2024 PERIODIC REVIEW REPORT

for

B.H. Aircraft Site
Farmingdale, New York
NYSDEC BCP Site No. C152247

Prepared For:

441 Eastern Parkway, LLC
441 Eastern Parkway
Farmingdale, Suffolk County, New York

Prepared By:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
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27 May 2025
170861301

LANGAN

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ACRONYMS

AS	air sparging
cfm	cubic feet per minute
CVOC	chlorinated volatile organic compound
DER	NYSDEC Division of Environmental Remediation
EC	Engineering Control
ELAP	Environmental Laboratory Approval Program
FSP	Field Sampling Plan
GAC	granulated activated carbon
GZA	Goldberg-Zoino Associates of New York P.C. - d/b/a GZA GeoEnvironmental of New York
IC	Institutional Control
IRM	interim remedial measure
MK	Mann-Kendall
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	operations and maintenance
PCE	tetrachloroethylene
PID	photoionization detector
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RI	remedial investigation
ROI	radius of influence
SMP	Site Management Plan
SVE	soil vapor extraction
TCA	trichloroethane
TCE	trichloroethylene
$\mu g/m^3$	micrograms per meters cubed
VLS	vapor liquid separator
VOC	volatile organic compound

1.0 INTRODUCTION

On behalf of 441 Eastern Parkway, LLC, Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this 2024 Periodic Review Report (PRR) for the property located at 441 Eastern Parkway, Farmingdale, Long Island, New York (Site). This 2024 PRR encompasses the period between April 27, 2024, through April 27, 2025, and is associated with Former B.H. Aircraft Brownfield Cleanup Program (BCP) Site No. C152247. This PRR was prepared in general accordance with the New York State Environmental Conservation Law, and New York State guidance entitled *DER-10 Technical Guidance for Site Investigation and Remediation*, dated May 3, 2010 (NYSDEC 2010), effective in June 2010 and revised in April 2019.

The purpose of this 2024 PRR is to document the performance of the Soil Vapor Extraction (SVE) system and summarize analytical results prior to commencement of rebound study. This PRR provides a summary of the operational monitoring results for the SVE system, including analytical data from influent and effluent sampling events conducted in June of 2024, November of 2024, February of 2025, and April of 2025. Additionally, this PRR summarizes the findings from the annual cap inspection conducted during the reporting period, providing observations on the condition and integrity of the cap system and noting any required maintenance or follow-up actions.

1.1 Site Background and Remedial Summary

The Former B.H. Aircraft Site is located in the western section of Suffolk County, New York; has a street address of 441 Eastern Parkway in Farmingdale, New York (**Figures 1 and 2**); was owned and operated by B.H. Aircraft from at least 1964 to at least 2000; is located in a residential and commercial/industrial area; is rectangular in shape; occupies approximately 3.52 acres of land; is zoned for commercial usage; is currently utilized for vehicle storage/maintenance by a Mercedes Dealership; and contains an approximately 11,500-square-foot building (designated as Building 2) used to prepare dealership cars prior to delivery. The property is also developed with a large asphalt parking lot for the storage of vehicles and small landscaped islands on the northern/southern portions of the Site. Site occupants include dealership employees and a security guard. The Site is bounded to the north by rail tracks (Long Island Railroad); to the south by Eastern Parkway; to the east by a commercial/industrial property; and to the west by a commercial/industrial property. A fence separates the south yard area from a rail yard, located further south of the Site. The Site layout is shown in **Figure 2**.

According to historical Sanborn fire insurance rate maps, the subject building was constructed in the 1920's and has been utilized for industrial purposes since it was built. A Sanborn map from 1964 depicts BH Aircraft on the subject property. Prior to BH Aircraft's occupation of the Site,

the Site was used for the production of essential oils and aromatic products, flowerpots, and rubber manufacturing.

1.2 Remedial Program

Previous RI activities documented the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals in soil samples; VOCs, particularly 1,1,1-trichloroethane (1,1,1-TCA), and metals were detected in groundwater; and trichloroethylene (TCE) and tetrachloroethylene (PCE) were detected in soil vapor at the Site. Soil vapor sample results were compared to the New York State Department of Health (NYSDOH) Decision Matrix, and, based upon this evaluation, an interim remedial measure (IRM) was implemented in 2009 at the Site. The contamination was reportedly linked to the presence of former operations, a stormwater drywell system (drywells), and a system of sanitary and industrial leaching pools (leaching pools) at the Site. In accordance with the IRM, inactive buildings were demolished, the drywells and leaching pools were removed for off-site disposal, and the impacted soil associated with these features was removed for off-site disposal. After removal of impacted soil, the majority of the Site was capped with asphaltic cover and converted into a parking lot, while the remaining portions of the Site were converted into landscaped islands capped with clean fill material. Additionally, one building remains on the Site. A SVE system was installed in 2019 in the southwestern portion of the Site to address the potential off-site migration of soil vapors. Six permanent monitoring wells were installed to monitor the levels of groundwater contamination at the Site.

2.0 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

Langan commenced remedial system monitoring at the Site in September 2024, which includes an annual cap inspection and quarterly operations and maintenance (O&M) of the SVE system. The 2023 PRR, submitted by GZA GeoEnvironmental (GZA), received NYSDEC approval on October 18, 2024. This section presents a comprehensive summary of the data evaluation and performance assessment of the remedy components.

2.1 Summary of Remedy Components

The following sub-sections provide a summary of remedy components that were used to monitor the SVE system at the Site in accordance with the approved Site Management Plan (SMP). The layout of vapor extraction wells and vacuum monitoring points is depicted in **Figure 3**.

2.1.1 Soil Vapor Extraction Wells

Soil vapor extraction wells were installed to create vacuum influence in the unsaturated zone (above the water table). To adequately depressurize the impacted area, a total of five (5) SVE wells are installed at the Site and are identified as SVE-01 through SVE-05.

2.1.2 Vapor Extraction and Treatment System

The SVE system was installed in the southwestern portion of the Site, adjacent to the former main factory and offices (Building #1), which are no longer present on the Site. The SVE system has two soil vapor extraction header lines connected to a 250-cfm blower located within the system trailer. A 50-gallon vapor liquid separator (VLS) tank is attached to the system to remove moisture and liquid contaminants to protect downstream equipment and improve system efficiency. The extracted vapor is routed through three 150-pound vapor phase granular activated carbon (GAC) vessels to remove contaminants prior to their release through the effluent stack. Influent, mid treatment, and effluent sampling ports were installed throughout the system to allow for vapor sampling during active vapor extraction to determine the effectiveness of the remedy.

The system vapor samples were collected from the influent and effluent sampling ports using 6-liter summa canisters with a flow rate not to exceed 0.2 L/min and were analyzed for VOCs by TO-15 method as per the October 2006 "Guidance for Evaluating Soil Vapor Intrusion in the State of New York". The samples were collected with an average flow rate of 0.2 L/min for an average sampling duration of 30 minutes.

2.1.3 Soil Gas Monitoring Points

GZA installed five (5) soil vapor monitoring points (VP-1 through VP-5) in the treatment area to evaluate soil vapor conditions during active soil vapor extraction. Each soil vapor sample point consists of ¼" stainless steel tube, which is secured using ferrules, nut and female adapter; and extends a minimum of 6-inches into the vadose zone.

2.1.4 Groundwater Monitoring Wells

Six (6) groundwater monitoring wells were installed by GZA and sampled on a quarterly basis over a period of 3 years, between 2019 and 2022, using the low flow sampling procedures. Based upon laboratory analytical results, GZA concluded that no site contaminants were detected above reporting limits or NY-AWQS. On July 6, 2022, GZA received a response letter from NYSDEC approving the discontinuation of groundwater monitoring, and it is therefore no longer discussed in this 2024 PRR.

2.2 Quality Assurance / Quality Control

QA/QC requirements for aqueous and air samples are described in Quality Assurance Project Plan and Field Sampling Plan (QAPP/FSP) provided as Appendix J to the SMP (GZA 2019). Sample holding times are in accordance with the NYSDEC ASP requirements.

2.3 Summary of SVE System O&M

The SMP was prepared by GZA and submitted to the NYSDEC in December 2019. The treatment system was operated and maintained by GZA until September 2024, after which the O&M responsibilities were transferred to Langan. The routine maintenance and inspections are conducted on a quarterly basis to assess the effectiveness of the system at achieving the design goals and maintaining a minimum target vacuum of 0.1 inches of water (IW) at the vapor monitoring points. The following summarizes the quarterly O&M procedures performed during the review period between April 27, 2024 and April 27, 2025:

- Three rounds of applied vacuum readings, PID readings, and flow measurements are collected at the manifold inside the system trailer during each event.
- Three rounds of induced vacuum readings are collected at the vapor monitoring points during each event.
- Air samples are collected from the influent and effluent sample ports and analyzed for VOCs using the TO-15 method.
- Site-wide cover inspections are performed on a regular schedule at a minimum of once per year.

As part of the routine maintenance and inspection, the system is visually inspected for physical damage to the extraction wells or header lines. The pavement within the treatment area is inspected for cracks. During the Site visits, the system controls are adjusted and tweaked to maximize the flows and vacuum within the treatment area. The VLS is inspected during each monitoring event and any liquid accumulated in the VLS tank is discharged after treating with carbon. The header lines are inspected for clogs, especially during the wintertime when the condensate has the potential to freeze in the lines and block flows.

During the 2024 reporting period, the SVE system O&M was conducted by GZA in June 2024 and the subsequent O&M events were conducted by Langan in November 2024, February 2025, and April 2025. In February 2025, the three approximately 100-pound carbon drums were replaced, in kind. The former drums and spent carbon were disposed off-site.

2.4 Proposed Rebound Study and Evaluation

The 2023 PRR, prepared by GZA and dated May 2024, indicated that concentrations of VOCs in soil vapor had reached asymptotic levels and a Rebound Study was proposed to be completed

to evaluate whether the SVE system operations may be permanently terminated. In a letter from NYSDEC Assistant Engineer, Jared Donaldson, dated October 18, 2024, the NYSDEC accepted the proposal to conduct rebound testing and requested the submission of a Rebound Study Work Plan (**Appendix A**). Langan submitted the Rebound Study Work Plan to the NYSDEC in January 2025 and received comments from the NYSDEC and NYSDOH in a letter dated May 5, 2025. Langan is currently in the process of revising the Rebound Study Work Plan consistent with NYSDEC and NYSDOH comments. The revised Rebound Study Work Plan will be resubmitted under separate cover in June 2025.

2.5 Monitoring Plan Compliance

The following sub-sections provide a summary of the O&M observations during the 2024 reporting period.

2.5.1 Treatment System Performance

SVE system influence is monitored through the evaluation of the pressure differential across monitoring points and the vacuum extraction wells. Currently, 10 monitoring points are being measured (VP-1, VP-2, VP-3, VP-4, VP-5, SVE-1, SVE-2, SVE-3, SVE-4, SVE-5) for evaluation of vacuum performance in the treatment area. These 10 monitoring points are suitable to assess maintenance of the SVE system's applied and induced vacuum readings. Since June 2019, monitoring of the SVE operations was performed on a quarterly basis. The vacuum readings at the monitoring points are evaluated to determine if the SVE system continues to be effective in providing negative pressure across the impacted area in the parking lot and that no variance from the system design was observed. Additionally, field PID readings were collected on a quarterly basis at each of the five SVE wells and the five vapor monitoring points to determine estimated VOC concentrations.

SVE O&M log sheets are provided as **Appendix B**. The SVE system is maintaining sufficient vacuum beneath the treatment area and no variance from the design was observed during this reporting period. The PID readings collected during this monitoring period indicated no elevated VOC detection.

2.5.2 Cap Inspection

The cap is inspected on an annual basis. Langan conducted a visual inspection of the site cover on April 22, 2025. No significant cracks, penetrations, or damage to the cap were observed. Minor cracks were observed on the western portion of the Site in the vicinity of the SVE system; however, the minor cracks can be attributed to standard asphalt cracking due to precipitation, changes in temperature, and site operations. The overall integrity of the asphalt cap and the underlying SVE system components appeared to be intact, in satisfactory condition, and

protective of human health and the environment. A photographic log documenting the cap inspection is included as **Appendix C**.

2.5.3 Influent and Effluent Sample Analytical Results

The influent and effluent points of the SVE system were sampled on June 20 and November 7, 2024, and February 27 and April 22, 2025. Samples were submitted to a NYSDOH approved ELAP certified laboratory and analyzed by EPA method TO-15 for VOCs.

VOC concentrations from influent and effluent vapor samples were compared to evaluate the effectiveness of the remedy. The following is a summary of TCE, 1,1,1-TCA, and PCE, concentrations detected in influent and effluent samples:

June 20, 2024:

- **Influent:** Analysis of the influent air sample showed TCE at a concentration of 395 µg/m^3 PCE at a concentration of 106 µg/m^3, and 1,1,1-TCA at a concentration of 28.6 µg/m^3
- **Effluent:** Analysis of the effluent air sample reported both TCE and PCE as non-detect and 1,1,1-TCA at a concentration of 132 µg/m^3

November 7, 2024:

- **Influent:** Analysis of the influent air sample showed TCE at a concentration of 266 µg/m^3, PCE at a concentration of 84.1 µg/m^3, and 1,1,1-TCA at a concentration of 23.2 µg/m^3
- **Effluent:** Analysis of the effluent air sample showed TCE at a concentration of 387 µg/m^3 and 1,1,1-TCA at a concentration of 17.6 µg/m^3. PCE was reported as non-detect.

February 27, 2025:

- **Influent:** Analysis of the influent air sample showed TCE at a concentration of 100 µg/m^3, PCE at a concentration of 27 µg/m^3, and 1,1,1-TCA at a concentration of 12 µg/m^3
- **Effluent:** Analysis of the effluent air sample showed PCE at a concentration of 2 µg/m^3.1,1,1-TCA and TCE were reported as non-detect.

April 22, 2025

- **Influent:** Analysis of the influent air sample showed TCE at a concentration of 116 µg/m^3, PCE at concentration of 38.7 µg/m^3, and 1,1,1-TCA at a concentration of 9.82 µg/m^3
- **Effluent:** Analysis of the effluent air sample showed TCE, PCE, and 1,1,1-TCA as non-detect.

Air sample analytical results for June 2019 through April 2025 are reported in **Table 1** and analytical laboratory reports are provided as **Appendix D**. Langan conducted a Mann-Kendall (MK) test for a monotonic trend to determine the trend of TCE, PCE, and 1,1,1-TCA in the influent air stream from June 2019 to April 2025. Based on the influent air sample results over the current operational life of the SVE system, there is a stable decreasing trend of TCE, PCE, and 1,1,1-TCA in the treatment area. The MK trend analysis tables are provided as **Appendix E** and are summarized in **Table 2.5** below.

Table 2.5 Mann-Kendall Analysis Trend Summary for Influent Results

Contaminant	Mann-Kendall Analysis Trend
	Influent
PCE	Stable-decreasing
TCE	Stable-decreasing
1,1,1-TCA	Stable-decreasing

Overall, VOC concentrations in the vapor samples have decreased since 2019 and have reached stable, asymptotic levels. **Figures 4 and 5** illustrate the decreased, generally flat asymptotic trend of Site contaminants in the influent and effluent air samples, respectively. **Figure 6** illustrates the estimated total VOC mass removal over the current operational period of the SVE system and the individual compound removal estimated during its respective reporting period. Based on the trends shown in **Figure 4, 5, and 6**, the SVE system is effectively mitigating potential impacts to human health resulting from soil vapor intrusion.

2.5.4 Overall System Performance

During the reporting period from April 27, 2024 to April 27, 2025, the system operated for 360 days which is approximately 99% of the reporting period. The average daily vapor flow recorded was approximately 268 cfm with a maximum flow of 275 cfm and a minimum flow of 263 cfm. The average cumulative amount of air processed by the SVE system during the reporting period was estimated to be approximately 149 million cubic feet. During the reporting period, the SVE system removed approximately 2.86 pounds (lbs.) of VOCs. Of this total VOC removal estimate, the following compound-specific mass removals are estimated: 2.07 lbs. of TCE; 0.61 lbs. of PCE; 0.002 lbs. of carbon tetrachloride; 0.18 lbs. of 1,1,1-TCA; and 0.0 lbs. of methylene chloride. The flow data and calculated VOC mass removal over this operational period of the SVE system is presented in **Table 2**.

The results of this statistical analysis and our evaluation of the plots indicate that the concentration of chlorinated volatile organic compounds (CVOCs) have reached asymptotic levels. The Mann-Kendall analysis of vapor concentrations for the site-related CVOCs at the

influent point indicates either a stable or decreasing trend. Refer to **Appendix E** for a detailed summary of the Mann-Kendall analysis and associated trends.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Institutional Controls/Engineering Controls (IC/EC), monitoring and O&M compliance requirements were met during the reporting period. The ICs and ECs protect the public health and environment, and the IC/EC Certification Form is provided as **Appendix F**. The SVE system is effectively extracting and capturing soil vapor contamination and preventing off-site migration of soil vapor. The integrity of the cap is being maintained and is preventing direct exposure to contaminated soil underlaying the asphalt, concrete building slab or landscaped cap. Langan recommends continuing to monitor the cap on an annual basis to document and maintain its integrity and protection to human health and environment.

The SVE system commenced operation in June 2019. Elevated levels of VOCs were observed during the initial round of influent air samples. The system has been monitored on a quarterly basis since 2019 and the trend indicates the levels of VOCs in soil vapor have decreased and have been generally asymptotic since 2021. These levels also demonstrate that the SVE system has effectively captured VOC contamination and prevented migration of vapors off-site. As a result, Langan requests that NYSDEC approve shutting down the soil vapor extraction system and conducting a rebound test.

As per the SMP and unless otherwise approved by NYSDEC, the PRR will be submitted annually to the Department. Unless otherwise directed, the next quarterly sampling event will be in June 2025, and the next PRR will be submitted in May 2026.

3.2 Recommendations

The analytical results indicate that contaminant levels within the treatment area have stabilized and reached asymptotic levels. Following approval of the 2025 Rebound Study Report, the SVE system will be temporarily shut down; however, concentrations of contaminants on site will continue to be monitored for any rebound.

4.0 CERTIFICATION OF IC/ECS

I, Gerald Nicholls P.E., of Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C., am certifying as the 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 and certify that the following statements are true:

a) The institutional control and/or engineering control employed at the site is unchanged from the date the control was put in place, or last approved by DER;

b) Nothing has occurred that would impair the ability of such control to protect public health and the environment,

c) 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.

092433	05/27/2025	Gerry Nicholls
New York State Professional Engineer #	Date	Signature

It is a violation of Article 130 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 130, New York State Education Law.

FIGURES

SOURCE: UNITED STATES GEOLOGICAL SURVEY [USGS] TOPOGRAPHIC 7.5-MINUTE SERIES QUADRANGLE, AMITYVILLE, NY, 2023

5000 0 2500 5000

SCALE IN FEET

QUADRANGLE LOCATION

LANGAN

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Project

441 EASTERN PARKWAY

District 100, Section 46, Block 01, Lot 020
FARMINGDALE
NASSAU COUNTY NEW YORK

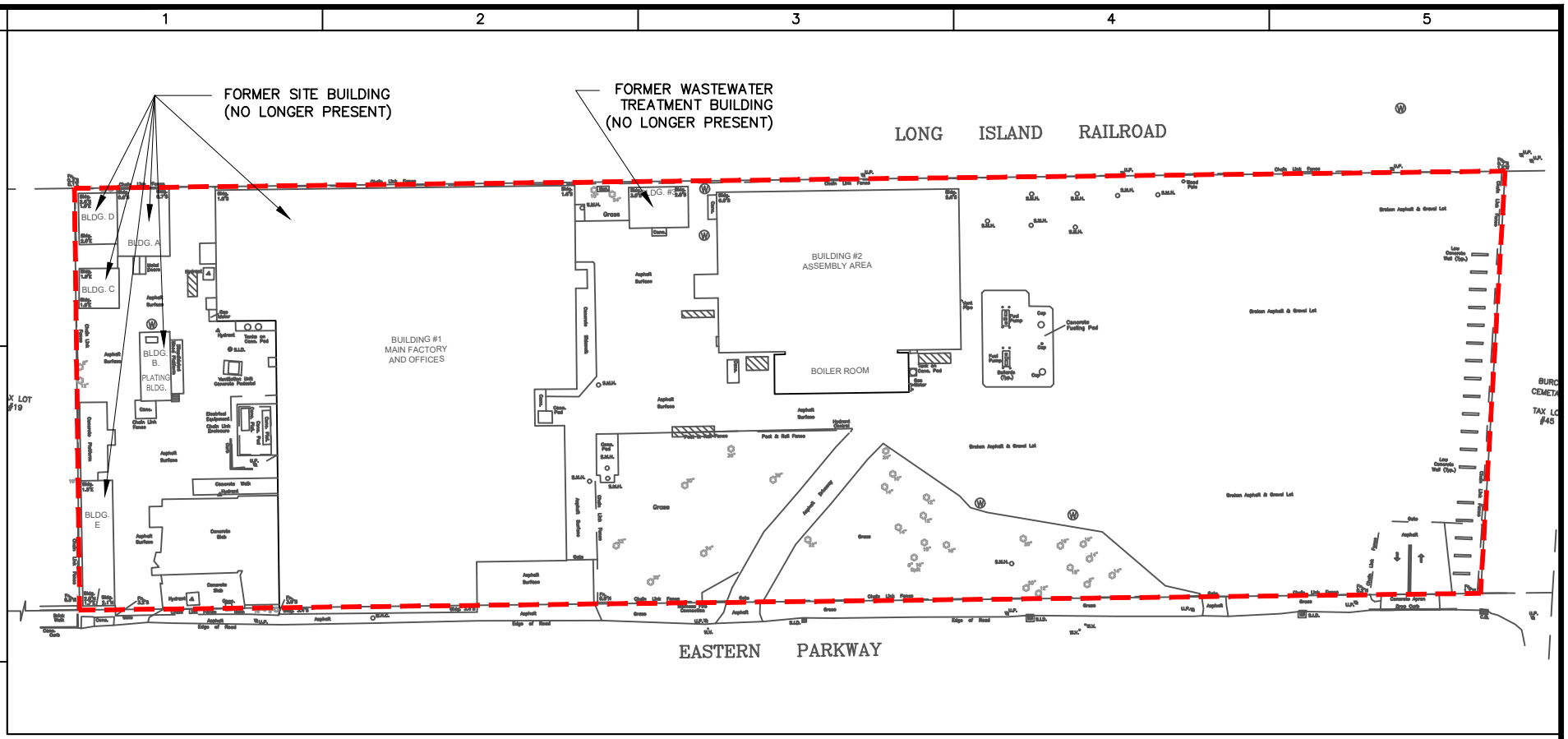
Figure Title

SITE LOCATION MAP

Project No.	170861301
Date	11/12/2024
Drawn By	AL
Checked By	BP

Figure **1**

Filename: C:\bms\langan-pw-01\d0654002\170861301-0201-NI101-0101.dwg Date: 11/12/2024 Time: 13:49 User: alooman Style Table: Langan.stb Layout: FIGURE 1 USGS



LEGEND

- BCP SITE BOUNDARY
- Ⓦ APPROXIMATE LOCATION OF FORMER DRY WELL
- FORMER UST
- S.M.H. EXISTING SEWER MANHOLE

NOTES

1. THE BASE MAP WAS DEVELOPED FROM A PLAN PROVIDED BY 441 EASTERN PARKWAY, LLC ENTITLED "TOPOGRAPHIC MAP" DATED 11/04/2016. ORIGINAL SCALE: 1" = 20'.
2. SITE FEATURES WERE DEVELOPED FROM A PLAN PROVIDED BY GZA GEOENVIRONMENTAL, INC. ENTITLED "SITE PLAN" DATED NOVEMBER 2018. ORIGINAL SCALE: 1" = 50'.

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

0 40' 80' 160'

SCALE IN FEET 1" = 80'

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Project
441 EASTERN PARKWAY
BLOCK No. 01, LOT No. 020
FARMINGDALE
NASSAU COUNTY NEW YORK

Drawing Title
SITE PLAN

Project No.	170861301
Date	05/22/2025
Drawn By	MM
Checked By	BP

Figure No. **2**

Sheet 1 of 1

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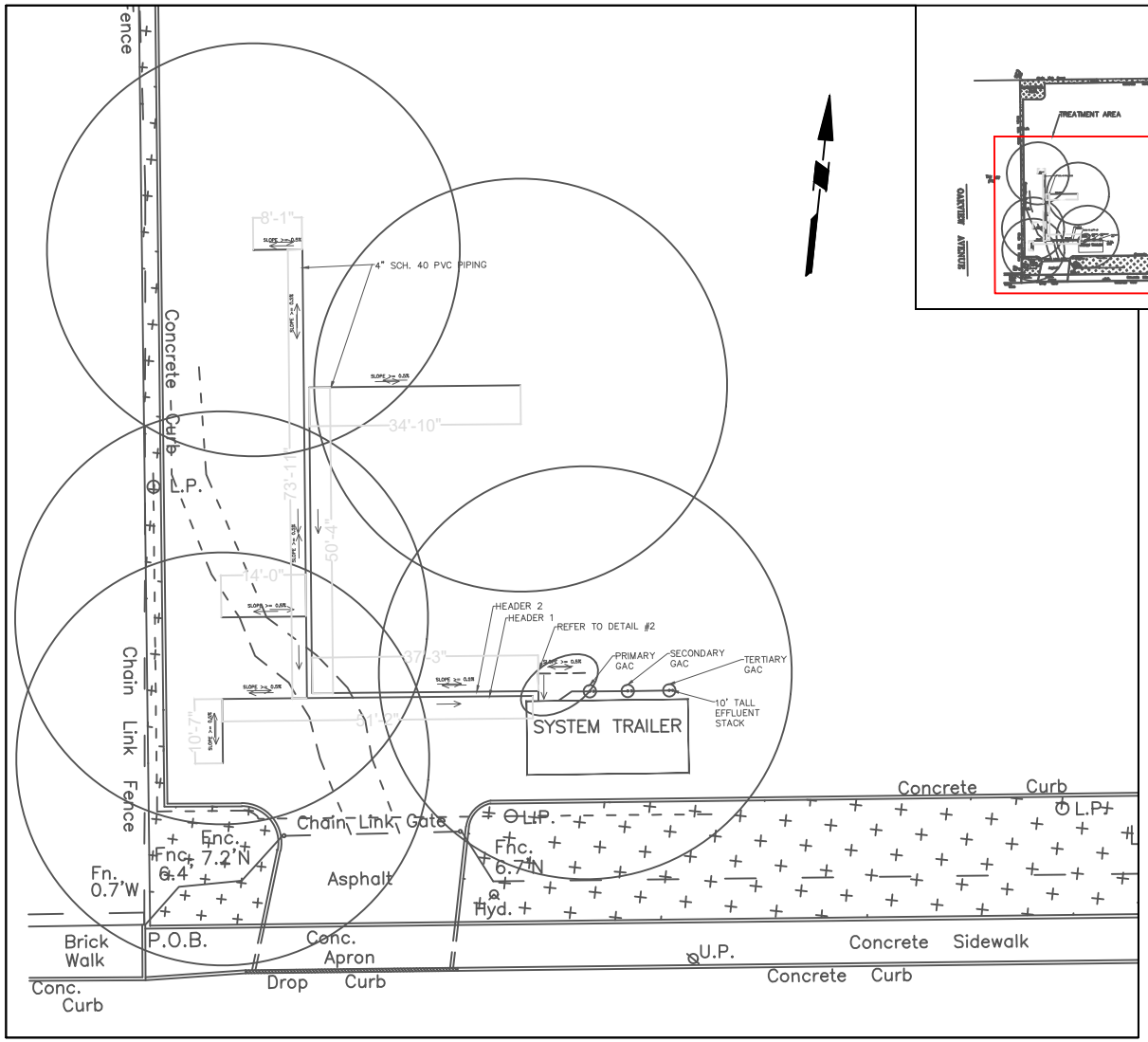

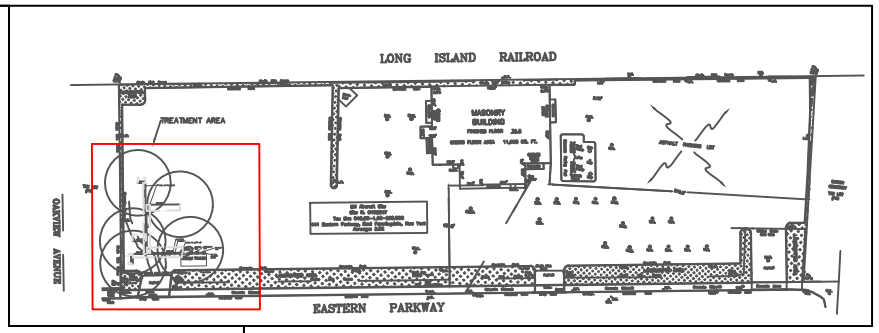

KEY MAP

1" = 200'

LEGEND

- EXISTING 2" VAPOR EXTRACTION WELL
- PROPOSED 2" VAPOR EXTRACTION WELL
- EXISTING 1" VAPOR MONITORING POINT
- PROPOSED 1" VAPOR MONITORING POINT
- BLOWER AND COMPRESSOR LOCATION
- MARKED ELECTRIC LINE
- ABOVE GROUND PIPING
- SUBSURFACE PIPING
- RADIUS OF INFLUENCE
- FLOW DIRECTION

NOTES

1. THE BASE MAP WAS DEVELOPED FROM A PLAN PROVIDED BY BLADYKAS & PANETTA L.S. & P.E., P.C. ENTITLED "ENVIRONMENTAL EASEMENT SURVEY" DATED 06/13/2018. ORIGINAL SCALE: 1" = 20'.
2. SITE FEATURES WERE DEVELOPED FROM A PLAN PROVIDED BY GZA GEOENVIRONMENTAL, INC. ENTITLED "SVE SYSTEM" DATED APRIL 2019. ORIGINAL SCALE: 1" = 20'.

0 15' 30' 60'

SCALE IN FEET 1" = 30'

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Project
441 EASTERN PARKWAY
BLOCK No. 01, LOT No. 020
FARMINGDALE
NASSAU COUNTY NEW YORK

Drawing Title
SVE SYSTEM PLAN

Project No.	170861301
Date	05/22/2025
Drawn By	MM
Checked By	BP

Figure No. 3

Sheet 1 of 1

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Figure 4
SVE Influent VOC Concentrations
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY

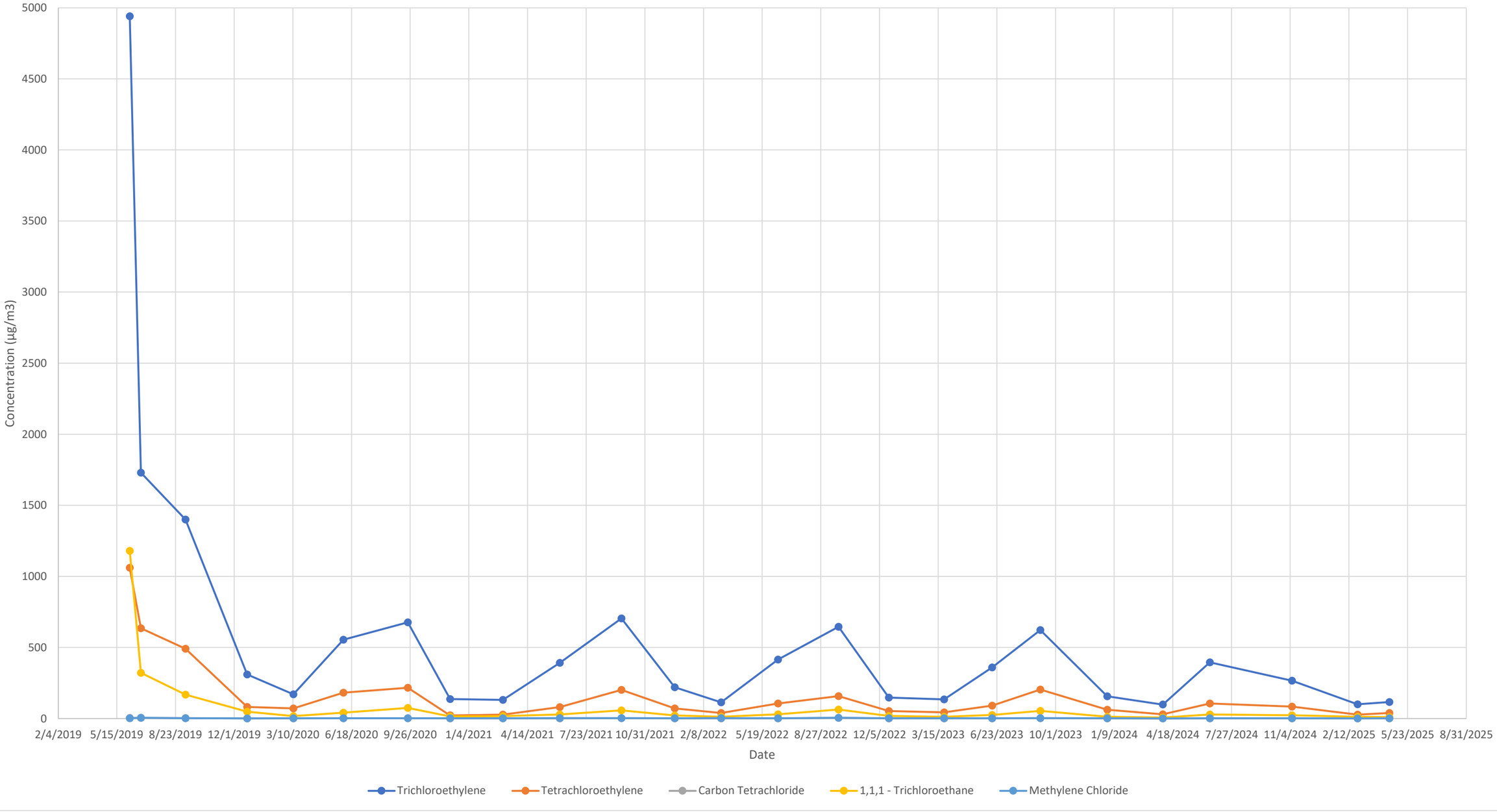


Figure 5
SVE Effluent VOC Concentrations
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY

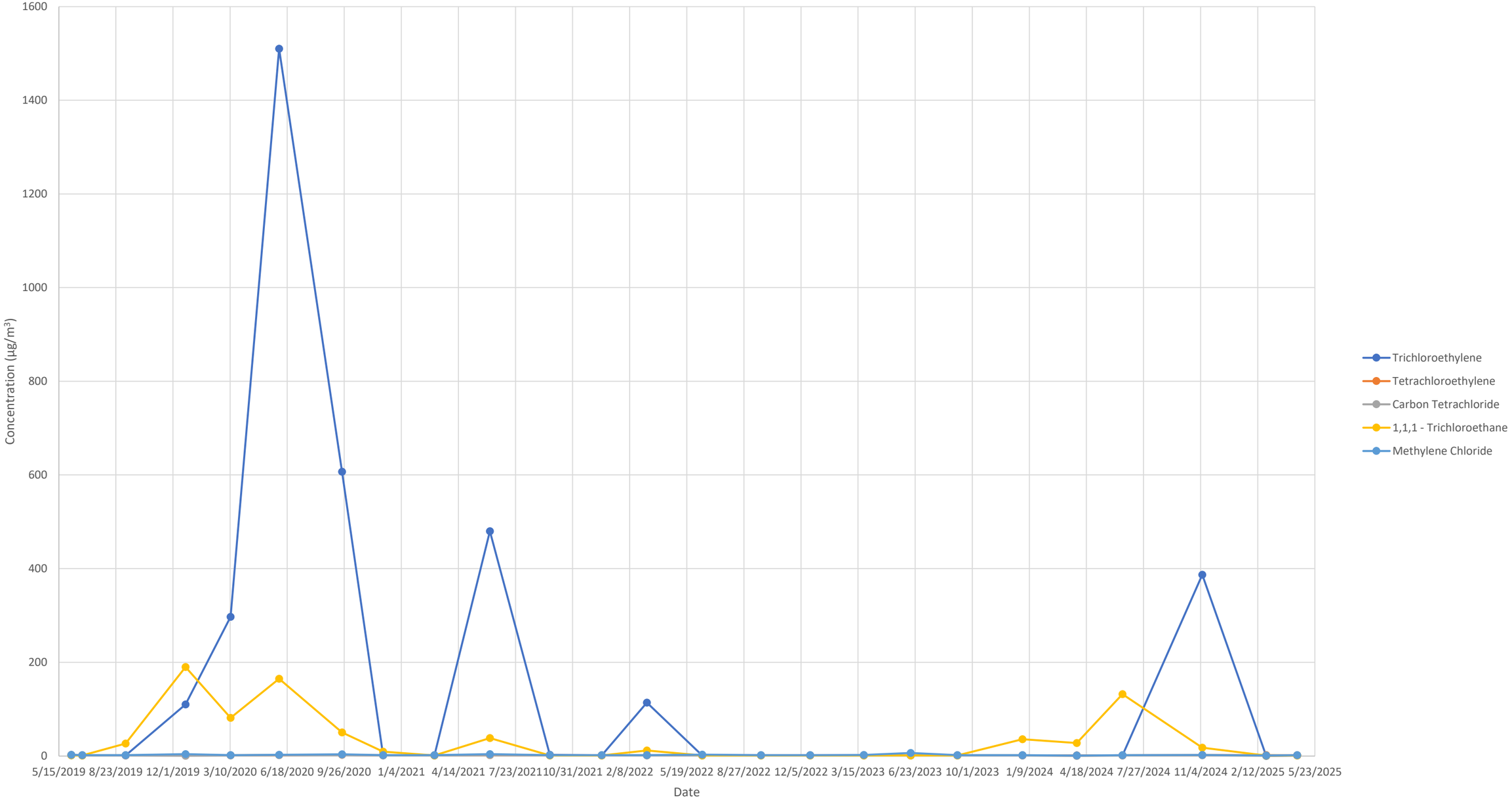
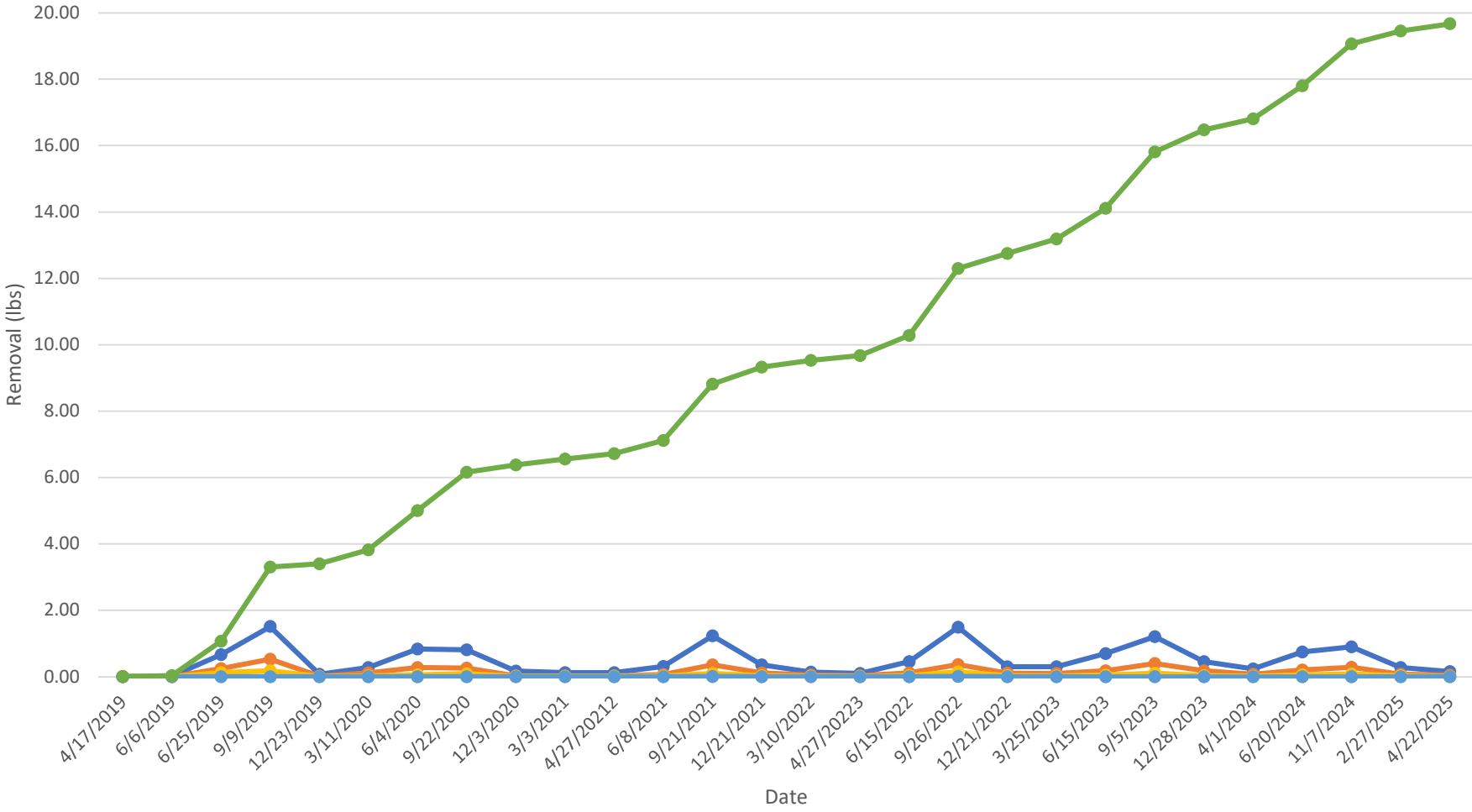


Figure 6
Cummulative VOC Mass Removal Estimate
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY



TABLES

TABLE 1
SVE Influent and Effluent Sampling Results
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY

SAMPLE ID:	INF 062519			EFF 062519			INFLUENT090919			INFLUENT090919			EFFLUENT090919			INF 122319			EFF122319			INFLUENT-03112020			EFFLUENT-03112020		
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COLLECTION DATE:	6/25/2019			6/25/2019			9/9/2019			9/9/2019			9/9/2019			12/23/2019			12/23/2019			3/11/2020			3/11/2020		
SAMPLE MATRIX:	SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR		
UNITS:	µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³		
ANALYTE	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
VOLATILE ORGANICS IN AIR																											
1,1,1-Trichloroethane	321		3.64	ND		1.09	168		1.09	-		-	26.5		1.09	48		1.1	190		1.1	17.3		1.09	81.3		1.09
1,1,2,2-Tetrachloroethane	ND		4.58	ND		1.37	ND		1.37	-		-	ND		1.37	ND		1	ND		1	ND		1.37	ND		1.37
1,1,2-Trichloroethane	7.37		3.64	ND		1.09	3.28		1.09	-		-	ND		1.09	1		1	ND		1	ND		1.09	ND		1.09
1,1-Dichloroethane	15.7		2.7	ND		0.809	12.3		0.809	-		-	23.8		0.809	3		0.8	6		0.8	2.35		0.809	3.15		0.809
1,1-Dichloroethene	ND		2.64	ND		0.793	ND		0.793	-		-	5.75		0.793	0.3	J	0.8	1		0.8	ND		0.793	1.17		0.793
1,2,4-Trichlorobenzene	ND		4.95	ND		1.48	ND		1.48	-		-	ND		1.48	ND		4	ND		4	ND		1.48	ND		1.48
1,2,4-Trimethylbenzene	ND		3.28	ND		0.983	ND		0.983	-		-	ND		0.983	ND		1	ND		1	ND		0.983	ND		0.983
1,2-Dibromoethane	ND		5.13	ND		1.54	ND		1.54	-		-	ND		1.54	ND		2	ND		2	ND		1.54	ND		1.54
1,2-Dichlorobenzene	ND		4.01	ND		1.2	ND		1.2	-		-	ND		1.2	ND		1	ND		1	ND		1.2	ND		1.2
1,2-Dichloroethane	ND		2.7	ND		0.809	ND		0.809	-		-	ND		0.809	ND		0.8	ND		0.8	ND		0.809	ND		0.809
1,2-Dichloropropane	ND		3.08	ND		0.924	ND		0.924	-		-	ND		0.924	ND		0.9	ND		0.9	ND		0.924	ND		0.924
1,3,5-Trimethylbenzene	ND		3.28	ND		0.983	ND		0.983	-		-	ND		0.983	ND		1	ND		1	ND		0.983	ND		0.983
1,3-Butadiene	ND		1.48	ND		0.442	ND		0.442	-		-	ND		0.442	ND		0.4	ND		0.4	ND		0.442	ND		0.442
1,3-Dichlorobenzene	ND		4.01	ND		1.2	ND		1.2	-		-	ND		1.2	ND		1	ND		1	ND		1.2	ND		1.2
1,4-Dichlorobenzene	ND		4.01	ND		1.2	ND		1.2	-		-	ND		1.2	ND		1	ND		1	ND		1.2	ND		1.2
1,4-Dioxane	ND		2.4	ND		0.721	ND		0.721	-		-	ND		0.721	ND		0.7	ND		0.7	ND		0.721	ND		0.721
2,2,4-Trimethylpentane	ND		3.12	ND		0.934	ND		0.934	-		-	ND		0.934	ND		0.9	ND		0.9	ND		0.934	ND		0.934
2-Butanone	ND		4.93	ND		1.47	1.86		1.47	-		-	1.84		1.47	6		1	0.4	J	1	ND		1.47	ND		1.47
2-Hexanone	ND		2.73	ND		0.82	ND		0.82	-		-	ND		0.82	-	-	-	-	-	-	ND		0.82	ND		0.82
3-Chloropropene	ND		2.09	ND		0.626	ND		0.626	-		-	ND		0.626	ND		0.6	ND		0.6	ND		0.626	ND		0.626
4-Ethyltoluene	ND		3.28	ND		0.983	ND		0.983	-		-	ND		0.983	ND		1	ND		1	ND		0.983	ND		0.983
4-Methyl-2-pentanone	ND		6.84	ND		2.05	ND		2.05	-		-	ND		2.05	ND		2	ND		2	ND		2.05	ND		2.05
Acetone	ND		7.91	3.78		2.38	9.95		2.38	-		-	10		2.38	2	J	2	2	J	2	ND		2.38	ND		2.38
Benzene	ND		2.13	ND		0.639	ND		0.639	-		-	ND		0.639	0.5	J	0.6	ND		0.6	ND		0.639	ND		0.639
Benzyl chloride	ND		3.45	ND		1.04	ND		1.04	-		-	ND		1.04	0.2	J	1	0.3	J	1	ND		1.04	ND		1.04
Bromodichloromethane	ND		4.47	ND		1.34	ND		1.34	-		-	ND		1.34	ND		1	ND		1	ND		1.34	ND		1.34
Bromoform	ND		6.9	ND		2.07	ND		2.07	-		-	ND		2.07	ND		2	ND		2	ND		2.07	ND		2.07
Bromomethane	ND		2.59	ND		0.777	ND		0.777	-		-	ND		0.777	ND		0.8	ND		0.8	ND		0.777	ND		0.777
Carbon disulfide	ND		2.08	3.3		0.623	1.12		0.623	-		-	2.46		0.623	0.2	J	0.6	0.4	J	0.6	ND		0.623	ND		0.623
Carbon tetrachloride	ND		4.2	ND		1.26	2.74		1.26	-		-	ND		1.26	1	J	1	0.6	J	1	ND		1.26	ND		1.26
Chlorobenzene	ND		3.07	ND		0.921	ND		0.921	-		-	ND		0.921	ND		0.9	ND		0.9	ND		0.921	ND		0.921
Chloroethane	ND		1.76	ND		0.528	ND		0.528	-		-	ND		0.528	ND		0.5	ND		0.5	ND		0.528	ND		0.528
Chloroform	14.6		3.26	ND		0.977	12.8		0.977	-		-	23		0.977	3		1	8		1	2.16		0.977	3.57		0.977
Chloromethane	1.45		1.38	2.23		0.413	2.19		0.413	-		-	4.27		0.413	0.7		0.4	0.9		0.4	ND		0.413	0.487		0.413
cis-1,2-Dichloroethene	47.6		2.64	ND		0.793	18.9		0.793	-		-	42.8		0.793	4		0.8	7		0.8	3.35		0.793	4.48		0.793
cis-1,3-Dichloropropene	ND		3.03	ND		0.908	ND		0.908	-		-	ND		0.908	ND		0.9	ND		0.9	ND		0.908	ND		0.908
Cyclohexane	ND		2.3	ND		0.688	ND		0.688	-		-	ND		0.688	ND		0.7	0.6	J	0.7	ND		0.688	ND		0.688
Dibromochloromethane	ND		5.68	ND		1.7	ND		1.7	-		-	ND		1.7	ND		2	ND		2	ND		1.7	ND		1.7
Dichlorodifluoromethane	ND		3.3	2.52		0.989	2.6		0.989	-		-	2.81		0.989	2		1	2		1	1.9		0.989	2.82		0.989
Ethanol	ND		31.5	9.46		9.42	ND		9.42	-		-	22.6		9.42	4	J	9	9	J	9	ND		9.42	59.9		9.42
Ethyl Acetate	ND		6.02	ND		1.8	ND		1.8	-		-	ND		1.8	-	-	-	-	-	-	ND		1.8	ND		1.8
Ethylbenzene	ND		2.9	ND		0.869	ND		0.869	-		-	ND		0.869	ND		0.9	ND		0.9	ND		0.869	ND		0.869
Freon-113	ND		5.11	ND		1.53	2.43		1.53	-		-	1.95		1.53	1	J	2	3		2	ND		1.53	ND		1.53
Freon-114	ND		4.66	ND		1.4	ND		1.4	-		-	ND		1.4	ND		1	ND		1	ND		1.4	ND		1.4
Heptane	ND		2.73	ND		0.82	ND		0.82	-		-	0.869		0.82	0.2	J	0.8	ND		0.8	ND		0.82	0.82		0.82
Hexachlorobutadiene	ND		7.11	ND		2.13	ND		2.13	-		-	ND		2.13	ND		2	ND		2	ND		3.05	ND		3.05
Isopropanol	ND		4.1	19.9		1.23	ND		1.23	-		-	ND		1.23	ND		1	ND		1	ND		1.23	ND		1.23
Methyl tert butyl ether	ND		2.4	ND		0.721	ND		0.721	-		-	ND		0.721	ND		0.7	ND		0.7	ND		0.721	ND		0.721
Methylene chloride	ND		5.8	ND		1.74	ND		1.74	-		-	ND		1.74	0.9	J	2	4		2	ND		1.74	ND		1.74
Napthalene	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
n-Hexane	ND		2.35	ND		0.705	ND		0.705	-		-	ND		0.705	0.4	J	0.7	1		0.7	ND		0.705	ND		0.705
o-Xylene	ND		2.9	ND		0.869	ND		0.869	-		-	ND		0.869	ND		0.9	ND		0.9	ND		0.869	ND		0.869
p/m-Xylene	ND		5.78	ND		1.74	ND		1.74	-		-	ND		1.74	0.5	J	2	0.4	J	2	ND		1.74	ND		1.74
Styrene	ND		2.84	ND		0.852	ND		0.852	-		-	ND		0.852	ND		0.9	ND		0.9	ND		0.852	ND		0.852
Tertiary butyl Alcohol	ND		5.06	ND		1.52	ND		1.52	-		-	2.09		1.52	ND		2	ND		2	ND		1.52	ND		1.52
Tetrachloroethene	635		4.52	ND		1.36	491		1.36	-		-	ND		1.36	81		1.4	ND		1	71.9		1.36	ND		1.36
Tetrahydrofuran	11.4		4.93	4.07		1.47	2.88		1.47	-		-	14.4		1.47	5		1	2		1	ND		1.47	3.21		1.47
Toluene	ND		2.51	ND		0.754	ND		0.754	-		-	ND		0.754	1		0.8	0.6	J	0.8	ND		0.754	ND		0.754
trans-1,2-Dichloroethene	3.2		2.64	ND		0.793	1.68		0.793	-		-	3.47		0.793	0.5	J	0.8	0.7	J	0.8	ND		0.793	ND		0.793
trans-1,3-Dichloropropene	ND		3.03	ND		0.908	ND		0.908	-		-	ND		0.908	ND		0.9	ND		0.9	ND		0.908	ND		0.908
Trichloroethene	1730		3.58	ND		1.07	1260	E	1.07	1400		4.13	1.17		1.07	310		1.1	110		1.1	170		1.07	297		1.07
Trichlorofluoromethane	ND		3.75	33.3		1.12	2.21		1.12	-		-	2.88		1.12	0.8	J	1	1		1	1.26		1.12	1.64		1.12
Vinyl bromide	ND		2.92	ND		0.874	ND		0.874	-		-	ND		0.874	ND		0.9	ND		0.9	ND		0.874	ND		0.874
Vinyl chloride	ND		1.71	ND		0.511	ND		0.511	-		-	ND		0.511	ND		0.5	ND		0.5	ND		0.511	ND		0.511

Notes:
Q - Laboratory data qualifier
U - The compound was not detected
J - Data indicates the presence of a compound that meets the identification criteria, the result is less than the quantification
ND - Non-detectable
D - Result is from an analysis that required a dilution
B - Analyte found in the analysis batch blank
* - Results analyzed by York Analytical Laboratories, Inc. - Stratford

TABLE 1
SVE Influent and Effluent Sampling Results
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY

SAMPLE ID:	INFLUENT			EFFLUENT			EFFLUENT			INFLUENT-09-22-2020			INFLUENT-09-22-2020			EFFLUENT-09-22-2020			INFLUENT- 12/3/20			EFFLUENT- 12/3/20			INFLUENT- 3-3-2021			EFFLUENT- 3-3-2021		
LAB ID:	L2023262-01			L2023262-02			L2023262-02 R1			L2039826-01			L2039826-01 R1			L2039826-02			L2054062-01			L2054062-02			L2110577-01			L2110577-02		
COLLECTION DATE:	6/4/2020			6/4/2020			6/4/2020			9/22/2020			9/22/2020			9/22/2020			12/3/2020			12/3/2020			3/3/2021			3/3/2021		
SAMPLE MATRIX:	SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR			SOIL VAPOR		
UNITS:	µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³		
ANALYTE	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**	**Conc**	**Q**	**RL**
VOLATILE ORGANICS IN AIR																														
1,1,1-Trichloroethane	40.6		1.56	165		1.56	-	-	-	74.7		1.56	-		-	50.4		2.18	14.6		1.09	9.17		1.09	16.4		1.09	ND		1.09
1,1,2,2-Tetrachloroethane	ND		1.96	ND		1.96	-	-	-	ND		1.96	-		-	ND		2.75	ND		1.37	ND		1.37	ND		1.37	ND		1.37
1,1,2-Trichloroethane	ND		1.56	ND		1.56	-	-	-	ND		1.56	-		-	ND		2.18	ND		1.09	ND		1.09	ND		1.09	ND		1.09
1,1-Dichloroethane	6.03		1.16	6.35		1.16	-	-	-	6.96		1.16	-		-	5.75		1.62	1.63		0.809	1.41		0.809	0.85		0.809	1.88		0.809
1,1-Dichloroethene	ND		1.13	2.15		1.13	-	-	-	ND		1.13	-		-	ND		1.59	ND		0.793	ND		0.793	ND		0.793	ND		0.793
1,2,4-Trichlorobenzene	ND		2.12	ND		2.12	-	-	-	ND		2.12	-		-	ND		2.97	ND		1.48	ND		1.48	ND		1.48	ND		1.48
1,2,4-Trimethylbenzene	ND		1.41	ND		1.41	-	-	-	ND		1.41	-		-	ND		1.97	ND		0.983	ND		0.983	ND		0.983	ND		0.983
1,2-Dibromoethane	ND		2.2	ND		2.2	-	-	-	ND		2.2	-		-	ND		3.07	ND		1.54	ND		1.54	ND		1.54	ND		1.54
1,2-Dichlorobenzene	ND		1.72	ND		1.72	-	-	-	ND		1.72	-		-	ND		2.4	ND		1.2	ND		1.2	ND		1.2	ND		1.2
1,2-Dichloroethane	ND		1.16	ND		1.16	-	-	-	ND		1.16	-		-	ND		1.62	ND		0.809	ND		0.809	ND		0.809	ND		0.809
1,2-Dichloropropane	ND		1.32	ND		1.32	-	-	-	ND		1.32	-		-	ND		1.85	ND		0.924	ND		0.924	ND		0.924	ND		0.924
1,3,5-Trimethylbenzene	ND		1.41	ND		1.41	-	-	-	ND		1.41	-		-	ND		1.97	ND		0.983	ND		0.983	ND		0.983	ND		0.983
1,3-Butadiene	ND		0.633	ND		0.633	-	-	-	ND		0.633	-		-	ND		0.885	ND		0.442	ND		0.442	ND		0.442	ND		0.442
1,3-Dichlorobenzene	ND		1.72	ND		1.72	-	-	-	ND		1.72	-		-	ND		2.4	ND		1.2	ND		1.2	ND		1.2	ND		1.2
1,4-Dichlorobenzene	ND		1.72	ND		1.72	-	-	-	ND		1.72	-		-	ND		2.4	ND		1.2	ND		1.2	ND		1.2	ND		1.2
1,4-Dioxane	ND		1.03	ND		1.03	-	-	-	ND		1.03	-		-	ND		1.44	ND		0.721	ND		0.721	ND		0.721	ND		0.721
2,2,4-Trimethylpentane	ND		1.34	ND		1.34	-	-	-	ND		1.34	-		-	ND		1.87	ND		0.934	ND		0.934	ND		0.934	ND		0.934
2-Butanone	2.49		2.11	ND		2.11	-	-	-	ND		2.11	-		-	ND		2.95	ND		1.47	ND		1.47	ND		1.47	ND		1.47
2-Hexanone	1.17		1.17	ND		1.17	-	-	-	ND		1.17	-		-	ND		1.64	ND		0.82	ND		0.82	ND		0.82	ND		0.82
3-Chloropropene	ND		0.895	ND		0.895	-	-	-	ND		0.895	-		-	ND		1.25	ND		0.626	ND		0.626	ND		0.626	ND		0.626
4-Ethyltoluene	ND		1.41	ND		1.41	-	-	-	ND		1.41	-		-	ND		1.97	ND		0.983	ND		0.983	ND		0.983	ND		0.983
4-Methyl-2-pentanone	ND		2.93	ND		2.93	-	-	-	ND		2.93	-		-	ND		4.1	ND		2.05	ND		2.05	ND		2.05	ND		2.05
Acetone	6.29		3.4	ND		3.4	-	-	-	ND		3.4	-		-	ND		4.75	2.8		2.38	ND		2.38	ND		2.38	ND		2.38
Benzene	1.08		0.914	ND		0.914	-	-	-	ND		0.914	-		-	ND		1.28	ND		0.639	ND		0.639	ND		0.639	ND		0.639
Benzyl chloride	ND		1.48	ND		1.48	-	-	-	ND		1.48	-		-	ND		2.07	ND		1.04	ND		1.04	ND		1.04	ND		1.04
Bromodichloromethane	ND		1.92	ND		1.92	-	-	-	ND		1.92	-		-	ND		2.68	ND		1.34	ND		1.34	ND		1.34	ND		1.34
Bromoform	ND		2.96	ND		2.96	-	-	-	ND		2.96	-		-	ND		4.14	ND		2.07	ND		2.07	ND		2.07	ND		2.07
Bromomethane	ND		1.11	ND		1.11	-	-	-	ND		1.11	-		-	ND		1.55	ND		0.777	ND		0.777	ND		0.777	ND		0.777
Carbon disulfide	2.34		0.891	3.15		0.891	-	-	-	ND		0.891	-		-	1.61		1.25	ND		0.623	ND		0.623	ND		0.623	ND		0.623
Carbon tetrachloride	ND		1.8	ND		1.8	-	-	-	2.2		1.8	-		-	ND		2.52	ND		1.26	ND		1.26	ND		1.26	ND		1.26
Chlorobenzene	ND		1.32	ND		1.32	-	-	-	ND		1.32	-		-	ND		1.84	ND		0.921	ND		0.921	ND		0.921	ND		0.921
Chloroethane	ND		0.755	ND		0.755	-	-	-	ND		0.755	-		-	ND		1.06	ND		0.528	ND		0.528	ND		0.528	ND		0.528
Chloroform	4.22		1.4	4.72		1.4	-	-	-	8.59		1.4	-		-	6.79		1.95	1.82		0.977	1.29		0.977	1.19		0.977	1.1		0.977
Chloromethane	5.8		0.591	6.92		0.591	-	-	-	4.27		0.591	-		-	3.82		0.826	0.673		0.413	0.836		0.413	1		0.413	1.39		0.413
cis-1,2-Dichloroethene	7.81		1.13	9		1.13	-	-	-	5.91		1.13	-		-	5		1.59	1.52		0.793	1.38		0.793	0.944		0.793	1.71		0.793
cis-1,3-Dichloropropene	ND		1.3	ND		1.3	-	-	-	ND		1.3	-		-	ND		1.82	ND		0.908	ND		0.908	ND		0.908	ND		0.908
Cyclohexane	ND		0.984	ND		0.984	-	-	-	ND		0.984	-		-	ND		1.38	ND		0.688	ND		0.688	ND		0.688	ND		0.688
Dibromochloromethane	ND		2.44	ND		2.44	-	-	-	ND		2.44	-		-	ND		3.41	ND		1.7	ND		1.7	ND		1.7	ND		1.7
Dichlorodifluoromethane	1.88		1.41	2.18		1.41	-	-	-	2.08		1.41	-		-	2.1		1.98	2.2		0.989	1.25		0.989	1.85		0.989	2.02		0.989
Ethanol	ND		13.5	51.3		13.5	-	-	-	14.4		13.5	-		-	230		18.8	30.5		9.42	236		9.42	ND		9.42	25.6		9.42
Ethyl Acetate	ND		2.57	ND		2.57	-	-	-	ND		2.57	-		-	ND		3.6	ND		1.8	ND		1.8	ND		1.8	ND		1.8
Ethylbenzene	ND		1.24	ND		1.24	-	-	-	ND		1.24	-		-	ND		1.74	ND		0.869	ND		0.869	ND		0.869	ND		0.869
Freon-113	ND		2.19	3.07		2.19	-	-	-	ND		2.19	-		-	ND		3.07	ND		1.53	ND		1.53	ND		1.53	ND		1.53
Freon-114	ND		2	ND		2	-	-	-	ND		2	-		-	ND		2.8	ND		1.4	ND		1.4	ND		1.4	ND		1.4
Heptane	ND		1.17	ND		1.17	-	-	-	ND		1.17	-		-	ND		1.64	ND		0.82	ND		0.82	ND		0.82	ND		0.82
Hexachlorobutadiene	-	-	-	ND		3.05	-		-	ND		4.27	ND		2.13	ND		2.13	ND		2.13	ND		2.13	ND		2.13	ND		2.13
Isopropanol	ND		1.76	ND		1.76	-	-	-	ND		1.76	-		-	ND		2.46	2.15		1.23	ND		1.23	ND		1.23	ND		1.23
Methyl tert butyl ether	ND		1.03	ND		1.03	-	-	-	ND		1.03	-		-	ND		1.44	ND		0.721	ND		0.721	ND		0.721	ND		0.721
Methylene chloride	ND		2.48	ND		2.48	-	-	-	ND		2.48	-		-	ND		3.47	ND		1.74	ND		1.74	ND		1.74	ND		1.74
Napthalene	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
n-Hexane	ND		1.01	ND		1.01	-	-	-	ND		1.01	-		-	ND		1.41	ND		0.705	ND		0.705	ND		0.705	ND		0.705
o-Xylene	ND		1.24	ND		1.24	-	-	-	ND		1.24	-		-	ND		1.74	ND		0.869	ND		0.869	ND		0.869	ND		0.869
p/m-Xylene	ND		2.48	ND		2.48	-	-	-	ND		2.48	-		-	ND		3.47	ND		1.74	ND		1.74	ND		1.74	ND		1.74
Styrene	ND		1.22	ND		1.22	-	-	-	ND		1.22	-		-	ND		1.7	ND		0.852	ND		0.852	ND		0.852	ND		0.852
Tertiary butyl Alcohol	ND		2.16	ND		2.16	-	-	-	ND		2.16	-		-	ND		3.03	ND		1.52	ND		1.52	ND		1.52	ND		1.52
Tetrachloroethene	182		1.94	ND		1.94	-	-	-	216		1.94	-		-	ND		2.71	22.3		1.36	ND		1.36	27		1.36	ND		1.36
Tetrahydrofuran	ND		2.11	4.9		2.11	-	-	-	ND		2.11	-		-	ND		2.95	ND		1.47	2.56		1.47	ND		1.47	ND		1.47
Toluene	1.47		1.08	ND		1.08	-	-	-	ND		1.08	-		-	ND		1.51	1.13		0.754	ND		0.754	ND		0.754	ND		0.754
trans-1,2-Dichloroethene	ND		1.13	ND		1.13	-	-	-	ND		1.13	-		-	ND		1.59	ND		0.793	ND		0.793	ND		0.793	ND		0.793
trans-1,3-Dichloropropene	ND		1.3	ND		1.3	-	-	-	ND		1.3	-		-	ND		1.82	ND		0.908	ND		0.908	ND		0.908	ND		0.908
Trichloroethene	554		1.54	1570	E	1.54	1510		4.48	785	E	1.54	677		2.69	607		2.15	137		1.07	1.45		1.07	131		1.07	ND		1.07
Trichlorofluoromethane	ND		1.61	ND		1.61	-	-	-	ND		1.61	-		-	ND		2.25	1.3		1.12	ND		1.12	ND		1.12	ND		1.12
Vinyl bromide	ND		1.25	ND		1.25	-	-	-	ND		1.25	-		-	ND		1.75	ND		0.874	ND		0.874	ND		0.874	ND		0.874
Vinyl chloride	ND		0.731	ND		0.731	-	-	-	ND		0.731	-		-	ND		1.02	ND		0.511	ND		0.511	ND		0.511	ND		0.511

Notes:
Q - Laboratory data qualifier
U - The compound was not detected
J - Data indicates the presence of a compound that meets the identification criteria, the result is less than the quantification
ND - Non-detectable
D - Result is from an analysis that required a dilution
B - Analyte found in the analysis batch blank
* - Results analyzed by York Analytical Laboratories, Inc. - Stratford

TABLE 1
SVE Influent and Effluent Sampling Results
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY

SAMPLE ID:	INFLUENT- 6-8-2021			EFFLUENT- 6-8-2021			INFLUENT- 9-21-2021			EFFLUENT- 9-21-2021			INFLUENT- 12-21-2021			EFFLUENT- 12-21-2021			INFLUENT-3-10-22			EFFLUENT-3-10-22		
LAB ID:	L2130770-01			L2130770-02			L2150912-01			L2150912-02			L2170316-01			L2170316-02			L2212750-01			L2212750-02		
COLLECTION DATE:	6/8/2021			6/8/2021			9/21/2021			9/21/2021			12/21/2021			12/21/2021			3/10/2022			3/10/2022		
SAMPLE MATRIX:	SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR		
UNITS:	µg/m^3			µg/m^3			µg/m^3			µg/m^3			µg/m^3			µg/m^3			µg/m^3			µg/m^3		
ANALYTE	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
VOLATILE ORGANICS IN AIR																								
1,1,1-Trichloroethane	28.3		1.09	38.3		1.56	57.3		2.18	ND		1.09	22		1.09	ND		1.09	11.8		1.09	ND		1.09
1,1,2,2-Tetrachloroethane	ND		1.37	ND		1.96	ND		2.75	ND		1.37	ND		1.37	ND		1.37	ND		1.37	ND		1.37
1,1,2-Trichloroethane	ND		1.09	ND		1.56	2.24		2.18	ND		1.09	ND		1.09	ND		1.09	ND		1.09	ND		1.09
1,1-Dichloroethane	2.96		0.809	7.57		1.16	6.19		1.62	ND		0.809	2.24		0.809	1.29		0.809	1.3		0.809	ND		0.809
1,1-Dichloroethene	ND		0.793	2.78		1.13	ND		1.59	ND		0.793	ND		0.793	ND		0.793	ND		0.793	ND		0.793
1,2,4-Trichlorobenzene	ND		1.48	ND		2.12	ND		2.97	ND		1.48	ND		1.48	ND		1.48	ND		1.48	ND		1.48
1,2,4-Trimethylbenzene	ND		0.983	ND		1.41	ND		1.97	ND		0.983	ND		0.983	ND		0.983	ND		0.983	ND		0.983
1,2-Dibromoethane	ND		1.54	ND		2.2	ND		3.07	ND		1.54	ND		1.54	ND		1.54	ND		1.54	ND		1.54
1,2-Dichlorobenzene	ND		1.2	ND		1.72	ND		2.4	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2
1,2-Dichloroethane	ND		0.809	ND		1.16	ND		1.62	ND		0.809	ND		0.809	ND		0.809	ND		0.809	ND		0.809
1,2-Dichloropropane	ND		0.924	ND		1.32	ND		1.85	ND		0.924	ND		0.924	ND		0.924	ND		0.924	ND		0.924
1,3,5-Trimethylbenzene	ND		0.983	ND		1.41	ND		1.97	ND		0.983	ND		0.983	ND		0.983	ND		0.983	ND		0.983
1,3-Butadiene	ND		0.442	ND		0.633	ND		0.885	ND		0.442	ND		0.442	ND		0.442	ND		0.442	ND		0.442
1,3-Dichlorobenzene	ND		1.2	ND		1.72	ND		2.4	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2
1,4-Dichlorobenzene	ND		1.2	ND		1.72	ND		2.4	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2
1,4-Dioxane	ND		0.721	ND		1.03	ND		1.44	ND		0.721	ND		0.721	ND		0.721	ND		0.721	ND		0.721
2,2,4-Trimethylpentane	ND		0.934	ND		1.34	ND		1.87	ND		0.934	ND		0.934	ND		0.934	ND		0.934	ND		0.934
2-Butanone	ND		1.47	2.79		2.11	ND		2.95	4.72		1.47	ND		1.47	ND		1.47	ND		1.47	ND		1.47
2-Hexanone	ND		0.82	1.59		1.17	ND		1.64	ND		0.82	ND		0.82	ND		0.82	ND		0.82	ND		0.82
3-Chloropropene	ND		0.626	ND		0.895	ND		1.25	ND		0.626	ND		0.626	ND		0.626	ND		0.626	ND		0.626
4-Ethyltoluene	ND		0.983	ND		1.41	ND		1.97	ND		0.983	ND		0.983	ND		0.983	ND		0.983	ND		0.983
4-Methyl-2-pentanone	ND		2.05	ND		2.93	ND		4.1	ND		2.05	ND		2.05	ND		2.05	ND		2.05	ND		2.05
Acetone	3.04		2.38	10.1		3.4	ND		4.75	105		2.38	2.8		2.38	3.42		2.38	ND		2.38	3.66		2.38
Benzene	ND		0.639	ND		0.914	ND		1.28	ND		0.639	ND		0.639	ND		0.639	ND		0.639	ND		0.639
Benzyl chloride	ND		1.04	ND		1.48	ND		2.07	ND		1.04	ND		1.04	ND		1.04	ND		1.04	ND		1.04
Bromodichloromethane	ND		1.34	ND		1.92	ND		2.68	ND		1.34	ND		1.34	ND		1.34	ND		1.34	ND		1.34
Bromoform	ND		2.07	ND		2.96	ND		4.14	ND		2.07	ND		2.07	ND		2.07	ND		2.07	ND		2.07
Bromomethane	ND		0.777	ND		1.11	ND		1.55	ND		0.777	ND		0.777	ND		0.777	ND		0.777	ND		0.777
Carbon disulfide	2.73		0.623	2.41		0.891	ND		1.25	ND		0.623	ND		0.623	ND		0.623	ND		0.623	ND		0.623
Carbon tetrachloride	ND		1.26	ND		1.8	ND		2.52	ND		1.26	ND		1.26	ND		1.26	ND		1.26	ND		1.26
Chlorobenzene	ND		0.921	ND		1.32	ND		1.84	ND		0.921	ND		0.921	ND		0.921	ND		0.921	ND		0.921
Chloroethane	ND		0.528	ND		0.755	ND		1.06	ND		0.528	ND		0.528	ND		0.528	ND		0.528	ND		0.528
Chloroform	3.8		0.977	4.71		1.4	7.81		1.95	ND		0.977	3.65		0.977	ND		0.977	1.57		0.977	ND		0.977
Chloromethane	4.54		0.413	4.01		0.591	ND		0.826	0.834		0.413	ND		0.413	0.434		0.413	ND		0.413	1		0.413
cis-1,2-Dichloroethene	3.48		0.793	9.75		1.13	5.67		1.59	ND		0.793	1.78		0.793	1.42		0.793	0.864		0.793	ND		0.793
cis-1,3-Dichloropropene	ND		0.908	ND		1.3	ND		1.82	ND		0.908	ND		0.908	ND		0.908	ND		0.908	ND		0.908
Cyclohexane	ND		0.688	ND		0.984	ND		1.38	ND		0.688	ND		0.688	ND		0.688	ND		0.688	ND		0.688
Dibromochloromethane	ND		1.7	ND		2.44	ND		3.41	ND		1.7	ND		1.7	ND		1.7	ND		1.7	ND		1.7
Dichlorodifluoromethane	1.93		0.989	2.28		1.41	ND		1.98	ND		0.989	3		0.989	2.8		0.989	2.67		0.989	2.28		0.989
Ethanol	20.9		9.42	857		13.5	ND		18.8	89.9		9.42	13.7		9.42	447		9.42	ND		9.42	142		9.42
Ethyl Acetate	ND		1.8	ND		2.57	ND		3.6	ND		1.8	ND		1.8	ND		1.8	ND		1.8	ND		1.8
Ethylbenzene	ND		0.869	ND		1.24	ND		1.74	ND		0.869	ND		0.869	ND		0.869	ND		0.869	ND		0.869
Freon-113	ND		1.53	ND		2.19	ND		3.07	ND		1.53	ND		1.53	ND		1.53	ND		1.53	ND		1.53
Freon-114	ND		1.4	ND		2	ND		2.8	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.4
Heptane	ND		0.82	ND		1.17	ND		1.64	ND		0.82	ND		0.82	ND		0.82	ND		0.82	ND		0.82
Hexachlorobutadiene	ND		2.13	ND		3.05	ND		4.27	ND		2.13	ND		2.13	ND		2.13	ND		2.13	ND		2.13
Isopropanol	ND		1.23	ND		1.76	ND		2.46	ND		1.23	ND		1.23	ND		1.23	ND		1.23	ND		1.23
Methyl tert butyl ether	ND		0.721	ND		1.03	ND		1.44	ND		0.721	ND		0.721	ND		0.721	ND		0.721	ND		0.721
Methylene chloride	2.54		1.74	4		2.48	ND		3.47	ND		1.74	ND		1.74	ND		1.74	3.32		1.74	ND		1.74
Napthalene	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
n-Hexane	ND		0.705	ND		1.01	ND		1.41	ND		0.705	ND		0.705	ND		0.705	ND		0.705	ND		0.705
o-Xylene	ND		0.869	ND		1.24	ND		1.74	ND		0.869	ND		0.869	ND		0.869	ND		0.869	ND		0.869
p/m-Xylene	ND		1.74	ND		2.48	ND		3.47	ND		1.74	ND		1.74	ND		1.74	ND		1.74	ND		1.74
Styrene	ND		0.852	ND		1.22	ND		1.7	ND		0.852	ND		0.852	ND		0.852	ND		0.852	ND		0.852
Tertiary butyl Alcohol	ND		1.52	4		2.16	ND		3.03	ND		1.52	ND		1.52	2.84		1.52	ND		1.52	ND		1.52
Tetrachloroethene	80.7		1.36	ND		1.94	202		2.71	ND		1.36	71.2		1.36	ND		1.36	38.5		1.36	ND		1.36
Tetrahydrofuran	ND		1.47	8.38		2.11	ND		2.95	25.4		1.47	ND		1.47	3.57		1.47	ND		1.47	ND		1.47
Toluene	ND		0.754	ND		1.08	ND		1.51	ND		0.754	ND		0.754	ND		0.754	ND		0.754	ND		0.754
trans-1,2-Dichloroethene	ND		0.793	ND		1.13	ND		1.59	ND		0.793	ND		0.793	ND		0.793	ND		0.793	ND		0.793
trans-1,3-Dichloropropene	ND		0.908	ND		1.3	ND		1.82	ND		0.908	ND		0.908	ND		0.908	ND		0.908	ND		0.908
Trichloroethene	392		1.07	480		1.54	704		2.15	2.52		1.07	220		1.07	ND		1.07	114		1.07	ND		1.07
Trichlorofluoromethane	ND		1.12	2.03		1.61	ND		2.25	ND		1.12	1.42		1.12	ND		1.12	2.74		1.12	1.13		1.12
Vinyl bromide	ND		0.874	ND		1.25	ND		1.75	ND		0.874	ND		0.874	ND		0.874	ND		0.874	ND		0.874
Vinyl chloride	ND		0.511	ND		0.731	ND		1.02	ND		0.511	ND		0.511	ND		0.511	ND		0.511	ND		0.511

Notes:
Q - Laboratory data qualifier
U - The compound was not detected
J - Data indicates the presence of a compound that meets the identification criteria, the result is less than the quantification
ND - Non-detectable
D - Result is from an analysis that required a dilution
B - Analyte found in the analysis batch blank
* - Results analyzed by York Analytical Laboratories, Inc. - Stratford

TABLE 1
SVE Influent and Effluent Sampling Results
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY

SAMPLE ID:	INFLUENT-6-15-22			EFFLUENT-6-15-22			INFLUENT 9-26-22			EFFLUENT 9-26-22			INFLUENT 12-21-22			EFFLUENT 12-21-22			INFLUENT			EFFLUENT		
LAB ID:	L2231898-01			L2231898-02			L2253029-01			L2253029-02			L2272108-01			L2272108-02			L2315844-01			L2315844-02		
COLLECTION DATE:	6/15/2022			6/15/2022			9/26/2022			9/26/2022			12/21/2022			12/21/2022			3/25/2023			3/25/2023		
SAMPLE MATRIX:	SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR		
UNITS:	µg/m^3			µg/m^3			µg/m^3			µg/m^3			µg/m^3			µg/m^3			µg/m^3			µg/m^3		
ANALYTE	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
VOLATILE ORGANICS IN AIR																								
1,1,1-Trichloroethane	30.1		1.09	1.09		1.09	62.7		1.09	1.09		1.09	17.8		1.09	1.09		1.09	12.8		1.09	1.09		1.09
1,1,2,2-Tetrachloroethane	1.37		1.37	1.37		1.37	4.29		1.37	1.37		1.37	1.37		1.37	1.37		1.37	1.37		1.37	1.37		1.37
1,1,2-Trichloroethane	1.99		1.09	1.09		1.09	3.41		1.09	1.09		1.09	1.09		1.09	1.09		1.09	1.09		1.09	1.09		1.09
1,1-Dichloroethane	3.89		0.809	0.809		0.809	4.17		0.809	0.809		0.809	1.44		0.809	0.809		0.809	1.41		0.809	0.809		0.809
1,1-Dichloroethene	0.793		0.793	0.793		0.793	2.48		0.793	0.793		0.793	0.793		0.793	0.793		0.793	0.793		0.793	0.793		0.793
1,2,4-Trichlorobenzene	1.48		1.48	1.48		1.48	4.64		1.48	1.48		1.48	1.48		1.48	1.48		1.48	1.48		1.48	1.48		1.48
1,2,4-Trimethylbenzene	0.983		0.983	0.983		0.983	3.07		0.983	0.983		0.983	4.24		0.983	0.983		0.983	0.983		0.983	0.983		0.983
1,2-Dibromoethane	1.54		1.54	1.54		1.54	4.8		1.54	1.54		1.54	1.54		1.54	1.54		1.54	1.54		1.54	1.54		1.54
1,2-Dichlorobenzene	1.2		1.2	1.2		1.2	3.76		1.2	1.2		1.2	1.2		1.2	1.2		1.2	1.2		1.2	1.2		1.2
1,2-Dichloroethane	0.809		0.809	0.809		0.809	2.53		0.809	0.809		0.809	0.809		0.809	0.809		0.809	0.809		0.809	0.809		0.809
1,2-Dichloropropane	0.924		0.924	0.924		0.924	2.89		0.924	0.924		0.924	0.924		0.924	0.924		0.924	0.924		0.924	0.924		0.924
1,3,5-Trimethylbenzene	0.983		0.983	0.983		0.983	3.07		0.983	0.983		0.983	1.17		0.983	0.983		0.983	0.983		0.983	0.983		0.983
1,3-Butadiene	0.442		0.442	0.442		0.442	1.38		0.442	0.442		0.442	0.442		0.442	0.442		0.442	0.442		0.442	0.442		0.442
1,3-Dichlorobenzene	1.2		1.2	1.2		1.2	3.76		1.2	1.2		1.2	1.2		1.2	1.2		1.2	1.2		1.2	1.2		1.2
1,4-Dichlorobenzene	1.2		1.2	1.2		1.2	3.76		1.2	1.2		1.2	1.2		1.2	1.2		1.2	1.2		1.2	1.2		1.2
1,4-Dioxane	0.721		0.721	0.721		0.721	2.25		0.721	0.721		0.721	0.721		0.721	0.721		0.721	0.721		0.721	0.721		0.721
2,2,4-Trimethylpentane	0.934		0.934	0.934		0.934	2.92		0.934	0.934		0.934	2.57		0.934	0.934		0.934	0.934		0.934	0.934		0.934
2-Butanone	3.95		1.47	2.66		1.47	134		1.47	2.01		1.47	1.47		1.47	1.47		1.47	1.47		1.47	1.47		1.47
2-Hexanone	2.27		0.82	0.951		0.82	2.56		0.82	0.82		0.82	0.82		0.82	0.82		0.82	0.82		0.82	0.82		0.82
3-Chloropropene	0.626		0.626	0.626		0.626	1.96		0.626	0.626		0.626	0.626		0.626	0.626		0.626	0.626		0.626	0.626		0.626
4-Ethyltoluene	0.983		0.983	0.983		0.983	3.07		0.983	0.983		0.983	0.998		0.983	0.983		0.983	0.983		0.983	0.983		0.983
4-Methyl-2-pentanone	2.05		2.05	2.05		2.05	6.39		2.05	2.05		2.05	2.05		2.05	2.05		2.05	2.05		2.05	2.05		2.05
Acetone	12.4		2.38	15.5		2.38	110		2.38	13		2.38	3.85		2.38	4.96		2.38	2.38		2.38	3.68		2.38
Benzene	0.639		0.639	0.639		0.639	2		0.639	0.639		0.639	11.7		0.639	2.59		0.639	0.639		0.639	0.639		0.639
Benzyl chloride	1.04		1.04	1.04		1.04	3.24		1.04	1.04		1.04	1.04		1.04	1.04		1.04	1.04		1.04	1.04		1.04
Bromodichloromethane	1.34		1.34	1.34		1.34	4.19		1.34	1.34		1.34	1.34		1.34	1.34		1.34	1.34		1.34	1.34		1.34
Bromoform	2.07		2.07	2.07		2.07	6.46		2.07	2.07		2.07	2.07		2.07	2.07		2.07	2.07		2.07	2.07		2.07
Bromomethane	0.777		0.777	0.777		0.777	2.43		0.777	0.777		0.777	0.777		0.777	0.777		0.777	0.777		0.777	0.777		0.777
Carbon disulfide	0.981		0.623	0.623		0.623	1.95		0.623	0.623		0.623	0.623		0.623	0.623		0.623	0.623		0.623	0.623		0.623
Carbon tetrachloride	1.26		1.26	1.26		1.26	3.93		1.26	1.26		1.26	1.26		1.26	1.26		1.26	1.26		1.26	1.26		1.26
Chlorobenzene	0.921		0.921	0.921		0.921	2.88		0.921	0.921		0.921	0.921		0.921	0.921		0.921	0.921		0.921	0.921		0.921
Chloroethane	1.75		0.528	2.26		0.528	1.65		0.528	1.13		0.528	0.528		0.528	0.528		0.528	0.528		0.528	0.528		0.528
Chloroform	3.66		0.977	0.977		0.977	7.42		0.977	0.977		0.977	1.99		0.977	0.977		0.977	1.59		0.977	0.977		0.977
Chloromethane	2.25		0.413	1.88		0.413	1.29		0.413	106		0.413	0.413		0.413	0.9		0.413	0.413		0.413	0.469		0.413
cis-1,2-Dichloroethene	3.54		0.793	0.793		0.793	4.28		0.793	0.793		0.793	1.08		0.793	0.793		0.793	1.3		0.793	0.793		0.793
cis-1,3-Dichloropropene	0.908		0.908	0.908		0.908	2.84		0.908	0.908		0.908	0.908		0.908	0.908		0.908	0.908		0.908	0.908		0.908
Cyclohexane	0.688		0.688	0.688		0.688	2.15		0.688	0.688		0.688	1.14		0.688	0.688		0.688	0.688		0.688	0.688		0.688
Dibromochloromethane	1.7		1.7	1.7		1.7	5.32		1.7	1.7		1.7	1.7		1.7	1.7		1.7	1.7		1.7	1.7		1.7
Dichlorodifluoromethane	2.6		0.989	2.45		0.989	3.09		0.989	0.989		0.989	2.4		0.989	2.25		0.989	2.53		0.989	1.87		0.989
Ethanol	10.8		9.42	260		9.42	29.4		9.42	409		9.42	9.42		9.42	222		9.42	9.42		9.42	239		9.42
Ethyl Acetate	1.8		1.8	1.8		1.8	5.62		1.8	1.8		1.8	1.8		1.8	1.8		1.8	1.8		1.8	1.8		1.8
Ethylbenzene	0.869		0.869	0.869		0.869	2.71		0.869	0.869		0.869	5.95		0.869	0.869		0.869	0.869		0.869	0.869		0.869
Freon-113	1.53		1.53	1.53		1.53	4.79		1.53	1.53		1.53	1.53		1.53	1.53		1.53	1.53		1.53	1.53		1.53
Freon-114	1.4		1.4	1.4		1.4	4.37		1.4	1.4		1.4	1.4		1.4	1.4		1.4	1.4		1.4	1.4		1.4
Heptane	1.11		0.82	0.82		0.82	2.56		0.82	0.82		0.82	2.02		0.82	0.82		0.82	0.82		0.82	0.82		0.82
Hexachlorobutadiene	2.13		2.13	2.13		2.13	6.67		2.13	2.13		2.13	2.13		2.13	2.13		2.13	2.13		2.13	2.13		2.13
Isopropanol	1.59		1.23	1.23		1.23	3.83		1.23	1.23		1.23	1.23		1.23	1.23		1.23	1.23		1.23	1.23		1.23
Methyl tert butyl ether	0.721		0.721	0.721		0.721	2.25		0.721	0.721		0.721	0.721		0.721	0.721		0.721	0.721		0.721	0.721		0.721
Methylene chloride	1.74		1.74	3.01		1.74	5.42		1.74	1.74		1.74	1.74		1.74	1.74		1.74	1.74		1.74	2.17		1.74
Napthalene	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
n-Hexane	0.705		0.705	0.705		0.705	2.2		0.705	0.705		0.705	2.51		0.705	0.705		0.705	0.705		0.705	0.705		0.705
o-Xylene	0.869		0.869	0.869		0.869	2.71		0.869	0.869		0.869	4.18		0.869	0.869		0.869	0.869		0.869	0.869		0.869
p/m-Xylene	1.74		1.74	1.74		1.74	5.43		1.74	1.74		1.74	9.95		1.74	1.74		1.74	1.74		1.74	1.74		1.74
Styrene	0.852		0.852	0.852		0.852	2.66		0.852	0.852		0.852	0.852		0.852	0.852		0.852	0.852		0.852	0.852		0.852
Tertiary butyl Alcohol	1.52		1.52	1.52		1.52	4.73		1.52	2.27		1.52	1.52		1.52	1.76		1.52	1.52		1.52	2.24		1.52
Tetrachloroethene	106		1.36	1.36		1.36	158		1.36	1.36		1.36	52.8		1.36	1.36		1.36	44		1.36	1.36		1.36
Tetrahydrofuran	1.47		1.47	2.45		1.47	439		1.47	5.43		1.47	1.47		1.47	2.84		1.47	1.47		1.47	2.34		1.47
Toluene	0.946		0.754	1.68		0.754	2.36		0.754	0.754		0.754	13.6		0.754	0.961		0.754	0.754		0.754	0.754		0.754
trans-1,2-Dichloroethene	0.793		0.793	0.793		0.793	2.48		0.793	0.793		0.793	0.793		0.793	0.793		0.793	0.793		0.793	0.793		0.793
trans-1,3-Dichloropropene	0.908		0.908	0.908		0.908	2.84		0.908	0.908		0.908	0.908		0.908	0.908		0.908	0.908		0.908	0.908		0.908
Trichloroethene	415		1.07	1.07		1.07	645		1.07	1.07		1.07	147		1.07	1.07		1.07	135		1.07	1.07		1.07
Trichlorofluoromethane	7.42		1.12	1.64		1.12	7.59		1.12	1.12		1.12	2.17		1.12	1.75		1.12	1.88		1.12	1.9		1.12
Vinyl bromide	0.874		0.874	0.874		0.874	2.73		0.874	0.874		0.874	0.874		0.874	0.874		0.874	0.874		0.874	0.874		0.874
Vinyl chloride	0.511		0.511	0.511		0.511	1.6		0.511	0.511		0.511	0.511		0.511	0.511		0.511	0.511		0.511	0.511		0.511

Notes:
Q - Laboratory data qualifier
U - The compound was not detected
J - Data indicates the presence of a compound that meets the identification criteria, the result is less than the quantification
ND - Non-detectable
D - Result is from an analysis that required a dilution
B - Analyte found in the analysis batch blank
* - Results analyzed by York Analytical Laboratories, Inc. - Stratford

TABLE 1
SVE Influent and Effluent Sampling Results
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY

SAMPLE ID:	INFLUENT			EFFLUENT			INFLUENT 09-05-23			EFFLUENT 09-05-23			INFLUENT 12-28-23			EFFLUENT 12-28-23			INFLUENT			EFFLUENT		
LAB ID:	L2334149-01			L2334149-02			L2351432-01			L2351432-02			L2400031-01			L2400031-02			24D0125-01*			24D0125-02*		
COLLECTION DATE:	6/15/2023			6/15/2023			9/5/2023			9/5/2023			12/28/2023			12/28/2023			4/1/2024			4/1/2024		
SAMPLE MATRIX:	SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR		
UNITS:	µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³		
ANALYTE	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
VOLATILE ORGANICS IN AIR																								
1,1,1-Trichloroethane	25.5		1.09	ND		1.09	54.1		1.95	ND		1.09	12.9		1.09	35.7		1.09	7.64		0.763	27.83		0.763
1,1,2,2-Tetrachloroethane	ND		1.37	ND		1.37	ND		2.45	ND		1.37	ND		1.37	ND		1.37	ND		0.961	ND		0.961
1,1,2-Trichloroethane	1.15		1.09	ND		1.09	ND		1.95	ND		1.09	ND		1.09	ND		1.09	ND		0.763	ND		0.763
1,1-Dichloroethane	2.83		0.809	3.36		0.809	5.26		1.44	6.07		0.809	1.69		0.809	2.24		0.809	1.17		0.566	1.3		0.809
1,1-Dichloroethene	ND		0.793	1.11		0.793	ND		1.42	2.55		0.793	ND		0.793	ND		0.793	ND		0.138	0.277		0.138
1,2,4-Trichlorobenzene	ND		1.48	ND		1.48	ND		2.65	ND		1.48	ND		1.48	ND		1.48	ND		1.04	ND		1.04
1,2,4-Trimethylbenzene	ND		0.983	ND		0.983	ND		1.76	ND		0.983	ND		0.983	ND		0.983	ND		0.688	ND		0.688
1,2-Dibromoethane	ND		1.54	ND		1.54	ND		2.74	ND		1.54	ND		1.54	ND		1.54	ND		1.09	ND		1.09
1,2-Dichlorobenzene	ND		1.2	ND		1.2	ND		2.15	ND		1.2	ND		1.2	ND		1.2	ND		0.841	ND		0.841
1,2-Dichloroethane	ND		0.809	ND		0.809	ND		1.44	ND		0.809	ND		0.809	ND		0.809	ND		0.566	ND		0.566
1,2-Dichloropropane	ND		0.924	ND		0.924	ND		1.65	ND		0.924	ND		0.924	ND		0.924	ND		0.658	ND		0.658
1,3,5-Trimethylbenzene	ND		0.983	ND		0.983	ND		1.76	ND		0.983	ND		0.983	ND		0.983	ND		0.688	ND		0.688
1,3-Butadiene	ND		0.442	ND		0.442	ND		0.79	ND		0.442	ND		0.442	ND		0.442	ND		0.944	ND		0.944
1,3-Dichlorobenzene	ND		1.2	ND		1.2	ND		2.15	ND		1.2	ND		1.2	ND		1.2	ND		0.841	ND		0.841
1,4-Dichlorobenzene	ND		1.2	ND		1.2	ND		2.15	ND		1.2	ND		1.2	ND		1.2	ND		0.841	ND		0.841
1,4-Dioxane	ND		0.721	ND		0.721	ND		1.29	ND		0.721	ND		0.721	ND		0.721	ND		1.01	ND		1.01
2,2,4-Trimethylpentane	ND		0.934	ND		0.934	ND		1.67	ND		0.934	ND		0.934	ND		0.934	ND		0.327	ND		0.327
2-Butanone	ND		1.47	2.61		1.47	ND		2.63	1.69		1.47	ND		1.47	ND		1.47	ND		2.06	ND		2.06
2-Hexanone	ND		0.82	ND		0.82	ND		1.46	ND		0.82	ND		0.82	ND		0.82	ND		1.15	ND		1.15
3-Chloropropene	ND		0.626	ND		0.626	ND		1.12	ND		0.626	ND		0.626	ND		0.626	ND		0.219	ND		0.219
4-Ethyltoluene	ND		0.983	ND		0.983	ND		1.76	ND		0.983	ND		0.983	ND		0.983	ND		0.688	ND		0.688
4-Methyl-2-pentanone	ND		2.05	ND		2.05	ND		3.66	ND		2.05	ND		2.05	ND		2.05	ND		0.573	ND		0.573
Acetone	3.3		2.38	4.32		2.38	6.06		4.25	4.56		2.38	ND		2.38	ND		2.38	19		1.66	2		1.66
Benzene	ND		0.639	ND		0.639	ND		1.14	ND		0.639	ND		0.639	ND		0.639	ND		0.455	ND		0.455
Benzyl chloride	ND		1.04	ND		1.04	ND		1.85	ND		1.04	ND		1.04	ND		1.04	ND		0.724	ND		0.724
Bromodichloromethane	4.13		1.34	ND		1.34	ND		2.39	ND		1.34	ND		1.34	ND		1.34	ND		0.938	ND		0.938
Bromoform	ND		2.07	ND		2.07	ND		3.69	ND		2.07	ND		2.07	ND		2.07	ND		1.45	ND		1.45
Bromomethane	ND		0.777	ND		0.777	ND		1.39	ND		0.777	ND		0.777	ND		0.777	ND		0.553	ND		0.553
Carbon disulfide	ND		0.623	ND		0.623	1.12		1.11	ND		0.623	ND		0.623	ND		0.623	ND		0.435	ND		0.435
Carbon tetrachloride	ND		1.26	ND		1.26	ND		2.25	ND		1.26	ND		1.26	ND		1.26	0.448		0.224	ND		0.224
Chlorobenzene	ND		0.921	ND		0.921	ND		1.64	ND		0.921	ND		0.921	ND		0.921	ND		0.655	ND		0.655
Chloroethane	ND		0.528	1.03		0.528	ND		0.942	2.13		0.528	ND		0.528	1.35		0.528	ND		0.376	1.35		0.376
Chloroform	3.78		0.977	2.58		0.977	7.62		1.74	4.74		0.977	2.25		0.977	2.79		0.977	1.22		0.683	1.76		0.683
Chloromethane	ND		0.413	0.603		0.413	ND		0.737	1.47		0.413	ND		0.413	0.572		0.413	ND		0.294	0.572		0.294
cis-1,2-Dichloroethene	2.62		0.793	3		0.793	4.08		1.42	4.8		0.793	1.11		0.793	1.46		0.793	0.832		0.138	0.951		0.138
cis-1,3-Dichloropropene	ND		0.908	ND		0.908	ND		1.62	ND		0.908	ND		0.908	ND		0.908	ND		0.635	ND		0.653
Cyclohexane	ND		0.688	ND		0.688	ND		1.23	ND		0.688	ND		0.688	ND		0.688	ND		0.481	ND		0.481
Dibromochloromethane	ND		1.7	ND		1.7	ND		3.04	ND		1.7	ND		1.7	ND		1.7	21.3		1.19	ND		1.19
Dichlorodifluoromethane	2.32		0.989	2.41		0.989	2.24		1.77	2.4		0.989	2.29		0.989	2.47		0.989	2.31		0.704	1.91		0.704
Ethanol	ND		9.42	122		9.42	ND		16.8	182		9.42	ND		9.42	430		9.42	-		-	-		-
Ethyl Acetate	ND		1.8	ND		1.8	ND		3.22	ND		1.8	ND		1.8	ND		1.8	ND		1.01	ND		1.01
Ethylbenzene	ND		0.869	ND		0.869	ND		1.55	ND		0.869	ND		0.869	ND		0.869	ND		0.618	ND		0.618
Freon-113	ND		1.53	ND		1.53	ND		2.74	ND		1.53	ND		1.53	ND		1.53	ND		1.07	ND		1.07
Freon-114	ND		1.4	ND		1.4	ND		2.5	ND		1.4	ND		1.4	ND		1.4	ND		0.995	ND		0.995
Heptane	ND		0.82	ND		0.82	ND		1.46	ND		0.82	ND		0.82	ND		0.82	ND		0.573	ND		0.573
Hexachlorobutadiene	ND		2.13	ND		2.13	ND		3.81	ND		2.13	ND		2.13	ND		2.13	ND		1.49	ND		1.49
Isopropanol	ND		1.23	ND		1.23	ND		2.2	ND		1.23	ND		1.23	ND		1.23	2.14		1.72	ND		1.72
Methyl tert butyl ether	ND		0.721	ND		0.721	ND		1.29	ND		0.721	ND		0.721	ND		0.721	ND		0.504	ND		0.504
Methylene chloride	ND		1.74	6.6		1.74	ND		3.1	ND		1.74	ND		1.74	ND		1.74	ND		0.989	ND		0.989
Napthalene	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
n-Hexane	ND		0.705	ND		0.705	ND		1.26	ND		0.705	ND		0.705	ND		0.705	ND		0.493	ND		0.493
o-Xylene	ND		0.869	ND		0.869	ND		1.55	ND		0.869	ND		0.869	ND		0.869	ND		0.607	ND		0.607
p/m-Xylene	ND		1.74	ND		1.74	ND		3.1	ND		1.74	ND		1.74	ND		1.74	ND		1.24	ND		1.24
Styrene	ND		0.852	ND		0.852	ND		1.52	ND		0.852	ND		0.852	ND		0.852	ND		0.596	ND		0.596
Tertiary butyl Alcohol	ND		1.52	2.53		1.52	ND		2.71	ND		1.52	ND		1.52	3.33		1.52	-		-	-		-
Tetrachloroethene	90.9		1.36	ND		1.36	204		2.42	ND		1.36	61.5		1.36	ND		1.36	29.6		0.965	ND		0.965
Tetrahydrofuran	ND		1.47	2.45		1.47	ND		2.63	1.57		1.47	ND		1.47	ND		1.47	ND		0.825	ND		0.825
Toluene	ND		0.754	ND		0.754	ND		1.35	ND		0.754	ND		0.754	ND		0.754	ND		0.527	ND		0.527
trans-1,2-Dichloroethene	ND		0.793	ND		0.793	ND		1.42	ND		0.793	ND		0.793	ND		0.793	ND		0.555	ND		0.555
trans-1,3-Dichloropropene	ND		0.908	ND		0.908	ND		1.62	ND		0.908	ND		0.908	ND		0.908	ND		0.635	ND		0.635
Trichloroethene	360		1.07	ND		1.07	623		1.92	ND		1.07	156		1.07	ND		1.07	98.3		0.191	ND		0.191
Trichlorofluoromethane	2.04		1.12	1.89		1.12	4.39		2.01	6.13		1.12	1.93		1.12	2.4		1.12	1.93		0.8	1.43		0.8
Vinyl bromide	ND		0.874	ND		0.874	ND		1.56	ND		0.874	ND		0.874	ND		0.874	ND		0.612	ND		0.612
Vinyl chloride	ND		0.511	ND		0.511	ND		0.913	ND		0.511	ND		0.511	ND		0.511	ND		0.182	ND		0.182

Notes:
Q - Laboratory data qualifier
U - The compound was not detected
J - Data indicates the presence of a compound that meets the identification criteria, the result is less than the quantification
ND - Non-detectable
D - Result is from an analysis that required a dilution
B - Analyte found in the analysis batch blank
* - Results analyzed by York Analytical Laboratories, Inc. - Stratford

TABLE 1
SVE Influent and Effluent Sampling Results
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY

SAMPLE ID:	INFLUENT-06-20-2024			EFFLUENT-06-20-2024			INFLUENT			EFFLUENT			Influent_022725*			Effluent_022725*			INFLUENT_042225			EFFLUENT_042225		
LAB ID:	L2435291-02			L2435291-01			L2465462-01			L2465462-02			25B1585-01			25B1585-02			L2525094-01			L2525094-02		
COLLECTION DATE:	6/20/2024			6/20/2024			11/7/2024			11/7/2024			2/27/2025			2/27/2025			4/22/2025			4/22/2025		
SAMPLE MATRIX:	SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR			SOIL_VAPOR		
UNITS:	µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³			µg/m³		
ANALYTE	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL	Conc	Q	RL
VOLATILE ORGANICS IN AIR																								
1,1,1-Trichloroethane	28.6		1.09	132		1.09	23.2		1.09	17.6		1.36	12	D	0.55	ND		0.55	9.82		1.09	ND		1.09
1,1,2,2-Tetrachloroethane	ND		1.37	ND		1.37	ND		1.37	ND		1.72	ND		0.69	ND		0.69	ND		1.37	ND		1.37
1,1,2-Trichloroethane	ND		1.09	ND		1.09	ND		1.09	ND		1.36	ND		0.55	ND		0.55	ND		1.09	ND		1.09
1,1-Dichloroethane	3.67		0.809	5.02		0.809	2.2		0.809	3.53		1.01	0.69	D	0.40	ND		0.40	1.27		0.809	ND		0.809
1,1-Dichloroethene	ND		0.793	1.8		0.793	ND		0.793	ND		0.991	0.18	D	0.099	ND		0.099	ND		0.793	ND		0.793
1,2,4-Trichlorobenzene	ND		1.48	ND		1.48	ND		1.48	ND		1.86	ND		0.74	ND		0.74	ND		1.48	ND		1.48
1,2,4-Trimethylbenzene	ND		0.983	ND		0.983	ND		0.983	ND		1.23	ND		0.49	ND		0.49	ND		0.983	ND		0.983
1,2-Dibromoethane	ND		1.54	ND		1.54	ND		1.54	ND		1.92	ND		0.77	ND		0.77	ND		1.54	ND		1.54
1,2-Dichlorobenzene	ND		1.2	ND		1.2	ND		1.2	ND		1.5	ND		0.60	ND		0.60	ND		1.2	ND		1.2
1,2-Dichloroethane	ND		0.809	ND		0.809	ND		0.809	ND		1.01	ND		0.40	ND		0.40	ND		0.809	ND		0.809
1,2-Dichloropropane	ND		0.924	ND		0.924	ND		0.924	ND		1.16	ND		0.46	ND		0.46	ND		0.924	ND		0.924
1,3,5-Trimethylbenzene	ND		0.983	ND		0.983	ND		0.983	ND		1.23	ND		0.49	ND		0.49	ND		0.983	ND		0.983
1,3-Butadiene	ND		0.442	ND		0.442	ND		0.442	ND		0.553	ND		0.66	ND		0.66	ND		0.442	ND		0.442
1,3-Dichlorobenzene	ND		1.2	ND		1.2	ND		1.2	ND		1.5	ND		0.60	ND		0.60	ND		1.2	ND		1.2
1,4-Dichlorobenzene	ND		1.2	ND		1.2	ND		1.2	ND		1.5	ND		0.60	ND		0.60	ND		1.2	ND		1.2
1,4-Dioxane	ND		0.721	ND		0.721	ND		0.721	ND		0.901	ND		0.72	ND		0.72	ND		0.721	ND		0.721
2,2,4-Trimethylpentane	ND		0.934	ND		0.934	ND		0.934	ND		1.17	ND		0.23	0.37	D	0.23	ND		0.934	4.02		0.934
2-Butanone	ND		1.47	2.8		1.47	ND		1.47	2.55		1.84	0.5	D	0.29	7	D	0.29	ND		1.47	1.71		1.47
2-Hexanone	ND		0.82	1.15		0.82	ND		0.82	1.1		1.02	ND		0.82	ND		0.82	ND		0.82	ND		0.82
3-Chloropropene	ND		0.626	ND		0.626	ND		0.626	ND		0.783	ND		1.6	ND		1.6	ND		0.626	ND		0.626
4-Ethyltoluene	ND		0.983	ND		0.983	ND		0.983	ND		1.23	-	-	-	-	-	-	ND		0.983	ND		0.983
4-Methyl-2-pentanone	ND		2.05	ND		2.05	ND		2.05	ND		2.56	ND		0.41	ND		0.41	ND		2.05	ND		2.05
Acetone	5.94		2.38	3.87		2.38	7.51		2.38	10.6		2.97	14	D	1.9	170	D	1.9	6.01		2.38	9.83		2.38
Benzene	ND		0.639	ND		0.639	ND		0.639	ND		0.799	0.65	D	0.32	ND		0.32	ND		0.639	ND		0.639
Benzyl chloride	ND		1.04	ND		1.04	ND		1.04	ND		1.29	ND		0.52	ND		0.52	ND		1.04	ND		1.04
Bromodichloromethane	ND		1.34	ND		1.34	ND		1.34	ND		1.67	ND		0.67	ND		0.67	ND		1.34	ND		1.34
Bromoform	ND		2.07	ND		2.07	ND		2.07	ND		2.58	ND		1.0	ND		1.0	ND		2.07	ND		2.07
Bromomethane	ND		0.777	ND		0.777	ND		0.777	ND		0.971	ND		0.39	ND		0.39	ND		0.777	ND		0.777
Carbon disulfide	ND		0.623	ND		0.623	ND		0.623	ND		0.779	ND		0.31	ND		0.31	ND		0.623	ND		0.623
Carbon tetrachloride	ND		1.26	1.29		1.26	ND		1.26	ND		1.57	0.68	D	0.16	0.3	D	0.16	ND		1.26	ND		1.26
Chlorobenzene	ND		0.921	ND		0.921	ND		0.921	ND		1.15	ND		0.46	ND		0.46	ND		0.921	ND		0.921
Chloroethane	ND		0.528	4.09		0.528	0.691		0.528	2.77		0.66	ND		0.26	ND		0.26	ND		0.528	ND		0.528
Chloroform	4.58		0.977	4.93		0.977	3		0.977	3.98		1.22	1.1	D	0.49	ND		0.49	1.51		0.977	ND		0.977
Chloromethane	0.458		0.413	1.16		0.413	0.617		0.413	0.917		0.516	2.7	D	0.21	1.1	D	0.21	ND		0.413	0.57		0.413
cis-1,2-Dichloroethene	2.98		0.793	4.56		0.793	1.6		0.793	2.36		0.991	0.74	D	0.099	ND		0.099	1.17		0.793	ND		0.793
cis-1,3-Dichloropropene	ND		0.908	ND		0.908	ND		0.908	ND		1.13	ND		0.45	ND		0.45	ND		0.908	ND		0.908
Cyclohexane	ND		0.688	ND		0.688	ND		0.688	11.1		0.861	ND		0.34	ND		0.34	ND		0.688	ND		0.688
Dibromochloromethane	ND		1.7	ND		1.7	ND		1.7	ND		2.13	19	D	0.85	ND		0.85	ND		1.7	ND		1.7
Dichlorodifluoromethane	2.38		0.989	2.65		0.989	2.35		0.989	2.42		1.24	2.1	D	0.49	1.7	D	0.49	2.31		0.989	3.2		0.989
Ethanol	ND		9.42	77.6		9.42	ND		9.42	ND		11.8	-	-	-	-	-	-	ND		9.42	194		9.42
Ethyl Acetate	ND		1.8	ND		1.8	ND		1.8	ND		2.25	ND		0.72	ND		0.72	ND		1.8	ND		1.8
Ethylbenzene	ND		0.869	ND		0.869	ND		0.869	ND		1.09	ND		0.43	ND		0.43	ND		0.869	ND		0.869
Freon-113	ND		1.53	4.97		1.53	ND		1.53	ND		1.92	ND		0.77	ND		0.77	ND		1.53	ND		1.53
Freon-114	ND		1.4	ND		1.4	ND		1.4	ND		1.75	-	-	-	-	-	-	ND		1.4	ND		1.4
Heptane	ND		0.82	ND		0.82	ND		0.82	ND		1.02	-	-	-	-	-	-	ND		0.82	ND		0.82
Hexachlorobutadiene	ND		1.05	ND		2.13	ND		2.13	ND		2.67	ND		1.1	ND		1.1	ND		2.13	ND		2.13
Isopropanol	ND		1.23	ND		1.23	23.5		1.23	ND		1.54	3.7	JBD	1.5	4.1	BD	1.5	ND		2.46	59		2.46
Methyl tert butyl ether	ND		0.721	ND		0.721	ND		0.721	ND		0.901	ND		0.36	ND		0.36	ND		0.721	ND		0.721
Methylene chloride	ND		1.74	ND		1.74	ND		1.74	ND		2.17	ND		2.1	ND		2.1	ND		1.74	ND		1.74
Napthalene	ND		2.13	1.12		1.05	ND		1.05	ND		1.31	ND		1.0	ND		1.0	ND		0.996	ND		0.996
n-Hexane	0.818		0.705	ND		0.705	ND		0.705	ND		0.881	ND		0.35	ND		0.35	0.726		0.705	12.1		0.705
o-Xylene	ND		0.869	ND		0.869	ND		0.869	ND		1.09	ND		0.43	ND		0.43	ND		0.869	ND		0.869
p/m-Xylene	ND		1.74	ND		1.74	ND		1.74	ND		2.17	ND		0.87	ND		0.87	ND		1.74	ND		1.74
Styrene	ND		0.852	ND		0.852	ND		0.852	ND		1.06	ND		0.43	ND		0.43	ND		0.852	ND		0.852
Tertiary butyl Alcohol	ND		1.52	ND		1.52	ND		1.52	ND		1.89	-	-	-	-	-	-	ND		1.52	1.59		1.52
Tetrachloroethene	106		1.36	ND		1.36	84.1		1.36	ND		1.7	27	D	0.68	2	D	0.68	38.7		1.36	ND		1.36
Tetrahydrofuran	ND		1.47	ND		1.47	ND		1.47	ND		1.84	ND		0.59	11	D	0.59	1.48		1.47	2.57		1.47
Toluene	1.8		0.754	1.17		0.754	ND		0.754	ND		0.942	ND		0.38	0.83	D	0.38	ND		0.754	ND		0.754
trans-1,2-Dichloroethene	ND		0.793	ND		0.793	ND		0.793	ND		0.991	ND		0.40	ND		0.40	ND		0.793	ND		0.793
trans-1,3-Dichloropropene	ND		0.908	ND		0.908	ND		0.908	ND		1.13	ND		0.45	ND		0.45	ND		0.908	ND		0.908
Trichloroethene	395		1.07	ND		1.07	266		1.07	387		1.34	100	D	0.13	ND		0.13	116		1.07	ND		1.07
Trichlorofluoromethane	1.78		1.12	2.54		1.12	2.25		1.12	2.36		1.4	1.2	D	0.56	0.97	D	0.56	1.5		1.12	2.75		1.12
Vinyl bromide	ND		0.874	ND		0.874	ND		0.874	ND		1.09	ND		0.44	ND		0.44	ND		0.874	ND		0.874
Vinyl chloride	ND		0.511	ND		0.511	ND		0.511	ND		0.639	ND		0.13	ND		0.13	ND		0.511	ND		0.511

Notes:
Q - Laboratory data qualifier
U - The compound was not detected
J - Data indicates the presence of a compound that meets the identification criteria, the result is less than the quantification
ND - Non-detectable
D - Result is from an analysis that required a dilution
B - Analyte found in the analysis batch blank
* - Results analyzed by York Analytical Laboratories, Inc. - Stratford

TABLE 2

Flow Data and Cumulative VOC Mass Removal Calculations

Former B.H. Aircraft

441 Eastern Parkay, Farmingdale, NY

Mass Estimated in Subsurface Soil (lbs)[1]							Trichloroethylene		Tetrachloroethylene		Carbon Tetrachloride		1,1,1 - Trichloroethane		Methylene Chloride		Total VOC Removal
							1.12		0.08		0.01		0.45		0.00041		1.66
Date	Elapsed Time (Minutes)	Elapsed Time (Hours)	Elapsed Time (Days)	Flow (CFM)	Flow (ft^3 per day)	Flow (ft^3 per period)	Influent Conc.(µg/m3)	Mass Removed (lbs)	Influent Conc.(µg/m3)	Mass Removed (lbs)	Influent Conc.(µg/m3)	Mass Removed (lbs)	Influent Conc.(µg/m3)	Mass Removed (lbs)	Influent Conc.(µg/m3)	Mass Removed (lbs)	Cumulative VOC Removal To Date
4/17/2019	240	4	0	203.5	48,840	48,840	1,460	0.00	510	0.002	3.15	0.000	595	0.002	4.34	0.000	0.008
6/6/2019	240	4	0	224	53,760	53,760	4,940	0.02	1,060	0.004	4.64	0.000	1180	0.004	1.74	0.000	0.032
6/25/2019	27,570	460	19	224	322,560	6,175,680	1,730	0.67	635	0.245	4.2	0.002	321	0.124	5.8	0.002	1.1
9/9/2019	76,200	1,270	53	227	326,880	17,297,400	1,400	1.51	491	0.530	2.74	0.003	168	0.181	1.74	0.002	3.3
12/23/2019	16,020	267	11	229	329,760	3,668,580	310	0.07	81	0.019	1	0.000	48	0.011	0.9	0.000	3.4
3/11/2020	114,480	1,908	80	226	325,440	25,872,480	170	0.27	71	0.115	1.26	0.002	17.3	0.028	1.74	0.003	3.8
6/4/2020	123,840	2,064	86	195	280,800	24,148,800	554	0.84	182	0.274	1.8	0.003	40.6	0.061	2.48	0.004	5.0
9/22/2020	103,002	1,717	72	186	267,840	19,158,372	677	0.81	216	0.258	2.2	0.003	74.7	0.089	2.48	0.003	6.2
12/3/2020	103,716	1,729	72	191	275,040	19,809,756	137	0.17	22.3	0.028	1.26	0.002	14.6	0.018	1.74	0.002	6.4
3/3/2021	83,130	1,386	58	185	266,400	15,379,050	131	0.13	27	0.026	1.26	0.001	16.4	0.016	1.74	0.002	6.6
4/27/2021[2]	80,640	1,344	56	185	266,400	14,918,400	131	0.12	27	0.025	1.26	0.001	16.4	0.015	1.74	0.002	6.7
6/8/2021	58,800	980	41	214	308,160	12,583,200	392	0.31	80.7	0.063	1.26	0.001	28.3	0.022	2.54	0.002	7.1
9/21/2021	150,960	2,516	105	186	267,408	28,033,272	704	1.23	202	0.354	2.52	0.004	57.3	0.100	3.47	0.006	8.8
12/21/2021	131,040	2,184	91	198	285,264	25,959,024	220	0.36	71.2	0.115	1.26	0.002	22	0.036	1.74	0.003	9.3
3/10/2022	98,940	1,649	69	194	279,360	19,194,360	114	0.14	38.5	0.046	1.26	0.002	11.8	0.014	3.32	0.004	9.5
4/27/2022[3]	70,560	1,176	49	194	279,360	13,688,640	114	0.10	38.5	0.033	1.26	0.001	11.8	0.010	3.32	0.003	9.7
6/15/2022	70,560	1,176	49	249	358,560	17,569,440	415	0.46	106	0.116	1.26	0.001	30.1	0.033	1.74	0.002	10.3
9/26/2022	148,320	2,472	103	249	358,416	36,916,848	645	1.49	158	0.364	3.93	0.009	62.7	0.145	5.42	0.012	12.3
12/21/2022	123,840	2,064	86	267	384,336	33,052,896	147	0.30	52.8	0.109	1.26	0.003	17.8	0.037	1.74	0.004	12.8
3/25/2023	135,360	2,256	94	263	378,240	35,554,560	135	0.30	44	0.098	1.26	0.003	12.8	0.028	1.74	0.004	13.2
6/15/2023	118,080	1,968	82	263	378,720	31,055,040	360	0.70	90.9	0.176	ND	0.000	25.5	0.049	ND	0.000	14.1
9/5/2023	118,080	1,968	82	262	377,280	30,936,960	623	1.20	204	0.394	ND	0.000	54.1	0.105	ND	0.000	15.8
12/28/2023	164,160	2,736	114	282	405,504	46,227,456	156	0.45	61.5	0.178	ND	0.000	12.9	0.037	ND	0.000	16.5
4/1/2024	136,800	2,280	95	282	406,560	38,623,200	98.3	0.24	29.6	0.071	0.448	0.001	7.64	0.018	ND	0.000	16.8
6/20/2024	115,200	1,920	80	263	378,000	30,240,000	395	0.75	106	0.200	ND	0.000	28.6	0.054	ND	0.000	17.8
11/7/2024	201,600	3,360	140	267	385,056	53,907,840	266	0.90	84.1	0.283	ND	0.000	23.2	0.078	ND	0.000	19.1
2/27/2025	161,280	2,688	112	275	395,424	44,287,488	100	0.28	27	0.075	0.68	0.002	12	0.033	ND	0.000	19.4
4/22/2025	77,760	1,296	54	268	385,632	20,824,128	116	0.15	38.7	0.050	ND	0.000	9.82	0.013	ND	0.000	19.7
Cumulative Time (Days)			1952	Total Flow (ft^3)		665,185,470											
Total mass removed (lbs)								**13.94**		**4.25**		**0.04**		**1.36**		**0.06**	**19.7**

Notes:

[1] Mass estimated using maximum value detected in the soil gas (2017 Remedial Investigation) over the treatment volume (14,000 sq. ft., 20 ft depth)

[2] Assuming Influent Concentration same as collected on 3/3/2021

[3] Assuming Influent Concentration same as collected on 3/10/2022

LANGAN

APPENDIX A

Site Management (SM) Periodic Review Report (PRR) Response Letter

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
625 Broadway, 12th Floor, Albany, NY 12233-7020
P: (518)402-9543 | F: (518)402-9547
www.dec.ny.gov

October 18, 2024

441 Eastern Parkway, LLC
Michael Cohen
3000 Royal Court
#3208
North Hills, NY 11040

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter

BH Aircraft Site, East Farmingdale
Suffolk County, Site No.: C152247

Dear Michael Cohen (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: April 27, 2024 to April 27, 2025.

The Department hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is 1 year, your next PRR is due on May 27, 2025. You will receive a reminder letter and updated certification form 75-days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

Additionally, the Department accepts the proposal to conduct rebound testing for shutdown of the soil vapor extraction system. Please submit a work plan outlining rebound testing procedures and parameters for Department review and approval. The system must remain online until the Department approves the rebound testing work plan.

If you have any questions, or need additional forms, please contact me at 518-402-9176 or e-mail: jared.donaldson@dec.ny.gov.

Sincerely,

Jared Donaldson

Jared Donaldson, P.E.
Project Manager

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 12th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

EC:

Bob Corcoran
Richard Mustico
Girish Desai
Stephanie Selmer (DOH)
BJ Parekh (Langan)

APPENDIX B

SVE System O&M Readings

TABLE 2
SVE SYSTEM DATA SHEET
SVE System O M
Former B.H. Aircraft
441 Eastern Parkway, Farmgindale NY

Date: 6/20/2024
Weather: 90's, Sunny
Personnel: Dayan Vindas

SVE Blower Time (Previous): 463,952
SVE Blower Time (Current): 483,178
Time: 11:45
Difference (hours): 19,226

Notes: Pressure gauge on stack not working, pressure gauge on drum not working

Time	Header #1 Vac **(13)**	Header #1 DP **(16)**	Header #1 Flow (*)	Header #1 PID **(1)**	Header #2 Vac **(14)**	Header #2 DP **(17)**	Header #2 Flow (*)	Header #2 PID **(2)**	Manifold Vac **(3)**	Manifold DP **(19)**	Manifold Flow (*)	VLS Vac **(5)**	Discharge Vac **(6)**	Dicharge DP **(20)**	Discharge Flow (*)	Header 3 Dilution Air Vac **(15)**	Header 3 Dilution DP **(18)**	Header 3 Dilution Flow (*)	Dilution Filter Vac **(21)**	Effluent Temp **(22)**	Drum 1 GAC PID **(23)**	Drum 1 GAC Pressure **(23)**	Drum 2 GAC PID **(24)**	Drum 2 GAC Pressure **(24)**	Drum 3 GAC PID **(25)**	Drum 3 GAC Pressure **(25)**	Stack PID **(12)**	Stack Pressure **(12)**
hr:min	in-H20	in-H20	CFM	ppm	in-H20	in-H20	CFM	ppm	in-H20	in-H20	CFM	in-H20	in-H20	in-H20	CFM	in-H20	in-H20	CFM	in-H20	°F	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20
9:40	-8	1.10	134.4	0.0	-11.0	0.4	81.4	0.0	-9.0	0	0	12	-28	4	262.5	-9.0	0.01	12.8	22	145	0.3	-	0.3	14	0.9	11	0.8	0.25
10:40	-8	1.10	134.4	0.0	-11.0	0.4	81.4	0.0	-9.0	0	0	12	-28	4	262.5	-9.0	0.01	12.8	22	145	0.1	-	0.2	14	3.8	11	0.7	0.25
11:40	-8	1.10	134.4	0.0	-11.0	0.4	81.4	0.0	-9.0	0	0	12	-28	4	262.5	-9.0	0.01	12.8	22	145	0.1	-	0.2	14	4.7	11	0.7	0.25

Notes/Abbreviations:
Vac: Vacuum
hr:min: hours/minutes
in-H20: Inches of Water
°F: Degree Farenheit
CFM Cubic Feet per Minute
(#) Number labeled in the trailer
(*) Value calculated using excel spreadsheet

TABLE 3

12.0076545.00

APPLIED/INDUCED VACUUM DATA SHEET
SVE SYSTEM O M
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY

Date: 6/20/2024
Weather: 90's, Sunny
Personnel: Dayan Vindas

Notes: PID Background: 0.3 ppm

Time of Readings	Observation Points									
	SVE-1		SVE-2		SVE-3		SVE-4		SVE-5 *	
	VAC	PID	VAC	PID	VAC	PID	VAC	PID	VAC	PID
hr:min	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm
11:48	3.0	0.1	4.2	0.1	3.1	0.0	2.2	0.0	3.0	0.0
12:48	3.0	0.1	4.5	0.1	3.1	0.0	2.2	0.0	3.0	0.0
13:48	4.2	0.1	4.3	0.1	3.0	0.0	2.3	0.0	3.0	0.0
	VP-1		VP-2		VP-3		VP-4		VP-5	
	VAC	PID	VAC	PID	VAC	PID	VAC	PID	VAC	PID
	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm
12:10	0.80	0.1	0.75	0.2	0.75	0.2	0.70	0.1	0.51	0.0
13:10	0.80	0.1	0.75	0.2	0.78	0.2	0.70	0.1	0.53	0.0
14:10	0.77	0.1	0.75	0.2	0.75	0.2	0.60	0.1	0.50	0.0

Notes/Abbreviations:

Vac: Vacuum
hr:min: hours/minutes
in-H20: Inches of Water
ppm: Parts Per Million

SVE SYSTEM DATA SHEET

Langan Project No. 170861301

SVE System Operations Maintenance
Former B.H. Aircraft
441 Eastern Parkway, Farmgindale NY

Date: 11/7/2024
Weather: 70's, Sunny
Personnel: A. Spaulding

SVE Blower Time (Previous): 483,178
SVE Blower Time (Current): 516,758
Time: 8:15
Difference (hours): 33,580

Notes:

Time	Header #1 Vac **(13)**	Header #1 DP **(16)**	Header #1 Flow **(*)**	Header #1 PID **(1)**	Header #2 Vac **(14)**	Header #2 DP **(17)**	Header #2 Flow **(*)**	Header #2 PID **(2)**	Manifold Vac **(3)**	Manifold DP **(19)**	Manifold Flow **(*)**	VLS Vac **(5)**	Discharge Vac **(6)**	Dicharge DP **(20)**	Discharge Flow **(*)**	Header 3 Dilution Air Vac **(15)**	Header 3 Dilution DP **(18)**	Header 3 Dilution Flow **(*)**	Dilution Filter Vac **(21)**	Effluent Temp **(22)**	Drum 1 GAC PID **(23)**	Drum 1 GAC Pressure **(23)**	Drum 2 GAC PID **(24)**	Drum 2 GAC Pressure **(24)**	Drum 3 GAC PID **(25)**	Drum 3 GAC Pressure **(25)**	Stack PID **(12)**	Stack Pressure **(12)**
hr:min	in-H20	in-H20	CFM	ppm	in-H20	in-H20	CFM	ppm	in-H20	in-H20	CFM	in-H20	in-H20	in-H20	CFM	in-H20	in-H20	CFM	in-H20	°F	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20
8:30	-8.5	0.20	58.4	0.0	-11.5	0.4	82.9	0.0	-10.5	0	0	12	-28.5	4	267.5	-9.5	0	0	23	133	0.0	-36.89	0.0	-12.88	0.0	-10.71	0.7	-0.13
9:30	-8.5	0.17	53.9	0.0	-11.5	0.37	79.8	0.0	-10.5	0	0	12	-28	4	267.4	-9.5	0	0	23	133	0.0	-12.8	0.0	-12.8	0.0	-10.61	0.0	-0.18
10:30	-8.5	0.17	53.9	0	-11.5	0.37	79.8	0	-10.5	0	0	12	-28	4	267.4	-9.5	0	0	23	133	0.0	-12.67	0	-12.67	0.0	-10.65	0	-0.15

Notes/Abbreviations:
Vac: Vacuum
hr:min: hours/minutes
in-H20: Inches of Water
°F: Degree Farenheit
CFM Cubic Feet per Minute
(#) Number labeled in the trailer
(*) Value calculated using excel spreadsheet

LANGAN

APPLIED/INDUCED VACUUM DATA SHEET

Langan Project No. 170861301

SVE System Operations Maintenance
Former B.H. Aircraft
441 Eastern Parkway, Farmgindale NY

Date: 11/7/2024
Weather: 70's warm
Personnel: A. Spauling

Notes: repairs needed for sve 1 tubing insert/ re- thread

Time of Readings	Observation Points									
	SVE-1		SVE-2		SVE-3		SVE-4		SVE-5 *	
	VAC	PID	VAC	PID	VAC	PID	VAC	PID	VAC	PID
hr:min	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm
T1	4.3	0.0	4.3	0.0	4.3	0.0	2.7	0.0	2.6	0.0
T2	4.2	0.0	4.2	0.0	4.3	0.0	2.7	0.0	2.6	0.0
T3	4.2	0.0	4.3	0.0	4.3	0.0	2.7	0.0	2.5	0.0
	VP-1		VP-2		VP-3		VP-4		VP-5	
	VAC	PID	VAC	PID	VAC	PID	VAC	PID	VAC	PID
	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm
T1	0.67	0.0	0.57	0.0	0.59	0.0	0.45	0.0	0.35	0.0
T2	0.64	0.0	0.52	0.0	0.50	0.0	0.45	0.0	0.40	0.0
T3	0.66	0.0	0.05	0.0	0.48	0.0	0.49	0.0	0.42	0.0

Notes/Abbreviations:

Vac: Vacuum
hr:min: hours/minutes
in-H20: Inches of Water
ppm: Parts Per Million

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SVE SYSTEM DATA SHEET

Langan Project No. 170861301

SVE System Operations Maintenance
Former B.H. Aircraft
441 Eastern Parkway, Farmgindale NY

Date: 2/27/2025
Weather: 45, Sunny
Personnel: Adam Spaulding

SVE Blower Time (Previous): 516,758
SVE Blower Time (Current): -
Time: 10:30
Difference (hours): -

Notes:
Drums replaced and fuses for blower

Time	Header #1 Vac **(13)**	Header #1 DP **(16)**	Header #1 Flow **(*)**	Header #1 PID **(1)**	Header #2 Vac **(14)**	Header #2 DP **(17)**	Header #2 Flow **(*)**	Header #2 PID **(2)**	Manifold Vac **(3)**	Manifold DP **(4)**	Manifold Flow **(*)**	VLS Vac **(5)**	Discharge Vac **(6)**	Dicharge DP **(20)**	Discharge Flow **(*)**	Header 3 Dilution Air Vac **(15)**	Header 3 Dilution DP **(18)**	Header 3 Dilution Flow **(*)**	Dilution Filter Vac **(21)**	Effluent Temp **(22)**	Drum 1 GAC PID **(23)**	Drum 1 GAC Pressure **(23)**	Drum 2 GAC PID **(24)**	Drum 2 GAC Pressure **(24)**	Drum 3 GAC PID **(25)**	Drum 3 GAC Pressure **(25)**	Stack PID **(12)**	Stack Pressure **(12)**
hr:min	in-H20	in-H20	CFM	ppm	in-H20	in-H20	CFM	ppm	in-H20	in-H20	CFM	in-H20	in-H20	in-H20	CFM	in-H20	in-H20	CFM	in-H20	°F	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20
11:00	-10	0.80	119.9	0.0	-14.0	0.5	95.3	0.0	-13.0	0	0	12.5	-30	4	274.6	-12.5	0	0	26	110	0.0	-36.5	0.0	-12.9	0.0	-10.5	0.0	-0.05
12:00	-10	0.85	123.6	0.0	-14.5	0.5	95.3	0.0	-13.0	0	0	13	-30	4	274.6	-12.5	0	0	26	110	0.0	-36.5	0.0	-12.9	0.0	-10	0.0	-0.05
13:00	-10	0.850	123.6	0	-14.5	0.5	95.3	0	-13	0	0	13	-30	4	274.6	-12.5	0	0	26	110	0.0	-36.5	0	-12.9	0.0	-10.5	0	-0.05

Notes/Abbreviations:
Vac: Vacuum
hr:min: hours/minutes
in-H20: Inches of Water
°F: Degree Farenheit
CFM Cubic Feet per Minute
(#) Number labeled in the trailer
(*) Value calculated using excel spreadsheet

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APPLIED/INDUCED VACUUM DATA SHEET

Langan Project No. 170861301

SVE SYSTEM O M
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY

Date: 2/27/2025

Weather: 40, Sunny

Personnel: a spaulding

Notes:

Time of Readings	Observation Points									
	SVE-1		SVE-2		SVE-3		SVE-4		SVE-5 *	
	VAC	PID	VAC	PID	VAC	PID	VAC	PID	VAC	PID
hr:min	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm
T1	4.3	0.0	4.3	0.0	4.3	0.0	2.7	0.0	2.6	0.0
T2	4.2	0.0	4.2	0.0	4.3	0.0	2.7	0.0	2.6	0.0
T3	4.2	0.0	4.3	0.0	4.3	0.0	2.7	0.0	2.5	0.0
	VP-1		VP-2		VP-3		VP-4		VP-5	
	VAC	PID	VAC	PID	VAC	PID	VAC	PID	VAC	PID
	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm
T1	0.67	0.0	0.57	0.0	0.59	0.0	0.45	0.0	0.35	0.0
T2	0.64	0.0	0.52	0.0	0.50	0.0	0.45	0.0	0.40	0.0
T3	0.66	0.0	0.47	0.0	0.48	0.0	0.49	0.0	0.42	0.0

Notes/Abbreviations:

Vac: Vacuum
hr:min: hours/minutes
in-H20: Inches of Water
ppm: Parts Per Million

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SVE SYSTEM DATA SHEET

Langan Project No. 170861301

SVE System O M
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale NY

Date: 4/22/2025
Weather: 60s-70s, sunny
Personnel: Morgan McBride

SVE Blower Time (Previous): 516,758
SVE Blower Time (Current): 549,505
Time: 13:09
Difference (hours): 32,747

Notes:
Previous blower time was not recorded during the February 27, 2025 event. "SVE Blower Time (Previous)" noted was recorded on November 7, 2025.

Time	Header #1 Vac **(13)**	Header #1 DP **(16)**	Header #1 Flow **(*)**	Header #1 PID **(1)**	Header #2 Vac **(14)**	Header #2 DP **(17)**	Header #2 Flow **(*)**	Header #2 PID **(2)**	Manifold Vac **(3)**	Manifold DP **(4)**	Manifold Flow **(*)**	VLS Vac **(5)**	Discharge Vac **(6)**	Discharge DP **(20)**	Discharge Flow **(*)**	Header 3 Dilution Air Vac **(15)**	Header 3 Dilution DP **(18)**	Header 3 Dilution Flow **(*)**	Dilution Filter Vac **(21)**	Effluent Temp **(22)**	Drum 1 GAC PID **(23)**	Drum 1 GAC Pressure **(23)**	Drum 2 GAC PID **(24)**	Drum 2 GAC Pressure **(24)**	Drum 3 GAC PID **(25)**	Drum 3 GAC Pressure **(25)**	Stack PID **(12)**	Stack Pressure **(12)**
hr:min	in-H20	in-H20	CFM	ppm	in-H20	in-H20	CFM	ppm	in-H20	in-H20	CFM	in-H20	in-H20	in-H20	CFM	in-H20	in-H20	CFM	in-H20	°F	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20
12:15	-8	0.20	58.4	0.0	-11.5	0.45	88.0	0.0	-12.0	0	0	10	-29	4	267.7	-10.0	0.01	13.1	25	130	0.0	-32.1	0.0	-13.5	0.0	-11.0	0.0	-0.05
13:15	-8	0.20	58.4	0.0	-11.5	0.45	88.0	0.0	-12.0	0	0	12	-30	4	268.0	-9.5	0.01	13.1	26	130	0.0	-32.1	0.0	-13.5	0.0	-10.5	0.0	-0.05
14:15	-8	0.150	50.6	0.0	-11.5	0.40	82.9	0.0	-12.0	0	0	10	-29	4	267.7	-9.5	0.01	13.1	26	130	0.0	-32.1	0.0	-13.5	0.0	-11.0	0.0	-0.05

Notes/Abbreviations:
Vac: Vacuum
hr:min: hours/minutes
in-H20: Inches of Water
°F: Degree Fahrenheit
CFM Cubic Feet per Minute
(#) Number labeled in the trailer
(*) Value calculated using excel spreadsheet

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APPLIED/INDUCED VACUUM DATA SHEET

SVE SYSTEM O M
Former B.H. Aircraft
441 Eastern Parkway, Farmingdale, NY

Date: 4/22/2025
Weather: 60s-70s, sunny
Personnel: Morgan McBride

Notes:

Time of Readings	Observation Points									
	SVE-1		SVE-2		SVE-3		SVE-4		SVE-5 *	
	VAC	PID	VAC	PID	VAC	PID	VAC	PID	VAC	PID
hr:min	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm
12:15	3.8	0.0	4.2	0.0	3.6	0.0	2.3	0.0	2.1	0.0
13:15	4.0	0.0	4.2	0.0	3.4	0.0	2.3	0.0	2.0	0.0
14:15	3.8	0.0	4.3	0.0	3.6	0.0	2.3	0.0	2.1	0.0
	VP-1		VP-2		VP-3		VP-4		VP-5	
	VAC	PID	VAC	PID	VAC	PID	VAC	PID	VAC	PID
	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm	in-H20	ppm
12:15	0.76	0.0	0.55	0.0	0.51	0.0	0.53	0.0	0.44	0.0
13:15	0.77	0.0	0.50	0.0	0.51	0.0	0.53	0.0	0.41	0.0
14:15	0.76	0.0	0.54	0.0	0.49	0.0	0.51	0.0	0.39	0.0

Notes/Abbreviations:

Vac: Vacuum
hr:min: hours/minutes
in-H20: Inches of Water
ppm: Parts Per Million

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APPENDIX C

Cap Inspection – Photographic Log

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Site Cover Inspection Photographs

Client Name:	Subject Property Location:	Project No.
441 Eastern Parkway, LLC.	441 Eastern Parkway, Farmingdale, NY	170861301

Date	Photo No.
04/22/2025	1

Direction Photo Taken:

East

Description:

View of VP-4 and asphalt cap in area of system trailer.

Date	Photo No.
04/22/2025	2

Direction Photo Taken:

North

Description:

View of asphalt cap west of Site building.

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Site Cover Inspection Photographs

Client Name:	Subject Property Location:	Project No.
441 Eastern Parkway, LLC.	441 Eastern Parkway, Farmingdale, NY	170861301

Date	Photo No.
04/22/2025	3

Direction Photo Taken:

Southeast

Description:

View of Carbon drums, effluent vapor stack, and system trailer.

Date	Photo No.
04/22/2025	4

Direction Photo Taken:

North

Description:

View of asphalt cap in the northwestern corner of the Site.

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Site Cover Inspection Photographs

Client Name:	Subject Property Location:	Project No.
441 Eastern Parkway, LLC.	441 Eastern Parkway, Farmingdale, NY	170861301

Date	Photo No.
03/28/2025	5

Direction Photo Taken:

East

Description:

View of asphalt cap in central area of the Site.

APPENDIX D

SVE Influent & Effluent Analytical Results – Full Laboratory Reports

ANALYTICAL REPORT

Lab Number:	L2435291
Client:	GZA GeoEnvironmental, Inc. 55 Lane Road Suite 407 Fairfield, NJ 07004
ATTN:	Morgan McBride
Phone:	(973) 774-3300
Project Name:	FARMINGDALE
Project Number:	12.0076545.00
Report Date:	07/03/24

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

320 Forbes Boulevard, Mansfield, MA 02048-1806
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Project Name: FARMINGDALE
Project Number: 12.0076545.00

Lab Number: L2435291
Report Date: 07/03/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2435291-01	EFFLUENT-06-20-2024	SOIL_VAPOR	441 E PKWY, FARMINGDALE, NY	06/20/24 13:35	06/21/24
L2435291-02	INFLUENT-06-20-2024	SOIL_VAPOR	441 E PKWY, FARMINGDALE, NY	06/20/24 13:40	06/21/24

Project Name:	FARMINGDALE	**Lab Number:**	L2435291
Project Number:	12.0076545.00	**Report Date:**	07/03/24

Case Narrative

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

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

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

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

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

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

Project Name:	FARMINGDALE	**Lab Number:**	L2435291
Project Number:	12.0076545.00	**Report Date:**	07/03/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 19, 2024. The canister certification data is 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: 07/03/24

AIR

Project Name: FARMINGDALE
Project Number: 12.0076545.00

Lab Number: L2435291
Report Date: 07/03/24

SAMPLE RESULTS

Lab ID: L2435291-01
Client ID: EFFLUENT-06-20-2024
Sample Location: 441 E PKWY, FARMINGDALE, NY

Date Collected: 06/20/24 13:35
Date Received: 06/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/24 18:13
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.536	0.200	--	2.65	0.989	--		1
Chloromethane	0.563	0.200	--	1.16	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	1.55	0.200	--	4.09	0.528	--		1
Ethanol	41.2	5.00	--	77.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.63	1.00	--	3.87	2.38	--		1
Trichlorofluoromethane	0.452	0.200	--	2.54	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	0.453	0.200	--	1.80	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	0.648	0.200	--	4.97	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	1.24	0.200	--	5.02	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.949	0.500	--	2.80	1.47	--		1
cis-1,2-Dichloroethene	1.15	0.200	--	4.56	0.793	--		1

Project Name: FARMINGDALE
Project Number: 12.0076545.00

Lab Number: L2435291
Report Date: 07/03/24

SAMPLE RESULTS

Lab ID: L2435291-01
Client ID: EFFLUENT-06-20-2024
Sample Location: 441 E PKWY, FARMINGDALE, NY

Date Collected: 06/20/24 13:35
Date Received: 06/21/24
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	1.01	0.200	--	4.93	0.977	--		1
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	24.2	0.200	--	132	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	0.205	0.200	--	1.29	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	0.310	0.200	--	1.17	0.754	--		1
2-Hexanone	0.281	0.200	--	1.15	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

Project Name: FARMINGDALE
Project Number: 12.0076545.00

Lab Number: L2435291
Report Date: 07/03/24

SAMPLE RESULTS

Lab ID: L2435291-01
Client ID: EFFLUENT-06-20-2024
Sample Location: 441 E PKWY, FARMINGDALE, NY

Date Collected: 06/20/24 13:35
Date Received: 06/21/24
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	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
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
Naphthalene	0.213	0.200	--	1.12	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140

Project Name: FARMINGDALE
Project Number: 12.0076545.00

Lab Number: L2435291
Report Date: 07/03/24

SAMPLE RESULTS

Lab ID: L2435291-02
Client ID: INFLUENT-06-20-2024
Sample Location: 441 E PKWY, FARMINGDALE, NY

Date Collected: 06/20/24 13:40
Date Received: 06/21/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/24 18:52
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.481	0.200	--	2.38	0.989	--		1
Chloromethane	0.222	0.200	--	0.458	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	2.50	1.00	--	5.94	2.38	--		1
Trichlorofluoromethane	0.316	0.200	--	1.78	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	0.907	0.200	--	3.67	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	0.751	0.200	--	2.98	0.793	--		1

Project Name: FARMINGDALE
Project Number: 12.0076545.00

Lab Number: L2435291
Report Date: 07/03/24

SAMPLE RESULTS

Lab ID: L2435291-02
Client ID: INFLUENT-06-20-2024
Sample Location: 441 E PKWY, FARMINGDALE, NY

Date Collected: 06/20/24 13:40
Date Received: 06/21/24
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	0.938	0.200	--	4.58	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.232	0.200	--	0.818	0.705	--		1
1,1,1-Trichloroethane	5.24	0.200	--	28.6	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	73.5	0.200	--	395	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	0.478	0.200	--	1.80	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	15.6	0.200	--	106	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: FARMINGDALE
Project Number: 12.0076545.00

Lab Number: L2435291
Report Date: 07/03/24

SAMPLE RESULTS

Lab ID: L2435291-02
Client ID: INFLUENT-06-20-2024
Sample Location: 441 E PKWY, FARMINGDALE, NY

Date Collected: 06/20/24 13:40
Date Received: 06/21/24
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	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
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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

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

Project Name: FARMINGDALE
Project Number: 12.0076545.00

Lab Number: L2435291
Report Date: 07/03/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/30/24 15:36

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: WG1941470-4								
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: FARMINGDALE
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Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/30/24 15:36

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: WG1941470-4								
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: FARMINGDALE
Project Number: 12.0076545.00

Lab Number: L2435291
Report Date: 07/03/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/30/24 15:36

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: WG1941470-4								
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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: FARMINGDALE

Project Number: 12.0076545.00

Lab Number: L2435291

Report Date: 07/03/24

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: WG1941470-3								
Dichlorodifluoromethane	101		-		70-130	-		
Chloromethane	95		-		70-130	-		
Freon-114	108		-		70-130	-		
Vinyl chloride	100		-		70-130	-		
1,3-Butadiene	106		-		70-130	-		
Bromomethane	102		-		70-130	-		
Chloroethane	98		-		70-130	-		
Ethanol	89		-		40-160	-		
Vinyl bromide	97		-		70-130	-		
Acetone	101		-		40-160	-		
Trichlorofluoromethane	104		-		70-130	-		
Isopropanol	93		-		40-160	-		
1,1-Dichloroethene	106		-		70-130	-		
Tertiary butyl Alcohol	88		-		70-130	-		
Methylene chloride	102		-		70-130	-		
3-Chloropropene	115		-		70-130	-		
Carbon disulfide	104		-		70-130	-		
Freon-113	105		-		70-130	-		
trans-1,2-Dichloroethene	103		-		70-130	-		
1,1-Dichloroethane	104		-		70-130	-		
Methyl tert butyl ether	103		-		70-130	-		
2-Butanone	103		-		70-130	-		
cis-1,2-Dichloroethene	105		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FARMINGDALE

Project Number: 12.0076545.00

Lab Number: L2435291

Report Date: 07/03/24

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: WG1941470-3								
Ethyl Acetate	111		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	102		-		70-130	-		
1,2-Dichloroethane	100		-		70-130	-		
n-Hexane	105		-		70-130	-		
1,1,1-Trichloroethane	104		-		70-130	-		
Benzene	100		-		70-130	-		
Carbon tetrachloride	108		-		70-130	-		
Cyclohexane	106		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	114		-		70-130	-		
1,4-Dioxane	94		-		70-130	-		
Trichloroethene	103		-		70-130	-		
2,2,4-Trimethylpentane	106		-		70-130	-		
Heptane	112		-		70-130	-		
cis-1,3-Dichloropropene	112		-		70-130	-		
4-Methyl-2-pentanone	106		-		70-130	-		
trans-1,3-Dichloropropene	114		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	94		-		70-130	-		
2-Hexanone	114		-		70-130	-		
Dibromochloromethane	119		-		70-130	-		
1,2-Dibromoethane	108		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FARMINGDALE

Project Number: 12.0076545.00

Lab Number: L2435291

Report Date: 07/03/24

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: WG1941470-3								
Tetrachloroethene	103		-		70-130	-		
Chlorobenzene	105		-		70-130	-		
Ethylbenzene	103		-		70-130	-		
p/m-Xylene	104		-		70-130	-		
Bromoform	120		-		70-130	-		
Styrene	109		-		70-130	-		
1,1,2,2-Tetrachloroethane	110		-		70-130	-		
o-Xylene	107		-		70-130	-		
4-Ethyltoluene	108		-		70-130	-		
1,3,5-Trimethylbenzene	108		-		70-130	-		
1,2,4-Trimethylbenzene	108		-		70-130	-		
Benzyl chloride	111		-		70-130	-		
1,3-Dichlorobenzene	112		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
1,2-Dichlorobenzene	108		-		70-130	-		
1,2,4-Trichlorobenzene	108		-		70-130	-		
Naphthalene	95		-		70-130	-		
Hexachlorobutadiene	104		-		70-130	-		

Project Name: FARMINGDALE

Project Number: 12.0076545.00

Lab Number: L2435291

Report Date: 07/03/24

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
L2435291-01	EFFLUENT-06-20-2024	01973	SV200	06/19/24	472927		-	-	-	Pass	217	214	1
L2435291-01	EFFLUENT-06-20-2024	4271	6.0L Can	06/19/24	472927	L2433887-04	Pass	-29.5	-1.2	-	-	-	-
L2435291-02	INFLUENT-06-20-2024	01913	SV200	06/19/24	472927		-	-	-	Pass	214	211	1
L2435291-02	INFLUENT-06-20-2024	2270	6.0L Can	06/19/24	472927	L2433887-04	Pass	-29.5	1.5	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2433887
Report Date: 07/03/24

Air Canister Certification Results

Lab ID: L2433887-04
Client ID: CAN 1818 SHELF 36
Sample Location:

Date Collected: 06/15/24 07:00
Date Received: 06/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/17/24 20:50
Analyst: JFI

	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: L2433887
Report Date: 07/03/24

Air Canister Certification Results

Lab ID: L2433887-04
Client ID: CAN 1818 SHELF 36
Sample Location:

Date Collected: 06/15/24 07:00
Date Received: 06/15/24
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: L2433887
Report Date: 07/03/24

Air Canister Certification Results

Lab ID: L2433887-04
Client ID: CAN 1818 SHELF 36
Sample Location:

Date Collected: 06/15/24 07:00
Date Received: 06/15/24
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: L2433887
Report Date: 07/03/24

Air Canister Certification Results

Lab ID: L2433887-04
Client ID: CAN 1818 SHELF 36
Sample Location:

Date Collected: 06/15/24 07:00
Date Received: 06/15/24
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: L2433887
Report Date: 07/03/24

Air Canister Certification Results

Lab ID: L2433887-04
Client ID: CAN 1818 SHELF 36
Sample Location:

Date Collected: 06/15/24 07:00
Date Received: 06/15/24
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								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2433887
Report Date: 07/03/24

Air Canister Certification Results

Lab ID: L2433887-04
Client ID: CAN 1818 SHELF 36
Sample Location:

Date Collected: 06/15/24 07:00
Date Received: 06/15/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/17/24 20:50
Analyst: JFI

	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: L2433887
Report Date: 07/03/24

Air Canister Certification Results

Lab ID: L2433887-04
Client ID: CAN 1818 SHELF 36
Sample Location:

Date Collected: 06/15/24 07:00
Date Received: 06/15/24
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 **Lab Number:** L2433887

Project Number: CANISTER QC BAT **Report Date:** 07/03/24

Air Canister Certification Results

Lab ID: L2433887-04
Client ID: CAN 1818 SHELF 36
Sample Location:

Date Collected: 06/15/24 07:00
Date Received: 06/15/24
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	89		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	88		60-140

Project Name: FARMINGDALE
Project Number: 12.0076545.00

Lab Number: L2435291
Report Date: 07/03/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2435291-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)
L2435291-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	FARMINGDALE	**Lab Number:**	L2435291
Project Number:	12.0076545.00	**Report Date:**	07/03/24

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: Data Usability Report

Project Name:	FARMINGDALE	**Lab Number:**	L2435291
Project Number:	12.0076545.00	**Report Date:**	07/03/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: Data Usability Report

Project Name:	FARMINGDALE	**Lab Number:**	L2435291
Project Number:	12.0076545.00	**Report Date:**	07/03/24

Data Qualifiers

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: Data Usability Report

Project Name: FARMINGDALE
Project Number: 12.0076545.00
Lab Number: L2435291
Report Date: 07/03/24

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

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

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, 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: 6/22/24

ALPHA Job #: L2435291

Client Information

Client: GZA
Address: 55 Lane Rd. Ste 407
Fairfield, NJ, 07004
Phone:
Fax:
Email: morgan.mcbride@gza.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Farmingdale
Project Location: 441 E. Pkwy, Farmingdale, NY
Project #: 12.0076545.00
Project Manager: Morgan McBride
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: ☐

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	↔	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
35291 -01	Effluent-06-20-2024	6/20/24	13:05	13:35	-30.98	-1.06	SV	DV	4271		6L	01973	X						
-02	Influent-06-20-2024	6/20/24	13:10	13:40	-30.96	2.41	SV	DV	2210		6L	01913	X						

*SAMPLE MATRIX CODES

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

Container Type

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.

Relinquished By:	Date/Time	Received By:	Date/Time:
	6/21/24	EC	6/21/24 09:08
EC	6/21/24 9:09	NSC.	6/21/24 0908
NSC	6/21/24 1640	Paul Maggella	6/21/24 1640
Paul Maggella	6/21/24 1640		

6/22/24 01:10

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

ANALYTICAL REPORT

Lab Number:	L2465462
Client:	Langan Engineering & Environmental 300 Kimball Drive 4th Floor Parsippany, NJ 07054-2172
ATTN:	Bhuvnesh Parekh
Phone:	(973) 560-4815
Project Name:	441 E. PARKWAY
Project Number:	170861301
Report Date:	11/15/24

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

Project Name: 441 E. PARKWAY
Project Number: 170861301

Lab Number: L2465462
Report Date: 11/15/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2465462-01	INFLUENT_110724	SOIL_VAPOR	FARMINGDALE, NY	11/07/24 13:19	11/07/24
L2465462-02	EFFLUENT_110724	SOIL_VAPOR	FARMINGDALE, NY	11/07/24 13:20	11/07/24

Project Name:	441 E. PARKWAY	**Lab Number:**	L2465462
Project Number:	170861301	**Report Date:**	11/15/24

Case Narrative

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

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

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

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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:	441 E. PARKWAY	**Lab Number:**	L2465462
Project Number:	170861301	**Report Date:**	11/15/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on November 7, 2024. The canister certification data is provided as an addendum.

L2465462-02D: 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: Christopher J. Anderson

Title: Technical Director/Representative Date: 11/15/24

AIR

Project Name: 441 E. PARKWAY
Project Number: 170861301

Lab Number: L2465462
Report Date: 11/15/24

SAMPLE RESULTS

Lab ID: L2465462-01
Client ID: INFLUENT_110724
Sample Location: FARMINGDALE, NY

Date Collected: 11/07/24 13:19
Date Received: 11/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/14/24 19:47
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.475	0.200	--	2.35	0.989	--		1
Chloromethane	0.299	0.200	--	0.617	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	0.262	0.200	--	0.691	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.16	1.00	--	7.51	2.38	--		1
Trichlorofluoromethane	0.400	0.200	--	2.25	1.12	--		1
Isopropanol	9.58	0.500	--	23.5	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	0.544	0.200	--	2.20	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	0.404	0.200	--	1.60	0.793	--		1

Project Name: 441 E. PARKWAY
Project Number: 170861301

Lab Number: L2465462
Report Date: 11/15/24

SAMPLE RESULTS

Lab ID: L2465462-01
Client ID: INFLUENT_110724
Sample Location: FARMINGDALE, NY

Date Collected: 11/07/24 13:19
Date Received: 11/07/24
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	0.615	0.200	--	3.00	0.977	--		1
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	4.26	0.200	--	23.2	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	49.5	0.200	--	266	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	12.4	0.200	--	84.1	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: 441 E. PARKWAY
Project Number: 170861301

Lab Number: L2465462
Report Date: 11/15/24

SAMPLE RESULTS

Lab ID: L2465462-01
Client ID: INFLUENT_110724
Sample Location: FARMINGDALE, NY

Date Collected: 11/07/24 13:19
Date Received: 11/07/24
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	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
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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	93		60-140

Project Name: 441 E. PARKWAY
Project Number: 170861301

Lab Number: L2465462
Report Date: 11/15/24

SAMPLE RESULTS

Lab ID: L2465462-02 D
Client ID: EFFLUENT_110724
Sample Location: FARMINGDALE, NY

Date Collected: 11/07/24 13:20
Date Received: 11/07/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/14/24 20:25
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.489	0.250	--	2.42	1.24	--		1.25
Chloromethane	0.444	0.250	--	0.917	0.516	--		1.25
Freon-114	ND	0.250	--	ND	1.75	--		1.25
Vinyl chloride	ND	0.250	--	ND	0.639	--		1.25
1,3-Butadiene	ND	0.250	--	ND	0.553	--		1.25
Bromomethane	ND	0.250	--	ND	0.971	--		1.25
Chloroethane	1.05	0.250	--	2.77	0.660	--		1.25
Ethanol	ND	6.25	--	ND	11.8	--		1.25
Vinyl bromide	ND	0.250	--	ND	1.09	--		1.25
Acetone	4.48	1.25	--	10.6	2.97	--		1.25
Trichlorofluoromethane	0.420	0.250	--	2.36	1.40	--		1.25
Isopropanol	ND	0.625	--	ND	1.54	--		1.25
1,1-Dichloroethene	ND	0.250	--	ND	0.991	--		1.25
Tertiary butyl Alcohol	ND	0.625	--	ND	1.89	--		1.25
Methylene chloride	ND	0.625	--	ND	2.17	--		1.25
3-Chloropropene	ND	0.250	--	ND	0.783	--		1.25
Carbon disulfide	ND	0.250	--	ND	0.779	--		1.25
Freon-113	ND	0.250	--	ND	1.92	--		1.25
trans-1,2-Dichloroethene	ND	0.250	--	ND	0.991	--		1.25
1,1-Dichloroethane	0.871	0.250	--	3.53	1.01	--		1.25
Methyl tert butyl ether	ND	0.250	--	ND	0.901	--		1.25
2-Butanone	0.866	0.625	--	2.55	1.84	--		1.25
cis-1,2-Dichloroethene	0.594	0.250	--	2.36	0.991	--		1.25

Project Name: 441 E. PARKWAY
Project Number: 170861301

Lab Number: L2465462
Report Date: 11/15/24

SAMPLE RESULTS

Lab ID: L2465462-02 D
Client ID: EFFLUENT_110724
Sample Location: FARMINGDALE, NY

Date Collected: 11/07/24 13:20
Date Received: 11/07/24
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	0.625	--	ND	2.25	--		1.25
Chloroform	0.815	0.250	--	3.98	1.22	--		1.25
Tetrahydrofuran	ND	0.625	--	ND	1.84	--		1.25
1,2-Dichloroethane	ND	0.250	--	ND	1.01	--		1.25
n-Hexane	ND	0.250	--	ND	0.881	--		1.25
1,1,1-Trichloroethane	3.23	0.250	--	17.6	1.36	--		1.25
Benzene	ND	0.250	--	ND	0.799	--		1.25
Carbon tetrachloride	ND	0.250	--	ND	1.57	--		1.25
Cyclohexane	3.22	0.250	--	11.1	0.861	--		1.25
1,2-Dichloropropane	ND	0.250	--	ND	1.16	--		1.25
Bromodichloromethane	ND	0.250	--	ND	1.67	--		1.25
1,4-Dioxane	ND	0.250	--	ND	0.901	--		1.25
Trichloroethene	72.0	0.250	--	387	1.34	--		1.25
2,2,4-Trimethylpentane	ND	0.250	--	ND	1.17	--		1.25
Heptane	ND	0.250	--	ND	1.02	--		1.25
cis-1,3-Dichloropropene	ND	0.250	--	ND	1.13	--		1.25
4-Methyl-2-pentanone	ND	0.625	--	ND	2.56	--		1.25
trans-1,3-Dichloropropene	ND	0.250	--	ND	1.13	--		1.25
1,1,2-Trichloroethane	ND	0.250	--	ND	1.36	--		1.25
Toluene	ND	0.250	--	ND	0.942	--		1.25
2-Hexanone	0.269	0.250	--	1.10	1.02	--		1.25
Dibromochloromethane	ND	0.250	--	ND	2.13	--		1.25
1,2-Dibromoethane	ND	0.250	--	ND	1.92	--		1.25
Tetrachloroethene	ND	0.250	--	ND	1.70	--		1.25
Chlorobenzene	ND	0.250	--	ND	1.15	--		1.25
Ethylbenzene	ND	0.250	--	ND	1.09	--		1.25

Project Name: 441 E. PARKWAY
Project Number: 170861301

Lab Number: L2465462
Report Date: 11/15/24

SAMPLE RESULTS

Lab ID: L2465462-02 D
Client ID: EFFLUENT_110724
Sample Location: FARMINGDALE, NY

Date Collected: 11/07/24 13:20
Date Received: 11/07/24
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	ND	0.500	--	ND	2.17	--		1.25
Bromoform	ND	0.250	--	ND	2.58	--		1.25
Styrene	ND	0.250	--	ND	1.06	--		1.25
1,1,2,2-Tetrachloroethane	ND	0.250	--	ND	1.72	--		1.25
o-Xylene	ND	0.250	--	ND	1.09	--		1.25
4-Ethyltoluene	ND	0.250	--	ND	1.23	--		1.25
1,3,5-Trimethylbenzene	ND	0.250	--	ND	1.23	--		1.25
1,2,4-Trimethylbenzene	ND	0.250	--	ND	1.23	--		1.25
Benzyl chloride	ND	0.250	--	ND	1.29	--		1.25
1,3-Dichlorobenzene	ND	0.250	--	ND	1.50	--		1.25
1,4-Dichlorobenzene	ND	0.250	--	ND	1.50	--		1.25
1,2-Dichlorobenzene	ND	0.250	--	ND	1.50	--		1.25
1,2,4-Trichlorobenzene	ND	0.250	--	ND	1.86	--		1.25
Naphthalene	ND	0.250	--	ND	1.31	--		1.25
Hexachlorobutadiene	ND	0.250	--	ND	2.67	--		1.25

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

Project Name: 441 E. PARKWAY
Project Number: 170861301
Lab Number: L2465462
Report Date: 11/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/14/24 18:29

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: WG1997665-4								
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: 441 E. PARKWAY
Project Number: 170861301
Lab Number: L2465462
Report Date: 11/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/14/24 18:29

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: WG1997665-4								
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: 441 E. PARKWAY
Project Number: 170861301
Lab Number: L2465462
Report Date: 11/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/14/24 18:29

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: WG1997665-4								
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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 441 E. PARKWAY

Project Number: 170861301

Lab Number: L2465462

Report Date: 11/15/24

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: WG1997665-3								
Dichlorodifluoromethane	102		-		70-130	-		
Chloromethane	91		-		70-130	-		
Freon-114	103		-		70-130	-		
Vinyl chloride	99		-		70-130	-		
1,3-Butadiene	110		-		70-130	-		
Bromomethane	100		-		70-130	-		
Chloroethane	98		-		70-130	-		
Ethanol	97		-		40-160	-		
Vinyl bromide	94		-		70-130	-		
Acetone	95		-		40-160	-		
Trichlorofluoromethane	106		-		70-130	-		
Isopropanol	94		-		40-160	-		
1,1-Dichloroethene	108		-		70-130	-		
Tertiary butyl Alcohol	79		-		70-130	-		
Methylene chloride	105		-		70-130	-		
3-Chloropropene	110		-		70-130	-		
Carbon disulfide	110		-		70-130	-		
Freon-113	106		-		70-130	-		
trans-1,2-Dichloroethene	103		-		70-130	-		
1,1-Dichloroethane	103		-		70-130	-		
Methyl tert butyl ether	91		-		70-130	-		
2-Butanone	99		-		70-130	-		
cis-1,2-Dichloroethene	105		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 441 E. PARKWAY

Project Number: 170861301

Lab Number: L2465462

Report Date: 11/15/24

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: WG1997665-3								
Ethyl Acetate	112		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	100		-		70-130	-		
1,2-Dichloroethane	103		-		70-130	-		
n-Hexane	111		-		70-130	-		
1,1,1-Trichloroethane	105		-		70-130	-		
Benzene	106		-		70-130	-		
Carbon tetrachloride	113		-		70-130	-		
Cyclohexane	111		-		70-130	-		
1,2-Dichloropropane	107		-		70-130	-		
Bromodichloromethane	117		-		70-130	-		
1,4-Dioxane	110		-		70-130	-		
Trichloroethene	108		-		70-130	-		
2,2,4-Trimethylpentane	112		-		70-130	-		
Heptane	111		-		70-130	-		
cis-1,3-Dichloropropene	109		-		70-130	-		
4-Methyl-2-pentanone	110		-		70-130	-		
trans-1,3-Dichloropropene	110		-		70-130	-		
1,1,2-Trichloroethane	109		-		70-130	-		
Toluene	98		-		70-130	-		
2-Hexanone	125		-		70-130	-		
Dibromochloromethane	123		-		70-130	-		
1,2-Dibromoethane	113		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 441 E. PARKWAY

Project Number: 170861301

Lab Number: L2465462

Report Date: 11/15/24

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: WG1997665-3								
Tetrachloroethene	107		-		70-130	-		
Chlorobenzene	113		-		70-130	-		
Ethylbenzene	106		-		70-130	-		
p/m-Xylene	108		-		70-130	-		
Bromoform	127		-		70-130	-		
Styrene	115		-		70-130	-		
1,1,2,2-Tetrachloroethane	118		-		70-130	-		
o-Xylene	110		-		70-130	-		
4-Ethyltoluene	114		-		70-130	-		
1,3,5-Trimethylbenzene	116		-		70-130	-		
1,2,4-Trimethylbenzene	115		-		70-130	-		
Benzyl chloride	105		-		70-130	-		
1,3-Dichlorobenzene	121		-		70-130	-		
1,4-Dichlorobenzene	118		-		70-130	-		
1,2-Dichlorobenzene	118		-		70-130	-		
1,2,4-Trichlorobenzene	114		-		70-130	-		
Naphthalene	105		-		70-130	-		
Hexachlorobutadiene	120		-		70-130	-		

Project Name: 441 E. PARKWAY

Project Number: 170861301

Lab Number: L2465462

Report Date: 11/15/24

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
L2465462-01	INFLUENT_110724	0138	Flow 1	11/07/24	492847		-	-	-	Pass	162	158	3
L2465462-01	INFLUENT_110724	4263	6.0L Can	11/07/24	492847	L2461267-05	Pass	-28.7	-4.5	-	-	-	-
L2465462-02	EFFLUENT_110724	01546	Flow 1	11/07/24	492847		-	-	-	Pass	160	159	1
L2465462-02	EFFLUENT_110724	3265	6.0L Can	11/07/24	492847	L2461267-05	Pass	-29.6	-4.8	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2461267
Report Date: 11/15/24

Air Canister Certification Results

Lab ID: L2461267-05
Client ID: CAN 1866 SHELF 87
Sample Location:

Date Collected: 10/21/24 16:00
Date Received: 10/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/26/24 19:45
Analyst: JFI

	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: L2461267
Report Date: 11/15/24

Air Canister Certification Results

Lab ID: L2461267-05
Client ID: CAN 1866 SHELF 87
Sample Location:

Date Collected: 10/21/24 16:00
Date Received: 10/22/24
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: L2461267
Report Date: 11/15/24

Air Canister Certification Results

Lab ID: L2461267-05
Client ID: CAN 1866 SHELF 87
Sample Location:

Date Collected: 10/21/24 16:00
Date Received: 10/22/24
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: L2461267
Report Date: 11/15/24

Air Canister Certification Results

Lab ID: L2461267-05
Client ID: CAN 1866 SHELF 87
Sample Location:

Date Collected: 10/21/24 16:00
Date Received: 10/22/24
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: L2461267
Report Date: 11/15/24

Air Canister Certification Results

Lab ID: L2461267-05
Client ID: CAN 1866 SHELF 87
Sample Location:

Date Collected: 10/21/24 16:00
Date Received: 10/22/24
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	99		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2461267
Report Date: 11/15/24

Air Canister Certification Results

Lab ID: L2461267-05
Client ID: CAN 1866 SHELF 87
Sample Location:

Date Collected: 10/21/24 16:00
Date Received: 10/22/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/26/24 19:45
Analyst: JFI

	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: L2461267
Report Date: 11/15/24

Air Canister Certification Results

Lab ID: L2461267-05
Client ID: CAN 1866 SHELF 87
Sample Location:

Date Collected: 10/21/24 16:00
Date Received: 10/22/24
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 **Lab Number:** L2461267

Project Number: CANISTER QC BAT **Report Date:** 11/15/24

Air Canister Certification Results

Lab ID: L2461267-05
Client ID: CAN 1866 SHELF 87
Sample Location:

Date Collected: 10/21/24 16:00
Date Received: 10/22/24
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	100		60-140
chlorobenzene-d5	93		60-140

Project Name: 441 E. PARKWAY
Project Number: 170861301

Lab Number: L2465462
Report Date: 11/15/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2465462-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)
L2465462-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	441 E. PARKWAY	**Lab Number:**	L2465462
Project Number:	170861301	**Report Date:**	11/15/24

GLOSSARY

Acronyms

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

Report Format: Data Usability Report

Project Name:	441 E. PARKWAY	**Lab Number:**	L2465462
Project Number:	170861301	**Report Date:**	11/15/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: Data Usability Report

Project Name:	441 E. PARKWAY	**Lab Number:**	L2465462
Project Number:	170861301	**Report Date:**	11/15/24

Data Qualifiers

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: Data Usability Report

Project Name: 441 E. PARKWAY
Project Number: 170861301
Lab Number: L2465462
Report Date: 11/15/24

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Date Rec'd in Lab: 11-8-24

ALPHA Job #: L2465462

CHAIN OF CUSTODY

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

Client Information

Client: LANGAN Parsippany
Address: 300 Kimball dr
Parsippany, NJ
Phone: 973 560-4900
Fax:
Email: bparekh@langan.com

DPC NY

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 441 E. Parkway
Project Location: Farmingdale, NY
Project #: 170861301
Project Manager: BJ Parekh
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)
bloorman@langan.com
datamanagement@langan.com

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: ☐

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	ANALYSIS TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
65462-01	Influent_110724	11/07/24	12:55	13:19	-29.10	-4.42	SV	AK	6L	4263	1546	X					
-02	Effluent_110724		12:56	13:28	-29.92	-4.95				3265	0138	X					

*SAMPLE MATRIX CODES

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

Container Type: C

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.

Relinquished By:	Date/Time	Received By:	Date/Time:
AK 17:15	11/7/24 20:00	Paine	11/7/24 1830
Anthony Green	11/8/24 0145	Anthony Green	NOV 0 7 2024 23:15 11/8/24 0145
	11/8/24 0645	Harsh Jyk	11-8-24 0645

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

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Matthew Del Balzo

Report Date: 03/13/2025
Client Project ID: 170861301
York Project (SDG) No.: 25B1585

Report Date: 03/13/2025
Client Project ID: 170861301
York Project (SDG) No.: 25B1585

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Matthew Del Balzo

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 28, 2025 and listed below. The project was identified as your project: **170861301**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25B1585-01	Influent_022725	Vapor Extraction	02/27/2025	02/28/2025
25B1585-02	Effluent_022725	Vapor Extraction	02/27/2025	02/28/2025

General Notes for York Project (SDG) No.: 25B1585

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By  **Date:** 03/13/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **Influent_022725** **York Sample ID:** **25B1585-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1585	170861301	Vapor Extraction	February 27, 2025 10:59 am	02/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.1	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:			
71-55-6	**1,1,1-Trichloroethane**	**12**		ug/m³	0.85	0.85	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.1	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.2	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.85	0.85	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	**1,1-Dichloroethane**	**0.69**		ug/m³	0.63	0.63	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	**1,1-Dichloroethylene**	**0.18**		ug/m³	0.15	0.15	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND	CAL-E, TO-CCV, TO-LCS-L	ug/m³	1.2	1.2	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.76	0.76	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.2	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.93	0.93	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.63	0.63	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.72	0.72	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.1	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.76	0.76	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.0	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.93	0.93	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.72	0.72	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:			
106-46-7	1,4-Dichlorobenzene	ND	CAL-E	ug/m³	0.93	0.93	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.1	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: **Influent_022725** **York Sample ID:** **25B1585-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1585	170861301	Vapor Extraction	February 27, 2025 10:59 am	02/28/2025

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
540-84-1	* 2,2,4-Trimethylpentane	ND		ug/m³	0.18	0.36	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:			
78-93-3	**2-Butanone**	**0.50**		ug/m³	0.46	0.46	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.3	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	2.4	2.4	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.64	0.64	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	**Acetone**	**14**		ug/m³	0.74	3.0	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	Acrylonitrile	ND		ug/m³	0.34	4.4	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	**Benzene**	**0.65**		ug/m³	0.50	0.50	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.81	0.81	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.0	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	1.6	1.6	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.60	0.60	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.48	0.48	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	**Carbon tetrachloride**	**0.68**		ug/m³	0.24	0.24	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.72	0.72	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.41	0.41	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	**Chloroform**	**1.1**		ug/m³	0.76	0.76	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	**Chloromethane**	**2.7**		ug/m³	0.32	0.32	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	**cis-1,2-Dichloroethylene**	**0.74**		ug/m³	0.15	0.15	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.71	0.71	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	Cyclohexane	ND		ug/m³	0.54	0.54	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	**Dibromochloromethane**	**19**		ug/m³	1.3	1.3	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: **Influent_022725** **York Sample ID:** **25B1585-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1585	170861301	Vapor Extraction	February 27, 2025 10:59 am	02/28/2025

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	**Dichlorodifluoromethane**	**2.1**		ug/m³	0.77	0.77	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.1	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.68	0.68	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.7	1.7	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
67-63-0	**Isopropanol**	**3.7**	J, B	ug/m³	0.76	3.8	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.64	0.64	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.56	0.56	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
75-09-2	Methylene chloride	ND		ug/m³	1.1	3.2	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
91-20-3	* Naphthalene	ND		ug/m³	1.6	1.6	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NJDEP-NY037			
142-82-5	n-Heptane	ND		ug/m³	0.64	0.64	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
110-54-3	n-Hexane	ND		ug/m³	0.55	0.55	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
95-47-6	o-Xylene	ND		ug/m³	0.68	0.68	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
179601-23-1	p- & m- Xylenes	ND	ICVE	ug/m³	1.4	1.4	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.76	0.76	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:			
115-07-1	* **Propylene**	**0.45**		ug/m³	0.27	0.27	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:			
100-42-5	Styrene	ND		ug/m³	0.66	0.66	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
127-18-4	**Tetrachloroethylene**	**27**		ug/m³	1.1	1.1	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.92	0.92	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:			
108-88-3	Toluene	ND		ug/m³	0.59	0.59	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.62	0.62	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.71	0.71	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
79-01-6	**Trichloroethylene**	**100**		ug/m³	0.21	0.21	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: **Influent_022725** **York Sample ID:** **25B1585-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1585	170861301	Vapor Extraction	February 27, 2025 10:59 am	02/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.2**		ug/m³	0.87	0.87	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
108-05-4	Vinyl acetate	ND	TO-LCS-L, ICVE	ug/m³	0.55	0.55	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
593-60-2	Vinyl bromide	ND		ug/m³	0.68	0.68	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
75-01-4	Vinyl Chloride	ND		ug/m³	0.20	0.20	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
1330-20-7	* Xylenes, Total	ND		ug/m³	2.0	2.0	1.555	EPA TO-15	03/10/2025 11:00	03/11/2025 19:57	YR
								Certifications:			

Sample Information

Client Sample ID: Effluent_022725 **York Sample ID:** 25B1585-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1585	170861301	Vapor Extraction	February 27, 2025 10:32 am	02/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.1	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.86	0.86	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.1	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.2	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.86	0.86	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.64	0.64	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.16	0.16	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND	CAL-E, TO-CCV, TO-LCS-L	ug/m³	1.2	1.2	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.77	0.77	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.2	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.95	0.95	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.64	0.64	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.73	0.73	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.1	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.77	0.77	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.0	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.95	0.95	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.73	0.73	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:			
106-46-7	1,4-Dichlorobenzene	ND	CAL-E	ug/m³	0.95	0.95	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.1	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: **Effluent_022725** **York Sample ID:** **25B1585-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1585	170861301	Vapor Extraction	February 27, 2025 10:32 am	02/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
540-84-1	* **2,2,4-Trimethylpentane**	**0.37**		ug/m³	0.18	0.37	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:			
78-93-3	**2-Butanone**	**7.0**		ug/m³	0.46	0.46	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.3	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	2.5	2.5	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.65	0.65	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	**Acetone**	**170**		ug/m³	0.75	3.0	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	**Acrylonitrile**	**1.3**	J	ug/m³	0.34	4.4	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	Benzene	ND		ug/m³	0.50	0.50	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.82	0.82	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	1.1	1.1	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	1.6	1.6	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.61	0.61	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.49	0.49	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	**Carbon tetrachloride**	**0.30**		ug/m³	0.25	0.25	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.73	0.73	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.42	0.42	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.77	0.77	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	**Chloromethane**	**1.1**		ug/m³	0.33	0.33	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.16	0.16	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.72	0.72	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	Cyclohexane	ND		ug/m³	0.54	0.54	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.3	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: **Effluent_022725** **York Sample ID:** **25B1585-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1585	170861301	Vapor Extraction	February 27, 2025 10:32 am	02/28/2025

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	**Dichlorodifluoromethane**	**1.7**		ug/m³	0.78	0.78	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.1	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.68	0.68	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.7	1.7	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
67-63-0	**Isopropanol**	**4.1**	B	ug/m³	0.77	3.9	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.65	0.65	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.57	0.57	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
75-09-2	Methylene chloride	ND		ug/m³	1.1	3.3	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
91-20-3	* Naphthalene	ND		ug/m³	1.7	1.7	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NJDEP-NY037			
142-82-5	n-Heptane	ND		ug/m³	0.65	0.65	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
110-54-3	n-Hexane	ND		ug/m³	0.56	0.56	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
95-47-6	o-Xylene	ND		ug/m³	0.68	0.68	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
179601-23-1	p- & m- Xylenes	ND	ICVE	ug/m³	1.4	1.4	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.77	0.77	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:			
115-07-1	* **Propylene**	**15**		ug/m³	0.27	0.27	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:			
100-42-5	Styrene	ND		ug/m³	0.67	0.67	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
127-18-4	**Tetrachloroethylene**	**2.0**		ug/m³	1.1	1.1	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
109-99-9	* **Tetrahydrofuran**	**11**		ug/m³	0.93	0.93	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:			
108-88-3	**Toluene**	**0.83**		ug/m³	0.59	0.59	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.62	0.62	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.72	0.72	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
79-01-6	Trichloroethylene	ND		ug/m³	0.21	0.21	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: **Effluent_022725** **York Sample ID:** **25B1585-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1585	170861301	Vapor Extraction	February 27, 2025 10:32 am	02/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	**Trichlorofluoromethane (Freon 11)**	**0.97**		ug/m³	0.89	0.89	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
108-05-4	Vinyl acetate	ND	ICVE, TO-LCS-L	ug/m³	0.55	0.55	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
593-60-2	Vinyl bromide	ND		ug/m³	0.69	0.69	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
75-01-4	Vinyl Chloride	ND		ug/m³	0.20	0.20	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications: NELAC-NY12058,NJDEP-NY037			
1330-20-7	* Xylenes, Total	ND		ug/m³	2.1	2.1	1.576	EPA TO-15	03/10/2025 11:00	03/11/2025 19:11	YR
								Certifications:			

Analytical Batch Summary

Batch ID: BC50826 **Preparation Method:** EPA TO15 PREP **Prepared By:** YR

YORK Sample ID	Client Sample ID	Preparation Date
25B1585-01	Influent_022725	03/10/25
25B1585-02	Effluent_022725	03/10/25
BC50826-BLK1	Blank	03/11/25
BC50826-BS1	LCS	03/11/25

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50826 - EPA TO15 PREP											
Blank (BC50826-BLK1) Blank									Prepared & Analyzed: 03/11/2025		
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2,2,4-Trimethylpentane	ND	0.23	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	1.9	"								
Acrylonitrile	ND	2.8	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	2.1	1.5	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	2.1	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50826 - EPA TO15 PREP											
Blank (BC50826-BLK1) Blank								Prepared & Analyzed: 03/11/2025			
Naphthalene	ND	1.0	ug/m³								
n-Heptane	ND	0.41	"								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
Xylenes, Total	ND	1.3	"								
LCS (BC50826-BS1) LCS								Prepared & Analyzed: 03/11/2025			
1,1,1,2-Tetrachloroethane	10.8		ppbv	10.0		108	70-130				
1,1,1-Trichloroethane	9.45		"	10.0		94.5	70-130				
1,1,2,2-Tetrachloroethane	11.3		"	10.0		113	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.96		"	10.0		89.6	70-130				
1,1,2-Trichloroethane	10.4		"	10.0		104	70-130				
1,1-Dichloroethane	9.53		"	10.0		95.3	70-130				
1,1-Dichloroethylene	9.77		"	10.0		97.7	70-130				
1,2,4-Trichlorobenzene	6.72		"	10.0		67.2	70-130	Low Bias			
1,2,4-Trimethylbenzene	11.5		"	10.0		115	70-130				
1,2-Dibromoethane	10.2		"	10.0		102	70-130				
1,2-Dichlorobenzene	10.7		"	10.0		107	70-130				
1,2-Dichloroethane	11.1		"	10.0		111	70-130				
1,2-Dichloropropane	11.7		"	10.0		117	70-130				
1,2-Dichlorotetrafluoroethane	8.34		"	10.0		83.4	70-130				
1,3,5-Trimethylbenzene	11.4		"	10.0		114	70-130				
1,3-Butadiene	9.83		"	10.0		98.3	70-130				
1,3-Dichlorobenzene	11.3		"	10.0		113	70-130				
1,3-Dichloropropane	11.3		"	10.0		113	70-130				
1,4-Dichlorobenzene	11.5		"	10.0		115	70-130				
1,4-Dioxane	11.1		"	10.0		111	70-130				
2,2,4-Trimethylpentane	10.5		"	10.0		105	70-130				
2-Butanone	10.2		"	10.0		102	70-130				
2-Hexanone	12.5		"	10.0		125	70-130				
3-Chloropropene	10.8		"	10.0		108	70-130				
4-Methyl-2-pentanone	12.5		"	10.0		125	70-130				
Acetone	9.69		"	10.0		96.9	70-130				
Acrylonitrile	9.05		"	10.0		90.5	70-130				
Benzene	9.29		"	10.0		92.9	70-130				
Benzyl chloride	8.22		"	10.0		82.2	70-130				
Bromodichloromethane	11.2		"	10.0		112	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50826 - EPA TO15 PREP											
LCS (BC50826-BS1) LCS							Prepared & Analyzed: 03/11/2025				
Bromoform	12.8		ppbv	10.0		128	70-130				
Bromomethane	8.94		"	10.0		89.4	70-130				
Carbon disulfide	9.24		"	10.0		92.4	70-130				
Carbon tetrachloride	9.46		"	10.0		94.6	70-130				
Chlorobenzene	10.9		"	10.0		109	70-130				
Chloroethane	10.2		"	10.0		102	70-130				
Chloroform	9.23		"	10.0		92.3	70-130				
Chloromethane	8.81		"	10.0		88.1	70-130				
cis-1,2-Dichloroethylene	9.77		"	10.0		97.7	70-130				
cis-1,3-Dichloropropylene	11.9		"	10.0		119	70-130				
Cyclohexane	9.96		"	10.0		99.6	70-130				
Dibromochloromethane	11.1		"	10.0		111	70-130				
Dichlorodifluoromethane	9.61		"	10.0		96.1	70-130				
Ethyl acetate	12.4		"	10.0		124	70-130				
Ethyl Benzene	11.5		"	10.0		115	70-130				
Hexachlorobutadiene	15.3		"	10.0		153	70-130	High Bias			
Isopropanol	8.59		"	10.0		85.9	70-130				
Methyl Methacrylate	11.2		"	10.0		112	70-130				
Methyl tert-butyl ether (MTBE)	10.2		"	10.0		102	70-130				
Methylene chloride	9.97		"	10.0		99.7	70-130				
Naphthalene	9.78		"	10.0		97.8	70-130				
n-Heptane	10.8		"	10.0		108	70-130				
n-Hexane	10.0		"	10.0		100	70-130				
o-Xylene	11.8		"	10.0		118	70-130				
p- & m- Xylenes	23.2		"	20.0		116	70-130				
p-Ethyltoluene	11.9		"	10.0		119	70-130				
Propylene	10.4		"	10.0		104	70-130				
Styrene	11.8		"	10.0		118	70-130				
Tetrachloroethylene	11.1		"	10.0		111	70-130				
Tetrahydrofuran	10.5		"	10.0		105	70-130				
Toluene	10.7		"	10.0		107	70-130				
trans-1,2-Dichloroethylene	9.83		"	10.0		98.3	70-130				
trans-1,3-Dichloropropylene	11.6		"	10.0		116	70-130				
Trichloroethylene	10.6		"	10.0		106	70-130				
Trichlorofluoromethane (Freon 11)	9.29		"	10.0		92.9	70-130				
Vinyl acetate	4.47		"	10.0		44.7	70-130	Low Bias			
Vinyl bromide	9.11		"	10.0		91.1	70-130				
Vinyl Chloride	9.23		"	10.0		92.3	70-130				

Sample and Data Qualifiers Relating to This Work Order

TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 25B1585

Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: LANGAN DAR	Company:	Company:	170861301	RUSH - Next Day
Address: 300 Kimball dr Parsippany, NJ 07054	Address:	Address:	YOUR Project Name: 441 E. Fulton Farmingdale - NY	RUSH - Two Day
Phone:	Phone.:	Phone.:		RUSH - Three Day
Contact:	Contact:	Contact:		RUSH - Four Day
E-mail: bdaerno@langan.com, mdelbalzo@langan.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Adam R. Spaulding

Air Matrix Codes
- AI - Indoor Ambient Air
- AO - Outdoor Amb. Air
- AE - Vapor Extraction Well/ Process Gas/Effluent
- AS - Soil Vapor/Sub-Slab

Samples From
- New York
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m^3 ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
INFLUENT_022725	2-27-25	AE	-30	-5	03797	12011	
EFFLUENT_022725	1	AE	-30	-5	03790	21041	

Comments:

Detection Limits Required
≤ 1 ug/m^3 ____ NYSDEC V1 Limits ____
Routine Survey ____ Other ____

Sampling Media
- 6 Liter Canister
- Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
ASPAULDING / LANGAN	2-28-25	TheAtlas / York	2/28/25 1021		
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by**	**Date/Time**
				MA	2/28/25 12:30

ANALYTICAL REPORT

Lab Number:	L2525094
Client:	Langan Engineering & Environmental 300 Kimball Drive 4th Floor Parsippany, NJ 07054
ATTN:	Matthew Del Balzo
Phone:	(973) 560-4900
Project Name:	FARMINGDALE
Project Number:	170861301
Report Date:	05/02/25

Certifications & Approvals: NH ELAP (2249).

Project Name: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2525094-01	INFLUENT_042225	SOIL_VAPOR	441 E. PKWY, FARMINGDALE NY	04/22/25 13:03	04/23/25
L2525094-02	EFFLUENT_042225	SOIL_VAPOR	441 E. PKWY, FARMINGDALE NY	04/22/25 13:03	04/23/25
L2525094-03	UNUSED CAN #5779	SOIL_VAPOR	441 E. PKWY, FARMINGDALE NY		04/23/25

Project Name:	FARMINGDALE	**Lab Number:**	L2525094
Project Number:	170861301	**Report Date:**	05/02/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 18, 2025. The canister certification data is provided as an addendum.

The WG2061351-3 LCS recovery associated with L2525094-01 and -02 is below the acceptance limit for vinyl acetate (69%). All samples associated with this LCS that have reportable amounts of this analyte will be reported with low bias.

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: 05/02/25

AIR

Project Name: FARMINGDALE
Project Number: 170861301
Lab Number: L2525094
Report Date: 05/02/25

SAMPLE RESULTS

Lab ID: L2525094-01
Client ID: INFLUENT_042225
Sample Location: 441 E. PKWY, FARMINGDALE NY

Date Collected: 04/22/25 13:03
Date Received: 04/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/02/25 10:29
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.468	0.200	--	2.31	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	2.53	1.00	--	6.01	2.38	--		1
Trichlorofluoromethane	0.267	0.200	--	1.50	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		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	0.315	0.200	--	1.27	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	0.294	0.200	--	1.17	0.793	--		1

Project Name: FARMINGDALE
Project Number: 170861301
Lab Number: L2525094
Report Date: 05/02/25

SAMPLE RESULTS

Lab ID: L2525094-01
Client ID: INFLUENT_042225
Sample Location: 441 E. PKWY, FARMINGDALE NY

Date Collected: 04/22/25 13:03
Date Received: 04/23/25
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 Air Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.309	0.200	--	1.51	0.977	--		1
Tetrahydrofuran	0.501	0.500	--	1.48	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.206	0.200	--	0.726	0.705	--		1
1,1,1-Trichloroethane	1.80	0.200	--	9.82	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	21.6	0.200	--	116	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	5.71	0.200	--	38.7	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: FARMINGDALE
Project Number: 170861301
Lab Number: L2525094
Report Date: 05/02/25

SAMPLE RESULTS

Lab ID: L2525094-01
Client ID: INFLUENT_042225
Sample Location: 441 E. PKWY, FARMINGDALE NY

Date Collected: 04/22/25 13:03
Date Received: 04/23/25
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 Air Lab								
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
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
Naphthalene	ND	0.190	--	ND	0.996	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	107		60-140
Bromochloromethane	111		60-140
chlorobenzene-d5	123		60-140

Project Name: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

SAMPLE RESULTS

Lab ID: L2525094-02
Client ID: EFFLUENT_042225
Sample Location: 441 E. PKWY, FARMINGDALE NY

Date Collected: 04/22/25 13:03
Date Received: 04/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/02/25 09:49
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.647	0.200	--	3.20	0.989	--		1
Chloromethane	0.276	0.200	--	0.570	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	103	5.00	--	194	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.14	1.00	--	9.83	2.38	--		1
Trichlorofluoromethane	0.490	0.200	--	2.75	1.12	--		1
Isopropanol	24.0	1.00	--	59.0	2.46	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.526	0.500	--	1.59	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	0.580	0.500	--	1.71	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: FARMINGDALE
Project Number: 170861301
Lab Number: L2525094
Report Date: 05/02/25

SAMPLE RESULTS

Lab ID: L2525094-02
Client ID: EFFLUENT_042225
Sample Location: 441 E. PKWY, FARMINGDALE NY

Date Collected: 04/22/25 13:03
Date Received: 04/23/25
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 Air Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.870	0.500	--	2.57	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	3.42	0.200	--	12.1	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	0.861	0.200	--	4.02	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

Project Name: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

SAMPLE RESULTS

Lab ID: L2525094-02
Client ID: EFFLUENT_042225
Sample Location: 441 E. PKWY, FARMINGDALE NY

Date Collected: 04/22/25 13:03
Date Received: 04/23/25
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 Air Lab								
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
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
Naphthalene	ND	0.190	--	ND	0.996	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	108		60-140
Bromochloromethane	110		60-140
chlorobenzene-d5	120		60-140

Project Name: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/01/25 21:15

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01-02 Batch: WG2061351-4								
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	1.00	--	ND	2.46	--		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: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/01/25 21:15

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01-02 Batch: WG2061351-4								
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: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/01/25 21:15

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01-02 Batch: WG2061351-4								
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
Naphthalene	ND	0.190	--	ND	0.996	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-02 Batch: WG2061351-3								
Dichlorodifluoromethane	87		-		70-130	-		
Chloromethane	85		-		70-130	-		
Freon-114	96		-		70-130	-		
Vinyl chloride	83		-		70-130	-		
1,3-Butadiene	81		-		70-130	-		
Bromomethane	99		-		70-130	-		
Chloroethane	98		-		70-130	-		
Ethanol	111		-		40-160	-		
Vinyl bromide	97		-		70-130	-		
Acetone	88		-		40-160	-		
Trichlorofluoromethane	87		-		70-130	-		
Isopropanol	106		-		40-160	-		
1,1-Dichloroethene	94		-		70-130	-		
Tertiary butyl Alcohol	80		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	99		-		70-130	-		
Carbon disulfide	99		-		70-130	-		
Freon-113	97		-		70-130	-		
trans-1,2-Dichloroethene	92		-		70-130	-		
1,1-Dichloroethane	94		-		70-130	-		
Methyl tert butyl ether	94		-		70-130	-		
2-Butanone	100		-		70-130	-		
cis-1,2-Dichloroethene	92		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01-02		Batch: WG2061351-3					
Ethyl Acetate	98		-		70-130	-		
Chloroform	91		-		70-130	-		
Tetrahydrofuran	107		-		70-130	-		
1,2-Dichloroethane	83		-		70-130	-		
n-Hexane	90		-		70-130	-		
1,1,1-Trichloroethane	84		-		70-130	-		
Benzene	93		-		70-130	-		
Carbon tetrachloride	89		-		70-130	-		
Cyclohexane	90		-		70-130	-		
1,2-Dichloropropane	95		-		70-130	-		
Bromodichloromethane	92		-		70-130	-		
1,4-Dioxane	94		-		70-130	-		
Trichloroethene	92		-		70-130	-		
2,2,4-Trimethylpentane	93		-		70-130	-		
Heptane	101		-		70-130	-		
cis-1,3-Dichloropropene	102		-		70-130	-		
4-Methyl-2-pentanone	100		-		70-130	-		
trans-1,3-Dichloropropene	107		-		70-130	-		
1,1,2-Trichloroethane	94		-		70-130	-		
Toluene	106		-		70-130	-		
2-Hexanone	110		-		70-130	-		
Dibromochloromethane	107		-		70-130	-		
1,2-Dibromoethane	113		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab	Associated sample(s): 01-02		Batch: WG2061351-3					
Tetrachloroethene	102		-		70-130	-		
Chlorobenzene	113		-		70-130	-		
Ethylbenzene	107		-		70-130	-		
p/m-Xylene	110		-		70-130	-		
Bromoform	118		-		70-130	-		
Styrene	118		-		70-130	-		
1,1,2,2-Tetrachloroethane	115		-		70-130	-		
o-Xylene	113		-		70-130	-		
4-Ethyltoluene	117		-		70-130	-		
1,3,5-Trimethylbenzene	122		-		70-130	-		
1,2,4-Trimethylbenzene	119		-		70-130	-		
Benzyl chloride	107		-		70-130	-		
1,3-Dichlorobenzene	117		-		70-130	-		
1,4-Dichlorobenzene	119		-		70-130	-		
1,2-Dichlorobenzene	115		-		70-130	-		
1,2,4-Trichlorobenzene	101		-		70-130	-		
Naphthalene	95		-		70-130	-		
Hexachlorobutadiene	108		-		70-130	-		

Project Name: FARMINGDALE

Project Number: 170861301

Lab Number: L2525094

Report Date: 05/02/25

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	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2525094-01	INFLUENT_042225	0861	SV200	04/18/25	516972		-	-	-	Pass	217	217	0
L2525094-01	INFLUENT_042225	5758	6.0L TO Can	04/18/25	516972	L2521019-03	Pass	-29.4	-2.5	-	-	-	-
L2525094-02	EFFLUENT_042225	02281	SV200	04/18/25	516972		-	-	-	Pass	213	211	1
L2525094-02	EFFLUENT_042225	5759	6.0L TO Can	04/18/25	516972	L2521019-03	Pass	-29.6	-5.5	-	-	-	-
L2525094-03	UNUSED CAN #5779	0663	SV200	04/18/25	516972		-	-	-	Pass	220	219	0
L2525094-03	UNUSED CAN #5779	5779	6.0L TO Can	04/18/25	516972	L2521019-03	Pass	-29.8	-29.5	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2521019
Report Date: 05/02/25

Air Canister Certification Results

Lab ID: L2521019-03
Client ID: CAN 5768 SHELF 47
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/09/25 04:33
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air 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	13.9	5.00	--	18.2	6.55	--	B	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	1.00	--	ND	2.46	--		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: L2521019
Report Date: 05/02/25

Air Canister Certification Results

Lab ID: L2521019-03
Client ID: CAN 5768 SHELF 47
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
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 Air 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: L2521019
Report Date: 05/02/25

Air Canister Certification Results

Lab ID: L2521019-03
Client ID: CAN 5768 SHELF 47
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
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 Air 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: L2521019
Report Date: 05/02/25

Air Canister Certification Results

Lab ID: L2521019-03
Client ID: CAN 5768 SHELF 47
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
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 Air 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	0.996	--		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 **Lab Number:** L2521019

Project Number: CANISTER QC BAT **Report Date:** 05/02/25

Air Canister Certification Results

Lab ID: L2521019-03
Client ID: CAN 5768 SHELF 47
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
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 Air 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	106		60-140
chlorobenzene-d5	101		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2521019
Report Date: 05/02/25

Air Canister Certification Results

Lab ID: L2521019-03
Client ID: CAN 5768 SHELF 47
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/09/25 04:33
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air 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: L2521019
Report Date: 05/02/25

Air Canister Certification Results

Lab ID: L2521019-03
Client ID: CAN 5768 SHELF 47
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
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 Air 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	0.021	0.020	--	0.091	0.087	--		1
p/m-Xylene	0.081	0.040	--	0.352	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 **Lab Number:** L2521019

Project Number: CANISTER QC BAT **Report Date:** 05/02/25

Air Canister Certification Results

Lab ID: L2521019-03
Client ID: CAN 5768 SHELF 47
Sample Location:

Date Collected: 04/08/25 10:00
Date Received: 04/08/25
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 Air 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	0.110	0.050	--	0.577	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	102		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	98		60-140

Project Name: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2525094-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)
L2525094-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30)
L2525094-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	FARMINGDALE	**Lab Number:**	L2525094
Project Number:	170861301	**Report Date:**	05/02/25

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:	FARMINGDALE	**Lab Number:**	L2525094
Project Number:	170861301	**Report Date:**	05/02/25

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:	FARMINGDALE	**Lab Number:**	L2525094
Project Number:	170861301	**Report Date:**	05/02/25

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

Project Name: FARMINGDALE
Project Number: 170861301

Lab Number: L2525094
Report Date: 05/02/25

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

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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 – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
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.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

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

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

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 4/23/25

ALPHA Job #: L2525094

Client Information

Client: Langan
Address: 300 Kimball Dr.
Parsippany, NJ 07054
Phone: (914) 323-7428
Fax: —
Email: mdelbalzo@Langan.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Farmingdale
Project Location: 441 E. Pkwy, Farmingdale NY
Project #: 170861301
Project Manager: Matt DelBalzo
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: email results to: mdelbalzo@Langan.com bpareth@Langan.com

Project-Specific Target Compound List: ☐

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	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
25094-01	Influent_042225	4/22/25	1237	1303	-30.23	-1.56	SV	MM	6L	5158	0861	X					
-02	Effluent_042225	4/22/25	1238	1303	-29.47	-4.78	SV	MM	6L	5159	02281	X					

4/22/25

*SAMPLE MATRIX CODES

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

Container Type: Summa

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.

Relinquished By:	Date/Time	Received By:	Date/Time:
	4/22/25		
NJSC	4-23-25 1630	Pace NJSC	4-23-25 1340
Paul Maggella	4/23/25 1705	Paul Maggella 4/23 2030	4/23/25 1705 4/23 2350

4/23/25 1350

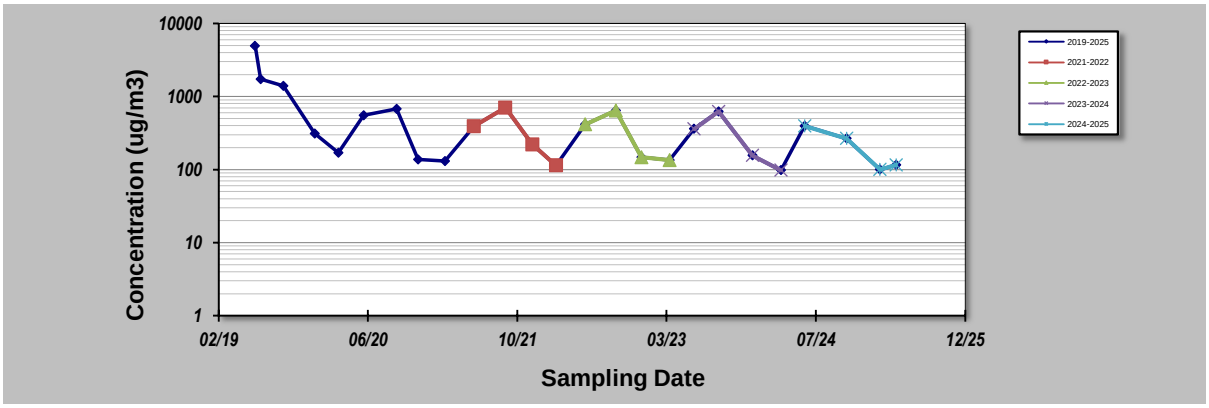
APPENDIX E

Mann-Kendall Analysis of Influent Samples

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	4/16/2025	Job ID:	170861301
Facility Name:	B.H. Aircraft	Constituent:	*Trichloroethene*
Conducted By:	Shawn Martin	Concentration Units:	ug/m^3

Sampling Point ID:	2019-2025	2021-2022	2022-2023	2023-2024	2024-2025		
Sampling Event	Sampling Date	TRICHLOROETHENE CONCENTRATION (ug/m3)						
1	6/6/2019	4940						
2	6/25/2019	1730						
3	9/9/2019	1400						
4	12/23/2019	310						
5	3/11/2020	170						
6	6/4/2020	554						
7	9/22/2020	677						
8	12/3/2020	137						
9	3/3/2021	131						
10	6/8/2021	392	392					
11	9/21/2021	704	704					
12	12/21/2021	220	220					
13	3/10/2022	114	114					
14	6/15/2022	415		415				
15	9/26/2022	645		645				
16	12/21/2022	147		147				
17	3/25/2023	135		135				
18	6/15/2023	360			360			
19	9/5/2023	623			623			
20	12/28/2023	156			156			
21	4/1/2024	98.3			98.3			
22	6/20/2024	395				395		
23	11/7/2024	266				266		
24	2/27/2025	100				100		
25	4/22/2025	116				116		
26								
27								
28								
29								
30								
Coefficient of Variation:		1.66	0.72	0.73	0.77	0.63		
Mann-Kendall Statistic (S):		-120	-4	-4	-4	-4		
Confidence Factor:		99.8%	83.3%	83.3%	83.3%	83.3%		
Concentration Trend:		Decreasing	Stable	Stable	Stable	Stable		



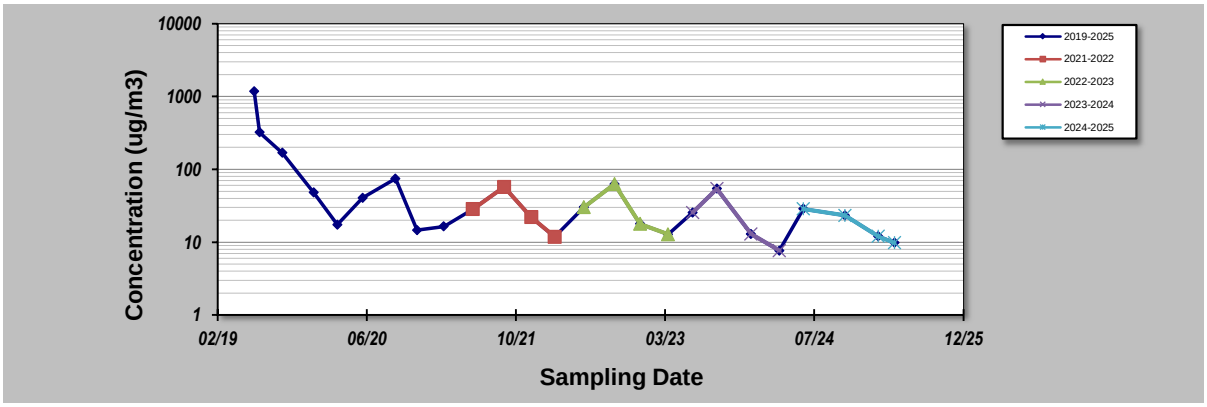
Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	4/16/2025	Job ID:	170861301
Facility Name:	B.H. Aircraft	Constituent:	*1,1,1-Trichloroethane*
Conducted By:	Shawn Martin	Concentration Units:	ug/m^3

Sampling Point ID:	2019-2025	2021-2022	2022-2023	2023-2024	2024-2025		
Sampling Event	Sampling Date	1,1,1-TRICHLOROETHANE CONCENTRATION (ug/m3)						
1	6/6/2019	1180						
2	6/25/2019	321						
3	9/9/2019	168						
4	12/23/2019	48						
5	3/11/2020	17.3						
6	6/4/2020	40.6						
7	9/22/2020	74.7						
8	12/3/2020	14.6						
9	3/3/2021	16.4						
10	6/8/2021	28.3	28.3					
11	9/21/2021	57.3	57.3					
12	12/21/2021	22	22					
13	3/10/2022	11.8	11.8					
14	6/15/2022	30.1		30.1				
15	9/26/2022	62.7		62.7				
16	12/21/2022	17.8		17.8				
17	3/25/2023	12.8		12.8				
18	6/15/2023	25.5			25.5			
19	9/5/2023	54.1			54.1			
20	12/28/2023	12.9			12.9			
21	4/1/2024	7.64			7.64			
22	6/20/2024	28.6				28.6		
23	11/7/2024	23.2				23.2		
24	2/27/2025	12				12		
25	4/22/2025	9.82				9.82		
26								
27								
28								
29								
30								
Coefficient of Variation:		2.57	0.65	0.73	0.83	0.49		
Mann-Kendall Statistic (S):		-136	-4	-4	-4	-6		
Confidence Factor:		99.9%	83.3%	83.3%	83.3%	95.8%		
Concentration Trend:		Decreasing	Stable	Stable	Stable	Decreasing		



Notes:

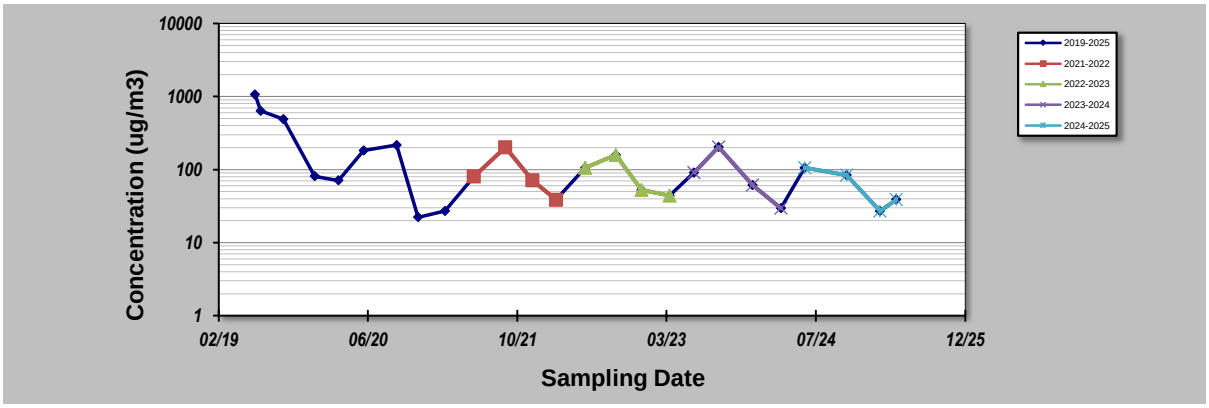
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 4/16/2025
Facility Name: B.H. Aircraft
Conducted By: Shawn Martin

Job ID: 170861301
Constituent: *Tetrachloroethene*
Concentration Units: ug/m^3

Sampling Point ID:	2019-2025	2021-2022	2022-2023	2023-2024	2024-2025		
Sampling Event	Sampling Date	TETRACHLOROETHENE CONCENTRATION (ug/m3)						
1	6/6/2019	1060						
2	6/25/2019	635						
3	9/9/2019	491						
4	12/23/2019	81						
5	3/11/2020	71						
6	6/4/2020	182						
7	9/22/2020	216						
8	12/3/2020	22.3						
9	3/3/2021	27						
10	6/8/2021	80.7	80.7					
11	9/21/2021	202	202					
12	12/21/2021	71.2	71.2					
13	3/10/2022	38.5	38.5					
14	6/15/2022	106		106				
15	9/26/2022	158		158				
16	12/21/2022	52.8		52.8				
17	3/25/2023	44		44				
18	6/15/2023	90.9			90.9			
19	9/5/2023	204			204			
20	12/28/2023	61.5			61.5			
21	4/1/2024	29.6			29.6			
22	6/20/2024	106				106		
23	11/7/2024	84.1				84.1		
24	2/27/2025	27				27		
25	4/22/2025	38.7				38.7		
26								
27								
28								
29								
30								
Coefficient of Variation:		1.41	0.73	0.59	0.79	0.58		
Mann-Kendall Statistic (S):		-98	-4	-4	-4	-4		
Confidence Factor:		98.9%	83.3%	83.3%	83.3%	83.3%		
Concentration Trend:		Decreasing	Stable	Stable	Stable	Stable		



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
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APPENDIX F

IC/EC Certification Form

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. C152247

Site Name BH Aircraft Site

Site Address: 441 Eastern Parkway Zip Code: 11735
City/Town: East Farmingdale
County: Suffolk
Site Acreage: 3.520

Reporting Period: April 27, 2024 to April 27, 2025

	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? 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 Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C152247 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
046.00-1.00-020.000	441 Eastern Parkway, LLC	Site Management Plan Landuse Restriction Soil Management Plan Monitoring Plan O&M Plan IC/EC Plan Ground Water Use Restriction

The site remedy requires that an environmental easement be placed on the property (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to commercial and industrial uses only.

Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1)Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
046.00-1.00-020.000	Cover System Air Sparging/Soil Vapor Extraction Monitoring Wells

Cap: Construction and maintenance of a soil cover system consisting of an asphalt cap, 12 inches of clean fill/topsoil, building slabs and sidewalks to prevent human exposure to remaining contaminated soil/fill remaining at the site.

SVE: Installation of a SVE system in the southwestern corner of the Site to limit off-site migration of VOCs identified during the RI.

MNA: Implementation of a monitored natural attenuation program to verify that VOC contaminant mass identified in the groundwater decreases with time.

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.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. C152247

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.

SIGN HERE

I Michael Cohen (print name) at 1914 Willets Road, Old Westbury, NY. 11568 (print business address)

am certifying as Owner (Owner or Remedial Party)

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

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

5/27/25
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional 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 Gerald Nicholls (print name) at 368 Ninth Ave, Fl 8, New York, NY 10001 (print business address),

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

Gerry Nicholls — Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

05/27/2025 — Date