.16	60	2.479E-04	0.00025	1.39E-03
Toluene	92.14	3.98	0.00398	60	3.426E-06	0.00000	2.18E-05
Trichloroethylene	131.39	1.57	0.00157	60	1.927E-06	0.00000	6.27E-05

Total Lbs/Hr: **0.00032**

EnviroTrac

Table 3
Off-site Soil Vapor Analytical Results Post-SVE Temporary Installation
77-57 Vleigh Place, Flushing, New York

Sample ID	SV-KG-1		SV-KG-1		SV-KG-1		SV-KG-1		SV-KG-1		SV-KG-1		SV-KG-1	
Sampling Date	4/4/2017		11/15/2018		10/9/2019		4/29/2020		12/16/2020		1/21/2021		1/10/2022	
Client Matrix	Air		Air		Air		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor	
Compound	Result		Result		Result		Result		Result		Result		Result	
Volatile Organics, EPA TO15 Full List	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q
1,1,1-Trichloroethane	13	U	1.04	U	11	U	129	U	143	U	27.3	U	6.82	U
1,1,1,2-Tetrachloroethane	17	U	1.3	U	14	U	163	U	NT		NT		NT	
1,1,2,2-Tetrachloroethane	17	U	1.3	U	14	U	163	U	181	U	34.3	U	8.58	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	19	U	1.46	U	16	U	182	U	202	U	38.3	U	9.58	U
1,1,2-Trichloroethane	13	U	1.0	U	11	U	129	U	143	U	27.3	U	6.82	U
1,1-Dichloroethane	10	U	0.8	U	8.4	U	95.9	U	106	U	20.2	U	5.06	U
1,1-Dichloroethylene	9.7	U	0.2	U	2.1	U	94	U	104	U	19.8	U	4.96	U
1,2,4-Trichlorobenzene	18	U	1.4	U	15	U	176	U	195	U	37.1	U	9.28	U
1,2,4-Trimethylbenzene	12	U	54.1	D	11	D	117	U	129	U	24.6	U	6.15	U
1,2-Dibromoethane	19	U	1.5	U	16	U	182	U	106	U	38.4	U	9.61	U
1,2-Dichlorobenzene	15	U	1.1	U	13	U	142	U	158	U	30.1	U	7.52	U
1,2-Dichloroethane	10	U	0.8	U	8.4	U	95.9	U	106	U	20.2	U	5.06	U
1,2-Dichloropropane	11	U	0.9	U	9.6	U	110	U	122	U	23.1	U	5.78	U
1,2-Dichlorotetrafluoroethane (Freon 114)	17	U	1.3	U	15	U	166	U	184	U	34.9	U	8.74	U
1,3,5-Trimethylbenzene	12	U	17.2	D	10	U	117	U	129	U	24.6	U	6.15	U
1,3-Butadiene	16	U	8.0	D	14	U	52.4	U	58.2	U	11.1	U	2.77	U
1,3-Dichlorobenzene	15	U	1.1	U	13	U	142	U	158	U	30.1	U	7.52	U
1,3-Dichloropropane	11	U	0.9	U	9.6	U	110	U	158	U	NT		NT	
1,4-Dichlorobenzene	15	U	1.1	U	13	U	142	U	158	U	30.1	U	7.52	U
1,4-Dioxane	18	U	1.4	U	15	U	85.4	U	94.8	U	18	U	4.5	U
2,2,4-Trimethylpentane	NT		NT		NT		NT		NT		NT		5.84	U
2-Butanone	7.3	U	32.4	D	6.1	U	175	U	194	U	36.9	U	9.2	U
2-Hexanone	20	U	2.9	D	17	U	97.1	U	108	U	20.5	U	5.12	U
3-Chloropropene	38	U	3.0	U	33	U	74.2	U	82.3	U	15.7	U	3.91	U
4-Methyl-2-pentanone	10	U	0.8	U	8.5	U	243	U	270	U	51.2	U	12.8	U
Acetone	29	D	71.2	D	9.9	U	280	U	314	U	59.4	U	15	
Acrylonitrile	5.3	U	0.4	U	4.5	U	128	U	NT		NT		NT	
Benzene	13	D	25.5	D	6.7	U	75.7	U	84	U	16	U	3.99	U
Benzyl chloride	13	U	0.983	U	11	U	123	U	136	U	25.9	U	6.47	U
Bromodichloromethane	16	U	1.3	U	14	U	159	U	176	U	33.5	U	8.37	U
Bromoform	25	U	1.96	U	22	U	245	U	272	U	51.7	U	12.9	U
Bromomethane	9.5	U	0.7	U	8.1	U	92	U	102	U	19.4	U	4.85	U
Carbon disulfide	7.7	U	12.1	D	140	D	73.8	U	81.9	U	15.6	U	3.89	U
Carbon tetrachloride	3.9	U	0.3	U	3.3	U	149	U	165	U	31.5	U	7.86	U
Chlorobenzene	11	U	0.9	U	9.6	U	109	U	121	U	23	U	5.76	U
Chloroethane	6.5	U	0.5	U	5.5	U	62.5	U	69.4	U	13.2	U	3.3	U
Chloroform	12	U	0.9	U	10	U	116	U	128	U	24.4	U	6.1	U
Chloromethane	5.1	U	0.4	U	4.3	U	48.9	U	54.3	U	10.3	U	2.58	U
cis-1,2-Dichloroethylene	9.7	U	0.2	U	2.1	U	94	U	104	U	19.8	U	4.96	U
cis-1,3-Dichloropropylene	11	U	0.9	U	9.5	U	108	U	119	U	22.7	U	5.67	U
Cyclohexane	8.5	U	25.8	D	7.2	U	81.6	U	90.5	U	17.2	U	4.3	U
Dibromochloromethane	21	U	1.6	U	18	U	202	U	224	U	42.6	U	10.6	U
Dichlorodifluoromethane	12	U	1.8	D	10	U	117	U	130	U	24.7	U	6.18	U
Ethanol	NT		NT		NT		NT		NT		NT		58.8	U
Ethyl acetate	18	U	1.4	U	15	U	213	U	237	U	45	U	11.2	U
Ethyl Benzene	11	U	69.4	D	9	U	103	U	114	U	21.7	U	5.43	U
Hexachlorobutadiene	26	U	2	U	22	U	253	U	281	U	53.3	U	13.3	U
Isopropanol	12	U	1	U	10	U	146	U	162	U	30.7	U	7.67	U
Methyl Methacrylate	10	U	0.8	U	8.5	U	242	U	NT		NT		NT	
Methyl tert-butyl ether (MTBE)	8.9	U	0.7	U	7.5	U	85.4	U	94.8	U	18	U	4.51	U
Methylene chloride	17	U	1.4	U	14	U	206	U	229	U	43.4	U	10.8	U
n-Heptane	10	U	45.1	D	8.5	U	97.1	U	108	U	20.5	U	5.12	U
n-Hexane	13	D	0.7	U	7.3	U	83.5	U	92.7	U	17.6	U	4.41	U
o-Xylene	11	U	95.5	D	9	U	103	U	114	U	21.7	U	5.43	U
p- & m- Xylenes	30	D	251.7	D	18	U	206	U	228	U	43.4	U	10.9	U
p-Ethyltoluene	12	U	68.8	D	10	U	117	U	129	U	24.6	U	6.15	U
Propylene	61	D	74	D	3.6	U	102	U	NT		NT		NT	
Styrene	10	U	0.8	U	8.9	U	101	U	112	U	21.3	U	5.32	U
Tertiary butyl Alcohol	NT		NT		NT		NT		NT		NT		9.46	U
Tetrachloroethylene	13,000	D	10,169	D	66,000	D	65,900	D	33,800		7,870		1,930	
Tetrahydrofuran	15	U	20.3	D	12	U	175	U	194	U	36.9	U	9.2	U
Toluene	35	D	218.5	D	7.8	U	89.3	U	99.1	U	18.8	U	4.71	U
trans-1,2-Dichloroethylene	9.7	U	0.8	U	8.3	U	94	U	104	U	19.8	U	4.96	U
trans-1,3-Dichloropropylene	11	U	0.9	U	9.5	U	108	U	143	U	22.7	U	5.67	U
Trichloroethylene	13	D	15	D	45	D	127	U	141	U	26.9	U	6.72	U
Trichlorofluoromethane (Freon 11)	14	U	1.1	U	12	U	133	U	148	U	28.1	U	7.02	U
Vinyl acetate	8.7	U	0.7	U	7.3	U	415	U	NT		NT		NT	
Vinyl bromide	11	U	0.8	U	9.1	U	104	U	115	U	21.9	U	5.47	U
Vinyl Chloride	6.3	U	0.1	U	1.3	U	60.6	U	67.2	U	12.8	U	3.2	U

Sample ID	SV-2		SV-2		SV-2		SV-2		SV-2		SV-2		SV-3		SV-3		SV-3		SV-6		SV-6		SV-6		SV-7		SV-7		SV-7		SV-7	
Sampling Date	11/23/2014		11/15/2018		10/9/2019		4/29/2020		1/21/2021		1/24/2022		11/23/2014		11/15/2018		10/9/2019		12/3/2015		11/15/2018		10/9/2019		12/3/2015		11/15/2018		10/9/2019		1/30/2021	
Client Matrix	Soil Vapor		Air		Air		Air		Air		Air		Soil Vapor		Air		Air		Soil Vapor		Air		Air		Soil Vapor		Air		Air		Air	
Compound	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Volatile Organics, EPA TO15 Full List	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	RL	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q
1,1,1-Trichloroethane	1.1	U	0.9	U	1.6	U	1.09	U	1.09	U	1.09	U	1.10	U	0.9	U	0.980	U	<6.2	U	3.7	U	0.960	U	<1.6	U	1.1	U	0.920	U	1.09	U
1,1,1,2-Tetrachloroethane	NT		1.1	U	2	U	1.37	U	NT		NT		NT		1.1	U	1.2	U	<7.9	U	4.6	U	1.200	U	<2	U	1.4	U	1.200	U	NT	
1,1,2,2-Tetrachloroethane	1.4	U	1.1	U	2	U	1.37	U	1.37	U	1.37	U	1.40	U	1.1	U	1.2	U	<7.9	U	4.6	U	1.200	U	<2	U	1.4	U	1.200	U	1.37	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.6	U	1.2	U	2.3	U	1.53	U	1.53	U	1.53	U	1.50	U	1.2	U	1.4	U	<8.8	U	5.1	U	1.300	U	<2.3	U	1.6	U	1.300	U	1.53	U
1,1,2-Trichloroethane	1.1	U	0.9	U	1.6	U	1.09	U	1.09	U	1.09	U	1.10	U	0.9	U	0.980	U	<6.2	U	3.7	U	0.960	U	<1.6	U	1.1	U	0.920	U	1.09	U
1,1-Dichloroethane	0.83	U	0.6	U	1.2	U	0.809	U	0.809	U	0.809	U	0.80	U	0.6	U	0.730	U	<4.6	U	2.7	U	0.710	U	<1.2	U	0.8	U	0.690	U	0.809	U
1,1-Dichloroethylene	0.82	U	0.2	U	0.3	U	105	U	0.793	U	0.793	U	0.78	U	0.2	U	0.180	U	<4.5	U	0.7	U	0.170	U	<1.2	U	0.2	U	0.170	U	0.793	U
1,2,4-Trichlorobenzene	1.5	U	1.2	U	2.2	U	1.48	U	1.48	U	1.48	U	1.50	U	1.2	U	1.3	U	<8.5	U	5.0	U	1.300	U	<2.2	U	1.6	U	1.300	U	1.48	U
1,2,4-Trimethylbenzene	6.5	D	54.1	D	3.8	D	0.983	U	2.3		1.94		9.60	D	2.2	D	0.890	U	<5.6	U	3.3	U	3.7	D	2.80	D	12.8	D	1.4	D	3.49	
1,2-Dibromoethane	1.6	U	1.2	U	2.3	U	1.54	U	1.54	U	1.54	U	1.50	U	1.2	U	1.4	U	<8.8	U	5.1	U	1.300	U	<2.3	U	1.6	U	1.300	U	1.54	U
1,2-Dichlorobenzene	1.2	U	0.962	U	1.8	U	1.2	U	1.2	U	1.2	U	1.20	U	1.0	U	1.1	U	<6.9	U	4.0	U	1.100	U	<1.8	U	1.3	U	1	U	1.2	U
1,2-Dichloroethane	0.83	U	0.6	U	1.2	U	0.809	U	0.809	U	0.809	U	0.80	U	0.6	U	0.73	U	<4.6	U	2.7	U	0.710	U	<1.2	U	0.8	U	0.690	U	0.809	U
1,2-Dichloropropane	0.95	U	0.7	U	1.4	U	0.924	U	0.924	U	0.924	U	0.91	U	0.7	U	0.83	U	<5.3	U	3.1	U	0.810	U	<1.4	U	1.0	U	0.780	U	0.924	U
1,2-Dichlorotetrafluoroethane (Freon 114)	1.4	U	1.1	U	2.1	U	1.4	U	1.4	U	1.4	U	1.40	U	1.1	U	1.3	U	<8	U	4.7	U	1.200	U	<2.1	U	1.5	U	1.200	U	1.4	U
1,3,5-Trimethylbenzene	2.1	D	15.7	D	1.5	D	1.35		0.983	U	0.983	U	2.70	D	0.9	D	0.89	U	<5.6	U	3.3	U	0.9	D	<1.5	U	5.4	D	0.830	U	0.983	U
1,3-Butadiene	0.89	U	1.1	U	2	U	0.442	U	0.442	U	0.442	U	0.86	U	1.1	U	1.2	U	<15	U	4.4	U	1.200	U	<3.8	U	1.4	U	1.100	U	0.442	U
1,3-Dichlorobenzene	1.2	U	1.0	U	1.8	U	1.20	U	1.20	U	1.2	U	1.20	U	1.0	U	1.1	U	<6.9	U	4.0	U	1.100	U	<1.8	U	1.3	U	1	U	1.2	U
1,3-Dichloropropane	NT		0.7	U	1.4	U	0.924	U	NT		NT		NT		0.7	U	0.83	U	<5.3	U	3.1	U	0.810	U	<1.4	U	1.0	U	0.780	U	NT	
1,4-Dichlorobenzene	1.2	U	1.0	U	1.8	U	1.2	U	1.2	U	1.2	U	1.20	U	1.0	U	1.1	U	<6.9	U	4.0	U	1.100	U	<1.8	U	1.3	U	1	U	1.2	U
1,4-Dioxane	0.74	U	1.2	U	2.1	U	0.721	U	0.721	U	0.721	U	0.71	U	1.2	U	1.3	U	<8.3	U	4.7	U	1.300	U	<2.1	U	1.5	U	1.200	U	0.721	U
2,2,4-Trimethylpentane	NT		NT		NT		NT		NT		0.934	U	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
2-Butanone	1.7	D	8.3	D	100	D	21.9		2.11		5.57		5.20	D	5.9	D	1.2	D	<3.4	U	4.7	D	5.1	D	1.30	D	15.3	D	6.8	D	3.54	
2-Hexanone	1.7	U	1.3	U	14	D	0.82	U	0.82	U	0.82	U	1.60	U	1.4	U	1.5	U	<9.4	U	5.3	U	1.400	U	<2.4	U	1.7	U	1.400	U	0.82	U
3-Chloropropene	NT		2.5	U	4.6	U	0.626	U	0.626	U	0.626	U	NT		2.6	U	2.8	U	<18	U	10.6	U	2.700	U	<4.6	U	3.4	U	2.600	U	0.626	U
4-Methyl-2-pentanone	0.84	U	0.7	U	1.2	U	2.05	U	2.05	U	2.05	U	0.81	U	0.9	D	0.740	U	<4.7	U	2.7	U	0.720	U	<1.2	U	0.9	U	0.690	U	2.05	U
Acetone	29	D	23.7	D	19	D	108		11.3		1,190		39	D	23.7	D	7	D	16	D	16.9	D	8.5	D	23	D	106.9	D	7.3	D	32.1	
Acrylonitrile	NT		0.3	U	0.64	U	1.09	U	NT		NT		NT		0.347	U	0.390	U	<2.5	U	1.5	U	0.380	U	<0.64	U	0.5	U	0.370	U	NT	
Benzene	2.4	D	5.7	D	0.94	U	1.03		1.83		1.11		5.10	D	3.8	D	0.580	U	<3.7	U	4.2	D	0.7	D	1.10	D	7.0	D	1.4	D	1.55	
Benzyl chloride	1.1	U	0.8	U	1.5	U	1.04	U	1.04	U	1.04	U	1	U	0.8	U	0.930	U	<5.9	U	3.5	U	0.910	U	<1.5	U	1.1	U	0.880	U	1.04	U
Bromodichloromethane	1.3	U	1.1	U	2	U	1.34	U	1.34	U	1.34	U	1.20	U	1.1	U	3	D	<7.1	U	4.5	U	1.200	U	<1.8	U	1.4	U	1.100	U	1.34	U
Bromoform	2.1	U	1.7	U	3.1	U	2.07	U	2.07	U	2.07	U	2	U	1.7	U	1.9	U	<12	U	6.9	U	1.800	U	<3.1	U	2.2	U	1.700	U	2.07	U
Bromomethane	0.80	U	0.6	U	1.1	U	0.777	U	0.777	U	0.777	U	0.77	U	0.6	U	0.7	U	<4.4	U	2.6	U	0.680	U	<1.1	U	0.8	U	0.660	U	0.777	U
Carbon disulfide	0.90	D	3.4	D	3	D	42.4		24.1		20.4		3	D	5.6	D	2	D	7.10	D	3.1	D	0.7	D	11	D	26.8	D	0.7	D	0.623	U
Carbon tetrachloride	0.32	U	0.3	U	0.46	U	1.26	U	1.26	U	1.26	U	0.31	U	0.3	U	0.9	D	<1.8	U	1.1	U	0.6	D	<0.47	U	0.3	U	0.270	U	1.26	U
Chlorobenzene	0.95	U	0.7	U	1.4	U	0.921	U	0.921	U	0.921	U	0.91	U	0.7	U	0.83	U	<5.3	U	3.1	U	0.810	U	<1.4	U	1.0	U	0.780	U	0.921	U
Chloroethane	0.54	U	0.4	U	0.78	U	0.528	U	0.528	U	0.528	U	0.52	U	0.4	U	0.48	U	<3	U	1.8	U	0.460	U	<0.78	U	0.6	U	0.450	U	0.528	U
Chloroform	3.80	D	20.5	D	95	D	11.4		13.1		49.8		4.30	D	19.5	D	260	D	320	D	385.6	D	1.8	D	220	D	3.3	D	12	D	1.95	
Chloromethane	0.42	U	0.3	U	0.61	U	0.413	U	0.413	U	0.65		1	D	0.3	U	0.37	U	<2.4	U	1.4	U	1	D	<0.61	U	0.4	U	0.5	D	0.419	
cis-1,2-Dichloroethylene	0.82	U	0.2	U	0.29	U	0.793	U	0.793	U	0.793	U	0.78	U	0.2	U	0.18	U	<4.5	U	0.7	U	0.170	U	<1.2	U	15.5	D	14	D	1.36	
cis-1,3-Dichloropropylene	0.93	U	0.7	U	1.3	U	0.908	U	0.908	U	0.908	U	0.90	U	0.7	U	0.82	U	<5.2	U	3.0	U	0.800	U	<1.3	U	1.0	U	0.770	U	0.908	U
Cyclohexane	1.30	D	8.9	D	1	U	0.688	U	0.688	U	0.688	U	3.40	D	15.5	D	0.9	D	<3.9	U	6.9	D	0.600	U	<1	U	34.4	D	0.6	D	0.933	
Dibromochloromethane	1.70	U	1.4	U	2.5	U	1.7	U	1.7	U	1.7	U	1.60	U	1.4	U	1.5	U	<9.2	U	5.7	U	1.500	U	<2.4	U	1.8	U	1.400	U	1.7	U
Dichlorodifluoromethane	2.50	D	2.1	D	2.5	D	2.05		1.99		2.86		2.20	D	1.9	D	2.3	D	<5.7	U	3.3	U	2.2	D	4.50	D	1.9	D	1.8	D	2.26	
Ethanol	NT		NT		NT		NT		NT		14.9		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
Ethyl acetate	1.50	U	1.2	U	2.1	U	1.80	U	1.80	U	1.8	U	1.40	U	1.2	U	1.3	U	<8.3	U	4.7	U	1.300	U	<2.1	U	1.6	D	1.200	U	1.8	U
Ethyl Benzene	8.70	D	38.2	D	2.2	D	1.22		3.81		1.31		8.70	D	6.1	D	0.78	U	<5	U	14.8	D	0.8	D	4.20	D	22.1	D	0.8	D	2.97	
Hexachlorobutadiene	2.20	U	1.7	U	3.2	U	2.13	U	2.13	U	2.13	U	2.10	U	1.7	U	1.9	U	<12	U	7.1	U	1.900	U	<3.2	U	2.2	U	1.800	U	2.13	U
Isopropanol	9.10	D	2.7	D	1.5	U	13.6		1.23	U	31.5		82	D	11.3	D	1.2	D	<5.6	U	3.2	U	1.9	D	4.50	D	7.1	D	0.830	U	1.23	U
Methyl Methacrylate	0.84	U	1.4	D	9.7	D	2.05	U	NT		NT		0.81	U	0.7	D	6.7	D	<4.7	U	2.7	U	9.8	D	<1.2	U	0.9	U	1.7	D	NT	
Methyl tert-butyl ether (MTBE)	0.74	U	0.6	U	1.1	U	0.721	U	0.721	U	0.721	U	0.71	U	0.6	U	0.65	U	<4.1	U	2.4	U	0.630	U	<1.1	U	0.8	U	0.610	U	0.721	U
Methylene chloride	22	B(1)D	16.0	D	55	D	1.74	U	1.74	U	2.42		6.7	B(1)D	1.1	U	21	D	<8	U	4.5	U	72	D	<2.1	U	8.0	D	8.3	D	1.74	U
n-Heptane	4.30	D	16.8	D	4.1	D	2.57		3.99		1.18		6.5	D	9.8	D	0.74	U	<4.7	U	12.7	D	0.720	U	<1.2	U	24.6	D	0.690	U	4.34	
n-Hexane	4.30	D	10.9	D	1	U	1.19		2.36		1.49		13	D	11.3	D	0.64	U	<4	U	9.5	D	1.1	D	<1	U	88.1	D	1.2	D	2.12	
o-Xylene	11	D	69.4	D	3.3	D	1.13		4.34		1.9		11	D	7.8	D	0.78	U	<5	U	16.1	D	1.4	D	3.60	D	34.7	D	1.3	D	4.52	
p- & m- Xylenes	32	D	143.2	D	6.5	D	3.17		13.8		539		33	D	17.8	D	1.60	U	<9.9	U	35.6	D	2.5	D	24	D	69.4	D	2.6	D	11.4	
p-Ethyltoluene	8.10	D	54.1	D	3	D	0.983	U	0.983	U	0.983	U	9.40	D	3.3	D	0.89	U	<5.6	U	4.3	D	1.8	D	3.10	D	15.2	D	1	D	0.983	U
Propylene	0.35	U	1.0	D	0.51	U	7.00		NT		NT		0.34	U	2.4	D	0.31	U	<2	U	2.9	D	0.300	U	<0.51	U	55.1	D	0.290	U	NT	
Styrene	0.88	U	0.7	U	2.8	D	4.64		0.852	U	0.852	U	0.84	U	0.7	U	0.77	U	<4.9	U	2.9	U	1	D	<1.3	U	0.9	U	0.720	U	0.852	U
Tertiary butyl Alcohol	NT		NT		NT		NT		NT		8.03		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
Tetrachloroethylene	370	B(2)D	5,085	D	1,400	D	336		155		198		10	B(2)D	2.8	D	18	D	130	D	41.4	D	1.1	D	72	D	35.9	D	110	D	1.36	U
Tetrahydrofuran	0.61	U	11.2	D	7.4	D	5.31		3.13		1.55		5.20	D	5.0	D	1.1	U	<6.8	U	5.6	D	31	D	<1.7	U	8.8	D	47	D	1.47	U
Toluene	31	D	109.2	D	3.1	D	4.97		23.4		7.08		41	D	35.8	D	0.7	D	17	D	67.8	D	1.8	D	80	D	94.2	D	1.9	D	16.3	
trans-1,2-Dichloroethylene	0.82	U	0.6	U	1.200	U	0.793	U	0.793	U	0.793	U	0.78	U	0.6	U	0.72	U	<4.5	U	2.7	U	0.700	U	<1.2	U	14.3	D	13	D	1.52	
trans-1,3-Dichloropropylene	0.93	U	0.7	U	1.300	U	0.908	U	0.908	U	0.908	U	0.90	U	0.7	U	0.82	U	<5.2	U	3.0	U	0.800	U	<1.3	U	1.0	U	0.770	U	0.908	U
Trichloroethylene	17	D	59.1	D	21	D	6.56		4.73		10.7		0.64	D	1.0	D	5.1	D	<1.5	U	0.9	U	0.240	U	4.10	D	8.6	D	68	D	8.6	
Trichlorofluoromethane (Freon 11)	1.60	D	1.1	D	1.7	D	1.12	U	1.21		26.6		3.10	D	1.2	D	1.6	D	<6.4	U	3.8	U	1.5	D	2.70	D	1.2	U	1.6	D	1.16	
Vinyl acetate	0.72	U	0.6	U	1	U	3.52	U	NT		NT		0.70	U	0.6	U	0.64	U	<4	U	2.4	U	0.620	U	<1	U	0.7	U	0.600	U	NT	
Vinyl bromide	NT		0.7	U	1.3	U	0.874	U	0.874	U	0.874	U	NT		0.7	U	0.79	U	<5	U	2.9	U	0.770	U	<1.3	U	0.9	U	0.740	U	0.874	U
Vinyl Chloride	0.13	U	0.1	U	0.2	U	0.511	U	0.511	U	0.511	U	0.13	U	0.1	U	0.12	U	<2.9	U	0.4	U	0.110	U	<0.76	U	0.1	U	0.110	U	0.511	U

Sample ID	SV-8		SV-8		SV-8		SV-8		SV-8		SV-8		SV-9		SV-9		SV-9		SV-9		SV-9		SV-9	
Sampling Date	10/17/2016		11/15/2018		10/9/2019		4/28/2020		1/21/2021		1/24/2022		10/17/2016		11/15/2018		10/9/2019		4/28/2020		1/21/2021		1/10/2022	
Client Matrix	Soil Vapor		Air		Air		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Air		Air		Soil Vapor		Soil Vapor		Soil Vapor	
Compound	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Volatile Organics, EPA TO15 Full List	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q
1,1,1-Trichloroethane	13	U	0.8	U	3.700	U	2.18	U	1.09	U	1.4	U	14	U	0.9	U	8	U	145	U	1.09	U	1.09	U
1,1,1,2-Tetrachloroethane	16	U	1.0	U	4.600	U	2.75	U	NT	U	NT		17	U	1.2	U	10	U	183	U	NT		NT	
1,1,2,2-Tetrachloroethane	16	U	1.0	U	4.600	U	2.75	U	1.37	U	1.76	U	17	U	1.2	U	10	U	183	U	1.37	U	137	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	18	U	1.1	U	5.200	U	3.07	U	1.53	U	1.96	U	19	U	1.3	U	11	U	204	U	1.53	U	1.53	U
1,1,2-Trichloroethane	13	U	0.8	U	3.700	U	2.18	U	1.09	U	1.4	U	14	U	0.9	U	8	U	145	U	1.09	U	1.09	U
1,1-Dichloroethane	9.70	U	0.6	U	2.700	U	1.62	U	0.809	U	1.04	U	10	U	0.7	U	5.900	U	108	U	0.809	U	0.809	U
1,1-Dichloroethylene	9.50	U	0.1	U	0.670	U	1.59	U	0.793	U	1.01	U	10	U	0.2	U	1.500	U	105	U	0.793	U	0.793	U
1,2,4-Trichlorobenzene	20	D	1.0	U	5	U	2.97	U	1.48	U	1.9	U	19	U	1.3	U	11	U	197	U	1.48	U	1.48	U
1,2,4-Trimethylbenzene	12	U	0.8	D	3.300	U	4.45		2.3		1.58	U	12	U	0.8	U	7.200	U	131	U	3.84		0.983	U
1,2-Dibromoethane	18	U	1.1	U	5.200	U	3.07	U	1.54	U	1.97	U	19	U	1.3	U	11	U	204	U	1.54	U	1.54	U
1,2-Dichlorobenzene	14	U	0.8	U	4	U	2.4	U	1.2	U	1.54	U	15	U	1.0	U	8.800	U	160	U	1.2	U	1.2	U
1,2-Dichloroethane	9.70	U	0.6	U	2.700	U	1.62	U	0.809	U	1.04	U	10	U	0.7	U	5.900	U	108	U	0.809	U	0.809	U
1,2-Dichloropropane	11	U	0.6	U	3.100	U	1.85	U	0.924	U	1.18	U	12	U	0.8	U	6.800	U	123	U	0.924	U	0.924	U
1,2-Dichlorotetrafluoroethane (Freon 114)	17	U	1.0	U	4.700	U	2.8	U	1.4	U	1.79	U	18	U	1.2	U	10	U	186	U	1.4	U	1.4	U
1,3,5-Trimethylbenzene	12	U	0.7	U	3.300	U	1.97	U	0.983	U	1.26	U	12	U	0.8	U	7.200	U	131	U	0.983	U	0.983	U
1,3-Butadiene	16	U	1.0	U	4.500	U	0.885	U	0.442	U	0.566	U	17	U	1.1	U	9.700	U	58.8	U	0.442	U	0.442	U
1,3-Dichlorobenzene	14	U	0.8	U	4	U	2.40	U	1.20	U	1.54	U	15	U	1.0	U	8.800	U	160	U	1.20	U	1.2	U
1,3-Dichloropropane	11	U	0.6	U	3.100	U	1.85	U	NT	U	NT		12	U	0.8	U	6.800	U	123	U	NT	U	NT	
1,4-Dichlorobenzene	14	U	0.8	U	4	U	2.40	U	1.20	U	1.54	U	15	U	1.0	U	8.800	U	160	U	1.20	U	1.2	U
1,4-Dioxane	17	U	1.0	U	4.900	U	1.44	U	0.721	U	0.923	U	18	U	1.2	U	11	U	95.9	U	0.721	U	0.721	U
2,2,4-Trimethylpentane	NT		NT		NT		NT		NT		1.51		NT		NT		NT		NT		NT		0.934	U
2-Butanone	7.80	D	2.0	D	100	D	38.3		3.13		10.3		7.40	U	1.0	D	4.300	U	196	U	1.47	U	1.47	U
2-Hexanone	20	U	1.2	U	5.500	U	3.11		0.820		1.05	U	21	U	1.4	U	12	U	109	U	0.820	U	0.82	U
3-Chloropropene	38	U	2.3	U	11	U	1.25	U	0.626	U	0.801	U	39	U	2.6	U	23	U	83.3	U	0.626	U	0.626	U
4-Methyl-2-pentanone	9.80	U	0.8	D	2.800	U	4.1	U	2.05	U	2.63	U	10	U	0.7	U	6	U	273	U	2.05	U	2.05	U
Acetone	59	D	19.9	D	16	D	29.2		11.5		1,450		37	D	6.4	D	7	U	316	U	7.63		6.91	
Acrylonitrile	5.20	U	0.3	U	1.500	U	2.17	U	NT		NT		5.50	U	0.4	U	3.200	U	144	U	NT	U	NT	
Benzene	7.70	U	0.9	D	2.200	U	1.28	U	2.39		1.79		8.10	U	0.9	D	4.700	U	85.0	U	1.04		0.661	
Benzyl chloride	12	U	0.7	U	3.500	U	2.07	U	1.04	U	1.33	U	13	U	0.9	U	7.600	U	138	U	1.04	U	1.04	U
Bromodichloromethane	16	D	0.9	U	4.500	U	2.68	U	1.34	U	1.72	U	17	U	1.1	U	9.800	U	178	U	1.34	U	1.34	U
Bromoform	25	U	1.4	U	7	U	4.14	U	2.07	U	2.65	U	26	U	1.8	U	15	U	275	U	2.07	U	2.07	U
Bromomethane	9.30	U	0.5	U	2.600	U	1.55	U	0.777	U	0.994	U	9.80	U	0.7	U	5.700	U	103	U	0.777	U	0.777	U
Carbon disulfide	7.50	U	0.4	U	4.2	D	88.8		16.4		9.65		7.80	U	0.5	U	62	D	82.8	U	0.623	U	0.623	U
Carbon tetrachloride	3.80	U	0.2	U	1.100	U	2.52	U	1.26	U	1.61	U	4	U	0.3	U	2.300	U	167	U	1.26	U	1.26	U
Chlorobenzene	11	U	0.6	U	3.100	U	1.84	U	0.921	U	1.18	U	12	U	0.8	U	6.800	U	123	U	0.921	U	0.921	U
Chloroethane	6.30	U	0.4	U	1.800	U	1.06	U	0.528	U	0.676	U	6.60	U	0.4	U	3.900	U	70.2	U	0.528	U	0.528	U
Chloroform	430	D	3.1	D	58	D	17.6		5.66		6.74		23	D	0.8	U	7.200	U	130	U	0.977	U	0.977	U
Chloromethane	5	U	0.3	U	1.400	U	0.826	U	0.413	U	0.529	U	5.20	U	0.4	U	3	U	54.9	U	0.413	U	0.413	U
cis-1,2-Dichloroethylene	7,400	D	22.2	D	1200.0	D	706		255		204		29	D	0.2	U	1.500	U	105	U	0.793	U	0.793	U
cis-1,3-Dichloropropylene	11	U	0.6	U	3.100	U	1.82	U	0.908	U	1.16	U	11	U	0.8	U	6.700	U	121	U	0.908	U	0.908	U
Cyclohexane	8.30	U	0.5	D	2.300	U	1.38	U	0.785		0.881	U	8.70	U	0.6	U	5	U	91.6	U	0.688	U	0.688	U
Dibromochloromethane	20	U	1.2	U	5.700	U	3.41	U	1.7	U	2.18	U	21	U	1.4	U	12	U	227	U	1.7	U	1.7	U
Dichlorodifluoromethane	25	D	2.0	D	3.7	D	2.25		2.11		2.61		12	U	2.1	D	7.300	U	132	U	2.22		1.88	
Ethanol	NT		NT		NT		NT		NT		13.2		NT		NT		NT		NT		NT		9.42	U
Ethyl acetate	17	U	4.3	D	4.900	U	3.60	U	1.80	U	2.31	U	18	U	1.2	U	11	U	240	U	1.8	U	1.8	U
Ethyl Benzene	10	U	1.6	D	2.900	U	2.40		4.20		1.33		11	U	0.7	U	6.400	U	116	U	3.66		1.35	U
Hexachlorobutadiene	31	D	1.5	U	7.200	U	4.27	U	2.13	U	2.73	U	27	U	1.8	U	16	U	284	U	2.13	U	2.13	U
Isopropanol	12	U	18.9	D	3.300	U	2.46	U	1.23	U	6.61		12	U	0.8	U	7.200	U	163	U	1.23	U	1.23	U
Methyl Methacrylate	9.80	U	2.3	D	2.800	U	4.09	U	NT	U	NT		10	U	0.7	U	6	U	272	U	NT		NT	
Methyl tert-butyl ether (MTBE)	8.70	U	0.5	U	2.400	U	1.44	U	0.721	U	0.923	U	9.10	U	0.6	U	5.300	U	95.9	U	0.721	U	0.721	U
Methylene chloride	17	U	10.4	D	4.700	U	3.47	U	1.74	U	2.44		18	U	1.2	U	35	D	231	U	1.74	U	1.74	U
n-Heptane	9.80	U	0.6	U	2.800	U	1.64	U	5.16		2.38		10	U	0.7	U	6	U	109	U	2.28		0.82	U
n-Hexane	8.50	U	1.4	D	2.400	U	1.41	U	3.06		3.24		8.90	U	0.8	D	5.200	U	93.7	U	1.28		1.46	
o-Xylene	10	U	1.4	D	2.900	U	3.73		4.65		1.72		11	U	0.7	U	6.400	U	116	U	4.91		1.61	
p- & m- Xylenes	21	U	4.8	D	5.800	U	7.95		14.9		5.08		22	U	1.5	D	13	U	231	U	15.2		3.99	
p-Ethyltoluene	12	U	0.8	D	3.300	U	1.97	U	0.983	U	1.26	U	12	U	0.8	U	7.200	U	131	U	0.983	U	0.983	U
Propylene	4.10	U	0.8	D	1.200	U	3.98		NT		NT		4.30	U	1.0	D	2.500	U	114	U	NT		NT	
Styrene	10	U	0.6	U	2.900	U	3.11		0.852		1.09	U	11	U	0.7	U	6.200	U	113	U	0.852	U	0.852	U
Tertiary butyl Alcohol	NT		NT		NT		NT		NT		7.82		NT		NT		NT		NT		NT		21.9	
Tetrachloroethylene	37,000	D	813.6	D	320	D	915		110		16.3		280,000	D	3.5	D	160,000	D	56,900		68.5		61.3	
Tetrahydrofuran	14	U	0.9	U	23	D	4.25		4.66		2.87		15	U	1.0	U	8.700	U	196	U	1.47	U	1.47	U
Toluene	9	U	10.5	D	3.6	D	8.86		27.4		8.67		9.50	U	7.9	D	5.500	U	100	U	23		4.82	
trans-1,2-Dichloroethylene	21	D	0.6	U	15	D	10.5		4.96		5.63		10	U	0.7	U	5.800	U	105	U	0.793	U	0.793	U
trans-1,3-Dichloropropylene	11	U	0.6	U	3.100	U	1.82	U	0.908	U	1.16	U	11	U	0.8	U	6.700	U	121	U	0.908	U	0.908	U
Trichloroethylene	6,000	D	41.4	D	320	D	228		64.5		38.4		900	D	0.2	U	61	D	143	U	1.07	U	1.07	U
Trichlorofluoromethane (Freon 11)	13	U	1.3	D	3.800	U	2.25	U	1.24		1.94		14	U	1.0	U	8.200	U	149	U	1.24		1.12	U
Vinyl acetate	8.50	U	0.5	U	2.400	U	7.04	U	NT		NT		8.90	U	0.6	U	5.200	U	468	U	NT		NT	
Vinyl bromide	10	U	0.6	U	2.900	U	1.75	U	0.874	U	1.12	U	11	U	0.7	U	6.400	U	116	U	0.874	U	0.874	U
Vinyl Chloride	50	D	0.1	U	1.9	D	1.02	U	0.511	U	0.654	U	6.40	U	0.1	U	0.940	U	68	U	0.511	U	0.511	U

Sample ID	SV-10		SV-10		SV-10		SV-11		SV-11		SV-11		SV-11		SV-11		SV-12		SV-12		SV-12		SV-12		SV-13		SV-13	
Sampling Date	10/17/2016		11/15/2018		10/9/2019		10/17/2016		11/15/2018		10/9/2019		1/21/2021		1/24/2022		10/17/2016		10/9/2019		1/21/2021		1/10/2022		10/17/2016		10/9/2019	
Client Matrix	Soil Vapor		Air		Air		Soil Vapor		Air		Air		Soil Vapor		Soil Vapor		Soil Vapor		Air		Soil Vapor		Soil Vapor		Soil Vapor		Air	
Compound	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Volatile Organics, EPA TO15 Full List	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q	$\mu g/m^3$	Q
1,1,1-Trichloroethane	13	U	0.7	U	0.850	U	12	U	0.7	U	0.950	U	1.09	U	1.09	U	13	U	6.500	D	2.40		1.09	U	14	U	2.4	D
1,1,1,2-Tetrachloroethane	16	U	0.9	U	1.100	U	15	U	0.9	U	1.200	U	NT		NT		16	U	1.200	U	NT		NT		18	U	1.200	U
1,1,2,2-Tetrachloroethane	16	U	0.9	U	1.100	U	15	U	0.9	U	1.200	U	1.37	U	1.37	U	16	U	1.200	U	1.37	U	1.37	U	18	U	1.200	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	18	U	1.0	U	1.200	U	17	U	1.0	U	1.300	U	1.53	U	1.53	U	18	U	1.300	U	1.53	U	1.53	U	20	U	1.400	U
1,1,2-Trichloroethane	13	U	0.7	U	0.850	U	12	U	0.7	U	0.950	U	1.09	U	1.09	U	13	U	0.940	U	1.09	U	1.09	U	14	U	0.980	U
1,1-Dichloroethane	9.60	U	0.5	U	0.630	U	8.80	U	0.5	U	0.710	U	0.809	U	0.809	U	9.40	U	0.690	U	0.809	U	0.809	U	11	U	0.730	U
1,1-Dichloroethylene	9.40	U	0.1	U	0.150	U	8.60	U	0.1	U	0.170	U	0.793	U	0.793	U	9.20	U	0.170	U	0.793	U	0.793	U	11	U	0.180	U
1,2,4-Trichlorobenzene	18	U	1.0	U	1.200	U	16	U	1.0	U	1.300	U	1.48	U	1.48	U	17	U	1.300	U	1.48	U	1.48	U	20	U	1.300	U
1,2,4-Trimethylbenzene	12	U	20.1	D	39	D	11	U	0.9	D	4.5	D	2.52		1.26		11	U	0.840	U	0.983	U	0.983	U	13	U	0.880	U
1,2-Dibromoethane	18	U	1.0	U	1.200	U	17	U	1.0	U	1.300	U	1.54	U	1.54	U	18	U	1.300	U	1.54	U	1.54	U	20	U	1.400	U
1,2-Dichlorobenzene	14	U	0.8	U	0.940	U	13	U	0.8	U	1	U	1.2	U	1.2	U	14	U	1	U	1.2	U	1.2	U	16	U	1.100	U
1,2-Dichloroethane	9.60	U	0.5	U	1.6	D	8.80	U	0.5	U	0.710	U	0.809	U	0.809	U	9.40	U	0.690	U	0.809	U	0.809	U	11	U	0.730	U
1,2-Dichloropropane	11	U	0.6	U	0.720	U	10	U	0.6	U	0.810	U	0.924	U	0.924	U	11	U	0.790	U	0.924	U	0.924	U	12	U	0.830	U
1,2-Dichlorotetrafluoroethane (Freon 114)	17	U	0.9	U	1.100	U	15	U	0.9	U	1.200	U	1.4	U	1.4	U	16	U	1.200	U	1.4	U	1.4	U	19	U	1.300	U
1,3,5-Trimethylbenzene	12	U	5.4	D	12	D	11	U	0.6	U	1.5	D	1.02		0.983	U	11	U	0.840	U	0.983	U	0.983	U	13	U	0.880	U
1,3-Butadiene	16	U	0.9	U	1	U	14	U	0.9	U	1.200	U	0.442	U	0.442	U	15	U	1.100	U	0.442	U	0.442	U	18	U	1.200	U
1,3-Dichlorobenzene	14	U	0.8	U	0.940	U	13	U	0.8	U	1	U	1.20	U	1.4	U	14	U	1	U	1.20	U	1.2	U	16	U	1.100	U
1,3-Dichloropropane	11	U	0.6	U	0.720	U	10	U	0.6	U	0.810	U	NT	U	NT		11	U	0.790	U	NT	U	NT		12	U	0.830	U
1,4-Dichlorobenzene	14	U	0.8	U	0.940	U	13	U	0.8	U	1	U	1.20	U	1.2	U	14	U	1	U	1.20	U	1.2	U	16	U	1.100	U
1,4-Dioxane	17	U	1.0	U	1.100	U	16	U	0.9	U	1.300	U	0.721	U	0.721	U	17	U	1.200	U	0.721	U	0.721	U	19	U	1.300	U
2,2,4-Trimethylpentane	NT		NT		NT		NT		NT		NT		NT		0.934	U	NT		NT		NT		0.934	U	NT		NT	
2-Butanone	7	U	6.2	D	0.8	D	6.40	U	2.4	D	130	D	14.3		5.78		6.90	U	0.510	U	1.470	U	1.47	U	7.80	U	0.530	U
2-Hexanone	19	U	1.1	U	1.300	U	18	U	1.1	U	29	D	0.820	U	0.82	U	19	U	1.400	U	0.820	U	0.82	U	22	U	1.500	U
3-Chloropropene	37	U	2.1	U	2.400	U	34	U	2.0	U	2.700	U	0.626	U	0.626	U	37	U	2.700	U	0.626	U	0.626	U	42	U	2.800	U
4-Methyl-2-pentanone	9.70	U	0.5	U	1.1	D	8.90	U	1.0	D	0.710	U	2.05	U	2.05	U	9.60	U	0.700	U	2.05	U	2.05	U	11	U	0.740	U
Acetone	16	D	22.1	D	36	D	27	D	23.7	D	21	D	8.41		5.84		47	D	1.3	D	5.99		9.48		30	D	3.1	D
Acrylonitrile	5.20	U	0.3	U	0.340	U	4.70	U	0.3	U	0.380	U	NT	U	NT		5.10	U	0.370	U	NT		NT		5.80	U	0.390	U
Benzene	7.60	U	4.2	D	1.9	D	6.90	U	0.8	D	1.4	D	0.821		0.639	U	7.50	U	0.550	U	0.639	U	0.639	U	8.50	U	0.570	U
Benzyl chloride	12	U	0.7	U	0.810	U	11	U	0.7	U	0.900	U	1.04	U	1.04	U	12	U	0.890	U	1.04	U	1.04	U	14	U	0.930	U
Bromodichloromethane	16	U	0.9	U	1	U	15	U	0.9	U	1.200	U	1.34	U	1.34	U	16	U	1.100	U	1.34	U	1.34	U	18	U	1.200	U
Bromoform	25	U	1.3	U	1.600	U	22	U	1.3	U	1.800	U	2.07	U	2.07	U	24	U	1.800	U	2.07	U	2.07	U	27	U	1.900	U
Bromomethane	9.20	U	0.5	U	0.600	U	8.40	U	0.5	U	0.680	U	0.777	U	0.777	U	9.10	U	0.670	U	0.777	U	0.777	U	10	U	0.700	U
Carbon disulfide	7.40	U	9.0	D	100	D	6.80	U	0.4	U	4.4	D	0.732		1.62		7.30	U	0.530	U	0.623	U	0.623	U	8.30	U	0.9	D
Carbon tetrachloride	3.70	U	0.2	U	0.3	D	3.40	U	0.2	U	0.7	D	1.26	U	1.26	U	3.70	U	0.270	U	1.26	U	1.26	U	4.20	U	0.280	U
Chlorobenzene	11	U	0.6	U	0.720	U	10	U	0.6	U	0.800	U	0.921	U	0.921	U	11	U	0.790	U	0.921	U	0.921	U	12	U	0.830	U
Chloroethane	6.30	U	0.3	U	0.410	U	5.70	U	0.3	U	0.460	U	0.528	U	0.528	U	6.20	U	0.450	U	0.528	U	0.528	U	7	U	0.470	U
Chloroform	12	U	3.9	D	0.8	D	32	D	0.9	D	26	D	5.62		11.3		11	U	0.9	D	0.977	U	0.977	U	13	U	1.4	D
Chloromethane	4.90	U	0.3	U	0.320	U	4.50	U	0.3	U	0.4	D	0.413	U	0.413	U	4.80	U	0.350	U	0.413	U	0.985		5.50	U	0.370	U
cis-1,2-Dichloroethylene	9.40	U	0.1	U	0.150	U	8.60	U	0.1	U	0.170	U	0.793	U	0.793	U	9.20	U	0.170	U	0.793	U	0.793	U	11	U	0.180	U
cis-1,3-Dichloropropylene	11	U	0.6	U	0.710	U	9.90	U	0.6	U	0.790	U	0.908	U	0.908	U	11	U	0.780	U	0.908	U	0.908	U	12	U	0.820	U
Cyclohexane	8.20	U	9.3	D	0.8	D	7.50	U	0.4	D	0.8	D	0.688	U	0.688	U	8	U	0.590	U	0.688	U	0.688	U	9.10	U	0.620	U
Dibromochloromethane	20	U	1.1	U	1.300	U	19	U	1.1	U	1.500	U	1.7	U	1.7	U	20	U	1.500	U	1.7	U	1.7	U	23	U	1.500	U
Dichlorodifluoromethane	12	U	1.9	D	1.8	D	11	U	2.0	D	2.2	D	2.19		2.64		12	U	1.9	D	2.09		1.99		13	U	1.4	D
Ethanol	NT		NT		NT		NT		NT		NT		NT		9.42	U	NT		NT		NT		10.6		NT		NT	
Ethyl acetate	17	U	1.0	U	1.100	U	16	U	6.5	D	1.300	U	1.800	U	1.8	U	17	U	1.200	U	1.800	U	1.8	U	19	U	1.300	U
Ethyl Benzene	10	U	20.4	D	6.8	D	9.40	U	2.0	D	3.3	D	5.52		0.869	U	10	U	0.740	U	0.869	U	0.869	U	12	U	0.780	U
Hexachlorobutadiene	25	U	1.4	U	1.700	U	23	U	1.4	U	1.900	U	2.13	U	2.13	U	25	U	1.800	U	2.13	U	2.13	U	28	U	1.900	U
Isopropanol	12	U	0.7	U	0.760	U	11	U	16.5	D	1.9	D	1.23	U	3.79		11	U	0.840	U	1.23	U	2.22		13	U	1.1	D
Methyl Methacrylate	9.70	U	0.5	U	5.9	D	8.90	U	1.8	D	0.710	U	NT	U	NT		9.60	U	3.4	D	NT		NT		11	U	16	D
Methyl tert-butyl ether (MTBE)	8.60	U	0.5	U	0.560	U	7.80	U	0.5	U	0.630	U	0.721	U	0.721	U	8.40	U	0.620	U	0.721	U	0.721	U	9.60	U	0.650	U
Methylene chloride	17	U	0.9	U	68	D	15	U	21.9	D	2.1	D	1.74	U	1.74	U	16	U	11	D	1.74	U	1.74	U	18	U	180	D
n-Heptane	9.70	U	11.9	D	2.4	D	8.90	U	0.5	U	4.1	D	1.61		0.82	U	9.60	U	0.700	U	0.820	U	0.82	U	11	U	0.740	U
n-Hexane	8.40	U	8.8	D	0.8	D	7.70	U	1.9	D	1.4	D	1.32		0.705	U	8.20	U	0.600	U	0.705	U	0.705	U	9.40	U	0.630	U
o-Xylene	10	U	27.3	D	16	D	9.40	U	1.8	D	5.1	D	9.16		1.02		10	U	0.740	U	0.869	U	0.947		12	U	0.780	U
p- & m- Xylenes	21	U	69.4	D	33	D	19	U	6.1	D	11	D	25.9		270		20	U	1.500	U	1.740	U	2.47		23	U	1.600	U
p-Ethyltoluene	12	U	18.7	D	21	D	11	U	0.9	D	3.9	D	1.13		0.983	U	11	U	0.840	U	0.983	U	0.983	U	13	U	0.880	U
Propylene	4.10	U	8.4	D	0.270	U	3.70	U	0.9	D	0.300	U	0.300	U	NT		4	U	0.300	U	NT	U	NT		4.60	U	0.310	U
Styrene	10	U	0.6	U	1.4	D	9.30	U	0.6	U	2.4	D	0.9	U	0.852	U	9.90	U	0.730	U	0.852	U	0.852	U	11	U	0.770	U
Tertiary butyl Alcohol	NT		NT		NT		NT		NT		NT		NT		2.41		NT		NT		NT		1.52	U	NT		NT	
Tetrachloroethylene	4,400	D	21.0	D	280	D	2,100	D	5.2	D	220	D	103		76.6		14	D	9.7	D	2.43		1.36	U	9	D	3.9	D
Tetrahydrofuran	14	U	6.5	D	0.920	U	13	U	0.8	U	3	D	1.47	U	1.47	U	14	U	1	U	1.47	U	5.01		16	U	1.100	U
Toluene	9	U	71.6	D	14	D	8.20	U	15.1	D	7.4	D	21.5		2.43		8.80	U	0.650	U	0.754	U	3.48		10	U	0.680	U
trans-1,2-Dichloroethylene	9.40	U	0.5	U	0.620	U	8.60	U	0.5	U	0.690	U	0.793	U	0.793	U	9.20	U	0.680	U	0.793	U	0.793	U	11	U	0.710	U
trans-1,3-Dichloropropylene	11	U	0.6	U	0.710	U	9.90	U	0.6	U	0.790	U	0.908	U	0.908	U	11	U	0.780	U	0.908	U	0.908	U	12	U	0.820	U
Trichloroethylene	13	D	0.2	U	1.5	D	2.90	U	0.2	U	2.2	D	1.07	U	1.07	U	3.10	U	0.230	U	1.070	U	1.07	U	3.60	U	0.240	U
Trichlorofluoromethane (Freon 11)	13	U	1.0	D	1.4	D	12	U	1.3	D	2.3	D	1.41		7.19		13	U	1.5	D	1.21		1.12	U	15	U	1.4	D
Vinyl acetate	8.40	U	0.5	U	0.550	U	7.60	U	0.5	U	0.610	U	NT		NT		8.20	U	0.600	U	NT		NT		9.30	U	0.630	U
Vinyl bromide	10	U	0.6	U	0.680	U	9.50	U	0.6	U	0.760	U	0.874	U	0.874	U	10	U	0.750	U	0.874	U	0.874	U	12	U	0.790	U
Vinyl Chloride	6.10	U	0.1	U	0.0990	U	5.60	U	0.1	U	0.110	U	0.511	U	0.511	U	6	U	0.110	U	0.511	U	0.511	U	6.80	U	0.110	U

NOTES:
Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit)NT data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis
NT=this indicates the analyte was not a target for this sample
DL=Detection Limit
(1) Compound detected in laboratory quality control batch blank at a concentration of 0.73 ug/m^3
(2) Compound detected in laboratory quality control batch blank at a concentration of 0.54 ug/m^3

Table 4
Off-site Indoor & Outdoor Air Results
Regency Gardens
Flushing, New York

Sample ID	IA-RG-1		IA-RG-2		IA-RG-3		IA-RG-4		OA-RG-2		NYSDOH
Sampling Date	12/30/2021		12/30/2021		12/30/2021		12/30/2021		12/30/2021		Air Guidance
Client Matrix	Air		Air		Air		Air		Air		Values
Compound	Result		Result		Result		Result		Result		
Volatile Organics, EPA TO15 Full List	ug/m3	RL	ug/m3	RL	ug/m3	RL	ug/m3	RL	ug/m4	RL	ug/m3
1,1,1-Trichloroethane	**0.278**	0.109	ND	0.109	ND	0.109	ND	0.109	ND	0.109	-
1,1,2,2-Tetrachloroethane	ND	1.37	ND	1.37	ND	1.37	ND	1.37	ND	1.37	-
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.53	ND	1.53	ND	1.53	ND	1.53	ND	1.53	-
1,1,2-Trichloroethane	ND	1.09	ND	1.09	ND	1.09	ND	1.09	ND	1.09	-
1,1-Dichloroethane	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	-
1,1-Dichloroethylene	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	-
1,2,4-Trichlorobenzene	ND	1.48	ND	1.48	ND	1.48	ND	1.48	ND	1.48	-
1,2,4-Trimethylbenzene	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	-
1,2-Dibromoethane	ND	1.54	ND	1.54	ND	1.54	ND	1.54	ND	1.54	-
1,2-Dichlorobenzene	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	-
1,2-Dichloroethane	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	-
1,2-Dichloropropane	ND	0.924	ND	0.924	ND	0.924	ND	0.924	ND	0.924	-
1,2-Dichlorotetrafluoroethane	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	-
1,3,5-Trimethylbenzene	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	-
1,3-Butadiene	ND	0.442	ND	0.442	ND	0.442	ND	0.442	ND	0.442	-
1,3-Dichlorobenzene	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	-
1,4-Dichlorobenzene	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	-
1,4-Dioxane	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	-
2-Butanone	ND	1.47	ND	1.47	ND	1.47	ND	1.47	ND	1.47	-
2-Hexanone	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82	-
2,2,4-Trimethylpentane	ND	0.934	ND	0.934	ND	0.934	ND	0.934	ND	0.934	
3-Chloropropene	ND	0.626	ND	0.626	ND	0.626	ND	0.626	ND	0.626	-
4-Ethyltoluene	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	
4-Methyl-2-pentanone	ND	2.05	ND	2.05	ND	2.05	ND	2.05	ND	2.05	-
Acetone	**14.1**	2.38	**5.7**	2.38	**5.06**	2.38	**5.13**	2.38	**5.61**	2.38	-
Benzene	**0.997**	0.639	**1.04**	0.639	**1.1**	0.639	**0.987**	0.639	**0.821**	0.639	-
Benzyl chloride	ND	1.04	ND	1.04	ND	1.04	ND	1.04	ND	1.04	-
Bromodichloromethane	ND	1.34	ND	1.34	ND	1.34	ND	1.34	ND	1.34	-
Bromoform	ND	2.07	ND	2.07	ND	2.07	ND	2.07	ND	2.07	-
Bromomethane	ND	0.777	ND	0.777	ND	0.777	ND	0.777	ND	0.777	-
Carbon disulfide	ND	0.623	ND	0.623	ND	0.623	ND	0.623	ND	0.623	-
Carbon tetrachloride	**0.579**	0.126	**0.604**	0.126	**0.616**	0.126	**0.579**	0.126	**0.541**	0.126	-
Chlorobenzene	ND	0.921	ND	0.921	ND	0.921	ND	0.921	ND	0.921	-
Chloroethane	ND	0.528	ND	0.528	ND	0.528	ND	0.528	ND	0.528	-
Chloroform	ND	0.977	**1.12**	0.977	ND	0.977	ND	0.977	ND	0.977	-
Chloromethane	**1.14**	0.413	**1.16**	0.413	**1.13**	0.413	**1.14**	0.413	**1.11**	0.413	-
cis-1,2-Dichloroethylene	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	-
cis-1,3-Dichloropropylene	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	-
Cyclohexane	ND	0.688	ND	0.688	ND	0.688	ND	0.688	ND	0.688	-
Dibromochloromethane	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	-
Dichlorodifluoromethane	**2.9**	0.989	**2.85**	0.989	**2.86**	0.989	**2.96**	0.989	**2.73**	0.989	-
Ethanol	**40.1**	9.42	**20.2**	9.42	**11.8**	9.42	**23.7**	9.42	**14.9**	9.42	-
Ethyl acetate	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	-
Ethyl Benzene	ND	0.869	ND	0.869	ND	0.869	ND	0.869	ND	0.869	-
Hexachlorobutadiene	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82	-
Isopropanol	ND	2.13	ND	2.13	ND	2.13	ND	2.13	ND	2.13	-
Methyl tert-butyl ether (MTBE)	**5.41**	1.23	**7.45**	1.23	**4.06**	1.23	**3.96**	1.23	**5.38**	1.23	-
Methylene chloride	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	60
n-Heptane	**1.89**	1.74	ND	1.74	ND	1.74	ND	1.74	ND	1.74	-
n-Hexane	**0.786**	0.705	**0.916**	0.705	**0.814**	0.705	**0.796**	0.705	ND	0.705	-
o-Xylene	ND	0.869	ND	0.869	ND	0.869	ND	0.869	ND	0.869	-
p- & m- Xylenes	ND	1.74	ND	1.74	ND	1.74	ND	1.74	ND	1.74	-
Styrene	ND	0.852	ND	0.852	ND	0.852	ND	0.852	ND	0.852	-
Tertiary butyl Alcohol	ND	1.52	ND	1.52	ND	1.52	ND	1.52	ND	1.52	
Tetrachloroethylene	**0.366**	0.136	**0.536**	0.136	**0.319**	0.136	**0.285**	0.136	**0.244**	0.136	30
Tetrahydrofuran	ND	1.47	ND	1.47	ND	1.47	ND	1.47	ND	1.47	-
Toluene	**2.22**	0.754	**2.03**	0.754	**2**	0.754	**1.83**	0.754	**1.39**	0.754	-
trans-1,2-Dichloroethylene	ND	0.793	ND	0.793	ND	0.793	ND	0.793	ND	0.793	-
trans-1,3-Dichloropropylene	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	-
Trichloroethylene	ND	0.107	ND	0.107	ND	0.107	ND	0.107	ND	0.107	2
Trichlorofluoromethane (Freon 11)	**1.42**	1.12	**1.41**	1.12	**1.43**	1.12	**1.46**	1.12	**1.44**	1.12	-
Vinyl bromide	ND	0.874	ND	0.874	ND	0.874	ND	0.874	ND	0.874	-
Vinyl Chloride	ND	0.051	ND	0.051	ND	0.051	ND	0.051	ND	0.051	-

Notes
ND - Not Detected
Bolded values indicate a detection above the laboratory reporting limit.
RL - Reporting Limit

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Table 5
Pressure Test Point Vacuum Readings
Regency Gardens
Flushing, New York

Pressure Test Point ID	PTP-1			
Units	Vacuum (in H_2O)			
Date	9/25/2020	10/19/2020	1/10/2022	8/10/2022
Measurement	-0.017	-0.57	-0.07	-0.049

Pressure Test Point ID	PTP-2			
Units	Vacuum (in H_2O)			
Date	9/25/2020	10/19/2020	1/10/2022	8/10/2022
Measurement	-0.068	-0.038	-0.055	-0.044

Pressure Test Point ID	PTP-3					
Units	Vacuum (in H_2O)					
Date	9/25/2020	10/19/2020	11/17/2020	12/30/2021	1/10/2022	8/10/2022
Measurement	-0.002	-0.013	-0.020	-0.017	-0.024	-0.022

Pressure Test Point ID	PTP-4				
Units	Vacuum (in H_2O)				
Date	9/25/2020	10/19/2020	11/17/2020	12/30/2021	8/10/2022
Measurement	-0.001	-0.009	-0.011	-0.021	0.019

Pressure Test Point ID	PTP-5						
Units	Vacuum (in H_2O)						
Date	9/25/2020	10/19/2020	11/17/2020	12/9/2020	12/30/2021	8/10/2022	10/25/2022
Measurement	-0.003	0.000	0.000	-0.022	-0.024	-0.006	-0.023

Pressure Test Point ID	PTP-6						
Units	Vacuum (in H_2O)						
Date	9/25/2020	10/19/2020	11/17/2020	12/9/2020	12/30/2021	8/10/2022	10/25/2022
Measurement	-0.016	-0.023	-0.035	-0.024	-0.022	-0.009	-0.018

Pressure Test Point ID	PTP-7			
Units	Vacuum (in H_2O)			
Date	9/25/2020	10/19/2020	12/30/2021	8/10/2022
Measurement	-0.001	-0.022	-0.020	-0.016

Pressure Test Point ID	PTP-8			
Units	Vacuum (in H_2O)			
Date	9/25/2020	10/19/2020	12/30/2021	8/10/2022
Measurement	-0.455	-0.490	-0.499	-0.421

Note:
PTP = Pressure Test Point

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Table 6
Water Level Measurements March 2018 - May 2022
77-57 Vleigh Place, Flushing NY

Well ID	Top of Casing Elevation (famsl)	DTW (fbg) 3/26/2018	Water Table Elevation (famsl) 3/26/2018	DTW (fbg) 8/28/2018	Water Table Elevation (famsl) 8/28/2018	DTW (fbg) 12/26/2018	Water Table Elevation (famsl) 12/26/2018	DTW (fbg) 4/28/2020	Water Table Elevation (famsl) 4/28/2020	DTW (fbg) 7/27/2020	Water Table Elevation (famsl) 7/27/2020	DTW (fbg) 10/9/2020	Water Table Elevation (famsl) 10/9/2020	DTW (fbg) 1/20/2021	Water Table Elevation (famsl) 1/20/2021	DTW (fbg) 5/10/2021	Water Table Elevation (famsl) 5/10/2021
MW-1	80.42	30.70	49.72	29.45	50.97	29.80	50.62	27.62	52.80	27.25	53.17	28.46	51.96	27.28	53.14	26.94	53.48
MW-2	-	30.05	-	28.95	-	29.00	-	28.09	-	27.27	-	28.62	-	27.80	-	27.18	-
MW-3S	-	28.75	-	28.80	-	28.55	-	26.45	-	29.40	-	27.06	-	30.82	-	21.03	-
MW-3D	-	28.80	-	NA	-	27.80	-	28.80	-	30.50	-	28.45	-	35.43	-	25.68	-
MW-5S	-	31.85	-	30.10	-	32.20	-	NA	-	NA	-	NA	-	NA	-	NA	-
MW-5D	59.06	31.73	NA	NA	NA	30.10	NA	5.70	53.36	5.91	53.15	6.27	52.79	5.61	53.45	4.71	54.35
MW-6	82.99	32.50	50.49	31.35	51.64	31.60	51.39	30.30	52.69	30.40	52.59	30.75	52.24	30.09	52.90	29.71	53.28
MW-7D	-	29.55	-	28.40	-	28.60	-	27.35	-	27.16	-	27.41	-	27.49	-	27.10	-
MW-8	-	30.80	-	29.70	-	30.00	-	NA	-	NA	-	NA	-	NA	-	NA	-
MW-9	58.68	31.50	NA	29.90	NA	30.00	NA	5.25	53.43	5.56	53.12	5.66	53.02	5.24	53.44	4.32	54.36
MW-11	84.86	32.51	52.35	30.00	54.86	30.20	54.66	31.40	53.46	31.65	53.21	32.10	52.76	31.51	53.35	31.12	53.74
MW-12	85.07	NA	NA	30.00	55.07	33.10	51.97	32.70	52.37	32.87	52.20	33.10	51.97	32.46	52.61	31.92	53.15
MW-13	-	30.35	-	29.00	-	28.90	-	26.80	-	27.76	-	28.03	-	27.73	-	26.52	-

Well ID	Top of Casing Elevation (famsl)	DTW (fbg) 8/17/2021	Water Table Elevation (famsl) 8/17/2021	DTW (fbg) 11/30/2021	Water Table Elevation (famsl) 11/30/2021	DTW (fbg) 2/22/2022	Water Table Elevation (famsl) 2/22/2022	DTW (fbg) 5/4/2022	Water Table Elevation (famsl) 5/4/2022	DTW (fbg) 8/10/2022	Water Table Elevation (famsl) 8/10/2022
MW-1	80.42	27.02	53.40	27.63	52.79	28.89	51.53	28.84	51.58	29.48	50.94
MW-2	-	27.55	-	28.04	-	29.09	-	29.17	-	29.63	-
MW-3S	-	27.44	-	26.41	-	-	-	28.85	-	29.17	-
MW-3D	-	27.79	-	28.45	-	27.63	-	27.79	-	28.22	-
MW-5S	-	-	-	-	-	-	-	-	-	-	-
MW-5D	59.06	-	-	-	-	-	-	-	-	-	-
MW-6	82.99	29.68	53.31	30.11	52.88	31.30	51.69	31.37	51.62	31.65	51.34
MW-7D	-	27.40	-	27.57	-	28.52	-	28.72	-	29.02	-
MW-8	-	-	-	-	-	-	-	-	-	-	-
MW-9	58.68	-	-	-	-	-	-	-	-	-	-
MW-11	84.86	31.23	53.63	31.67	53.19	32.69	52.17	32.60	52.26	32.93	51.93
MW-12	85.07	31.89	53.18	32.29	52.78	33.45	51.62	33.55	51.52	33.81	51.26
MW-13	-	26.17	-	27.59	-	27.95	-	27.13	-	27.83	-

All values reported in feet.
DTW…Depth to Water from top of casing
NA…Not Available due to removal of well from the site or from sampling schedule
Depth to water measurements changed significantly for MW-5D and MW-9 when construction began at the property and the wells were installed in the future parking garage.

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Table 7

Water Level Study at MW-5D & MW-9

77-57 Vleigh Place, Flushing, New York

Well ID	Top of Casing Elevation (feet amsl)	Date	Depth to Water (feet below top of casing)	Water Level Elevation (feet amsl)	Bottom of Foundation Elevation (feet amsl)	Feet Between Top of Water Table and Bottom of Foundation (feet)
MW-5D	59.06	4/28/2020	5.70	53.36	54.50	1.14
		7/27/2020	5.91	53.15		1.35
		10/9/2020	6.27	52.79		1.71
		1/4/2021	5.53	53.53		0.97
		1/5/2021	5.57	53.49		1.01
		1/6/2021	5.60	53.46		1.04
		1/7/2021	5.66	53.40		1.10
		1/8/2021	5.60	53.46		1.04
		1/9/2021	5.61	53.45		1.05
		1/10/2021	5.66	53.40		1.10
Average			5.71	53.35		1.15
Minimum			5.53	52.79		0.97
Maximum			6.27	53.53		1.71
MW-9	58.68	4/28/2020	5.25	53.43	54.50	1.07
		7/27/2020	5.56	53.12		1.38
		10/9/2020	5.66	53.02		1.48
		1/4/2021	5.12	53.56		0.94
		1/5/2021	5.16	53.52		0.98
		1/6/2021	5.19	53.49		1.01
		1/7/2021	5.20	53.48		1.02
		1/8/2021	5.19	53.49		1.01
		1/9/2021	5.20	53.48		1.02
		1/10/2021	5.27	53.41		1.09
Average			5.28	53.40		1.10
Minimum			5.16	53.02		0.94
Maximum			5.66	53.56		1.48

Notes:

Site elevations and casing elevations were provided from the site survey (Survey No. 66447-6), which was provided by the client.

As per the survey general notes, the elevations and established grades shown on the survey referred to NAVD 1988, which is 1.625 feet below the Queens topographical bureau datum.

The survey weas dated 11/1/2019 and revised 11/19/2019 and completed by Montrose Surveying Co., LLP.

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Table 8
Groundwater Samples Analytical Results for VOC's
77-57 Vleigh Place, Flushing NY

Sample ID	MW-1		MW-2		MW-3S		MW-3D		MW-5D		MW-6		MW-7		MW-9		MW-11		MW-12		MW-13		Equipment Blank		Field Blank		Trip Blank		Blind Duplicate		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	8/10/2022		8/10/2022		8/10/2022		8/10/2022		8/10/2022		8/10/2022		8/10/2022		8/10/2022		8/10/2022		8/10/2022		8/10/2022		8/10/2022		8/10/2022		8/10/2022		8/10/2022		
Client Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		DI Water		Water		
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L
1,1,1,2-Tetrachloroethane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
1,1,1-Trichloroethane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
1,1,2,2-Tetrachloroethane	0.17	U	0.17	U	0.42	U	0.17	U	NS		0.17	U	0.17	U	NS		0.33	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	5
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
1,1,2-Trichloroethane	0.5	U	0.5	U	1.2	U	0.5	U	NS		0.5	U	0.5	U	NS		1	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1
1,1-Dichloroethane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
1,1-Dichloroethylene	0.17	U	0.17	U	0.42	U	0.17	U	NS		0.17	U	0.17	U	NS		0.34	U	0.17	U	0.7	U	0.17	U	0.17	U	0.17	U	0.17	U	5
1,1-Dichloropropylene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
1,2,3-Trichlorobenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
1,2,3-Trichloropropane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.04
1,2,4,5-Tetramethylbenzene	0.54	U	0.54	U	1.4	U	0.54	U	NS		0.54	U	0.54	U	NS		1.1	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	~
1,2,4-Trichlorobenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
1,2,4-Trimethylbenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
1,2-Dibromo-3-chloropropane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.04
1,2-Dibromoethane	0.65	U	0.65	U	1.6	U	0.65	U	NS		0.65	U	0.65	U	NS		1.3	U	0.65	U	0.13	U	0.13	U	0.65	U	0.65	U	0.65	U	0.0006
1,2-Dichlorobenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	3
1,2-Dichloroethane	0.13	U	0.13	U	0.33	U	0.13	U	NS		0.13	U	0.13	U	NS		0.26	U	0.13	U	0.65	U	0.65	U	0.13	U	0.13	U	0.13	U	0.6
1,2-Dichloropropane	0.15	U	0.14	U	0.34	U	0.14	U	NS		0.14	U	0.14	U	NS		0.27	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	1
1,3,5-Trimethylbenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
1,3-Dichlorobenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	3
1,3-Dichloropropane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
1,4-Dichlorobenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	3
1,4-Dioxane	61	U	61	U	150	U	61	U	NS		61	U	61	U	NS		120	U	61	U	61	U	61	U	61	U	61	U	61	U	
2,2-Dichloropropane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
2-Butanone	1.9	U	1.9	U	4.8	U	1.9	U	NS		1.9	U	1.9	U	NS		3.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	50
2-Chlorotoluene (o)	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
2-Hexanone	1	U	1	U	2.5	U	1	U	NS		1	U	1	U	NS		2	U	1	U	1	U	1	U	1	U	1	U	1	U	50
4-Chlorotoluene (p)	0.7	U	0.7	U	1.8	U	0.7	1	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
4-Methyl-2-pentanone	1	U	1	U	2.5	U	1	U	NS		1	U	1	U	NS		2	U	1	U	1	U	1	U	1	U	1	U	1	U	~
Acetone	**1.6**	J	1.5	U	3.6	U	1.5	U	NS		1.5	U	1.5	U	NS		**10**		1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	50
Acrylonitrile	1.5	U	1.5	U	3.8	U	1.5	U	NS		1.5	U	1.5	U	NS		3	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	
Benzene	0.16	U	0.16	U	0.4	U	0.16	U	NS		0.16	U	0.16	U	NS		0.32	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	1
Bromobenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
Bromochloromethane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
Bromodichloromethane	0.19	U	0.19	U	0.48	U	0.19	U	NS		0.19	U	0.19	U	NS		0.38	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	50
Bromoform	0.65	U	0.65	U	1.6	U	0.65	U	NS		0.65	U	0.65	U	NS		1.3	U	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U	50
Bromomethane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
Carbon disulfide	1	U	1	U	2.5	U	1	U	NS		1	U	1	U	NS		2	U	1	U	1	U	1	U	1	U	1	U	1	U	~
Carbon tetrachloride	0.13	U	0.13	U	0.34	U	0.13	U	NS		0.13	U	0.13	U	NS		0.27	U	0.5	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	5
Chlorobenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
Chloroethane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
Chloroform	0.7	U	**5.1**		**14**		**16**		NS		**12**		**28**		NS		1.4	U	**2.4**	J	0.7	U	0.7	U	0.7	U	0.7	U	**28**		7
Chloromethane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
cis-1,2-Dichloroethylene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		**1.5**	J	**0.72**	J	0.07	U	0.7	U	0.7	U	0.7	U	0.7	U	5
cis-1,3-Dichloropropylene	0.14	U	0.14	U	0.36	U	0.14	U	NS		0.14	U	0.14	U	NS		0.29	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.4
Dibromochloromethane	0.15	U	0.15	U	0.37	U	0.15	U	NS		0.15	U	0.15	U	NS		0.3	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	50
Dibromomethane	1	U	1	U	2.5	U	1	U	NS		1	U	1	U	NS		2	U	1	U	1	U	1	U	1	U	1	U	1	U	~
Dichlorodifluoromethane	1	U	1	U	2.5	U	1	U	NS		1	U	1	U	NS		2	U	1	U	1	U	1	U	1	U	1	U	1	U	5
Ethyl Benzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
Ethyl ether	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	
Hexachlorobutadiene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.5
Isopropylbenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
Methyl tert-butyl ether (MTBE)	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	10
Methylene chloride	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
Naphthalene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	10
n-Butylbenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
n-Propylbenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
o-Xylene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
p- & m- Xylenes	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
p-Diethylbenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	~
p-Ethyltoluene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	~
p-Isopropyltoluene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
sec-Butylbenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
Styrene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
tert-Butylbenzene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
Tetrachloroethylene	**15**		**20**		**260**		**6.4**		NS		**11**		**55**		NS		**170**		**78**		**0.53**		0.18	U	0.18	U	0.18	U	**58**		5
Toluene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
trans-1,2-Dichloroethylene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
trans-1,3-Dichloropropylene	0.16	U	0.16	U	0.41	U	0.16	U	NS		0.16	U	0.16	U	NS		0.33	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.4
trans-1,4-Dichloro-2-butene	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	
Trichloroethylene	**4.3**		**0.46**	J	**2.1**		0.18	U	NS		**0.59**	U	**0.59**		NS		**1.7**		**1.4**		0.18	U	0.18	U	0.18	U	0.18	U	**0.52**		5
Trichlorofluoromethane	0.7	U	0.7	U	1.8	U	0.7	U	NS		0.7	U	0.7	U	NS		1.4	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	5
Vinyl Acetate	1	U	1	U	2.5	U	1	U	NS		1	U	1	U	NS		2	U	1	U	1	U	1	U	1	U	1	U	1	U	
Vinyl Chloride	0.07	U	0.07	U	0.18	U	0.07	U	NS		0.07	U	0.07	U	NS		**0.17**	J	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	2
Total VOCs	20.9		25.56		276.1		22.4		NS		23.59		83.59		NS		183.37		82.52		0.53		0		0		0		86.52		

NOTES:
Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte
sample exceeds NYSDEC TOGS Standards and Guidance Values - GA

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Table 9
77-57 Vleigh Place, Flushing NY
Historical Groundwater Monitoring Well Results for CVOCs

Sample ID	MW-1															
Sampling Date	3/26/2018	8/28/2018	12/26/2018	4/8/2019	7/22/2019	10/3/2019	4/28/2020	7/27/2020	10/9/2020	1/20/2021	5/10/2021	8/17/2021	11/30/2021	2/22/2022	5/4/2022	5/5/2022
	VOCs (ug/L)															
Chloroform	0.57	1.2	0.88	1.65	4.42	3.04	ND	0.66 J	ND	ND	ND	0.96 J	0.98 J	ND	ND	ND
cis-1,2-DCE	1.6	1.6	1.85	6.57	3.49	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	280	397	222	535	264	145	50	64.4	32	27	38	9.2	30	20	15	15
TCE	7	6.3	8.43	9.4	6.79	3.2	1	1.5	1.1	0.65	0.82	0.38 J	0.96	3.40	2.10	4.3
Total VOCs	298.87	580.24	243.36	555.07	346.31	156.27	51	66.56	33.1	27.65	38.82	14.74	31.94	24.10	17.10	20.9
Sample ID	MW-2															
Sampling Date	3/26/2018	8/28/2018	12/26/2018	4/8/2019	7/22/2019	10/3/2019	4/28/2020	7/27/2020	10/9/2020	1/20/2021	5/10/2021	8/17/2021	11/30/2021	2/22/2022	5/4/2022	8/10/2022
	VOCs (ug/L)															
Chloroform	10	8.8	3.52	6.21	6.44	9.59	4.2	3.8	3.8	7.9	9.2	6.5	16.0	21	6.5	5.1
cis-1,2-DCE	1.1	1.2	61.1	2.44	4.96	1.74	ND	0.55 J	ND	ND	ND	ND	ND	ND	ND	ND
PCE	200	175	8,250	176	874	119	55	76.5	37	8.8	24	12	19	20	14	20
TCE	3.2	4.4	95	3.17	8	2.7	1	1.2	0.8	0.2 J	0.5 J	0.3 J	0.42 J	0.42	0.31	0.46
Total VOCs	224.12	373.42	8,422.64	190.18	913.70	138.61	60	82.05	41.6	17.65	33.65	18.76	35.42	41.42	20.81	25.56
Sample ID	MW-3S															
Sampling Date	3/26/2018	8/28/2018	12/26/2018	4/8/2019	7/22/2019	10/3/2019	4/28/2020	7/27/2020	10/9/2020	1/20/2021	5/10/2021	8/17/2021	11/30/2021	2/22/2022	5/4/2022	8/10/2022
	VOCs (ug/L)															
Chloroform	4.9	2.9	25.9	23.5	1.57	9.69	16	23.5	14	8.4	14	7.3	41	25	12	14
cis-1,2-DCE	ND	0.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	300	54.6	53	17.3	25	19.7	38	3.9	7	39	44	63	7	1.1	250	260
TCE	4.7	1.2	0.49	ND	ND	ND	0.44 J	ND	ND	0.43 J	0.48 J	0.78	ND	ND	2.1	2.1
Total VOCs	313.2	231.16	91.43	44.65	77.04	40.8	56	27.4	20.5	47.83	58.48	75.48	48.20	26.28	264.1	276.1
Sample ID	MW-3D															
Sampling Date	3/26/2018	8/28/2018	12/26/2018	4/8/2019	7/22/2019	10/2/2019	4/28/2020	7/27/2020	10/9/2020	1/20/2021	5/10/2021	8/17/2021	11/30/2021	2/22/2022	5/4/2022	8/10/2022
	VOCs (ug/L)															
Chloroform	8.5	0.2 J	8.03	12.8	26	11.2	18	12.3	13	23	32	36	13	NS	14	16
cis-1,2-DCE	0.74	1.8	5.65	3.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND
PCE	200	16	2,060	1,410	40	22.1	3	57.9	26	8.3	2.8	1.3	170	NS	4.7	6.4
TCE	2.1	1	12.8	7.14	0.38 J	0.22	ND	0.93 J	0.39 J	ND	ND	ND	1.70	NS	ND	ND
Total VOCs	221.35	164.35	2,096.90	1,436.78	128.16	23.45	20.6	71.13	41.09	31.3	34.8	37.3	184.7	NS	18.7	22.4
Sample ID	MW-5D															
Sampling Date	3/26/2018	8/28/2018	12/26/2018	4/8/2019	7/22/2019	10/2/2019	4/28/2020	7/27/2020	10/9/2020	1/20/2021	5/10/2021	8/17/2021	11/30/2021	2/22/2022	5/4/2022	8/10/2022
	VOCs (ug/L)															
Chloroform	ND	0.3 J	ND	0.31 J	NS	1.06	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
cis-1,2-DCE	0.47 J	1.8	ND	ND	NS	0.27	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
PCE	2.9	156	1,170	856	NS	21.9	47	31.1	36	40	13	NS	NS	NS	NS	NS
TCE	0.29 J	1	1.26	1.23	NS	0.22 J	0.32 J	ND	0.6	0.34 J	0.18 J	NS	NS	NS	NS	NS
Total VOCs	42.76	164.35	1,181.86	859.12	NS	23.45	47.3	31.1	38.25	40.34	14.68	NS	NS	NS	NS	NS
Sample ID	MW-6															
Sampling Date	3/26/2018	8/28/2018	12/26/2018	4/8/2019	7/22/2019	10/3/2019	4/28/2020	7/27/2020	10/9/2020	1/20/2021	5/10/2021	8/17/2021	11/30/2021	2/22/2022	5/4/2022	8/10/2022
	VOCs (ug/L)															
Chloroform	9	8.9	5.58	2.6	NS	2	4	2.5	2.4 J	1.5 J	4	1.2 J	1.6 J	34	11	12
cis-1,2-DCE	9.1	38.4	40.4	22.4	NS	0.74	0.87	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	110	628	553	336	NS	61	150	80.5	37	63	51	24	15	28	20	11
TCE	14	30.7	31.9	15.6	NS	2.46	3	1.7	1.0	1.3	1	0.74	0.54	0.74	0.7	0.59
Total VOCs	171.48	736.59	641.75	396.10	NS	69.99	157.2	84.7	41.85	65.8	56	25.94	17.14	32.14	31.7	23.59
Sample ID	MW-7															
Sampling Date	3/26/2018	8/28/2018	12/26/2018	4/8/2019	7/22/2019	9/30/2019	4/28/2020	7/27/2020	10/9/2020	1/20/2021	5/10/2021	8/17/2021	11/30/2021	2/22/2022	5/4/2022	8/10/2022
	VOCs (ug/L)															
Chloroform	19	20.5	13.1	23.2	26	16	15	26.3	20	26	41	39	25	22	21	28
cis-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	ND	ND	ND	ND	ND	7.08	260	177	78	1.5	0.93	1	61	96	38	55
TCE	ND	ND	ND	ND	ND	ND	2	1.6	0.65	ND	ND	ND	0.53	1	0.48	0.59
Total VOCs	29.21	277.93	22.91	24.85	96.98	27.39	277.0	204.9	98.65	27.5	41.93	40	86.53	119	59.48	83.59
Sample ID	MW-9															
Sampling Date	3/26/2018	8/28/2018	12/26/2018	4/8/2019	7/22/2019	10/2/2019	4/28/2020	7/27/2020	10/9/2020	1/20/2021	5/10/2021	8/17/2021	11/30/2021	2/22/2022	5/4/2022	8/10/2022
	VOCs (ug/L)															
Chloroform	2.3	1.2	0.89	0.37 J	NS	ND	ND	0.89	ND	ND	ND	NS	NS	NS	NS	NS
cis-1,2-DCE	0.84	12.3	0.2 J	ND	NS	0.68 JD	23	46	36	47	22	NS	NS	NS	NS	NS
PCE	33,000	8,800	3,220	668	NS	145	150	120	130	210	120	NS	NS	NS	NS	NS
TCE	29	12.7	6.14	0.67	NS	ND	3	3.7	3.70	4.9	2.1	NS	NS	NS	NS	NS
Total VOCs	33,035.26	8,908.13	3,238.12	671.08	NS	145.68	176.3	170.91	169.88	261.8	144.1	NS	NS	NS	NS	NS
Sample ID	MW-11															
Sampling Date	3/26/2018	8/28/2018	12/26/2018	4/8/2019	7/22/2019	10/2/2019	4/28/2020	7/27/2020	10/9/2020	1/20/2021	5/10/2021	8/17/2021	11/30/2021	2/22/2022	5/4/2022	8/10/2022
	VOCs (ug/L)															
Chloroform	1.9	1.7	1.89	0.69	NS	1	ND	2.4 J	ND	ND	1 J	ND	ND	ND	ND	ND
cis-1,2-DCE	2.1	1.4	1.77	1.22	NS	70.90	3.4 J	13.7	24	4.15	2 J	5.9	1.6 J	2.5	ND	1.5
PCE	21,000	7,510	6,700	1,830	NS	1,640	330	908	520	500	200	260	96	400	170	170
TCE	36	34.4	37.7	4.03	NS	6.76	4	10.1	6.1	4.6	1.8	2.2	1.4	2.6	1.5	1.7
Vinyl Chloride	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	0.24 J	0.16 J	ND	ND	0.17
Total VOCs	21,092.46	7,552.77	6,763.5	1,837.87	NS	1,720.98	337.6	935.7	550.50	508.7	233.30	275.04	107.56	405.1	171.5	183.37
Sample ID	MW-12															
Sampling Date	3/26/2018	8/28/2018	12/26/2018	4/8/2019	7/22/2019	10/4/2019	4/28/2020	7/27/2020	10/9/2020	1/20/2021	5/10/2021	8/17/2021	11/30/2021	2/22/2022	5/4/2022	8/10/2022
	VOCs (ug/L)															
Chloroform	NS	12.1	6.38	5.43	NS	0.73	ND	1	ND	1.8 J	ND	ND	ND	1	1.7	2.4
cis-1,2-DCE	NS	0.8	0.77	1.05	NS	1.7	ND	0.68 J	ND	6.5	ND	3.7	ND	ND	ND	0.72
PCE	NS	159	62.8	77.5	NS	104	28	32	35	100	19	190	33	33	47	78
TCE	NS	5.1	2.45	28.5	NS	5.9	1.2	1.2	1	2	0.54	1.4	0.53	0.65	0.8	1.4
Total VOCs	NS	381.47	83.57	114.61	NS	112.33	29.2	34.38	36	110.3	19.54	195.1	33.53	34.65	49.5	82.52
Sample ID	MW-13															
Sampling Date	3/26/2018	8/28/2018	12/26/2018	4/8/2019	7/22/2019	10/2/2019	4/28/2020	7/27/2020	10/9/2020	1/20/2021	5/10/2021	8/17/2021	11/30/2021	2/22/2022	5/4/2022	8/10/2022
	VOCs (ug/L)															
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-DCE	0.27 J	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	0.45 J	2	ND	ND	ND	ND	0.28 J	ND	0.29 J	0.41 J	0.37 J	0.73	0.34 J	0.39	0.31	0.53
TCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22 J	0.25 J	ND	ND	ND	ND	1.4
Total VOCs	9.52	241.29	9.84	1.58	97.5	18.69	0.28	ND	1.99	2.13	0.62	5.13	0.34	0.39	0.31	0.53

NOTES:
ug/L = micrograms per liter
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
ND=Not Detected
PCE = Tetrachloroethylene
TCE = Trichloroethylene
VOCs = Volatile Organic Compounds

EnviroTrac
Environmental Services

APPENDICES

APPENDIX A

SVE Operations and Maintenance Logs

EnviroTrac

Table 1
Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
6/22/2021 - Scenario A	-54	-62	50	0.2	185	1.9	0	5.6	0	0.2	-44	0.4	-0.006	0.60	-0.016	1	0.000	0.6	-0.312	0.2	-0.258	1.7	-0.008	75			X	X	

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on

Table 2
Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
8/17/2021 - Scenario A	-56	-64	50	2.0	170	-	-	-	-	1.7	-42	0.0	-0.015	0.0	-0.091	0.7	-0.001	0.4	-3	0.1	-0.145	4.7	-0.098	75			X		X

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on

Table 1

Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
9/10/2021 - Scenario A	-55	-64	50	0.6	185	-	-	-	-	2.3	-44	0.4	0.000	0.40	-0.209	2.7	0.000	NA	NA	0.4	-0.309	4.1	-0.01	75			X	X	

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on
NA --- Not Accessible Due to On-going Construction At The Site

Table 2

Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
10/4/2021 - Scenario A	-55	-64	60	0.6	185	-	-	-	-	0.2	-44	0.4	-0.007	0.5	-0.018	1.1	0.000	0.4	-0.288	0.2	-0.242	1.6	-0.003	65			X		

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on

Table 3

Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
11/30/2021 - Scenario A	-56	-68	50	0.7	64	-	-	-	-	0.2	-44	0.1	0.000	0.20	-0.014	0.6	-0.002	0.4	0	0.0	-0.315	0.1	-0.014	42			X		

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on
NA --- Not Accessible Due to On-going Construction At The Site

Table 4

Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
12/30/2021 - Scenario A	-54	-66	50	0.0	155	-	-	-	-	0.3	-44	1.6	0.000	3.30	-0.032	-	-	-	-	0.8	-0.339	3.7	-0.012	46	X		X		

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on
NA --- Not Accessible Due to On-going Construction At The Site

Table 5
Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
1/24/2022 - Scenario A	-57	-68	50	0.6	155	-	-	-	-	0.1	-46	0.2	0.000	0.10	-0.022	0.3	0.000	0.4	0.000	0.2	-0.474	0.6	-0.015	30			X		

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on
NA --- Not Accessible Due to On-going Construction At The Site

Table 6
Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
2/14/2022 - Scenario A	-60	-72	50	0.2	125	-	-	-	-	0.1	-50	0.7	-0.018	-	-	-	-	-	-	0.1	-0.26	0.1	-0.007	3°F				X	

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on
NA --- Not Accessible Due to On-going Construction At The Site

Table 7
Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
3/24/2022 - Scenario A	-59	-70	50	0.0	150	-	-	-	-	0.2	-49	2.0	0.000	2.70	-0.045	-	-	-	-	0.5	-0.333	4.1	-0.009	27	X		X		

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on
NA --- Not Accessible Due to On-going Construction At The Site

Table 8
Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
4/20/2022 - Scenario A	-58	-68	77	0.5	113	-	-	-	-	0.4	-48	0.4	-0.007	0.20	-0.016	0.9	0.000	0.5	-0.010	0.4	-0.71	1.3	-0.015	54				X	

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on
NA --- Not Accessible Due to On-going Construction At The Site

Table 9
Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
5/4/2022 - Scenario A	-50	-66	50	0.1	158	-	-	-	-	0.6	-46	0.1	-0.185	0.0	0.000	0.0	0.000	0.1	0.000	0.1	-1.186	0.0	-0.015	57	X		X		

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on
NA --- Not Accessible Due to On-going Construction At The Site

Table 10
Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
6/15/2022 - Scenario A	-55	-65	60	0.1	195	-	-	-	-	0.1	-44	0.1	-0.338	0.00	-0.108	1.8	-0.200	3.3	-0.013	0.0	-1.225	0.0	-1.095	75				X	

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on
NA --- Not Accessible Due to On-going Construction At The Site

Table 11

Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
7/25/2022 - Scenario A	-54	-66	70	0.7	190	-	-	-	-	0.6	-44	0.0	-1.429	0.00	-0.103	0.0	-0.527	1.8	-0.001	0.0	-0.195	0.0	-0.213	80			X		

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on
NA --- Not Accessible Due to On-going Construction At The Site

Table 12

Monitoring Data Log Sheet - Interim SVE System Beneath Building Slab

77-57 Vleigh Place (77-39/63 Vleigh Place a.k.a. 141-15 78th Avenue), Flushing, New York, NYSDEC Site Number: C241168

Date/Time	SVE Vacuum		Blower Effluent			SVE wells						Vaccum Monitoring Points												Weather Conditons					
						EW-4		EW-5		EW-6		PT-1		PT-2		PT-7		SV-8		SV-9		SV-KG-1							
	Influent (before knockout tank)	Effluent (after knockout tank)	Flow	PID	Temp	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	Temp	Rain	Snow	Cloudy	Sunny	Windy
8/10/2022 - Scenario A	-54	-64	60	0.1	90	-	-	-	-	0.1	-44	0.1	0.000	0.10	-0.001	3	-0.011	0.2	-0.002	0.0	0.000	0.0	-0.002	80				X	
9/14/2022 - Scenario A	-55	-65	50	-	-	-	-	-	-	-	-45	-	-0.068	-	-0.027	-	0.000	-	-0.004	-	-0.227	-	-0.209	80				X	

Vacuum --- Inch Water
PID --- ppm
Flow --- CFM
Temperature --- ◦F
Scenario A---Monitoring performed with only EW-6 turned on
NA --- Not Accessible Due to On-going Construction At The Site

APPENDIX B

Laboratory Reports

ANALYTICAL REPORT

Lab Number:	L2243234
Client:	Envirotrac Ltd. 5 Old Dock Road Yaphank, NY 11980
ATTN:	Tracy Wall
Phone:	(631) 924-3001
Project Name:	Not Specified
Project Number:	Not Specified
Report Date:	08/25/22

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L2243234
Report Date: 08/25/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2243234-01	INFLUENT	SOIL_VAPOR	77-63 VLEIGH	08/10/22 11:36	08/11/22
L2243234-02	EFFLUENT	SOIL_VAPOR	77-63 VLEIGH	08/10/22 11:46	08/11/22
L2243234-03	UNUSED_CAN2621	AIR	77-63 VLEIGH		08/11/22

Project Name:	Not Specified	**Lab Number:**	L2243234
Project Number:	Not Specified	**Report Date:**	08/25/22

Case Narrative

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

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

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

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

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

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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L2243234
Report Date: 08/25/22

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on August 10, 2022. The canister certification results are provided as an addendum.

L2243234-02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 08/25/22

AIR

Project Name: ***Lab Number:*** L2243234

Project Number: Not Specified ***Report Date:*** 08/25/22

SAMPLE RESULTS

Lab ID: L2243234-01
Client ID: INFLUENT
Sample Location: 77-63 VLEIGH

Date Collected: 08/10/22 11:36
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/23/22 23:14
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.449	0.200	--	2.22	0.989	--		1
Chloromethane	0.206	0.200	--	0.425	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	17.0	5.00	--	32.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	14.1	1.00	--	33.5	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	2.16	0.500	--	5.31	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.29	0.500	--	3.91	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	17.9	0.500	--	52.8	1.47	--		1
cis-1,2-Dichloroethene	0.311	0.200	--	1.23	0.793	--		1

Project Name: ***Lab Number:*** L2243234

Project Number: Not Specified ***Report Date:*** 08/25/22

SAMPLE RESULTS

Lab ID: L2243234-01
Client ID: INFLUENT
Sample Location: 77-63 VLEIGH

Date Collected: 08/10/22 11:36
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	12.3	0.200	--	60.1	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.519	0.200	--	1.83	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.79	0.200	--	5.72	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.234	0.200	--	0.805	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	0.624	0.200	--	4.18	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	1.59	0.200	--	8.55	1.07	--		1
2,2,4-Trimethylpentane	0.320	0.200	--	1.49	0.934	--		1
Heptane	0.784	0.200	--	3.21	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	4.58	0.200	--	17.3	0.754	--		1
2-Hexanone	1.15	0.200	--	4.71	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	95.1	0.200	--	645	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.888	0.200	--	3.86	0.869	--		1

Project Name: ***Lab Number:*** L2243234

Project Number: Not Specified ***Report Date:*** 08/25/22

SAMPLE RESULTS

Lab ID: L2243234-01
Client ID: INFLUENT
Sample Location: 77-63 VLEIGH

Date Collected: 08/10/22 11:36
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.98	0.400	--	12.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.458	0.200	--	1.95	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.30	0.200	--	5.65	0.869	--		1
4-Ethyltoluene	0.336	0.200	--	1.65	0.983	--		1
1,3,5-Trimethylbenzene	0.444	0.200	--	2.18	0.983	--		1
1,2,4-Trimethylbenzene	1.87	0.200	--	9.19	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	91		60-140

Project Name: ***Lab Number:*** L2243234

Project Number: Not Specified ***Report Date:*** 08/25/22

SAMPLE RESULTS

Lab ID: L2243234-02 D
Client ID: EFFLUENT
Sample Location: 77-63 VLEIGH

Date Collected: 08/10/22 11:46
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/23/22 23:51
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.426	0.400	--	2.11	1.98	--		2
Chloromethane	0.646	0.400	--	1.33	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	ND	0.400	--	ND	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	23.0	10.0	--	43.3	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	59.2	2.00	--	141	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	2.48	1.00	--	6.10	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Tertiary butyl Alcohol	8.15	1.00	--	24.7	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	ND	0.400	--	ND	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	6.39	1.00	--	18.8	2.95	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2

Project Name: ***Lab Number:*** L2243234

Project Number: Not Specified ***Report Date:*** 08/25/22

SAMPLE RESULTS

Lab ID: L2243234-02 D
Client ID: EFFLUENT
Sample Location: 77-63 VLEIGH

Date Collected: 08/10/22 11:46
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.00	--	ND	3.60	--		2
Chloroform	6.87	0.400	--	33.5	1.95	--		2
Tetrahydrofuran	ND	1.00	--	ND	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	0.462	0.400	--	1.63	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	2.94	0.400	--	9.39	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	0.460	0.400	--	1.58	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	1.57	0.400	--	8.44	2.15	--		2
2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--		2
Heptane	0.602	0.400	--	2.47	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	3.98	0.400	--	15.0	1.51	--		2
2-Hexanone	0.808	0.400	--	3.31	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	160	0.400	--	1080	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	0.794	0.400	--	3.45	1.74	--		2

Project Name: ***Lab Number:*** L2243234

Project Number: Not Specified ***Report Date:*** 08/25/22

SAMPLE RESULTS

Lab ID: L2243234-02 D
Client ID: EFFLUENT
Sample Location: 77-63 VLEIGH

Date Collected: 08/10/22 11:46
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.57	0.800	--	11.2	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	1.11	0.400	--	4.82	1.74	--		2
4-Ethyltoluene	ND	0.400	--	ND	1.97	--		2
1,3,5-Trimethylbenzene	ND	0.400	--	ND	1.97	--		2
1,2,4-Trimethylbenzene	1.15	0.400	--	5.65	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L2243234
Report Date: 08/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/23/22 17:30

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1678730-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: Not Specified
Project Number: Not Specified
Lab Number: L2243234
Report Date: 08/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/23/22 17:30

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1678730-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L2243234
Report Date: 08/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/23/22 17:30

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1678730-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L2243234
Report Date: 08/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1678730-3								
Dichlorodifluoromethane	89		-		70-130	-		
Chloromethane	91		-		70-130	-		
Freon-114	95		-		70-130	-		
Vinyl chloride	92		-		70-130	-		
1,3-Butadiene	96		-		70-130	-		
Bromomethane	90		-		70-130	-		
Chloroethane	90		-		70-130	-		
Ethanol	81		-		40-160	-		
Vinyl bromide	81		-		70-130	-		
Acetone	82		-		40-160	-		
Trichlorofluoromethane	77		-		70-130	-		
Isopropanol	77		-		40-160	-		
1,1-Dichloroethene	93		-		70-130	-		
Tertiary butyl Alcohol	80		-		70-130	-		
Methylene chloride	100		-		70-130	-		
3-Chloropropene	97		-		70-130	-		
Carbon disulfide	94		-		70-130	-		
Freon-113	98		-		70-130	-		
trans-1,2-Dichloroethene	81		-		70-130	-		
1,1-Dichloroethane	88		-		70-130	-		
Methyl tert butyl ether	95		-		70-130	-		
2-Butanone	93		-		70-130	-		
cis-1,2-Dichloroethene	88		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L2243234
Report Date: 08/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1678730-3								
Ethyl Acetate	86		-		70-130	-		
Chloroform	89		-		70-130	-		
Tetrahydrofuran	95		-		70-130	-		
1,2-Dichloroethane	74		-		70-130	-		
n-Hexane	93		-		70-130	-		
1,1,1-Trichloroethane	91		-		70-130	-		
Benzene	105		-		70-130	-		
Carbon tetrachloride	90		-		70-130	-		
Cyclohexane	95		-		70-130	-		
1,2-Dichloropropane	102		-		70-130	-		
Bromodichloromethane	92		-		70-130	-		
1,4-Dioxane	102		-		70-130	-		
Trichloroethene	104		-		70-130	-		
2,2,4-Trimethylpentane	96		-		70-130	-		
Heptane	109		-		70-130	-		
cis-1,3-Dichloropropene	115		-		70-130	-		
4-Methyl-2-pentanone	109		-		70-130	-		
trans-1,3-Dichloropropene	94		-		70-130	-		
1,1,2-Trichloroethane	110		-		70-130	-		
Toluene	112		-		70-130	-		
2-Hexanone	120		-		70-130	-		
Dibromochloromethane	111		-		70-130	-		
1,2-Dibromoethane	118		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L2243234
Report Date: 08/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1678730-3								
Tetrachloroethene	113		-		70-130	-		
Chlorobenzene	116		-		70-130	-		
Ethylbenzene	119		-		70-130	-		
p/m-Xylene	116		-		70-130	-		
Bromoform	119		-		70-130	-		
Styrene	125		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	118		-		70-130	-		
4-Ethyltoluene	113		-		70-130	-		
1,3,5-Trimethylbenzene	120		-		70-130	-		
1,2,4-Trimethylbenzene	120		-		70-130	-		
Benzyl chloride	92		-		70-130	-		
1,3-Dichlorobenzene	114		-		70-130	-		
1,4-Dichlorobenzene	113		-		70-130	-		
1,2-Dichlorobenzene	114		-		70-130	-		
1,2,4-Trichlorobenzene	101		-		70-130	-		
Hexachlorobutadiene	105		-		70-130	-		

Project Name:

Lab Number: L2243234

Project Number:

Report Date: 08/25/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2243234-01	INFLUENT	01717	Flow 2	08/10/22	396302		-	-	-	Pass	40.7	40.0	2
L2243234-01	INFLUENT	972	6.0L Can	08/10/22	396302	L2239490-05	Pass	-29.5	-5.9	-	-	-	-
L2243234-02	EFFLUENT	02128	Flow 2	08/10/22	396302		-	-	-	Pass	40.3	39.8	1
L2243234-02	EFFLUENT	2848	6.0L Can	08/10/22	396302	L2239490-05	Pass	-29.4	-8.4	-	-	-	-
L2243234-03	UNUSED_CAN2621	02167	Flow 2	08/10/22	396302		-	-	-	Pass	40.1	36.7	9
L2243234-03	UNUSED_CAN2621	2621	6.0L Can	08/10/22	396302	L2239490-05	Pass	-29.4	-29.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2239490
Report Date: 08/25/22

Air Canister Certification Results

Lab ID: L2239490-05
Client ID: CAN 1819 SHELF 33
Sample Location:

Date Collected: 07/22/22 18:00
Date Received: 07/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/25/22 20:38
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2239490

Project Number: CANISTER QC BAT **Report Date:** 08/25/22

Air Canister Certification Results

Lab ID: L2239490-05
Client ID: CAN 1819 SHELF 33
Sample Location:

Date Collected: 07/22/22 18:00
Date Received: 07/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2239490
Report Date: 08/25/22

Air Canister Certification Results

Lab ID: L2239490-05
Client ID: CAN 1819 SHELF 33
Sample Location:

Date Collected: 07/22/22 18:00
Date Received: 07/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2239490
Report Date: 08/25/22

Air Canister Certification Results

Lab ID: L2239490-05
Client ID: CAN 1819 SHELF 33
Sample Location:

Date Collected: 07/22/22 18:00
Date Received: 07/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2239490
Report Date: 08/25/22

Air Canister Certification Results

Lab ID: L2239490-05
Client ID: CAN 1819 SHELF 33
Sample Location:

Date Collected: 07/22/22 18:00
Date Received: 07/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2239490
Report Date: 08/25/22

Air Canister Certification Results

Lab ID: L2239490-05
Client ID: CAN 1819 SHELF 33
Sample Location:

Date Collected: 07/22/22 18:00
Date Received: 07/25/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/25/22 20:38
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2239490
Report Date: 08/25/22

Air Canister Certification Results

Lab ID: L2239490-05
Client ID: CAN 1819 SHELF 33
Sample Location:

Date Collected: 07/22/22 18:00
Date Received: 07/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2239490
Report Date: 08/25/22

Air Canister Certification Results

Lab ID: L2239490-05
Client ID: CAN 1819 SHELF 33
Sample Location:

Date Collected: 07/22/22 18:00
Date Received: 07/25/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	93		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L2243234
Report Date: 08/25/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	*Custody Seal*
NA	Absent

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L2243234-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2243234-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2243234-03A	Canister - 6 Liter	NA	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name: Not Specified
Project Number: Not Specified
Lab Number: L2243234
Report Date: 08/25/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L2243234
Project Number:	Not Specified	**Report Date:**	08/25/22

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L2243234
Project Number:	Not Specified	**Report Date:**	08/25/22

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/12/22

ALPHA Job #: L2243234

Client Information

Client: EnviroTrac Ltd
Address: 5 Old Dock Road
Yaphank NY 11980
Phone: 631 924 3001
Fax:
Email: Tracyw@EnviroTrac.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 77-63 Uleigh
Project #:
Project Manager: Tracy Wall
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS: TO-15, TO-15 SIM, APH, Subtract Nonpetroleum HCs, Fixed Gases, Sulfides & Mercaptans by TO-15

ASP B
EQuiS/EDD

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size (ID)	ID Can (Outlet)	ID - Flow Controller	TO-15	TO-15 SIM	APH	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
43234-01	Influent	8/10/22	10:00	11:36	-30.14	-5.83	SV	JAL	972	01717		X					
02	Effluent	8/10/22	9:43	11:46	-29.89	-7.84	SV	JAL	2848	0219		X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: SV

Relinquished By:	Date/Time	Received By:	Date/Time:
(JAL) EnviroTrac LTD.	8/11/22 13:45	[signature] AAL	8/11/22 9:30
[signature] AAL	8/11/22	[signature]	8/11/22 2100
[signature]		ES AAL	8/11/22 2350
ES AAL	8/12/22 0300	[signature]	8/12/22 0300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2243252
Client:	Envirotrac Ltd. 5 Old Dock Road Yaphank, NY 11980
ATTN:	Tracy Wall
Phone:	(631) 924-3001
Project Name:	77-63 VLEIGH PLACE
Project Number:	01.992302.00
Report Date:	08/24/22

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2243252-01	MW-1	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 10:57	08/11/22
L2243252-02	MW-2	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 07:51	08/11/22
L2243252-03	MW-3S	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 09:49	08/11/22
L2243252-04	MW-3D	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 10:12	08/11/22
L2243252-05	MW-6	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 11:11	08/11/22
L2243252-06	MW-7	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 07:25	08/11/22
L2243252-07	MW-11	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 11:21	08/11/22
L2243252-08	MW-12	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 09:09	08/11/22
L2243252-09	MW-13	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 08:33	08/11/22
L2243252-10	TRIP BLANK	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 00:00	08/11/22
L2243252-11	FIELD BLANK	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 09:50	08/11/22
L2243252-12	EQUIPMENT BLANK	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 10:09	08/11/22
L2243252-13	BLIND DUPLICATE	WATER	77-63 VLEIGH PLACE, FLUSHING, NY	08/10/22 07:29	08/11/22

Project Name:	77-63 VLEIGH PLACE	**Lab Number:**	L2243252
Project Number:	01.992302.00	**Report Date:**	08/24/22

Case Narrative

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

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

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

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

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

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

Project Name:	77-63 VLEIGH PLACE	**Lab Number:**	L2243252
Project Number:	01.992302.00	**Report Date:**	08/24/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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

Authorized Signature: Steven Gniadek

Title: Technical Director/Representative Date: 08/24/22

ORGANICS

VOLATILES

Project Name: 77-63 VLEIGH PLACE
Lab Number: L2243252
Project Number: 01.992302.00
Report Date: 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-01
Client ID: MW-1
Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY
Date Collected: 08/10/22 10:57
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/16/22 14:40
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	15		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	4.3		ug/l	0.50	0.18	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-01 Date Collected: 08/10/22 10:57

Client ID: MW-1 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-01 Date Collected: 08/10/22 10:57

Client ID: MW-1 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: 77-63 VLEIGH PLACE
Lab Number: L2243252
Project Number: 01.992302.00
Report Date: 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-02
Client ID: MW-2
Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY
Date Collected: 08/10/22 07:51
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/16/22 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	5.1		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	20		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.46	J	ug/l	0.50	0.18	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-02 Date Collected: 08/10/22 07:51

Client ID: MW-2 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-02 Date Collected: 08/10/22 07:51

Client ID: MW-2 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	101		70-130

Project Name: 77-63 VLEIGH PLACE
Lab Number: L2243252
Project Number: 01.992302.00
Report Date: 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-03 D
Client ID: MW-3S
Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY
Date Collected: 08/10/22 09:49
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/16/22 15:32
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	14		ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	260		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	ND		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
1,1-Dichloropropene	ND		ug/l	6.2	1.8	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	ND		ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	ND		ug/l	2.5	0.18	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	ND		ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5
Trichloroethene	2.1		ug/l	1.2	0.44	2.5

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-03 D Date Collected: 08/10/22 09:49

Client ID: MW-3S Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,3-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	1.8	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5
Dibromomethane	ND		ug/l	12	2.5	2.5
1,2,3-Trichloropropane	ND		ug/l	6.2	1.8	2.5
Acrylonitrile	ND		ug/l	12	3.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	ND		ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
Vinyl acetate	ND		ug/l	12	2.5	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
2-Hexanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
2,2-Dichloropropane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,3-Dichloropropane	ND		ug/l	6.2	1.8	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	6.2	1.8	2.5
Bromobenzene	ND		ug/l	6.2	1.8	2.5
n-Butylbenzene	ND		ug/l	6.2	1.8	2.5
sec-Butylbenzene	ND		ug/l	6.2	1.8	2.5
tert-Butylbenzene	ND		ug/l	6.2	1.8	2.5
o-Chlorotoluene	ND		ug/l	6.2	1.8	2.5
p-Chlorotoluene	ND		ug/l	6.2	1.8	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Hexachlorobutadiene	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
p-Isopropyltoluene	ND		ug/l	6.2	1.8	2.5
Naphthalene	ND		ug/l	6.2	1.8	2.5
n-Propylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-03 D Date Collected: 08/10/22 09:49

Client ID: MW-3S Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trimethylbenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5
Freon-113	ND		ug/l	6.2	1.8	2.5
p-Diethylbenzene	ND		ug/l	5.0	1.8	2.5
p-Ethyltoluene	ND		ug/l	5.0	1.8	2.5
1,2,4,5-Tetramethylbenzene	ND		ug/l	5.0	1.4	2.5
Ethyl ether	ND		ug/l	6.2	1.8	2.5
trans-1,4-Dichloro-2-butene	ND		ug/l	6.2	1.8	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	97		70-130

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00
Lab Number: L2243252
Report Date: 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-04
Client ID: MW-3D
Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY
Date Collected: 08/10/22 10:12
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/16/22 15:58
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	16		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	6.4		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-04 Date Collected: 08/10/22 10:12

Client ID: MW-3D Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-04 Date Collected: 08/10/22 10:12

Client ID: MW-3D Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	101		70-130

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00
Lab Number: L2243252
Report Date: 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-05
Client ID: MW-6
Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY
Date Collected: 08/10/22 11:11
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/16/22 16:24
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	12		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	11		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.59		ug/l	0.50	0.18	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-05 Date Collected: 08/10/22 11:11

Client ID: MW-6 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-05 Date Collected: 08/10/22 11:11

Client ID: MW-6 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	101		70-130

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00
Lab Number: L2243252
Report Date: 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-06
Client ID: MW-7
Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY
Date Collected: 08/10/22 07:25
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/16/22 16:50
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	28		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	55		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.59		ug/l	0.50	0.18	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-06 Date Collected: 08/10/22 07:25

Client ID: MW-7 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-06 Date Collected: 08/10/22 07:25

Client ID: MW-7 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-07 D
Client ID: MW-11
Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY

Date Collected: 08/10/22 11:21
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/16/22 17:16
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	170		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
1,1-Dichloropropene	ND		ug/l	5.0	1.4	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	0.17	J	ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Trichloroethene	1.7		ug/l	1.0	0.35	2

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-07 D Date Collected: 08/10/22 11:21

Client ID: MW-11 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	1.5	J	ug/l	5.0	1.4	2
Dibromomethane	ND		ug/l	10	2.0	2
1,2,3-Trichloropropane	ND		ug/l	5.0	1.4	2
Acrylonitrile	ND		ug/l	10	3.0	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	10		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	3.9	2
Vinyl acetate	ND		ug/l	10	2.0	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
2,2-Dichloropropane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,3-Dichloropropane	ND		ug/l	5.0	1.4	2
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.4	2
Bromobenzene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
o-Chlorotoluene	ND		ug/l	5.0	1.4	2
p-Chlorotoluene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Hexachlorobutadiene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	ND		ug/l	5.0	1.4	2
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-07 D Date Collected: 08/10/22 11:21

Client ID: MW-11 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,4-Dioxane	ND		ug/l	500	120	2
Freon-113	ND		ug/l	5.0	1.4	2
p-Diethylbenzene	ND		ug/l	4.0	1.4	2
p-Ethyltoluene	ND		ug/l	4.0	1.4	2
1,2,4,5-Tetramethylbenzene	ND		ug/l	4.0	1.1	2
Ethyl ether	ND		ug/l	5.0	1.4	2
trans-1,4-Dichloro-2-butene	ND		ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00
Lab Number: L2243252
Report Date: 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-08
Client ID: MW-12
Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY
Date Collected: 08/10/22 09:09
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/17/22 11:02
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	2.4	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	78		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.4		ug/l	0.50	0.18	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-08 Date Collected: 08/10/22 09:09

Client ID: MW-12 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	0.72	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-08 Date Collected: 08/10/22 09:09

Client ID: MW-12 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-09 Date Collected: 08/10/22 08:33
Client ID: MW-13 Date Received: 08/11/22
Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/20/22 03:13
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.53		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-09 Date Collected: 08/10/22 08:33

Client ID: MW-13 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-09 Date Collected: 08/10/22 08:33

Client ID: MW-13 Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-10 Date Collected: 08/10/22 00:00

Client ID: TRIP BLANK Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 08/16/22 15:56

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-10 Date Collected: 08/10/22 00:00

Client ID: TRIP BLANK Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-10 Date Collected: 08/10/22 00:00

Client ID: TRIP BLANK Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-11 Date Collected: 08/10/22 09:50
Client ID: FIELD BLANK Date Received: 08/11/22
Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/16/22 16:19
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-11 Date Collected: 08/10/22 09:50

Client ID: FIELD BLANK Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-11 Date Collected: 08/10/22 09:50

Client ID: FIELD BLANK Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-12 Date Collected: 08/10/22 10:09

Client ID: EQUIPMENT BLANK Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 08/17/22 11:45

Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-12 Date Collected: 08/10/22 10:09

Client ID: EQUIPMENT BLANK Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-12 Date Collected: 08/10/22 10:09

Client ID: EQUIPMENT BLANK Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Project Name: 77-63 VLEIGH PLACE
Lab Number: L2243252
Project Number: 01.992302.00
Report Date: 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-13
Client ID: BLIND DUPLICATE
Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY
Date Collected: 08/10/22 07:29
Date Received: 08/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/17/22 12:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	28		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	58		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.52		ug/l	0.50	0.18	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-13 Date Collected: 08/10/22 07:29

Client ID: BLIND DUPLICATE Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

SAMPLE RESULTS

Lab ID: L2243252-13 Date Collected: 08/10/22 07:29

Client ID: BLIND DUPLICATE Date Received: 08/11/22

Sample Location: 77-63 VLEIGH PLACE, FLUSHING, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/16/22 08:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1676097-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/16/22 08:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1676097-5					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/16/22 08:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1676097-5					
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/16/22 09:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1676253-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/16/22 09:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1676253-5					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00
Lab Number: L2243252
Report Date: 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/16/22 09:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1676253-5					
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/17/22 08:35
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08,12-13 Batch: WG1676914-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00
Lab Number: L2243252
Report Date: 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/17/22 08:35
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08,12-13 Batch: WG1676914-5					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00
Lab Number: L2243252
Report Date: 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/17/22 08:35
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08,12-13 Batch: WG1676914-5					
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: 77-63 VLEIGH PLACE **Lab Number:** L2243252

Project Number: 01.992302.00 **Report Date:** 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/19/22 19:24
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1678140-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00
Lab Number: L2243252
Report Date: 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/19/22 19:24
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1678140-5					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00
Lab Number: L2243252
Report Date: 08/24/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/19/22 19:24
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1678140-5					
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1676097-3 WG1676097-4								
Methylene chloride	90		95		70-130	5		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	98		100		70-130	2		20
Carbon tetrachloride	96		100		63-132	4		20
1,2-Dichloropropane	94		100		70-130	6		20
Dibromochloromethane	87		94		63-130	8		20
1,1,2-Trichloroethane	92		100		70-130	8		20
Tetrachloroethene	99		98		70-130	1		20
Chlorobenzene	94		98		75-130	4		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	94		100		67-130	6		20
Bromodichloromethane	110		120		67-130	9		20
trans-1,3-Dichloropropene	92		97		70-130	5		20
cis-1,3-Dichloropropene	93		99		70-130	6		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	86		95		54-136	10		20
1,1,2,2-Tetrachloroethane	94		100		67-130	6		20
Benzene	100		100		70-130	0		20
Toluene	98		99		70-130	1		20
Ethylbenzene	98		99		70-130	1		20
Chloromethane	130		**140**	Q	64-130	7		20
Bromomethane	92		88		39-139	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1676097-3 WG1676097-4								
Vinyl chloride	130		140		55-140	7		20
Chloroethane	**210**	Q	**210**	Q	55-138	0		20
1,1-Dichloroethene	99		100		61-145	1		20
trans-1,2-Dichloroethene	99		100		70-130	1		20
Trichloroethene	92		96		70-130	4		20
1,2-Dichlorobenzene	90		97		70-130	7		20
1,3-Dichlorobenzene	91		97		70-130	6		20
1,4-Dichlorobenzene	92		98		70-130	6		20
Methyl tert butyl ether	87		97		63-130	11		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	90		100		70-130	11		20
Dibromomethane	95		100		70-130	5		20
1,2,3-Trichloropropane	88		100		64-130	13		20
Acrylonitrile	100		120		70-130	18		20
Styrene	95		100		70-130	5		20
Dichlorodifluoromethane	110		120		36-147	9		20
Acetone	99		110		58-148	11		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	81		110		63-138	**30**	Q	20
Vinyl acetate	130		**150**	Q	70-130	14		20
4-Methyl-2-pentanone	90		100		59-130	11		20
2-Hexanone	82		100		57-130	20		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1676097-3 WG1676097-4								
Bromochloromethane	89		92		70-130	3		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	86		96		70-130	11		20
1,3-Dichloropropane	95		100		70-130	5		20
1,1,1,2-Tetrachloroethane	90		92		64-130	2		20
Bromobenzene	85		95		70-130	11		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	98		98		70-130	0		20
tert-Butylbenzene	92		93		70-130	1		20
o-Chlorotoluene	94		98		70-130	4		20
p-Chlorotoluene	93		97		70-130	4		20
1,2-Dibromo-3-chloropropane	76		89		41-144	16		20
Hexachlorobutadiene	100		98		63-130	2		20
Isopropylbenzene	92		96		70-130	4		20
p-Isopropyltoluene	94		93		70-130	1		20
Naphthalene	**68**	Q	83		70-130	20		20
n-Propylbenzene	98		99		69-130	1		20
1,2,3-Trichlorobenzene	80		94		70-130	16		20
1,2,4-Trichlorobenzene	84		93		70-130	10		20
1,3,5-Trimethylbenzene	92		95		64-130	3		20
1,2,4-Trimethylbenzene	91		93		70-130	2		20
1,4-Dioxane	84		104		56-162	**21**	Q	20
Freon-113	110		120		70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 77-63 VLEIGH PLACE

Project Number: 01.992302.00

Lab Number: L2243252

Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1676097-3 WG1676097-4								
p-Diethylbenzene	96		94		70-130	2		20
p-Ethyltoluene	95		96		70-130	1		20
1,2,4,5-Tetramethylbenzene	81		84		70-130	4		20
Ethyl ether	96		100		59-134	4		20
trans-1,4-Dichloro-2-butene	75		82		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		112		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	92		93		70-130
Dibromofluoromethane	98		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1676253-3 WG1676253-4								
Methylene chloride	100		97		70-130	3		20
1,1-Dichloroethane	97		96		70-130	1		20
Chloroform	98		97		70-130	1		20
Carbon tetrachloride	98		100		63-132	2		20
1,2-Dichloropropane	92		93		70-130	1		20
Dibromochloromethane	96		98		63-130	2		20
1,1,2-Trichloroethane	97		99		70-130	2		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	98		100		75-130	2		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	93		93		70-130	0		20
1,1,1-Trichloroethane	97		96		67-130	1		20
Bromodichloromethane	94		96		67-130	2		20
trans-1,3-Dichloropropene	98		100		70-130	2		20
cis-1,3-Dichloropropene	96		97		70-130	1		20
1,1-Dichloropropene	99		100		70-130	1		20
Bromoform	94		98		54-136	4		20
1,1,2,2-Tetrachloroethane	94		99		67-130	5		20
Benzene	98		98		70-130	0		20
Toluene	96		98		70-130	2		20
Ethylbenzene	96		98		70-130	2		20
Chloromethane	**54**	Q	**55**	Q	64-130	2		20
Bromomethane	62		66		39-139	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1676253-3 WG1676253-4								
Vinyl chloride	96		95		55-140	1		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	97		99		70-130	2		20
1,3-Dichlorobenzene	98		100		70-130	2		20
1,4-Dichlorobenzene	96		98		70-130	2		20
Methyl tert butyl ether	96		100		63-130	4		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		99		70-130	1		20
Dibromomethane	99		100		70-130	1		20
1,2,3-Trichloropropane	92		96		64-130	4		20
Acrylonitrile	86		88		70-130	2		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	87		86		36-147	1		20
Acetone	72		74		58-148	3		20
Carbon disulfide	99		99		51-130	0		20
2-Butanone	68		72		63-138	6		20
Vinyl acetate	91		93		70-130	2		20
4-Methyl-2-pentanone	81		86		59-130	6		20
2-Hexanone	73		80		57-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 77-63 VLEIGH PLACE

Project Number: 01.992302.00

Lab Number: L2243252

Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1676253-3 WG1676253-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	96		100		70-130	4		20
1,3-Dichloropropane	95		98		70-130	3		20
1,1,1,2-Tetrachloroethane	96		99		64-130	3		20
Bromobenzene	96		99		70-130	3		20
n-Butylbenzene	98		100		53-136	2		20
sec-Butylbenzene	98		100		70-130	2		20
tert-Butylbenzene	97		99		70-130	2		20
o-Chlorotoluene	94		96		70-130	2		20
p-Chlorotoluene	95		96		70-130	1		20
1,2-Dibromo-3-chloropropane	90		99		41-144	10		20
Hexachlorobutadiene	100		110		63-130	10		20
Isopropylbenzene	97		98		70-130	1		20
p-Isopropyltoluene	99		100		70-130	1		20
Naphthalene	90		110		70-130	20		20
n-Propylbenzene	97		98		69-130	1		20
1,2,3-Trichlorobenzene	96		110		70-130	14		20
1,2,4-Trichlorobenzene	99		110		70-130	11		20
1,3,5-Trimethylbenzene	95		97		64-130	2		20
1,2,4-Trimethylbenzene	96		98		70-130	2		20
1,4-Dioxane	112		116		56-162	4		20
Freon-113	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 77-63 VLEIGH PLACE

Project Number: 01.992302.00

Lab Number: L2243252

Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1676253-3 WG1676253-4								
p-Diethylbenzene	100		100		70-130	0		20
p-Ethyltoluene	98		100		70-130	2		20
1,2,4,5-Tetramethylbenzene	96		99		70-130	3		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	100		110		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		92		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	97		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,12-13 Batch: WG1676914-3 WG1676914-4								
Methylene chloride	95		96		70-130	1		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	95		96		63-132	1		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	91		93		63-130	2		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	100		110		70-130	10		20
Chlorobenzene	98		100		75-130	2		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	99		98		67-130	1		20
Bromodichloromethane	95		94		67-130	1		20
trans-1,3-Dichloropropene	85		89		70-130	5		20
cis-1,3-Dichloropropene	84		82		70-130	2		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	83		85		54-136	2		20
1,1,2,2-Tetrachloroethane	93		98		67-130	5		20
Benzene	100		100		70-130	0		20
Toluene	98		100		70-130	2		20
Ethylbenzene	97		100		70-130	3		20
Chloromethane	120		120		64-130	0		20
Bromomethane	91		95		39-139	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,12-13 Batch: WG1676914-3 WG1676914-4								
Vinyl chloride	120		130		55-140	8		20
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	95		97		70-130	2		20
1,3-Dichlorobenzene	98		100		70-130	2		20
1,4-Dichlorobenzene	96		100		70-130	4		20
Methyl tert butyl ether	89		93		63-130	4		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	96		97		70-130	1		20
Dibromomethane	95		96		70-130	1		20
1,2,3-Trichloropropane	93		99		64-130	6		20
Acrylonitrile	97		98		70-130	1		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	130		140		36-147	7		20
Acetone	120		120		58-148	0		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	100		110		63-138	10		20
Vinyl acetate	100		110		70-130	10		20
4-Methyl-2-pentanone	89		92		59-130	3		20
2-Hexanone	80		86		57-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 77-63 VLEIGH PLACE

Project Number: 01.992302.00

Lab Number: L2243252

Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,12-13 Batch: WG1676914-3 WG1676914-4								
Bromochloromethane	100		97		70-130	3		20
2,2-Dichloropropane	90		91		63-133	1		20
1,2-Dibromoethane	98		100		70-130	2		20
1,3-Dichloropropane	98		100		70-130	2		20
1,1,1,2-Tetrachloroethane	94		98		64-130	4		20
Bromobenzene	92		96		70-130	4		20
n-Butylbenzene	99		100		53-136	1		20
sec-Butylbenzene	97		100		70-130	3		20
tert-Butylbenzene	93		97		70-130	4		20
o-Chlorotoluene	97		100		70-130	3		20
p-Chlorotoluene	95		99		70-130	4		20
1,2-Dibromo-3-chloropropane	70		78		41-144	11		20
Hexachlorobutadiene	98		100		63-130	2		20
Isopropylbenzene	92		96		70-130	4		20
p-Isopropyltoluene	94		98		70-130	4		20
Naphthalene	77		81		70-130	5		20
n-Propylbenzene	96		100		69-130	4		20
1,2,3-Trichlorobenzene	89		92		70-130	3		20
1,2,4-Trichlorobenzene	90		91		70-130	1		20
1,3,5-Trimethylbenzene	93		98		64-130	5		20
1,2,4-Trimethylbenzene	92		96		70-130	4		20
1,4-Dioxane	94		96		56-162	2		20
Freon-113	130		130		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 77-63 VLEIGH PLACE

Project Number: 01.992302.00

Lab Number: L2243252

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,12-13 Batch: WG1676914-3 WG1676914-4								
p-Diethylbenzene	92		97		70-130	5		20
p-Ethyltoluene	95		99		70-130	4		20
1,2,4,5-Tetramethylbenzene	80		84		70-130	5		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	90		91		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		111		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	102		97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1678140-3 WG1678140-4								
Methylene chloride	94		96		70-130	2		20
1,1-Dichloroethane	91		93		70-130	2		20
Chloroform	88		92		70-130	4		20
Carbon tetrachloride	91		94		63-132	3		20
1,2-Dichloropropane	88		91		70-130	3		20
Dibromochloromethane	94		97		63-130	3		20
1,1,2-Trichloroethane	96		99		70-130	3		20
Tetrachloroethene	97		100		70-130	3		20
Chlorobenzene	95		95		75-130	0		20
Trichlorofluoromethane	92		94		62-150	2		20
1,2-Dichloroethane	87		90		70-130	3		20
1,1,1-Trichloroethane	90		91		67-130	1		20
Bromodichloromethane	90		93		67-130	3		20
trans-1,3-Dichloropropene	92		96		70-130	4		20
cis-1,3-Dichloropropene	87		90		70-130	3		20
1,1-Dichloropropene	91		94		70-130	3		20
Bromoform	93		97		54-136	4		20
1,1,2,2-Tetrachloroethane	97		99		67-130	2		20
Benzene	91		93		70-130	2		20
Toluene	94		95		70-130	1		20
Ethylbenzene	93		94		70-130	1		20
Chloromethane	**47**	Q	**48**	Q	64-130	2		20
Bromomethane	44		44		39-139	0		20

Lab Control Sample Analysis
Batch Quality Control

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Lab Number: L2243252
Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1678140-3 WG1678140-4								
Vinyl chloride	85		84		55-140	1		20
Chloroethane	95		95		55-138	0		20
1,1-Dichloroethene	92		95		61-145	3		20
trans-1,2-Dichloroethene	94		95		70-130	1		20
Trichloroethene	96		96		70-130	0		20
1,2-Dichlorobenzene	94		96		70-130	2		20
1,3-Dichlorobenzene	95		97		70-130	2		20
1,4-Dichlorobenzene	94		96		70-130	2		20
Methyl tert butyl ether	91		97		63-130	6		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	92		94		70-130	2		20
Dibromomethane	91		95		70-130	4		20
1,2,3-Trichloropropane	88		90		64-130	2		20
Acrylonitrile	90		94		70-130	4		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	73		73		36-147	0		20
Acetone	72		80		58-148	11		20
Carbon disulfide	92		93		51-130	1		20
2-Butanone	73		80		63-138	9		20
Vinyl acetate	91		96		70-130	5		20
4-Methyl-2-pentanone	84		89		59-130	6		20
2-Hexanone	83		92		57-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1678140-3 WG1678140-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	94		100		70-130	6		20
1,3-Dichloropropane	94		97		70-130	3		20
1,1,1,2-Tetrachloroethane	92		96		64-130	4		20
Bromobenzene	95		96		70-130	1		20
n-Butylbenzene	95		97		53-136	2		20
sec-Butylbenzene	94		96		70-130	2		20
tert-Butylbenzene	93		95		70-130	2		20
o-Chlorotoluene	92		94		70-130	2		20
p-Chlorotoluene	93		94		70-130	1		20
1,2-Dibromo-3-chloropropane	90		94		41-144	4		20
Hexachlorobutadiene	95		95		63-130	0		20
Isopropylbenzene	95		97		70-130	2		20
p-Isopropyltoluene	95		97		70-130	2		20
Naphthalene	85		93		70-130	9		20
n-Propylbenzene	95		97		69-130	2		20
1,2,3-Trichlorobenzene	88		95		70-130	8		20
1,2,4-Trichlorobenzene	89		94		70-130	5		20
1,3,5-Trimethylbenzene	94		95		64-130	1		20
1,2,4-Trimethylbenzene	94		96		70-130	2		20
1,4-Dioxane	90		96		56-162	6		20
Freon-113	100		110		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 77-63 VLEIGH PLACE

Project Number: 01.992302.00

Lab Number: L2243252

Report Date: 08/24/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1678140-3 WG1678140-4								
p-Diethylbenzene	96		98		70-130	2		20
p-Ethyltoluene	96		98		70-130	2		20
1,2,4,5-Tetramethylbenzene	90		92		70-130	2		20
Ethyl ether	92		97		59-134	5		20
trans-1,4-Dichloro-2-butene	100		110		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		97		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	98		99		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00
Lab Number: L2243252
Report Date: 08/24/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1678140-6 WG1678140-7 QC Sample: L2243252-09 Client ID: MW-13												
Methylene chloride	ND	10	9.0	90		8.7	87		70-130	3		20
1,1-Dichloroethane	ND	10	9.0	90		8.8	88		70-130	2		20
Chloroform	ND	10	9.0	90		8.6	86		70-130	5		20
Carbon tetrachloride	ND	10	9.4	94		9.2	92		63-132	2		20
1,2-Dichloropropane	ND	10	8.6	86		8.4	84		70-130	2		20
Dibromochloromethane	ND	10	9.0	90		8.4	84		63-130	7		20
1,1,2-Trichloroethane	ND	10	9.2	92		8.7	87		70-130	6		20
Tetrachloroethene	0.53	10	9.9	94		9.5	90		70-130	4		20
Chlorobenzene	ND	10	9.0	90		8.6	86		75-130	5		20
Trichlorofluoromethane	ND	10	9.6	96		9.2	92		62-150	4		20
1,2-Dichloroethane	ND	10	8.6	86		8.4	84		70-130	2		20
1,1,1-Trichloroethane	ND	10	9.1	91		8.7	87		67-130	4		20
Bromodichloromethane	ND	10	8.7	87		8.4	84		67-130	4		20
trans-1,3-Dichloropropene	ND	10	8.5	85		8.1	81		70-130	5		20
cis-1,3-Dichloropropene	ND	10	8.0	80		7.8	78		70-130	3		20
1,1-Dichloropropene	ND	10	9.2	92		8.7	87		70-130	6		20
Bromoform	ND	10	8.8	88		8.3	83		54-136	6		20
1,1,2,2-Tetrachloroethane	ND	10	8.9	89		8.5	85		67-130	5		20
Benzene	ND	10	8.9	89		8.6	86		70-130	3		20
Toluene	ND	10	9.3	93		8.9	89		70-130	4		20
Ethylbenzene	ND	10	8.9	89		8.6	86		70-130	3		20
Chloromethane	ND	10	5.0	**50**	Q	5.0	**50**	Q	64-130	0		20
Bromomethane	ND	10	4.1	41		4.6	46		39-139	11		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1678140-6 WG1678140-7 QC Sample: L2243252-09 Client ID: MW-13												
Vinyl chloride	ND	10	8.6	86		8.3	83		55-140	4		20
Chloroethane	ND	10	9.6	96		9.4	94		55-138	2		20
1,1-Dichloroethene	ND	10	9.2	92		8.9	89		61-145	3		20
trans-1,2-Dichloroethene	ND	10	9.2	92		9.0	90		70-130	2		20
Trichloroethene	ND	10	9.4	94		8.9	89		70-130	5		20
1,2-Dichlorobenzene	ND	10	8.6	86		8.3	83		70-130	4		20
1,3-Dichlorobenzene	ND	10	8.7	87		8.4	84		70-130	4		20
1,4-Dichlorobenzene	ND	10	8.5	85		8.3	83		70-130	2		20
Methyl tert butyl ether	ND	10	8.8	88		8.5	85		63-130	3		20
p/m-Xylene	ND	20	18	90		17	85		70-130	6		20
o-Xylene	ND	20	18	90		17	85		70-130	6		20
cis-1,2-Dichloroethene	ND	10	8.9	89		8.7	87		70-130	2		20
Dibromomethane	ND	10	8.8	88		8.4	84		70-130	5		20
1,2,3-Trichloropropane	ND	10	8.7	87		8.4	84		64-130	4		20
Acrylonitrile	ND	10	8.4	84		8.4	84		70-130	0		20
Styrene	ND	20	13	**65**	Q	12	**60**	Q	70-130	8		20
Dichlorodifluoromethane	ND	10	7.6	76		7.1	71		36-147	7		20
Acetone	ND	10	8.6	86		7.6	76		58-148	12		20
Carbon disulfide	ND	10	9.0	90		8.8	88		51-130	2		20
2-Butanone	ND	10	6.8	68		6.9	69		63-138	1		20
Vinyl acetate	ND	10	7.4	74		7.0	70		70-130	6		20
4-Methyl-2-pentanone	ND	10	7.8	78		7.6	76		59-130	3		20
2-Hexanone	ND	10	10	100		9.2	92		57-130	8		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1678140-6 WG1678140-7 QC Sample: L2243252-09 Client ID: MW-13												
Bromochloromethane	ND	10	9.4	94		9.4	94		70-130	0		20
2,2-Dichloropropane	ND	10	8.6	86		8.4	84		63-133	2		20
1,2-Dibromoethane	ND	10	8.8	88		8.6	86		70-130	2		20
1,3-Dichloropropane	ND	10	9.0	90		8.4	84		70-130	7		20
1,1,1,2-Tetrachloroethane	ND	10	8.9	89		8.5	85		64-130	5		20
Bromobenzene	ND	10	8.9	89		8.4	84		70-130	6		20
n-Butylbenzene	ND	10	8.4	84		8.0	80		53-136	5		20
sec-Butylbenzene	ND	10	8.7	87		8.3	83		70-130	5		20
tert-Butylbenzene	ND	10	8.8	88		8.4	84		70-130	5		20
o-Chlorotoluene	ND	10	8.9	89		8.5	85		70-130	5		20
p-Chlorotoluene	ND	10	8.7	87		8.3	83		70-130	5		20
1,2-Dibromo-3-chloropropane	ND	10	7.5	75		7.9	79		41-144	5		20
Hexachlorobutadiene	ND	10	7.4	74		7.2	72		63-130	3		20
Isopropylbenzene	ND	10	9.1	91		8.6	86		70-130	6		20
p-Isopropyltoluene	ND	10	8.6	86		8.2	82		70-130	5		20
Naphthalene	ND	10	6.4	**64**	Q	7.1	71		70-130	10		20
n-Propylbenzene	ND	10	9.0	90		8.5	85		69-130	6		20
1,2,3-Trichlorobenzene	ND	10	6.5	**65**	Q	7.0	70		70-130	7		20
1,2,4-Trichlorobenzene	ND	10	7.0	70		7.2	72		70-130	3		20
1,3,5-Trimethylbenzene	ND	10	8.8	88		8.3	83		64-130	6		20
1,2,4-Trimethylbenzene	ND	10	8.7	87		8.4	84		70-130	4		20
1,4-Dioxane	ND	500	330	66		320	64		56-162	3		20
Freon-113	ND	10	10	100		9.8	98		70-130	2		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 77-63 VLEIGH PLACE

Project Number: 01.992302.00

Lab Number: L2243252

Report Date: 08/24/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 QC Batch ID: WG1678140-6 WG1678140-7 QC Sample: L2243252-09 Client ID: MW-13												
p-Diethylbenzene	ND	10	8.6	86		8.2	82		70-130	5		20
p-Ethyltoluene	ND	10	9.0	90		8.6	86		70-130	5		20
1,2,4,5-Tetramethylbenzene	ND	10	7.7	77		7.4	74		70-130	4		20
Ethyl ether	ND	10	8.8	88		8.6	86		59-134	2		20
trans-1,4-Dichloro-2-butene	ND	10	9.6	96		9.0	90		70-130	6		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		97		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	99		100		70-130
Toluene-d8	101		100		70-130

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2243252-01A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-01B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-01C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-02A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-02B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-02C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-03A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-03B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-03C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-04A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-04B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-04C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-05A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-05B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-05C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-06A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-06B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-06C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-07A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-07B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-07C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-08A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-08B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 77-63 VLEIGH PLACE
Project Number: 01.992302.00

Lab Number: L2243252
Report Date: 08/24/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2243252-08C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-09A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-09A1	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-09A2	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-09B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-09B1	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-09B2	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-09C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-09C1	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-09C2	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-10A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-10B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-11A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-11B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-11C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-12A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-12B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-12C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-13A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-13B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2243252-13C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	77-63 VLEIGH PLACE	**Lab Number:**	L2243252
Project Number:	01.992302.00	**Report Date:**	08/24/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	77-63 VLEIGH PLACE	**Lab Number:**	L2243252
Project Number:	01.992302.00	**Report Date:**	08/24/22

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	77-63 VLEIGH PLACE	**Lab Number:**	L2243252
Project Number:	01.992302.00	**Report Date:**	08/24/22

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	77-63 VLEIGH PLACE	**Lab Number:**	L2243252
Project Number:	01.992302.00	**Report Date:**	08/24/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

CHAIN OF COUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/11/22

ALPHA Job #: L2243252

Project Information

Project Name: 77-63 Vleigh Place

Project Location: 77-63 Vleigh Place, Flushing, NY

Project #: 01.992302.00, Task 20, Sub 22

Project Manager: Tracy Wall

ALPHA Quote #:

Client Information

Client: EnviroTrac Ltd.

Address: 5 Old Dock Road

Yaphank, NY 11980

Phone: 631-924-3001

Fax: 631-924-5001

Email: tracyw@envirotrac.com

☒ These samples have been Previously analyzed by Alpha

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program: NNYSDEC BCP

Criteria:

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

NYSDEC Category B Deliverables
NYEQUIS EDD format

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	Sample Specific Comments	TOTAL # BOTTLES
43252-01	MW-1	8/10/22	10:57	GW	JA	☒		
-02	MW-2	↓	7:51	↓	↓	☐		
-03	MW-3S	↓	9:49	↓	↓	☐		
-04	MW-3D	↓	10:12	↓	↓	☐		
-05	MW-6	↓	11:11	↓	↓	☐		
-06	MW-7	↓	7:25	↓	↓	☐		
-07	MW-11	↓	11:21	↓	↓	☐		
-08	MW-12	↓	9:09	↓	↓	☐		
-09	MW-13/MS/MSD	↓	8:33	↓	↓	☐		
-10	Trip Blank	↓		↓	↓	☐		

PLEASE ANSWER QUESTIONS ABOVE!

Container Type

Preservative

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
JA / EnviroTrac LTD.	8/10/22	Paul Pereira - AAL	8/11/22 9:30
Paul Pereira - AAL	8/11/22 13:45	Paul Mazzella	8/11/22
Paul Mazzella	8/11/22 2200	Kevin Moran	8/11/22 2230

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/11/22

ALPHA Job #: L2243252

Project Information

Project Name: 77-63 Vleigh Place

Project Location: 77-63 Vleigh Place, Flushing, NY

Project #: 01.992302.00, Task 20, Sub 22

Project Manager: Tracy Wall

ALPHA Quote #:

Client Information

Client: EnviroTrac Ltd.

Address: 5 Old Dock Road

Yaphank, NY 11980

Phone: 631-924-3001

Fax: 631-924-5001

Email: tracyw@envirotrac.com

☒ These samples have been Previously analyzed by Alpha

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
NNYSDEC BCP	

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

NYSDEC Category B Deliverables
NYEQUIS EDD format

ANALYSIS: VOCs 8260

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	Sample Specific Comments
43252-11	Field Blank	8/10/22	9:50	GW	JL	☒	
-12	Equipment Blank	↓	10:09	↓	↓	☐	
-13	Blind Duplicate	↓	7:29	↓	↓	☐	

PLEASE ANSWER QUESTIONS ABOVE!

Container Type
Preservative

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01(I) (rev. 5-JAN-12)

Relinquished By:	Date/Time	Received By:	Date/Time
JL / EnviroTrac LTD.	8/10/22	[illegible] AAL	8/11/22 9:30
[illegible] AAL	8/11/22 13:45	Paul Mazzella	8/11/22
Paul Mazzella	8/11/22	[illegible]	8/11/22 2230

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

ANALYTICAL REPORT

Lab Number:	L2200423
Client:	Envirotrac Ltd. 5 Old Dock Road Yaphank, NY 11980
ATTN:	Tracy Wall
Phone:	(631) 924-3001
Project Name:	REGENCY GARDENS
Project Number:	01.992302.00
Report Date:	01/20/22

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2200423-01	IA-RG-1	AIR	Not Specified	12/30/21 14:37	01/05/22
L2200423-02	IA-RG-2	AIR	Not Specified	12/30/21 13:18	01/05/22
L2200423-03	IA-RG-3	AIR	Not Specified	12/30/21 13:13	01/05/22
L2200423-04	IA-RG-4	AIR	Not Specified	12/30/21 13:43	01/05/22
L2200423-05	OA-RG-2	AIR	Not Specified	12/30/21 13:33	01/05/22
L2200423-06	UNUSED_CAN2630	AIR	Not Specified		01/05/22

Project Name:	REGENCY GARDENS	**Lab Number:**	L2200423
Project Number:	01.992302.00	**Report Date:**	01/20/22

Case Narrative

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

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

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

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

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

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

Project Name:	REGENCY GARDENS	**Lab Number:**	L2200423
Project Number:	01.992302.00	**Report Date:**	01/20/22

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on December 29, 2021. The canister certification results are provided as an addendum.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 01/20/22

AIR

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-01
Client ID: IA-RG-1
Sample Location:

Date Collected: 12/30/21 14:37
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/19/22 22:39
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.586	0.200	--	2.90	0.989	--		1
Chloromethane	0.553	0.200	--	1.14	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	21.3	5.00	--	40.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.94	1.00	--	14.1	2.38	--		1
Trichlorofluoromethane	0.253	0.200	--	1.42	1.12	--		1
Isopropanol	2.20	0.500	--	5.41	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	0.545	0.500	--	1.89	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-01
Client ID: IA-RG-1
Sample Location:

Date Collected: 12/30/21 14:37
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.223	0.200	--	0.786	0.705	--		1
Benzene	0.312	0.200	--	0.997	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.590	0.200	--	2.22	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-01
Client ID: IA-RG-1
Sample Location:

Date Collected: 12/30/21 14:37
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	94		60-140

Project Name: REGENCY GARDENS
Project Number: 01.992302.00
Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-01
Client ID: IA-RG-1
Sample Location:

Date Collected: 12/30/21 14:37
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/19/22 22:39
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.051	0.020	--	0.278	0.109	--		1
Carbon tetrachloride	0.092	0.020	--	0.579	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.054	0.020	--	0.366	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	95		60-140

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-02
Client ID: IA-RG-2
Sample Location:

Date Collected: 12/30/21 13:18
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/19/22 23:18
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.577	0.200	--	2.85	0.989	--		1
Chloromethane	0.563	0.200	--	1.16	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	10.7	5.00	--	20.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.40	1.00	--	5.70	2.38	--		1
Trichlorofluoromethane	0.251	0.200	--	1.41	1.12	--		1
Isopropanol	3.03	0.500	--	7.45	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.230	0.200	--	1.12	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-02
Client ID: IA-RG-2
Sample Location:

Date Collected: 12/30/21 13:18
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.260	0.200	--	0.916	0.705	--		1
Benzene	0.327	0.200	--	1.04	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.540	0.200	--	2.03	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-02
Client ID: IA-RG-2
Sample Location:

Date Collected: 12/30/21 13:18
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	93		60-140

Project Name: REGENCY GARDENS
Project Number: 01.992302.00
Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-02
Client ID: IA-RG-2
Sample Location:

Date Collected: 12/30/21 13:18
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/19/22 23:18
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.096	0.020	--	0.604	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.079	0.020	--	0.536	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	94		60-140

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-03
Client ID: IA-RG-3
Sample Location:

Date Collected: 12/30/21 13:13
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/20/22 00:36
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.578	0.200	--	2.86	0.989	--		1
Chloromethane	0.546	0.200	--	1.13	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.24	5.00	--	11.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.13	1.00	--	5.06	2.38	--		1
Trichlorofluoromethane	0.254	0.200	--	1.43	1.12	--		1
Isopropanol	1.65	0.500	--	4.06	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00
Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-03
Client ID: IA-RG-3
Sample Location:

Date Collected: 12/30/21 13:13
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.231	0.200	--	0.814	0.705	--		1
Benzene	0.343	0.200	--	1.10	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.532	0.200	--	2.00	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-03
Client ID: IA-RG-3
Sample Location:

Date Collected: 12/30/21 13:13
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	94		60-140

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-03
Client ID: IA-RG-3
Sample Location:

Date Collected: 12/30/21 13:13
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/20/22 00:36
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.098	0.020	--	0.616	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.047	0.020	--	0.319	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	95		60-140

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-04
Client ID: IA-RG-4
Sample Location:

Date Collected: 12/30/21 13:43
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/20/22 01:15
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.598	0.200	--	2.96	0.989	--		1
Chloromethane	0.553	0.200	--	1.14	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	12.6	5.00	--	23.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.16	1.00	--	5.13	2.38	--		1
Trichlorofluoromethane	0.260	0.200	--	1.46	1.12	--		1
Isopropanol	1.61	0.500	--	3.96	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-04
Client ID: IA-RG-4
Sample Location:

Date Collected: 12/30/21 13:43
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.226	0.200	--	0.796	0.705	--		1
Benzene	0.309	0.200	--	0.987	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.486	0.200	--	1.83	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-04
Client ID: IA-RG-4
Sample Location:

Date Collected: 12/30/21 13:43
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	92		60-140

Project Name: REGENCY GARDENS
Project Number: 01.992302.00
Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-04
Client ID: IA-RG-4
Sample Location:

Date Collected: 12/30/21 13:43
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/20/22 01:15
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.092	0.020	--	0.579	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.042	0.020	--	0.285	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	93		60-140

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-05
Client ID: OA-RG-2
Sample Location:

Date Collected: 12/30/21 13:33
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/19/22 22:00
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.553	0.200	--	2.73	0.989	--		1
Chloromethane	0.537	0.200	--	1.11	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	7.89	5.00	--	14.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.36	1.00	--	5.61	2.38	--		1
Trichlorofluoromethane	0.257	0.200	--	1.44	1.12	--		1
Isopropanol	2.19	0.500	--	5.38	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-05
Client ID: OA-RG-2
Sample Location:

Date Collected: 12/30/21 13:33
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	0.257	0.200	--	0.821	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.369	0.200	--	1.39	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00
Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-05
Client ID: OA-RG-2
Sample Location:

Date Collected: 12/30/21 13:33
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	97		60-140

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

SAMPLE RESULTS

Lab ID: L2200423-05
Client ID: OA-RG-2
Sample Location:

Date Collected: 12/30/21 13:33
Date Received: 01/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/19/22 22:00
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.086	0.020	--	0.541	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.036	0.020	--	0.244	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	99		60-140

Project Name: REGENCY GARDENS
Project Number: 01.992302.00
Lab Number: L2200423
Report Date: 01/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 01/19/22 16:59

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-05 Batch: WG1595924-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00
Lab Number: L2200423
Report Date: 01/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/19/22 16:20

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1595926-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00
Lab Number: L2200423
Report Date: 01/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/19/22 16:20

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1595926-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: REGENCY GARDENS
Project Number: 01.992302.00
Lab Number: L2200423
Report Date: 01/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/19/22 16:20

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1595926-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: REGENCY GARDENS

Project Number: 01.992302.00

Lab Number: L2200423

Report Date: 01/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-05 Batch: WG1595924-3								
Vinyl chloride	88		-		70-130	-		25
1,1-Dichloroethene	95		-		70-130	-		25
cis-1,2-Dichloroethene	91		-		70-130	-		25
1,1,1-Trichloroethane	94		-		70-130	-		25
Carbon tetrachloride	107		-		70-130	-		25
Trichloroethene	88		-		70-130	-		25
Tetrachloroethene	86		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: REGENCY GARDENS

Project Number: 01.992302.00

Lab Number: L2200423

Report Date: 01/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1595926-3								
Dichlorodifluoromethane	104		-		70-130	-		
Chloromethane	91		-		70-130	-		
Freon-114	100		-		70-130	-		
Vinyl chloride	95		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Bromomethane	98		-		70-130	-		
Chloroethane	95		-		70-130	-		
Ethanol	86		-		40-160	-		
Vinyl bromide	96		-		70-130	-		
Acetone	117		-		40-160	-		
Trichlorofluoromethane	107		-		70-130	-		
Isopropanol	90		-		40-160	-		
1,1-Dichloroethene	99		-		70-130	-		
Tertiary butyl Alcohol	91		-		70-130	-		
Methylene chloride	93		-		70-130	-		
3-Chloropropene	110		-		70-130	-		
Carbon disulfide	100		-		70-130	-		
Freon-113	101		-		70-130	-		
trans-1,2-Dichloroethene	94		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	77		-		70-130	-		
2-Butanone	82		-		70-130	-		
cis-1,2-Dichloroethene	97		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1595926-3								
Ethyl Acetate	88		-		70-130	-		
Chloroform	101		-		70-130	-		
Tetrahydrofuran	78		-		70-130	-		
1,2-Dichloroethane	97		-		70-130	-		
n-Hexane	98		-		70-130	-		
1,1,1-Trichloroethane	98		-		70-130	-		
Benzene	83		-		70-130	-		
Carbon tetrachloride	110		-		70-130	-		
Cyclohexane	99		-		70-130	-		
1,2-Dichloropropane	90		-		70-130	-		
Bromodichloromethane	111		-		70-130	-		
1,4-Dioxane	95		-		70-130	-		
Trichloroethene	90		-		70-130	-		
2,2,4-Trimethylpentane	99		-		70-130	-		
Heptane	91		-		70-130	-		
cis-1,3-Dichloropropene	97		-		70-130	-		
4-Methyl-2-pentanone	90		-		70-130	-		
trans-1,3-Dichloropropene	87		-		70-130	-		
1,1,2-Trichloroethane	97		-		70-130	-		
Toluene	84		-		70-130	-		
2-Hexanone	84		-		70-130	-		
Dibromochloromethane	108		-		70-130	-		
1,2-Dibromoethane	90		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: REGENCY GARDENS

Project Number: 01.992302.00

Lab Number: L2200423

Report Date: 01/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1595926-3								
Tetrachloroethene	86		-		70-130	-		
Chlorobenzene	88		-		70-130	-		
Ethylbenzene	94		-		70-130	-		
p/m-Xylene	94		-		70-130	-		
Bromoform	119		-		70-130	-		
Styrene	93		-		70-130	-		
1,1,2,2-Tetrachloroethane	99		-		70-130	-		
o-Xylene	94		-		70-130	-		
4-Ethyltoluene	97		-		70-130	-		
1,3,5-Trimethylbenzene	92		-		70-130	-		
1,2,4-Trimethylbenzene	94		-		70-130	-		
Benzyl chloride	85		-		70-130	-		
1,3-Dichlorobenzene	100		-		70-130	-		
1,4-Dichlorobenzene	99		-		70-130	-		
1,2-Dichlorobenzene	99		-		70-130	-		
1,2,4-Trichlorobenzene	84		-		70-130	-		
Hexachlorobutadiene	89		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1595924-5 QC Sample: L2200423-02 Client ID: IA-RG-2						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.096	0.101	ppbV	5		25
Trichloroethene	ND	ND	ppbV	NC		25
Tetrachloroethene	0.079	0.077	ppbV	3		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1595926-5 QC Sample: L2200423-02 Client ID: IA-RG-2						
Dichlorodifluoromethane	0.577	0.578	ppbV	0		25
Chloromethane	0.563	0.550	ppbV	2		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	10.7	10.7	ppbV	0		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	2.40	2.17	ppbV	10		25
Trichlorofluoromethane	0.251	0.259	ppbV	3		25
Isopropanol	3.03	2.98	ppbV	2		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1595926-5 QC Sample: L2200423-02 Client ID: IA-RG-2						
Chloroform	0.230	0.222	ppbV	4		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.260	0.258	ppbV	1		25
Benzene	0.327	0.328	ppbV	0		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	0.540	0.536	ppbV	1		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1595926-5 QC Sample: L2200423-02 Client ID: IA-RG-2						
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: REGENCY GARDENS

Lab Number: L2200423

Project Number: 01.992302.00

Report Date: 01/20/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2200423-01	IA-RG-1	02060	Flow 4	12/29/21	374478		-	-	-	Pass	13.0	14.1	8
L2200423-01	IA-RG-1	1981	6.0L Can	12/29/21	374478	L2167798-03	Pass	-29.2	-6.8	-	-	-	-
L2200423-02	IA-RG-2	01566	Flow 4	12/29/21	374478		-	-	-	Pass	13.0	12.8	2
L2200423-02	IA-RG-2	2926	6.0L Can	12/29/21	374478	L2167798-04	Pass	-29.2	-6.8	-	-	-	-
L2200423-03	IA-RG-3	0758	Flow 3	12/29/21	374478		-	-	-	Pass	13.0	11.8	10
L2200423-03	IA-RG-3	1523	6.0L Can	12/29/21	374478	L2167798-03	Pass	-29.3	-9.1	-	-	-	-
L2200423-04	IA-RG-4	01663	Flow 4	12/29/21	374478		-	-	-	Pass	13.0	13.4	3
L2200423-04	IA-RG-4	2465	6.0L Can	12/29/21	374478	L2170457-08	Pass	-29.2	-7.9	-	-	-	-
L2200423-05	OA-RG-2	01668	Flow 4	12/29/21	374478		-	-	-	Pass	13.0	13.3	2
L2200423-05	OA-RG-2	2284	6.0L Can	12/29/21	374478	L2167798-03	Pass	-29.3	-6.4	-	-	-	-
L2200423-06	UNUSED_CAN2630	01582	Flow 4	12/29/21	374478		-	-	-	Pass	13.0	13.3	2
L2200423-06	UNUSED_CAN2630	2630	6.0L Can	12/29/21	374478	L2167798-03	Pass	-29.2	-29.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-03
Client ID: CAN 3370 SHELF 56
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/11/21 21:00
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2167798

Project Number: CANISTER QC BAT **Report Date:** 01/20/22

Air Canister Certification Results

Lab ID: L2167798-03
Client ID: CAN 3370 SHELF 56
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-03
Client ID: CAN 3370 SHELF 56
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-03
Client ID: CAN 3370 SHELF 56
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-03
Client ID: CAN 3370 SHELF 56
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	99		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-03
Client ID: CAN 3370 SHELF 56
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/11/21 21:00
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-03
Client ID: CAN 3370 SHELF 56
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2167798

Project Number: CANISTER QC BAT **Report Date:** 01/20/22

Air Canister Certification Results

Lab ID: L2167798-03
Client ID: CAN 3370 SHELF 56
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-04
Client ID: CAN 2321 SHELF 57
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/11/21 21:39
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-04
Client ID: CAN 2321 SHELF 57
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-04
Client ID: CAN 2321 SHELF 57
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-04
Client ID: CAN 2321 SHELF 57
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-04
Client ID: CAN 2321 SHELF 57
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	100		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2167798
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2167798-04
Client ID: CAN 2321 SHELF 57
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/11/21 21:39
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2167798

Project Number: CANISTER QC BAT **Report Date:** 01/20/22

Air Canister Certification Results

Lab ID: L2167798-04
Client ID: CAN 2321 SHELF 57
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2167798

Project Number: CANISTER QC BAT **Report Date:** 01/20/22

Air Canister Certification Results

Lab ID: L2167798-04
Client ID: CAN 2321 SHELF 57
Sample Location:

Date Collected: 12/09/21 14:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	99		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2170457
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2170457-08
Client ID: CAN 3602 SHELF 40
Sample Location:

Date Collected: 12/22/21 08:00
Date Received: 12/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/24/21 01:39
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2170457

Project Number: CANISTER QC BAT **Report Date:** 01/20/22

Air Canister Certification Results

Lab ID: L2170457-08
Client ID: CAN 3602 SHELF 40
Sample Location:

Date Collected: 12/22/21 08:00
Date Received: 12/22/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2170457
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2170457-08
Client ID: CAN 3602 SHELF 40
Sample Location:

Date Collected: 12/22/21 08:00
Date Received: 12/22/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2170457
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2170457-08
Client ID: CAN 3602 SHELF 40
Sample Location:

Date Collected: 12/22/21 08:00
Date Received: 12/22/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2170457
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2170457-08
Client ID: CAN 3602 SHELF 40
Sample Location:

Date Collected: 12/22/21 08:00
Date Received: 12/22/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2170457
Report Date: 01/20/22

Air Canister Certification Results

Lab ID: L2170457-08
Client ID: CAN 3602 SHELF 40
Sample Location:

Date Collected: 12/22/21 08:00
Date Received: 12/22/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/24/21 01:39
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2170457

Project Number: CANISTER QC BAT **Report Date:** 01/20/22

Air Canister Certification Results

Lab ID: L2170457-08
Client ID: CAN 3602 SHELF 40
Sample Location:

Date Collected: 12/22/21 08:00
Date Received: 12/22/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2170457

Project Number: CANISTER QC BAT **Report Date:** 01/20/22

Air Canister Certification Results

Lab ID: L2170457-08
Client ID: CAN 3602 SHELF 40
Sample Location:

Date Collected: 12/22/21 08:00
Date Received: 12/22/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140

Project Name: REGENCY GARDENS
Project Number: 01.992302.00

Lab Number: L2200423
Report Date: 01/20/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2200423-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2200423-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2200423-03A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2200423-04A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2200423-05A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2200423-06A	Canister - 6 Liter	NA	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	REGENCY GARDENS	**Lab Number:**	L2200423
Project Number:	01.992302.00	**Report Date:**	01/20/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	REGENCY GARDENS	**Lab Number:**	L2200423
Project Number:	01.992302.00	**Report Date:**	01/20/22

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report

Project Name:	REGENCY GARDENS	**Lab Number:**	L2200423
Project Number:	01.992302.00	**Report Date:**	01/20/22

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 1/6/22

ALPHA Job #: L2200423

Client Information

Client: EnviroTrac Ltd.
Address: 5 Old Dock Rd
Yaphank, NY 11980
Phone: 631-924-3001
Fax: 631-924-5001
Email: tracyw@envirotrac.com

☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: Regency Gardens
Project Location:
Project #: 01.992 302.00
Project Manager: Tracy Wall
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

NYinvoices@envirotrac.com

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
00423-01	IA-RG-1	12/30/21	0827	1437	-29.96	-9.63	AS	AA	6L	1981	02060	X					
02	IA-RG-2		0717	1318	-30.17	-7.35	AS			2926	01566						
03	IA-RG-3		0713	1313	-32.28	-9.60	AS			2465	01663						
04	IA-RG-4		0742	1343	-30.10	-8.03	AS			1523	0758						
05	OA-RG-2		0731	1333	-30.17	-7.35	AS			2284	01668						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
	1/5/22 10:10		1/5/22 10:10
	1/5/22 13:31		1/5/22 2013
	1/6/22 0030		1/6/22 0045
	1/6/22 0445		1/6/22 0455

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

APPENDIX C

Annual Compliance Inspection Form – Interim SVE System

Site Management Inspection Form

141-05, 141-12, 141-18 & 141-24 78th Avenue
Flushing, New York

Name of Inspector:	Josh Levy	**Inspection Date:**	August 10, 2022
Construction Completion Date:	December 2020	**Date of Last Periodic Compliance Inspection:**	May 11, 2021
Name and Address Current Property Owner(s):	Regency Gardens Apartment Corp. 78-05 141st Street, 141-06, 141-12, 141-18, 141-24 78th Avenue Flushing, New York		
Name of Site Contact:	Zulma Polanco Thomas Krahn (Vision Enterprises Mgmt)	**Telephone Number:**	516-504-7020 ext. 3
Operators Name: (if applicable)	VP Capital Holdings, LLC	**Telephone Number:**	212-704-4209

Persons Present During Inspection include Affiliations:

ANNUAL COMPLIANCE INSPECTION FORM - Interim SVE System

77-57 Vleigh Place

Flushing, Queens, NY

NYSDEC Site Number: C241168

Name of Inspector:	Josh Levy
Remedial Action Completion Date:	N/A
COC Issuance Date	December 24, 2019
Inspection Date	August 10, 2022
Date of Last Periodic Compliance Inspection:	May 11, 2021
Operators Name and Tel #	VP Capital Holdings, LLC 212-704-4209

Persons Present During Inspection include Affiliations:
EnviroTrac PC PE

A. Remedy Description of Cover Systems

1. Review of the current remedy

Identify the current remedy: Interim SVE System, Cover System

X Cover Slab/ Top Soil

X SVE

B. Remedy Performance Assessment

1. Evaluate remedy effectiveness:

Based on information collected since the last O&M review, do monitoring data indicate that the system is failing or could eventually fail to meet remedy goals?	□ Yes X No
Since the last O&M review, have monitoring data exhibited trends indicative of a new or renewed release?	□ Yes X No
Since the last O&M review, have changes in land and/or ground water use been suggested and or implemented that have the potential to reduce the protectiveness of the ~~SSDS~~ remedy? Interim SVE	□ Yes X No
Since the last O&M review, have contaminants been identified in new locations or at higher concentrations where they pose or have the potential to pose unacceptable risks to receptors?	□ Yes X No
If you answered yes to any of the above questions, did the information suggest the need for immediate action or is the condition being monitored to evaluate the need for future action? Use this space to comment. What actions, if any, have been taken and/or are planned in response to the new	□ Immediate Action □ Monitor for future X N/A
Based on your answers to the above questions, is there reason to evaluate the need for a contingent remedy at this time? If yes, use this space to comment.	□ Yes X No
SVE blower and Piping	
Since the last O&M review for this system, has evidence of damages to system components been observed? Damage to the SVE piping was replaced in June 2022.	X Yes □ No
Since the last O&M review, have system blower and piping components been consistently operational	X Yes □ No

EnviroTrac Environmental Services

SVE		
PID Level at effluent	0.1	PPM
Vacuum Reading at Vacuum monitorig points		
PT-1	0.0	Inch WC
PT-2	-0.001	Inch WC
PT-7	-0.011	Inch WC
SV-8	-0.002	Inch WC
SV-9	-0.8	Inch WC
SV-KG-1	-0.002	Inch WC
Vacuum Gauge	-64	Inch WC
Alarm Condition		□X Operational □ Damaged
Was the ~~Subslab Depressurization System (SSDS)~~ Interim SVE System operating upon arrival? If "No," explain below why the system was not running, efforts taken to restart the SSDS and if the		□X Yes □ No
Carbon Activated Carbon (GAC)drums		
Is breakthrough detector on GAC drum ~~for SSDS-1~~ Interim SVE System turning from violet to brow/black		□ Yes □X No
Is breakthrough detector on GAC drum ~~for SSDS-1~~ Interim SVE System turning from violet to brow/black		□ Yes □X No
List below all pertinent observations and actions taken during this Inspection:		
Cover System		
Did you observe breaking of slab cover l? The current site cover includes the vapor barrier, three-foot thick slab, and new building.		□ Yes □X No
If yes describe the level of alteration needed for repairs and remedies?		

EnviroTrac
Environmental Services

APPENIDX D

Site Management Inspection Form – Regency Gardens

EnviroTrac

Date	Site Address	Inspector name and title
August 10, 2022	141-05, 141-12, 141-18 & 141-24 78th Avenue, Flushing, New York	Josh Levy

Remedy Description of Cover Systems

1. Review of the current remedy

Identify the current remedy:

☒SSDS		

How many SSDS Systems are used ? SSDS-1; SSDS-2; SSDS-3 and SSDS-4

2. Review of the current remedy goals

What schedule has been established for monitoring of SSDS ?
Annual

B. Summary of Remedy Performance Assessment

1. Evaluate remedy effectiveness:

Based on information collected since the last O&M review, do monitoring data indicate that the system is failing or could eventually fail to meet remedy goals?	□ Yes ☒No
Since the last O&M review, have monitoring data exhibited trends indicative of a new or renewed release?	□ Yes ☒No
Since the last O&M review, have changes in landuse been suggested and or implemented that have the potential to reduce the protectiveness of the SSDS remedy?	□ Yes ☒No
Since the last O&M review, have contaminants been identified in new locations or at higher concentrations where they pose or have the potential to pose unacceptable risks to receptors?	□ Yes ☒No
If you answered yes to any of the above questions, did the information suggest the need for immediate action or is the condition being monitored to evaluate the need for future action? Use this space to comment. What actions, if any, have been taken and/or are planned in response to the new information?	□ Immediate Action □ Monitor for future ☒N/A
Based on your answers to the above questions, is there reason to evaluate the need for a contingent remedy at this time? If yes, use this space to comment.	□ Yes ☒No

SSDS

PID at effluent - SSDS-1 = 0.0 ; SSDS-2 = 0.0 ; SSDS-3 = 0.0 ; SSDS-4 = 0.0 Dec 21 & Jan 22	PPM
Vacuum guage - SSDS-1 = -4.65 ; SSDS-2 = -4.5 ; SSDS-3 = -4.2 ; SSDS-4 = -4.2 SSDS-5 = -2.5 SSDS-6 = -3.5 SSDS-7 = -4.2 SSDS-8 = -4.2 SSDS-9 = -3 Dec 21	Inch H20
Vacuum Reading at the 8 vacuum monitorinbg points : PTP-1= -0.049 ; PTP-2= -0.044 ; PTP-3= -0.022 ; PTP-4=-0.019; PTP-5= -0.023; PTP-6= -0.018; PTP-7= -0.016; PTP-8=-0.421 Aug 22	Inch H20
Fan Condition Good	☒Function □ Damage
Alarm Condition good	☒Function □ Damage
Was the Subslab Depressurization System (SSDS) operating upon arrival? If "No," explain below why the system was not running, efforts taken to restart the SSDS and if the system was operational when leaving. If successful in making the SSDS operational, complete the remainder of the checklist.	☒Yes □ No
If measured, were all subslab probe vacuum readings greater than 0.004 inches of water? If "Yes," the SSDS is deemed still effective and the vacuum readings taken during this inspection are now the new baseline readings.	☒Yes

EnviroTrac
Environmental Services

If "No," system must be adjusted/amended and the SSDS re-commissioned Discuss adjustments and amendments below:	□ No

List below all pertinent observations and actions taken during this Inspection: All 4 SSDSs appeared in good condition. No changes to building use.
i.e., sagging/damaged pipes, construction changes to building that may affect the system, pipe leaks that may need smoke test, is building still vacant, has occupancy zoning changed (i.e. commercial to residential), are non-SSDS engineered systems still functioning as designed etc. Add additional pages as needed.

Cover slab

Did you observe breaking or cracks in the slab cover	□ Yes ☒ No

If yes describe the level of alteration needed for repairs and remedies?

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