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2024 PERIODIC REVIEW REPORT

Rockfarmer 37th Avenue
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372
Block 1456, Lots 35 & 41
Site No. C241212

PREPARED FOR:
37th Avenue Owner LLC; Horizon 37th Ave, LLC; and RFC Ketchum 37th Ave, LLC
42-15 235th Street
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LKB PROJECT NO: 10172.LK

April 16, 2025

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LIST OF ACRONYMS

ACRONYM	DEFINITION
AWQS	Ambient Water Quality Standards
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
BGS	Below Ground Surface
CAMP	Community Air Monitoring Plan
CFM	Cubic Feet Per Minute
Cis-DCE	Cis-1,2-Dichloroethene
Class GA	Groundwater Effluent Limitation (Class GA)
CVOC	Chlorinated Volatile Organic Compound
DER	Division of Environmental Remediation
DNAPL	Dense Non-Aqueous Phase Liquid
DOT	Department of Transportation
EC	Engineering Control
ECL	Environmental Conservation Law
EE	Environmental Easement
ELAP	Environmental Laboratory Accreditation Program
ESA	Environmental Site Assessment
HASP	Health and Safety Plan
HDPE	High-Density Polyethylene
IC	Institutional Control
in WC	Inches of Water Column
LNAPL	Light Non-Aqueous Phase Liquid
µg/L	Microgram per Liter
$\mu g/m^3$	Microgram per cubic meter
NYCDEP	New York City Department of Environmental Protection

ACRONYM	DEFINITION
NYCDOB	New York City Department of Buildings
NYSDOH	New York State Department of Health
NYSDEC	New York State Department of Environmental Conservation
O&M	Operations and Maintenance
PCE	Tetrachloroethene
PID	Photoionization Detector
PPM	Parts Per Million
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
RAO	Remedial Action Objective
SMP	Site Management Plan
SSDS	Sub-Slab Depressurization System
TCE	Trichloroethene
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

1.0 EXECUTIVE SUMMARY

This Periodic Review Report (PRR) is a required element of the remedial program for the Rockfarmer 37th Avenue property located at 82-13 37th Avenue in Jackson Heights, Queens County, New York (hereinafter referred to as the "Site"). The Volunteer (37th Owner LLC; Horizon 37th Ave, LLC; and RFC Ketcham 37th Ave, LLC) entered into a Brownfield Cleanup Agreement (BCA) on July 25, 2018, with the New York State Department of Environmental Conservation (NYSDEC) to remediate the Site in the New York State Brownfield Cleanup Program (BCP), Site No. C241212. Upon completion of the remedial activities, the NYSDEC issued a Certificate of Completion on December 28, 2022. In accordance with the Certificate of Completion, this PRR for the Site is due annually to NYSDEC prior to April 28, 2025.

The Site achieved a Track 4 cleanup (restricted use with Site-specific soil cleanup objectives), with allowable uses under the BCP of restricted-residential, commercial, and industrial. After completion of the remedial work, some residual contamination from various sources remained at the Site, which is hereafter referred to as "remaining contamination". Institutional controls (ICs) and engineering controls (ECs) have been incorporated into the Site remedy to prevent exposure to remaining contamination to ensure protection of public health and the environment. The ICs and ECs are contained within the NYSDEC-approved Site Management Plan (SMP) and an Environmental Easement (EE) granted pursuant to Environmental Conservation Law (ECL) Article 71, Title 36 which has been duly recorded in Queens County.

The SMP requires the maintenance of the ECs, and the submittal of an annual PRR to document that the ICs and ECs remain in place and continue to be effective.

The reporting period for this PRR is February 1, 2024 to February 28, 2025. The following activities were conducted during this reporting period:

- Quarterly inspections of the active sub-slab depressurization system (SSDS) piping and alarm in March, June and September 2024.
- Annual Site-wide inspection in December 2024, including evaluation of the active SSDS (blower, sub-slab, piping, and alarm), cover system, and groundwater monitoring wells MW-1 to MW-10.
- Annual groundwater monitoring well sampling of MW-1, MW-2, MW-3, MW-8, and MW-10 in December 2024 including investigation derived waste disposal. Groundwater analysis was conducted for volatile organic compounds (VOCs).
- Annual vapor intrusion sampling of indoor and ambient air in December 2024. Indoor and ambient air analysis was conducted for VOCs.
- Provide an IC/EC certification.
- Preparation of a PRR.

1.1 Effectiveness of the Remedial Program

The ICs remain in place at the Site restricting groundwater and land use, and the cover system at the Site is intact and is effectively preventing direct exposure to residual contamination in the subsurface environment.

The active SSDS continues to operate as designed and installed and is successfully intercepting and venting VOCs that may be generated and accumulate in the subsurface presenting a risk of vapor intrusion into the building.

1.2 Compliance

No areas of non-compliance with the SMP (i.e., IC/EC Plan, Monitoring and Sampling Plan and/or O&M Plan) were identified during the reporting period.

1.3 Recommendations

The ICs and ECs are performing as designed, are effective in achieving the Remedial Action Objectives (RAOs) for the Site, and are compliant with specifications provided in the SMP. The requirements for discontinuation of the ICs and ECs in connection with Site closure have not been achieved. Therefore, LKB recommends continued quarterly inspections of the active SSDS system and alarm; annual site-wide inspection of the active SSDS (blower, piping, and alarm), cover system, and groundwater monitoring wells MW-1 to MW-10; continued groundwater monitoring well sampling of MW-1, MW-2, MW-3, MW-8, and MW-10 for VOCs, and annual vapor intrusion sampling of indoor and ambient air for VOCs as outlined in the SMP. O&M will be performed on an as needed basis. PRR submittals will remain annual at this time, and the next submittal will be April 2026.

LKB recommends adjusting groundwater sampling to once every 15 months as it has been shown that concentrations in MW-1 are decreasing with high confidence and concentrations in MW-3 are stable or show no trend. Sampling every 15 months will allow for seasonal variation in the data.

LKB recommends and requests that the groundwater analysis be limited to compounds recently detected that have exceeded Class GA groundwater standards or are considered to be breakdown compounds of the Site COCs. It is recommended that groundwater analysis be limited to the following compounds:

- Tetrachloroethene (PCE)
- Trichloroethene (TCE)
- Cis,1,2-Dichloroethene (c-DCE)
- Vinyl Chloride

LKB recommends and requests that the indoor air analysis be limited to only the COCs detected in the Site groundwater:

- PCE
- TCE
- c-DCE
- vinyl chloride

2.0 SITE OVERVIEW

2.1 Site Location and Description

The Site is located in Jackson Heights, Queens County, New York and consists of two contiguous parcels identified as Block 1456, Lots 35 and 41. A Site Location Map is provided as **Figure 1**. According to the New York City Department of Buildings (NYCDOB), the Site is identified with the following addresses: 82-01 to 82-11 37th Avenue, 82-13 to 82-21 37th Avenue, 35-57 to 35-65 82nd Street, and 35-64 83rd Street. The Site is located in an urban area with a mix of commercial and residential buildings, located on the north side of 37th Avenue, between 82nd Street and 83rd Street. The approximate Site area is 20,000 square feet (0.459 acres), which is divided equally between the two lots.

The Site is improved with an approximately 108,000-square foot (above-grade), nine-story commercial office building, with ground-floor lobby, retail, and a two-level parking garage. The Site building is improved with a basement, which is occupied by office space, utility rooms, and storage space. The site building is serviced by municipal water (New York City Department of Environmental Protection [NYCDEP]), municipal sanitary and storm sewer (NYCDEP), natural gas (Consolidated Edison), and electric (Consolidated Edison). The building footprint covers the entire site, and is surrounded to the south, east, and west by public sidewalks and roadways and to the north are residential structures.

2.2 Remediation Chronology

According to a Draft Phase I Environmental Site Assessment (ESA) prepared by Merritt Environmental Consulting Corp. (Merritt), dated November 13, 2017, and VERTEX's review of Sanborn fire insurance maps, the earliest identified use of the site included commercial stores by at least 1930. The current commercial office building, with ground-floor retail and a parking

garage, was constructed in 1993. Review of city directories identified Star Cleaning & Dyeing Co. at 82-05 37th Avenue in 1939 and Columbia Cleaners at 82-13 37th Avenue for the years 1939 to 1970. In addition, Jackson Heights Cleaners & Tailors was identified at 35-64 83rd Street in 1950.

Site characterization activities were performed at the site in December 2017 and February 2018, to investigate soil vapor, indoor air, soil, and groundwater conditions and evaluate potential impacts associated with the former dry-cleaning operations. Based on the sampling results, solvent impacts, likely associated with the former dry-cleaning operations, were noted in soil, soil vapor, indoor air, and groundwater.

The following table provides a summary of the remedial activities completed at the Site:

REMEDIATION CHRONOLOGY	
DESCRIPTION	**DATE**
Brownfield Cleanup Agreement	July 2018
Remedial Investigation Work Plan	February 2019
Remedial Investigation (Sewer Evaluation, Soil Sampling, Monitoring Well Installation & SSDS Pilot Study)	February 2019
Remedial Investigation (Groundwater Sampling)	March 2019
Remedial Investigation (Groundwater Sampling)	June 2019
Interim Remedial Measures Work Plan	November 2019
Supplemental Remedial Investigation Work Plan	February 2020
Remedial Investigation (Monitoring Well Installation)	March 2020
Remedial Investigation (Groundwater Sampling)	April 2020
Remedial Investigation Report	June 2020
Supplemental Pre-Design Investigation Work Plan / Interim Remedial Measures Work Plan	September 2020
Interim Remedial Measure (Soil Excavation & Post-Excavation Soil Sampling)	September 2020
SSDS Installation	September 2020

REMEDIATION CHRONOLOGY	
DESCRIPTION	**DATE**
Environmental Easement Recorded	December 2020
Interim Remedial Measures Construction Completion Report	January 2021
Decision Document Issued by NYSDEC	April 2021
Remedial Action Work Plan	May 2021
SSDS Installation	May 2021
SSDS Start-Up	July 2021
Limited Soil Investigation Work Plan	September 2021
Limited Soil Investigation (Soil Sampling)	October 2021
SSDS Effectiveness Testing (Sub-Slab Soil Gas, Indoor Air & Ambient Air Sampling)	November 2021
Limited Soil Investigation Report	December 2021
Site Management Plan (SMP) & Final Engineering Report (FER)	December 2022
Certificate of Completion Issued by NYSDEC	December 2022

2.3 Remaining Contamination

Based on the remedial investigation findings, the primary contaminants of concern at the Site are chlorinated volatile organic compounds (CVOCs) that were identified in soil, groundwater, and sub-slab soil vapor.

2.3.1 Soil

Two soil samples (VTX-113 and VTX-114) collected in May 2021 during the installation of the extraction points for the SSDS contained detections of tetrachloroethene (PCE) exceeding the RUSCO-GW. The samples were collected at 1.0-1.5 feet below the basement slab. In October 2021, nine soil borings were advanced in the southeast portion of the Site building to further evaluate soil conditions and assess whether a CVOC source area was present. A total of 18 soil

samples were analyzed for VOCs. No CVOC source area was identified at the Site, and horizontal and vertical sampling to delineate previous soil samples VTX-113 and VTX-114 identified no exceedances to the SCOs.

A total of 19 soil samples were analyzed for pesticides and metals during the February 2019 remedial investigation activities. Six soil sample locations contained one or more pesticides (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and/or dieldrin) exceeding the SCOs and two locations (RF-2 and RF-4) contained metals (cadmium, copper and/or zinc) concentrations exceeding the SCOs.

2.3.2 Groundwater

A total of 29 groundwater samples were collected at the Site via three temporary monitoring wells and 10 permanent monitoring wells. The CVOCs identified at concentrations exceeding the NYSDEC Ambient Water Quality Standard (AWQS) and NYSDEC Groundwater Effluent Limitation (Class GA) include PCE, trichloroethene (TCE), and cis-1,2-dichloroethene (cis-DCE). The groundwater impacts extend from areas up-gradient of the Site building to beneath the footprint of the Site building. These impacts originate from a facility that is up-gradient of the Site and are delineated in the down-gradient direction.

During the April 2020 groundwater sampling event, petroleum-related VOCs (1,2,4,5-tetramethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, ethylbenzene, isopropylbenzene, n-propylbenzene, and naphthalene) were identified in monitoring wells MW-6, MW-9, and MW-10 at concentrations exceeding the AWQS/Class GA. These compounds are not COCs associated with the former on-site dry-cleaning operations and are likely associated with degraded heating oil and could be associated with an off-site release.

2.3.3 Soil Vapor

Evaluation of the soil vapor analytical data identified concentrations of carbon tetrachloride, TCE, and PCE in exceedance of the New York State Department of Health (NYSDOH) matrix sub-slab soil vapor concentration criteria. The highest concentrations were identified in the southeast portion of the Site.

3.0 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

3.1 Remedial Action Objectives

The RAOs for the Site as listed in the Decision Document dated April 2021 along with a summary of their current status are as follows:

3.1.1 Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAO for Environmental Protection

- Remove the source of ground or surface water contamination.

The ICs for groundwater use at the Site remain in place, prohibiting its use. The EC cover system at the Site is intact and is effectively preventing direct exposure to residual groundwater contamination. Groundwater monitoring is conducted annually and based on the most recent sampling event in December 2024, concentrations of CVOCs (cis-DCE, and PCE) detected on Site remain in exceedance of the AWQS/Class GA.

3.1.2 Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation exposure to contaminants volatilizing from soil.

RAO for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

The ECs and ICs for soil at the Site remain in place. The cover system at the Site is intact and is effectively preventing ingestion/direct contact to residual contamination in the subsurface environment, as well as preventing migration of contaminants to groundwater or surface water. An Excavation Work Plan (Appendix D in the SMP) was developed to provide guidance and methods to be implemented during any future activity that is anticipated to encounter remaining contamination or breach or alter the Site's cover system.

3.1.3 Soil Vapor

RAO for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into the Site building.

The active SSDS continues to operate as designed and installed and is successfully intercepting and venting VOCs that may be generated and accumulate in the subsurface with the potential to result in vapor intrusion into the building.

4.0 INSTITUTIONAL CONTROL/ENGINEERING CONTROL PLAN COMPLIANCE

Since residual contamination exists at the Site, ICs and ECs are required to protect human health and the environment. The IC/EC Control Plan describes the procedures for the implementation and management of all ICs and ECs at the Site.

Generally, remedial processes are considered completed when monitoring indicates that the remedy has achieved the RAOs identified by the Decision Document. The framework for determining when remedial processes are complete is provided in Section 6.4 of NYSDEC Division of Environmental Remediation (DER)-10. Unless waived by the NYSDEC, confirmation samples of applicable environmental media are required before terminating any remedial actions at the Site. The NYSDEC may approve termination of a groundwater monitoring program, and upon receipt of this approval, all Site-related monitoring, injection, and recovery wells are to be decommissioned as per the NYSDEC CP-43 policy.

4.1 Institutional Controls

A series of ICs is required by the Decision Document to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and (3) limit the use and development of the Site to restricted residential, commercial, and industrial uses only. Adherence to these ICs on the Site is required by the Environmental Easement and were implemented under the approved SMP. These ICs are the following:

- The Site may be used for restricted residential, commercial, and industrial use.
- All ECs must be operated and maintained as specified in the SMP.
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the Site is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health and

Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.

- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP.
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP.
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP.
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP.
- Access to the Site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on **Figure 2**, and any potential impacts that are identified must be monitored or mitigated.
- Vegetable gardens and farming on the Site are prohibited.
- An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible.

4.2 Engineering Controls

The following provides a summary of the ECs at the Site.

4.2.1 Cover (of Cap)

Exposure to remaining contamination at the Site is prevented by a cover system placed over the Site. This cover system is comprised of concrete sidewalk (approximately 4-inch-thick concrete and 2-inch base stone layer), brick-covered sidewalk (approximately 3.5-inch-thick brick and 2-inch base stone layer), and concrete building slab (approximately 4-inch-thick concrete). The location of the cover system is depicted on **Figure 2**.

4.2.2 Sub-Slab Depressurization System

The SSDS at the Site consists of 14 below-grade extraction points installed within horizontal trenches, which consist of five-foot lengths of two-inch diameter slotted poly vinyl chloride (PVC) well screen (0.020-inch slot size) with socks, set in ¾-inch clean stone, with caps at the ends of each piping run. One extraction point consists of a one-foot length of slotted PVC well screen. The below-grade horizontal piping runs consist of solid two-inch, three-inch, and four-inch Schedule 40 PVC pipe. Vertical piping consisting of four-inch diameter Schedule 40 steel transitions from the basement floor to the loading dock in the northeastern corner of the Site.

Three Dwyer Minihelic® 0-10 inches of water column pressure gauges are installed along the below grade piping runs to monitor vacuum and to act as sample points within the runs.

Three “valves” consisting of 12-inch sections of rubber hose in-line with the below-grade piping were installed to be able to adjust flow within the system. Air flow can be adjusted by pinching the hose if needed. Flow is imparted with the use of one Dayton® high pressure, direct drive,

radial blade blower (200 cubic feet per minute at five inches of water column). In accordance with NYSDOH guidance, the exhaust was located at least 10 feet from any operable openings or air intakes. The blower is connected electrically to its own circuit in an existing electrical panel and improved with an exhaust silencer for noise reduction.

Ten permanent, sub-slab monitoring points (Mini Vapor Pin®) were installed to be able to monitor below grade vacuum and contaminant concentrations.

An alarm (Radon Away™ Checkpoint IIA) was installed on the system to warn of a loss of system vacuum.

4.3 IC/EC Plan Compliance Evaluation

The following table provides an evaluation summary of the ICs and ECs at the Site along with a summary of their current status.

IC/EC	Objective	Status
Institutional Controls		
Land Use Restriction	Restricts the use of the Site.	The use of the Site has been restricted via the filing of the Environmental Easement in Queens County. No change in Site use was observed during the reporting period.
Groundwater Use Restriction	Restricts the use of groundwater at the Site.	A groundwater use restriction is in place via the filing of the Environmental Easement in Queens County. No groundwater use was observed during the reporting period.
Excavation Work Plan	Provides guidance and methods to be implemented during any future activity that is anticipated to encounter remaining contamination or breach or alter the Site's cover system.	No excavation activities or breach/alter of the cover system was identified during the reporting period, except for minor bathroom renovation work, requiring a small slab opening that was resealed. Therefore, the Excavation Work Plan did not require implementation or modification.

IC/EC	Objective	Status
Health & Safety Plan (HASP) / Community Air Monitoring Plan (CAMP)	The HASP addresses those activities and Site procedures to be followed by LKB personnel during work performed at the Site. The Community Air Monitoring Plan (CAMP) provides real-time monitoring for VOCs and particulates typically at the downwind perimeter of designated work areas where known contaminated soils will be disturbed.	LKB referred to the HASP during the monitoring and sampling activities conducted during this reporting period. No activities were conducted during the reporting period that warranted the implementation of the CAMP.
Groundwater Monitoring	Ensure protection of human health and the environment and assess the performance and effectiveness of the remedy.	Annual groundwater sampling in accordance with the SMP was conducted in December 2024. A discussion of the results is provided in Section 5.0.
Soil Vapor Intrusion Monitoring	Ensure protection of human health and the environment and assess the performance and effectiveness of the remedy.	Annual basement indoor air and ambient air samples were collected in December 2024. A discussion of the results is provided in Section 5.0.
Engineering Controls		
Site Cover System	Prevent direct exposure to remaining contamination at the Site.	All Site cover system components remain in place, are competent, and are protective of human health and the environment.
Sub-Slab Depressurization System	The active SSDS intercepts and vents VOCs that may be generated and accumulate in the subsurface.	The system has remained operational. Additional information is provided in Section 6.0.

The IC/EC Certification, completed in accordance with Section 1.5(b)5 of NYSDEC DER-10, is provided in **Appendix A**.

5.0 MONITORING AND SAMPLING PLAN COMPLIANCE

The following are the components of the remedial system monitoring:

REMEDIAL SYSTEM COMPONENTS			
SSDS Component	**Monitoring Parameter**	**Operating Range**	**Monitoring Schedule**
Blower	On or Off	--	Quarterly[1]
Blower	Flow Rate	100 - 200 CFM	Annual
Magnehelic Gauge	Vacuum	1 – 4 in. W.C.	Annual
Alarm	Operation Check	--	Quarterly[1]
General Piping (System Leaks)	Audible/Visual	--	Quarterly
Sub-Slab	Vacuum	0.003 to 1 in. W.C.	Annual

[1] = More frequent monitoring performed by facility personnel. Audible alarm will sound if blower fails.

The following are the components of the post-remediation media monitoring and sampling:

POST-REMEDIATION MEDIA MONITORING/SAMPLING COMPONENTS		
Sampling Location	**Analytical Parameters**	**Schedule**
Monitoring Wells (MW-1, MW-2, MW-3, MW-8, and MW-10)	VOCs via USEPA Method 8260	Annual
Sub-Slab Soil Vapor[1]	Monitoring Only for Vacuum	Annual for 3 heating seasons
Indoor Air[1]	VOCs via USEPA Method TO-15	Annual for 3 heating seasons
Ambient Air[1]	VOCs via USEPA Method TO-15	Annual for 3 heating seasons

[1] = Following the three sampling events, a comparison of the collected operational parameters will be made to the exhaust blower operational parameters (air flow, riser vacuum) such that moving forward only blower operational parameters are needed to be collected as sampling is not recommended if the system has been installed properly and is maintaining a vacuum beneath the slab.

5.1 Summary of Monitoring/Sampling Completed

The following is a summary of the monitoring and sampling completed during the reporting period.

5.1.1 Cover and General Systems Inspections

The location and details of the Site cover system are depicted on **Figure 2**. Monitoring of the Site cover system is required on an annual basis; however, evaluations were also conducted by LKB during the quarterly inspections conducted in March 2024, June 2024, and September 2024, in addition to the site-wide inspection in December 2024. Monitoring included a visual inspection to ensure the system's integrity. Site Inspection Forms are included in **Appendix B**. The following provides a summary of the key findings during the inspections.

COVER SYSTEM INSPECTION SUMMARY		
Date	**Observations**	**Remedy (if warranted)**
03/19/2024	The first floor Shake Shack tenant space was under construction with minimal building renovations occurring in the basement under the tenant space (southwestern portion). According to site contact, no slab penetrations were to occur, only overhead (ceiling renovations). In addition, electrical work was being completed in the former Rite Aid space (southeastern portion) along the southern walls. The basement tenant storage rooms formerly occupied by Rite Aid (southeastern portion) was vacant.	N/A
06/13/2024	Additional electrical equipment was observed staged within the former Rite Aid (southeastern portion) of the site building. No basement interior renovations were occurring at the time of inspection. The basement tenant storage room formerly occupied by Rite Aid (southeastern portion) was vacant. Sub-slab monitoring point 2 was missing a protective cap for the point.	Based on the system vacuum readings for sub-slab monitoring point 2, the lack of a cap did not impact the integrity of the point. The cap was replaced for the monitoring point in December 2024.

COVER SYSTEM INSPECTION SUMMARY		
Date	**Observations**	**Remedy (if warranted)**
09/17/2024	A sanitary repair had recently occurred in one of the bathrooms within the basement with an additional bathroom on the schedule later in the week. The repair appeared to be properly sealed. The electrical equipment was moved to its final location within the basement tenant space formerly occupied by Rite Aid (which still remains vacant). The equipment is reinforced via the steel framing on the ceiling and no penetrations to anchor equipment to the floor were apparent. Interior renovations were occurring with LL23, which included replacement of carpet. The sub-slab monitoring 3 was pulled out during this renovation work.	Monitoring point 3 was removed when carpet was installed.
12/10/2024	Minor interior renovations were ongoing within basement, including LL23. The basement tenant space formerly occupied by Rite Aid (southeastern portion) remained vacant.	Monitoring point 3 was reinstalled in December 2024. Based on the vacuum readings taken at this point, the reinstalled sub-slab point's integrity was not affected.

Based on the findings of the various quarterly inspections and the site-wide inspection conducted in December 2024, it was determined that all Site cover system components remain in place, are competent, and are protective of human health and the environment.

5.1.2 Sub-Slab Depressurization System

Figure 3 depicts the location of the SSDS installed at the Site. The following provides a summary of the SSDS component and Site condition monitoring completed during this reporting period.

SSDS COMPONENT MONITORING				
SSDS Component	**Monitoring Parameter**	**Operating Range**	**Inspection Date**	**Findings**
Blower	On or Off	--	03/19/2024 06/13/2024 09/17/2024 12/10/2024	On On On On
Blower	Flow Rate	100 - 200 CFM	12/10/2024	130 CFM(1)

SSDS COMPONENT MONITORING				
SSDS Component	**Monitoring Parameter**	**Operating Range**	**Inspection Date**	**Findings**
Magnehelic Meter #1	Vacuum	1 – 4 in. W.C.	12/10/2024	1.5 in. W.C.
Magnehelic Meter #2	Vacuum	1 – 4 in. W.C.	12/10/2024	2.0 in. W.C.
Magnehelic Meter #3	Vacuum	1 – 4 in. W.C.	12/10/2024	3.0 in. W.C.
Magnehelic Meter #4	Vacuum	1 – 4 in. W.C.	12/10/2024	2.5 in. W.C.
Alarm	Operational, Yes or No	--	03/19/2024 06/13/2024 09/17/2024 12/10/2024	Yes Yes Yes Yes
General Piping (System Leaks)	Audible/Visual	--	03/19/2024 06/13/2024 09/17/2024 12/10/2024	None None None None

In. W.C.: Inches of Water Column
CFM: Cubic Feet per Minute
(1) Based on blower curve and vacuum readings

SYSTEM OPERATION DATA – SUB-SLAB					
Monitoring Point	**Monitoring Parameter**	**Operating Range**	**Inspection Date**	**Findings**	**PID Reading (ppm)**
Sub-Slab #1	Vacuum	0.003 to 1 in. W.C.	12/10/2024	0.011 in. W.C.	0.0
Sub-Slab #2	Vacuum	0.003 to 1 in. W.C.	12/10/2024	0.080 in. W.C.	0.0
Sub-Slab #3	Vacuum	0.003 to 1 in. W.C.	12/10/2024	0.073 in. W.C.	0.0
Sub-Slab #4	Vacuum	0.003 to 1 in. W.C.	12/10/2024	0.065 in. W.C.	0.0
Sub-Slab #5	Vacuum	0.003 to 1 in. W.C.	12/10/2024	0.086 in. W.C.	0.0
Sub-Slab #6	Vacuum	0.003 to 1 in. W.C.	12/10/2024	0.045 in. W.C.	0.0
Sub-Slab #7	Vacuum	0.003 to 1 in. W.C.	12/10/2024	0.014 in. W.C.	0.0
Sub-Slab #8	Vacuum	0.003 to 1 in. W.C.	12/10/2024	0.083 in. W.C.	0.0

SYSTEM OPERATION DATA – SUB-SLAB					
Monitoring Point	**Monitoring Parameter**	**Operating Range**	**Inspection Date**	**Findings**	**PID Reading (ppm)**
Sub-Slab #9	Vacuum	0.003 to 1 in. W.C.	12/10/2024	0.068 in. W.C.	0.0
Sub-Slab #10	Vacuum	0.003 to 1 in. W.C.	12/10/2024	0.111 in. W.C.	0.0

PID: Photoionization detector
PPM: Parts per Million
In. W.C.: Inches of Water Column

5.1.3 Groundwater Sampling (December 2024)

The groundwater sampling event on December 10, 2024 began with groundwater level measurements from all monitoring wells (MW-1 to MW-10) using a product/water interface probe. No odors or light non-aqueous phase liquid (LNAPL) were detected in the monitoring wells. Depth to water in MW-4 was not measurable as a blockage was encountered. The following table provides a summary of the monitoring well construction details and groundwater elevation information.

MONITORING WELL CONSTRUCTION AND ELEVATION INFORMATION – DECEMBER 2024								
Well ID	**Well Diameter (inches)**	**Latitude (1)**	**Longitude (1)**	**Total Well Depth(2) (feet bgs)**	**Screened Interval (feet bgs)**	**Top of Casing Elevation (feet msl)**	**Depth to Water (feet TOC)**	**Groundwater Elevation (feet msl)**
MW-1	1	40.74961	73.88364	33.78	23.85 – 33.85	58.62	30.60	28.02
MW-2	1	40.75001	73.88430	37.99	27.99 – 37.99	60.18	32.33	27.85
MW-3	1	40.75015	73.88350	38.23	28.32 – 38.32	58.78	30.81	27.97
MW-4	1	40.75029	73.99340	37.32	27.35 – 37.35	59.68	--	--
MW-5	1	40.74996	73.88334	38.80	28.80 – 38.80	58.19	30.11	28.08
MW-6	2	40.75004	73.88428	39.50	28.50 – 39.50	60.25	32.60	27.65
MW-7	2	40.74982	73.88420	40.49	30.49 – 40.49	59.19	31.92	27.27
MW-8	2	40.74995	73.88346	37.97	27.97 – 37.97	58.22	30.29	27.93

MONITORING WELL CONSTRUCTION AND ELEVATION INFORMATION – DECEMBER 2024								
Well ID	**Well Diameter (inches)**	**Latitude (1)**	**Longitude (1)**	**Total Well Depth(2) (feet bgs)**	**Screened Interval (feet bgs)**	**Top of Casing Elevation (feet msl)**	**Depth to Water (feet TOC)**	**Groundwater Elevation (feet msl)**
MW-9	2	40.75007	73.88429	39.66	29.66 – 39.66	60.57	32.84	27.73
MW-10	2	40.75016	73.88358	29.21	19.21 – 29.21	49.07	21.02	28.05

(1) World Geodetic System (WGS) 1984 geographic coordinate system (datum)
(2) Installed total depth
feet bgs – feet below ground surface
msl – mean sea level

Based on the surveyed elevations of the monitoring wells and most recent groundwater elevation data, groundwater flow at the Site is from east / northeast to the southwest. A groundwater contour map for the December 2024 sampling event is included as **Figure 4**.

Groundwater sampling is performed annually to assess the performance of the natural attenuation remedy, to determine if an off-site source remains and is increasing or decreasing in concentration, and to determine if the operation of the SSDS is affecting the groundwater concentrations. In accordance with the SMP, the network of on-site monitoring wells sampled as part of the annual monitoring included MW-1 (cross-gradient), MW-2 (down-gradient), MW-3 (up-gradient), MW-8 (up-gradient), and MW-10 (up-gradient).

Purging of the one-inch diameter wells (MW-1, MW-2, and MW-3) prior to sampling was conducted using dedicated high-density polyethylene (HDPE) tubing and a bladder pump and purging of the two-inch diameter wells (MW-8 and MW-10) prior to sampling was conducted using dedicated high-density polyethylene (HDPE) tubing and a submersible pump. Field parameters measured during the purging consisted of pH, specific conductance, oxidation-reduction potential (ORP), temperature, dissolved oxygen, and turbidity. A copy of the groundwater field sampling forms is included in **Appendix C**. Sample collection was conducted following a three well volume purge.

Groundwater samples were collected in laboratory-provided containers and submitted under proper chain-of-custody procedures to Alpha Analytical, Inc. (Alpha) in Westborough, Massachusetts (New York Environmental Laboratory Approval Program [ELAP] No. 11627). All groundwater samples were grab samples and were analyzed for VOCs via United States Environmental Protection Agency (USEPA) Method 8260. For quality assurance/quality control (QA/QC) purposes one field duplicate, one trip blank, and one field blank were collected and analyzed for VOCs via USEPA Method 8260.

Purge development water generated during the groundwater sampling event was placed into a sealed and labeled U.S. Department of Transportation (DOT)-approved 55-gallon drum for off-site disposal at a permitted facility. LKB coordinated for the removal and disposal of one drum of non-hazardous groundwater from the Site. In March 2025, the drum was transported off-site to Republic Environmental Systems (PA), LLC in Hatfield, Pennsylvania for disposal as non-hazardous waste. A copy of the waste disposal manifest is included in **Appendix D**.

Disposable sampling equipment including spoons, gloves, bags, paper towels, etc. that came in contact with environmental media was double bagged and disposed as municipal trash in a facility trash dumpster as general refuse.

5.1.3.1 Groundwater Analytical Results (December 2024)

The results of the groundwater samples analyses were compared to the AWQS and Class GA. Review of the groundwater analytical results identified the following:

CONSTITUENTS IN GROUNDWATER IN EXCESS OF NYSDEC STANDARDS		
Sample Location	**Constituents >AWQS/Class GA (concentration in ug/L)**	**AWQS/Class GA (standard in ug/L)**
MW-1	cis-DCE (5.8) PCE (130)	**cis-DCE (5)** **PCE (5)**
MW-2	No compounds	**-----**
MW-3	PCE (120)	**PCE (5)**
MW-8	PCE (140)	**PCE (5)**
MW-10	PCE (180)	**PCE (5)**
Field Blank	No compounds	**-----**
Trip Blank	No compounds	**-----**

ug/L = microgram per liter

Table 1 summarizes the December 2024 groundwater sampling results for the permanent monitoring wells. The groundwater results for the CVOC contaminants of concern are depicted on **Figure 5**. The laboratory data package for the December 2024 groundwater sampling is provided as **Appendix E**.

Mann-Kendall statistical analysis was run on the groundwater data for PCE, TCE, and c-DCE for MW-1, MW-3, MW-8 and MW-10. For MW-8 and MW-10, insufficient rounds of data have been collected to perform the analysis. For MW-1 and MW-3 the following resulted:

- PCE, TCE, and c-DCE @ MW-1 all resulted in a statistically decreasing trend with a high confidence factor.
- PCE, TCE, and c-DCE @ MW-3 all resulted in either a no trend or stable trend as a result of a lower confidence factor.

The Mann-Kendall statistical output is provided in **Appendix H**.

5.1.4 Soil Vapor Intrusion Sampling (December 2024)

Soil vapor intrusion sampling (i.e., indoor air sampling) is being performed annually for three consecutive heating seasons to assess the performance of the SSDS remedy. Sampling during this reporting period (2nd annual) was conducted on December 10, 2024. The indoor air samples (IA-1A, IA-3, IA-5, IA-7, IA-9, IA-10, and IA-10 DUP) were co-located with six permanent sub-slab soil vapor monitoring location (sampling points 1A, 3, 5, 7, 9, and 10, as noted on **Figures 3 and 6**) and were positioned to evaluate indoor air quality conditions across the entire Site building footprint. In addition, one ambient air sample (AA-1) was collected on the exterior of the Site building, along 83rd Street. It should be noted that the sample location for IA-3 was moved away from the sub-slab soil vapor monitoring point due to recent renovations in the tenant space and new carpeting noted by LKB at the time of sampling. Sample IA-3 was collected from an occupied office space (Unit LL19), which was located across the hallway from the sub-slab soil vapor monitoring point. The indoor and ambient air sample locations are depicted on **Figure 6**.

Indoor air and ambient air samples were collected via laboratory-supplied, pre-cleaned, stainless-steel 6-Liter Summa canisters over an 8-hour sample duration. The canisters were placed in a location to collect breathing height air (three to five feet above ground surface) and were not placed immediately adjacent to recently completed interior finish materials. Field sampling forms for the basement indoor air/ambient air sampling are included as **Appendix F**.

Indoor and ambient air samples were secured in a shipping container and transported via field courier to Alpha following proper chain-of-custody procedures. All samples were analyzed for VOCs via USEPA Method TO-15. For QA/QC purposes one field duplicate (IA-DUP, collected adjacent to sample IA-10) was collected and analyzed for VOCs via USEPA Method TO-15.

5.1.4.1 Indoor/Ambient Air Analytical Results (December 2024)

To evaluate the potential soil vapor intrusion concerns at the Site, VERTEX has utilized the NYSDOH Soil Vapor/Indoor Air Matrix Guidance and Air Decision Matrices (May 2017, February 2024), which presents decision-making matrices and provides recommended actions based on toxicity data and risk assessments for eight chlorinated volatile compounds and since February 2024, an additional 13 petroleum compounds. The results of the indoor air assessment conducted during the heating season as compared to the NYSDOH matrix criteria lower and upper matrix values are presented in **Table 3**. The results of the first two years of the required three-year indoor air assessment conducted during the heating season as compared to the NYSDOH matrix criteria lower and upper matrix values are presented in **Table 5**. The following is a discussion of the detections above a matrix value. With the exception for the Site groundwater COCs, non-detect values and values not exceeding a matrix value are not discussed further.

BASEMENT INDOOR AIR AND AMBIENT AIR EVALUATION			
Compound	**Lower / Upper Matrix Criteria (ug/m^3)**	**Exceedances**	**Evaluation**
Groundwater Compounds of Concern (PCE, TCE, c-DCE, vinyl chloride)	Varies	None	No COCs exceeded any matrix value.
2,2,4-Trimethylpentane	2 / 10	5 of 6	2,2,4-trimethylpentane was detected in all samples including the ambient sample (1.42 ug/m3). Five of the six indoor air sample detections exceeded the lower matrix value with the highest value being 3.91ug/m3.
Benzene	2 / 10	3 of 6	Benzene was detected in all samples including the ambient sample (1.33 ug/m3). Three of the six indoor air sample detections exceeded the lower matrix value with the highest value being 2.64 ug/m3.
o-Xylene	2 / 10	1 of 6	o-Xylene was detected in five of six samples including the ambient sample (0.938 ug/m3). One of the six indoor air sample detections exceeded the lower matrix value with the highest value being 2.84 ug/m3.

BASEMENT INDOOR AIR AND AMBIENT AIR EVALUATION			
Compound	**Lower / Upper Matrix Criteria (ug/m³)**	**Exceedances**	**Evaluation**
p/m-Xylene	6 / 20	1 of 6	p/m-Xylene was detected in five of six samples including the ambient sample (2.55 ug/m3). One of the six indoor air sample detections exceeded the lower matrix value with the highest value being 6.95 ug/m3.
Carbon Tetrachloride	0.2 / 1	6 of 6 + ambient	Carbon Tetrachloride was detected in all six samples including the ambient sample (0.472 ug/m3). All six indoor air sample detections and the one ambient air sample detection exceeded the lower matrix value with the highest value being 0.516 ug/m3.

ug/m³ – Micrograms per cubic meter

Based on the indoor air results and the fact that no compound exceeded the higher matrix value and that all exceedances of the lower matrix value were also detected in ambient air, none of the detected compounds exceeding the lower matrix value are attributable to vapor intrusion.

The laboratory data package for the December 2024 basement indoor air and ambient air sampling is provided as **Appendix G**.

5.2 Monitoring and Sampling Deficiencies

The following are deficiencies that did not fully comply with the monitoring plan:

- Due to recently completed tenant renovations and concerns sampling where carpeting had been newly installed, indoor air sample IA-3 was moved to a location across the hallway from the associated sub-slab monitoring point. The sample was moved to limit potential background contamination resulting from new carpet.

- Monitoring well MW-4 was dry at the time of the inspection as sediment or a blockage was located at approximately 30.25 ft bgs out of a total installed depth of 37.32 ft bgs. As

a result of the blockage the well was not sampled nor was elevation data collected.

5.3 Monitoring and Sampling Plan Compliance Evaluation

During this reporting period, three quarterly inspections (March, June, and September 2024), and a site-wide inspection with indoor air/ambient air and groundwater sampling (December 2024) were completed.

Groundwater sampling confirmed the primary contaminants of concern are CVOCs, and recent detections in several monitoring wells (MW-1, MW-3, MW-8, and MW-10) remain in exceedance of the AWQS/Class GA. A summary of the historic groundwater analytical data is included in **Table 4**. The highest detection of PCE was identified in monitoring well (MW-10). Review of the indoor air sampling results identified no elevated detections of PCE or associated breakdown products (TCE, c-DCE, vinyl chloride). Comparison of the indoor air data with the new decision matrices for petroleum compounds, no other compounds were identified to result in an indoor air vapor intrusion concern. A summary of the historical indoor/ambient air sampling results is included in **Table 5**.

The ICs remain in place at the Site, restricting groundwater and land use, and the cover system at the Site is intact and is effectively preventing direct exposure to residual contamination in the subsurface environment. The active SSDS continues to operate as installed and is successfully intercepting and venting VOCs that may be generated and accumulate in the subsurface. Overall, the ICs and ECs are performing as designed, are effective in achieving the RAOs for the Site, and are compliant with specifications provided in the SMP. The requirements for discontinuation of the ICs and ECs in connection with Site closure have not been achieved.

6.0 OPERATION AND MAINTENANCE PLAN COMPLIANCE

The O&M Plan provides a description of the measures necessary to operate, monitor, and maintain the mechanical components of the remedy selected for the Site. The active SSDS was constructed to mitigate potential vapor intrusion associated with the documented groundwater and soil vapor impacts at the Site. The SSDS is designed to operate continuously (24 hours a day, seven days a week, 365 days a year). No active interactions are necessary to maintain system operation.

The following are the components for the O&M Plan to be conducted on an annual basis:

- **Site Conditions** – evaluation of the general property conditions; visual inspection of the condition of the concrete slab; screening of sub-slab soil vapor concentrations at monitoring points and risers with a photoionization detector (PID); visual inspection and screening with a PID of slab penetrations; and inspection of the exhaust locations to verify no air intakes have been added to the building.
- **Blower** – visual inspection of the blower to ensure that it is operating as designed with no visible damage; ensure that the fan spins easily, with no excessive vibration or noise; inspect power source; and inspect anti-vibration mounts and rubber transition fittings.
- **Piping** – inspect system pipes, fittings, and rubber seals; listen for leaks; inspect for unauthorized piping connections to the system; inspect exhaust silencer; and inspect Dwyer Minihelic® pressure gauges.
- **Alarm** – test the alarm system.

The system is fitted with an audible and visual beacon alarm that sounds and lights when the system is not functioning properly. Notifications of non-operational statuses are made to LKB by on-site property management/maintenance personnel.

6.1 Summary of O&M Completed

The following is a summary of the O&M completed since the issuance of the Certificate of Completion on December 28, 2022.

O&M SUMMARY		
Date	**Task**	**Work Performed**
12/12/2023	SSDS Inspection	LKB was informed by the on-site maintenance staff that an intermittent alarm condition was triggered on the system. LKB mobilized to the Site to evaluate the alarm and SSDS components. It was determined that the system was operating; however, excessive blower noise was noted. As a result, LKB placed an order for a replacement blower.
01/16/2024	Blower Replacement	LKB mobilized to the Site for replacement of the blower; however, after making the connections, it was determined that the replacement blower motor was defective. As a result, a second replacement blower order was placed. The blower was not in operation at this time.
01/29/2024	Blower Replacement	LKB provided oversight during the replacement of the blower. The new blower is the same as the original (Dayton® high pressure, direct drive, radial blade blower). Following the startup of the new blower, LKB collected vacuum and air flow readings to evaluate the system performance criteria. LKB also testing the alarm to ensure that it was operating properly. Additional information is provided below.
06/13/2024	Slab Maintenance	LKB utilized caulk to seal any cracks that were observed in the northeast portion of the basement tenant space.
12/10/2024	Monitoring Point Repair	LKB reinstalled sub-slab monitoring point 3 and installed new cap on sub-slab monitoring point 2.

6.2 Evaluation of Remedial System

During the site-wide annual inspection in December 2024, no O&M issues were identified regarding the active SSDS.

The following provides a comparison of the monitoring parameters for the SSDS components and site conditions from the baseline/system commissioning (August 2023), site-wide inspection

(November 2023), non-routine inspection/blower replacement (January 2024) and annual site-wide inspection (December 2024).

SSDS COMPONENT/SITE CONDITIONS MONITORING SUMMARY						
SSDS Component	**Monitoring Parameter**	**Operating Range**	**MONITORING DATE**			
			08/25/2023	**11/15/2023**	**01/29/2024**	**12/10/2024**
Blower	Flow Rate	100 - 200 CFM	169	131	120	130 (1)
Magnehelic Meter #1	Vacuum	1 – 4 in. W.C.	1.50	1.50	1.00	1.50
Magnehelic Meter #2	Vacuum	1 – 4 in. W.C.	2.00	2.00	1.50	2.00
Magnehelic Meter #3	Vacuum	1 – 4 in. W.C.	3.25	3.00	4.00	3.00
Magnehelic Meter #4	Vacuum	1 – 4 in. W.C.	2.50	3.00	2.00	2.50
Sub-Slab #1	Vacuum	0.003 to 1 in. W.C.	0.011	0.029	0.007	0.011
Sub-Slab #2	Vacuum	0.003 to 1 in. W.C.	0.060	0.100	0.067	0.080
Sub-Slab #3	Vacuum	0.003 to 1 in. W.C.	0.040	0.078	0.046	0.073
Sub-Slab #4	Vacuum	0.003 to 1 in. W.C.	0.229	0.250	0.118	0.065
Sub-Slab #5	Vacuum	0.003 to 1 in. W.C.	0.070	0.108	0.048	0.086
Sub-Slab #6	Vacuum	0.003 to 1 in. W.C.	0.178	----	0.111	0.045
Sub-Slab #7	Vacuum	0.003 to 1 in. W.C.	0.009	0.026	0.007	0.014
Sub-Slab #8	Vacuum	0.003 to 1 in. W.C.	0.014	0.163	0.025	0.083
Sub-Slab #9	Vacuum	0.003 to 1 in. W.C.	0.075	0.076	0.088	0.068
Sub-Slab #10	Vacuum	0.003 to 1 in. W.C.	0.078	0.118	0.054	0.111

(1) Based on blower curve and vacuum readings

Based on the sub-slab readings and ventilation system readings, the system continues to operate as designed. Flow rates and vacuum readings vary throughout the year. This variation is likely the result of soil moisture caused by varying water table elevations during storm events.

6.3 O&M Deficiencies

The O&M of the remedial system was conducted in accordance with the SMP during this reporting period. The following O&M deficiency was noted:

- No deficiencies were noted that affect the SSDS performance.

6.4 O&M Plan Compliance Evaluation

Inspections and the replacement of the active SSDS blower were completed, and the data collected indicated that the system is operating within design parameters during the reporting period. The active SSDS continues to successfully intercept and vent VOCs that may be generated and accumulate in the subsurface. The requirements for discontinuation of the SSDS operation in connection with Site closure have not been achieved.

7.0 OVERALL PERIODIC REVIEW REPORT CONCLUSIONS AND RECOMMENDATIONS

7.1 Compliance with Site Management Plan

No areas of non-compliance with the SMP (i.e., IC/EC Plan, Monitoring and Sampling Plan and/or O&M Plan) were identified during the reporting period.

7.2 Performance and Effectiveness of Remedy

The ICs and ECs are performing as designed, are effective in achieving the RAOs for the Site, and are compliant with specifications provided in the SMP.

7.3 Future Periodic Review Report Submittal

The requirements for discontinuation of the ICs and ECs in connection with Site closure have not been achieved. PRR submittals will remain annual at this time, and the next submittal will be April 2026.

7.4 Recommendations

LKB recommends adjusting groundwater sampling to once every 15 months as it has been shown that concentrations in MW-1 are decreasing with high confidence and concentrations in MW-3 are stable or show no trend. Sampling every 15 months will allow for seasonal variation in the data.

LKB recommends and requests that the groundwater analysis be limited to compounds recently detected that have exceeded Class GA groundwater standards or are considered to be

breakdown compounds of the Site COCs. It is recommended that groundwater analysis be limited to the following compounds:

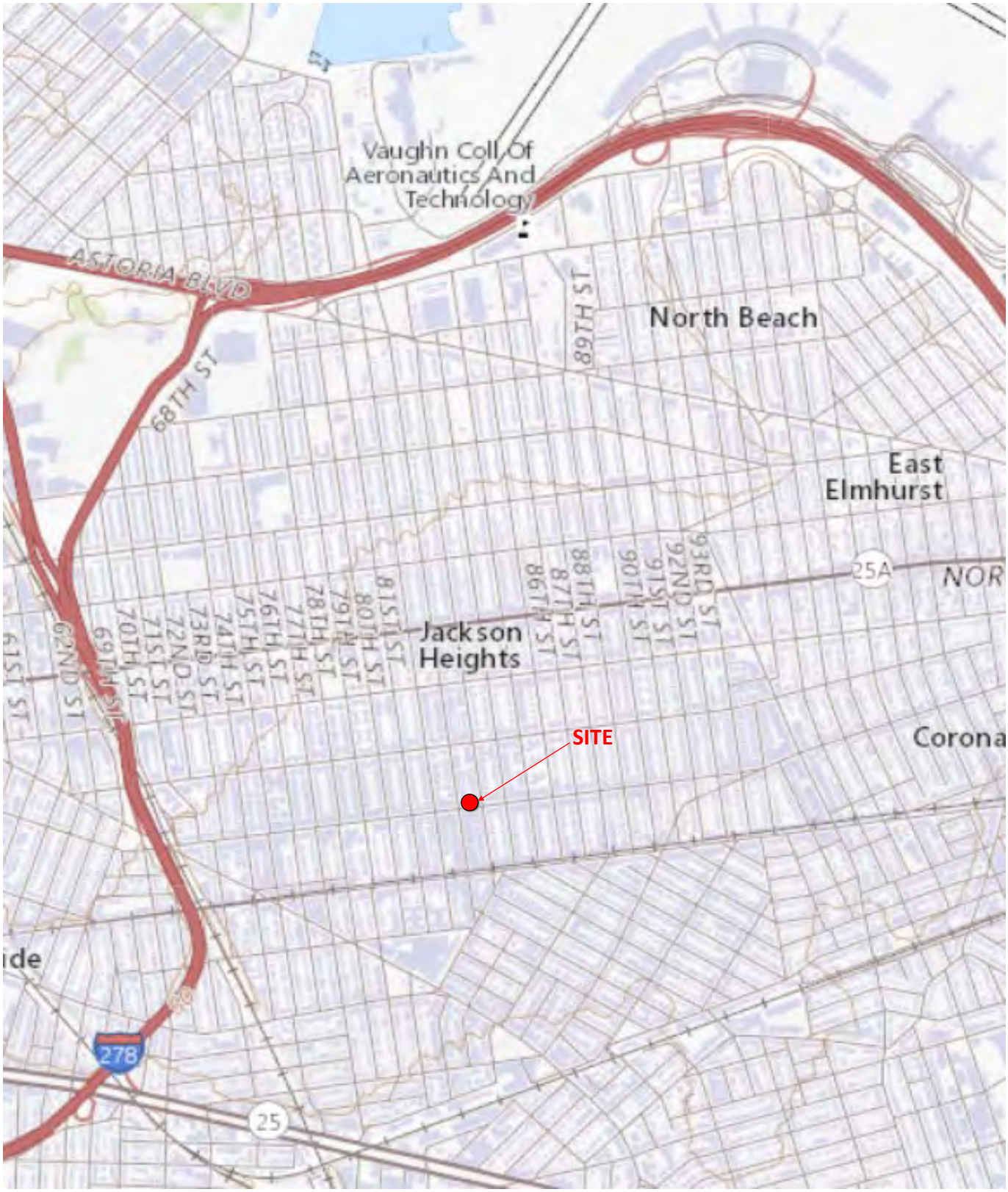
- Tetrachloroethene (PCE)
- Trichloroethene (TCE)
- Cis,1,2-Dichloroethene (c-DCE)
- Vinyl Chloride

LKB recommends and requests that the indoor air analysis be limited to only the COCs detected in the Site groundwater:

- PCE
- TCE
- c-DCE
- vinyl chloride

LKB recommends investigating the cause of the blockage in MW-4 to determine if it can be easily remedied.

FIGURES



LKB Project No. 10172.LK

N

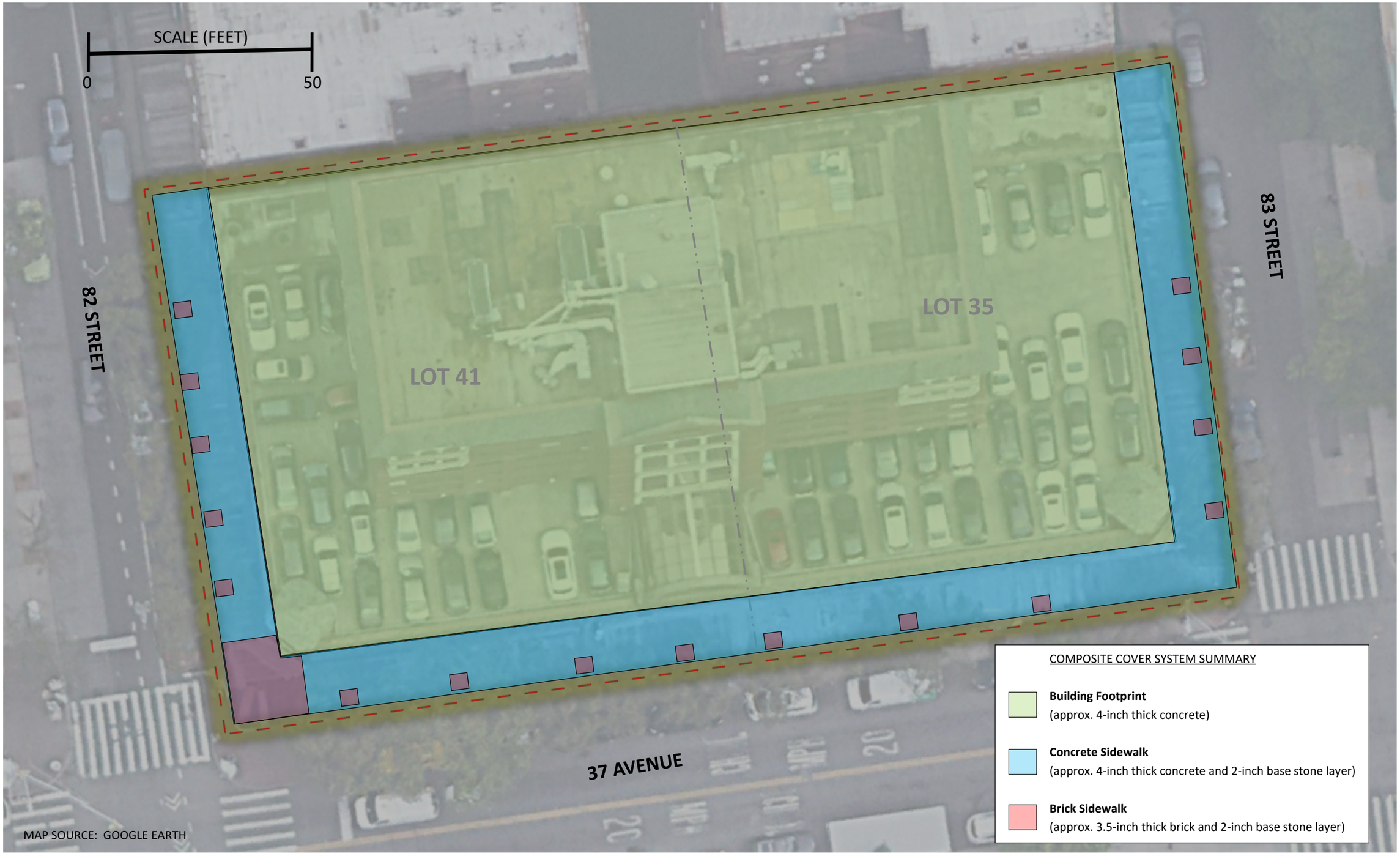
SITE LOCATION MAP

Rockfarmer 37th Avenue
82-13 37th Avenue
Jackson Heights, Queens County, New York

USGS Topographic Map, Brooklyn, NY (2013); Scale 1:24,000

LKB A VERTEX COMPANY
ENGINEERING EXCELLENCE SINCE 1889

FIGURE NO. 1



N

Site Boundary

Institutional Control Boundary

INSTITUTIONAL AND ENGINEERING CONTROLS MAP

82-13 37th Avenue
Jackson Heights, Queens County, New York

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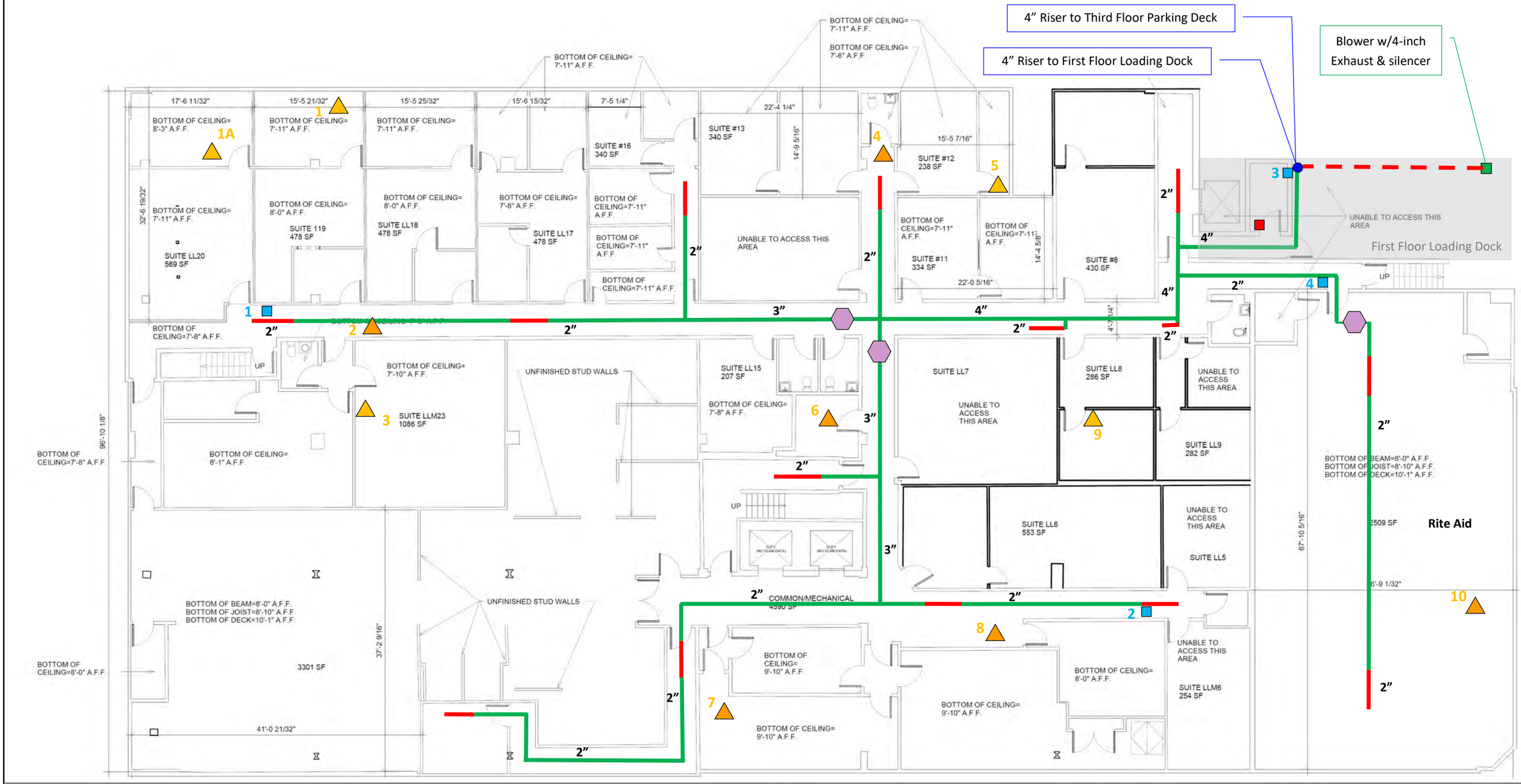
FIGURE NO. 2

LKB Project No. 10172.LK



2" slotted PVC well screen (0.020") , 5 ft lengths, with socks, set in 3/4 inch clean stone, cap ends of each piping run.

2", 3" and 4" Sch 40 PVC below-grade piping

4" Sch 40 Steel above-grade piping

Sub-Slab Monitoring Point

Floor Valve

Blower

Pipe Run Vacuum Gauge

Alarm

Map Source: *Existing Basement Floor Plan*, Existing Conditions Surveys Inc., 11/30/2017

SCALE: 1" = 13.5' when printed 11"x17"

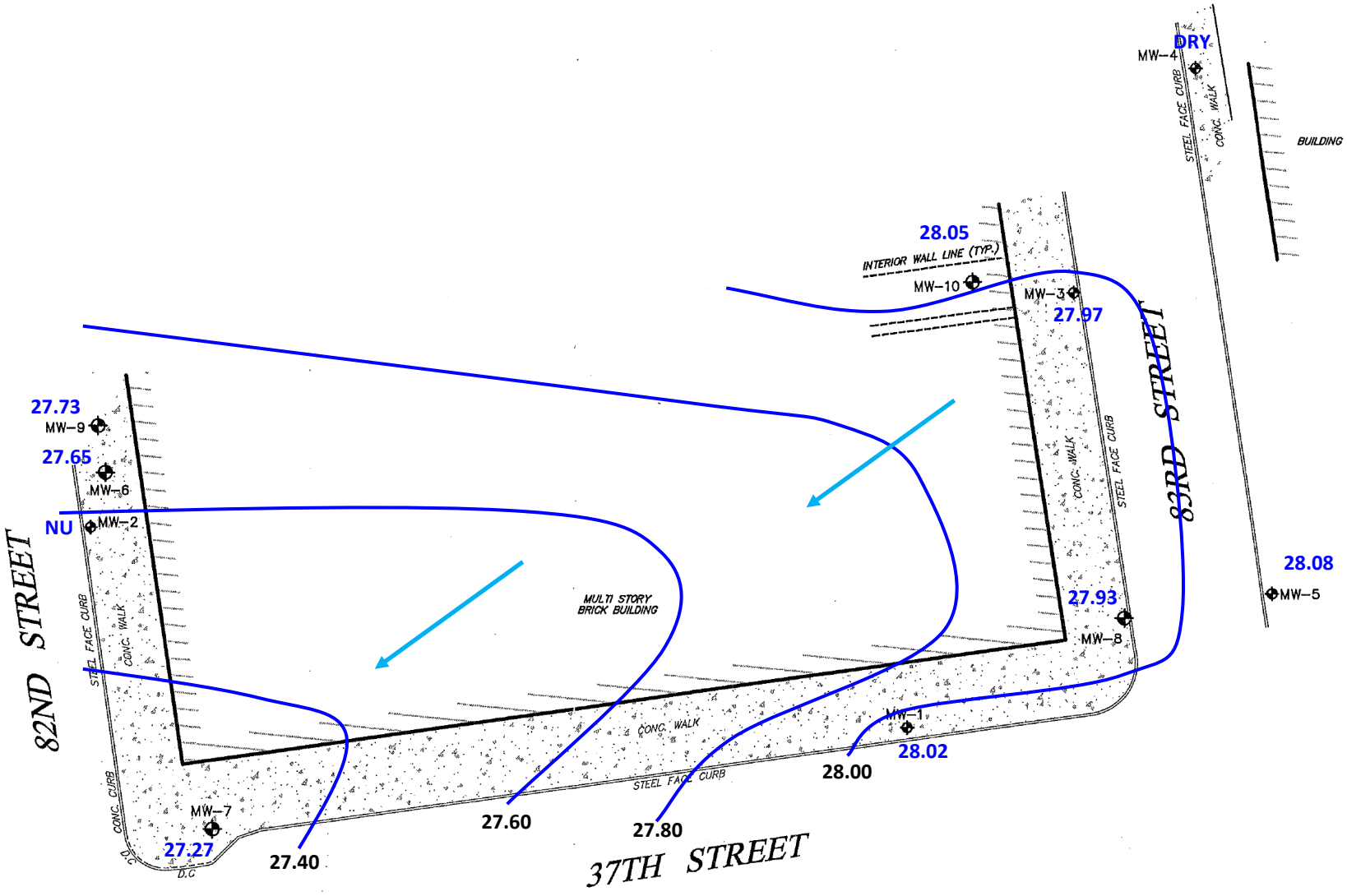
SUB-SLAB DEPRESSURIZATION SYSTEM LAYOUT

82-13 37th Avenue
Jackson Heights, Queens County, New York

LKB A VERTEX COMPANY ENGINEERING EXCELLENCE SINCE 1889

FIGURE 3

LKB Project No. 10172.LK



GROUNDWATER CONTOUR MAP—DECEMBER 10, 2024

82-13 37TH AVENUE
JACKSON HEIGHTS, QUEENS COUNTY, NEW YORK

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FIGURE NO. 4

LKB Project Number
10172.LK

	AWQS/Class GA
1,2,4,5-TMB — 1,2,4,5-Tetramethylbenzene	5
1,2,4-TMB — 1,2,4-Trimethylbenzene	5
1,3,5-TMB — 1,3,5-Trimthylbenzene	5
Carbon Tetra — Carbon Tetrachloride	5
cis-1,2-DCE — cis-1,2-Dichloroethene	5
Ethylbenzene — Ethylbenzene	5
IsopropyB — Isopropylbenzene	5
n-propylB — n-Propylbenzene	5
Naphthalene — Naphthalene	10
PCE — Tetrachloroethene	5
trans-1,2-DCE — Trans-1,2-Dichloroethene	5
TCE — Trichloroethene	5
VC — Vinyl Chloride	2

CONCENTRATIONS PROVIDED IN MICROGRAMS PER LITER (UG/L)
BOLD & HIGHLIGHTED = CONCENTRATION EXCEEDS NYSDEC STANDARD

MW-9	
	4/9/2020
1,2,4,5-TMB	**21**
1,2,4-TMB	2.7
1,3,5-TMB	ND
Carbon Tetra	ND
cis-1,2-DCE	ND
Ethylbenzene	**29**
IsopropyB	**6.9**
n-propylB	**12**
Naphthalene	**63**
PCE	0.33
trans-1,2-DCE	ND
TCE	ND
VC	0.09

MW-10			
	4/9/2020	11/15/2023	12/10/2024
1,2,4,5-TMB	**14**	ND	ND
1,2,4-TMB	**46**	ND	ND
1,3,5-TMB	**17**	ND	ND
Carbon Tetra	0.3	ND	ND
cis-1,2-DCE	ND	**7.6**	3.4
Ethylbenzene	ND	ND	ND
IsopropyB	ND	ND	ND
n-propylB	ND	ND	ND
Naphthalene	**11**	ND	ND
PCE	**24**	**170**	**180**
trans-1,2-DCE	ND	ND	ND
TCE	0.68	**5.4**	4.1
VC	ND	ND	ND

MW-4			
	3/13/2019	6/12/2019	4/9/2020
1,2,4,5-TMB	ND	ND	ND
1,2,4-TMB	ND	ND	ND
1,3,5-TMB	ND	ND	ND
Carbon Tetra	ND	ND	ND
cis-1,2-DCE	ND	ND	ND
Ethylbenzene	ND	ND	ND
IsopropyB	ND	ND	ND
n-propylB	ND	ND	ND
Naphthalene	ND	ND	ND
PCE	**38**	**35**	**17**
trans-1,2-DCE	ND	ND	ND
TCE	0.96	1	0.9
VC	ND	ND	ND

MW-3					
	3/13/2019	6/12/2019	4/9/2020	11/15/2023	12/10/2024
1,2,4,5-TMB	ND	ND	ND	ND	ND
1,2,4-TMB	ND	ND	ND	ND	ND
1,3,5-TMB	ND	ND	ND	ND	ND
Carbon Tetra	ND	0.36	0.28	ND	ND
cis-1,2-DCE	2.6	1.9	1.7	**5.3**	1.8 J
Ethylbenzene	ND	ND	ND	ND	ND
IsopropyB	ND	ND	ND	ND	ND
n-propylB	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND
PCE	**110**	**70**	**50**	**210**	**120**
trans-1,2-DCE	ND	ND	ND	ND	ND
TCE	2.4	1.9	1.8	**5.4**	2.8
VC	ND	ND	ND	ND	ND

MW-6	
	4/9/2020
1,2,4,5-TMB	**16**
1,2,4-TMB	ND
1,3,5-TMB	ND
Carbon Tetra	ND
cis-1,2-DCE	ND
Ethylbenzene	ND
IsopropyB	2.6
n-propylB	**5.3**
Naphthalene	**21**
PCE	0.58
trans-1,2-DCE	ND
TCE	ND
VC	ND

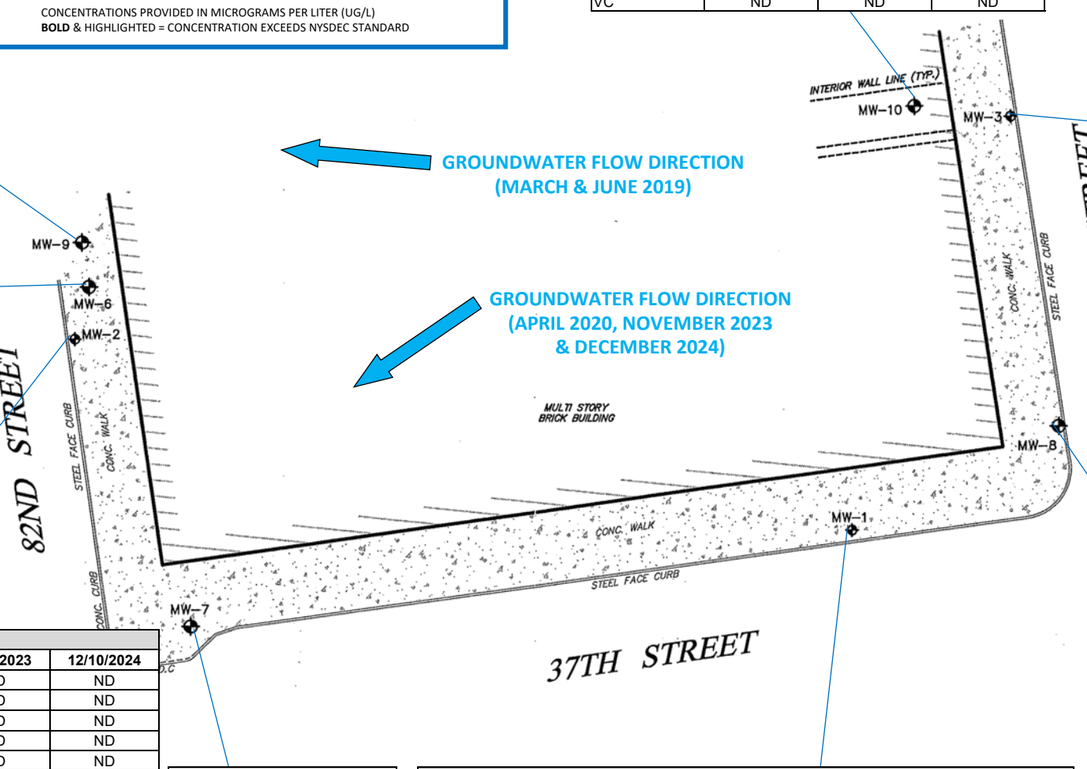
MW-5			
	3/13/2019	6/12/2019	4/9/2020
1,2,4,5-TMB	ND	ND	ND
1,2,4-TMB	ND	ND	ND
1,3,5-TMB	ND	ND	ND
Carbon Tetra	ND	ND	ND
cis-1,2-DCE	1.7	2.5	2.8
Ethylbenzene	ND	ND	ND
IsopropyB	ND	ND	ND
n-propylB	ND	ND	ND
Naphthalene	ND	ND	ND
PCE	**76**	**100**	**87**
trans-1,2-DCE	ND	ND	ND
TCE	1.6	2.6	2.5
VC	ND	ND	ND

MW-2					
	3/13/2019	6/12/2019	4/9/2020	11/15/2023	12/10/2024
1,2,4,5-TMB	ND	ND	ND	ND	ND
1,2,4-TMB	ND	ND	ND	ND	ND
1,3,5-TMB	ND	ND	ND	ND	ND
Carbon Tetra	ND	ND	ND	ND	ND
cis-1,2-DCE	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND
IsopropyB	ND	ND	ND	ND	ND
n-propylB	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND
PCE	0.56	0.62	3.5	0.31 J	0.33 J
trans-1,2-DCE	ND	ND	ND	ND	ND
TCE	ND	ND	ND	ND	ND
VC	ND	ND	ND	ND	ND

MW-7	
	4/9/2020
1,2,4,5-TMB	ND
1,2,4-TMB	ND
1,3,5-TMB	ND
Carbon Tetra	ND
cis-1,2-DCE	ND
Ethylbenzene	ND
IsopropyB	ND
n-propylB	ND
Naphthalene	1.1
PCE	1.2
trans-1,2-DCE	ND
TCE	ND
VC	ND

MW-1					
	3/13/2019	6/12/2019	4/9/2020	11/15/2023	12/10/2024
1,2,4,5-TMB	ND	ND	ND	ND	ND
1,2,4-TMB	ND	ND	ND	ND	ND
1,3,5-TMB	ND	ND	ND	ND	ND
Carbon Tetra	ND	ND	ND	ND	ND
cis-1,2-DCE	**57**	**42**	**18**	**13**	**5.8**
Ethylbenzene	ND	ND	ND	ND	ND
IsopropyB	ND	ND	ND	ND	ND
n-propylB	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND
PCE	**420**	**310**	**140**	**160**	**130**
trans-1,2-DCE	ND	ND	ND	ND	ND
TCE	**11**	**11**	**5.8**	**5.2**	3.8
VC	ND	ND	ND	ND	NS

MW-8			
	4/9/2020	11/15/2023	12/10/2024
1,2,4,5-TMB	ND	ND	ND
1,2,4-TMB	ND	ND	ND
1,3,5-TMB	ND	ND	ND
Carbon Tetra	ND	ND	ND
cis-1,2-DCE	3.5	**12**	1.5 J
Ethylbenzene	ND	ND	ND
IsopropyB	ND	ND	ND
n-propylB	ND	ND	ND
Naphthalene	ND	ND	ND
PCE	**130**	**250**	**140**
trans-1,2-DCE	ND	ND	ND
TCE	3.6	**7.6**	2.7
VC	ND	ND	ND



GRAPHIC SCALE
30 0 15 30
(IN FEET)

Map Source: *Monitoring Well Location Map*, DPK Land Surveying, LLC, 03/26/2019

GROUNDWATER RESULTS MAP—VOC EXCEEDANCES

82-13 37TH AVENUE
JACKSON HEIGHTS, QUEENS COUNTY, NEW YORK

LKB A VERTEX COMPANY — ENGINEERING EXCELLENCE SINCE 1889

FIGURE NO. 5

LKB Project No. 10172.LK

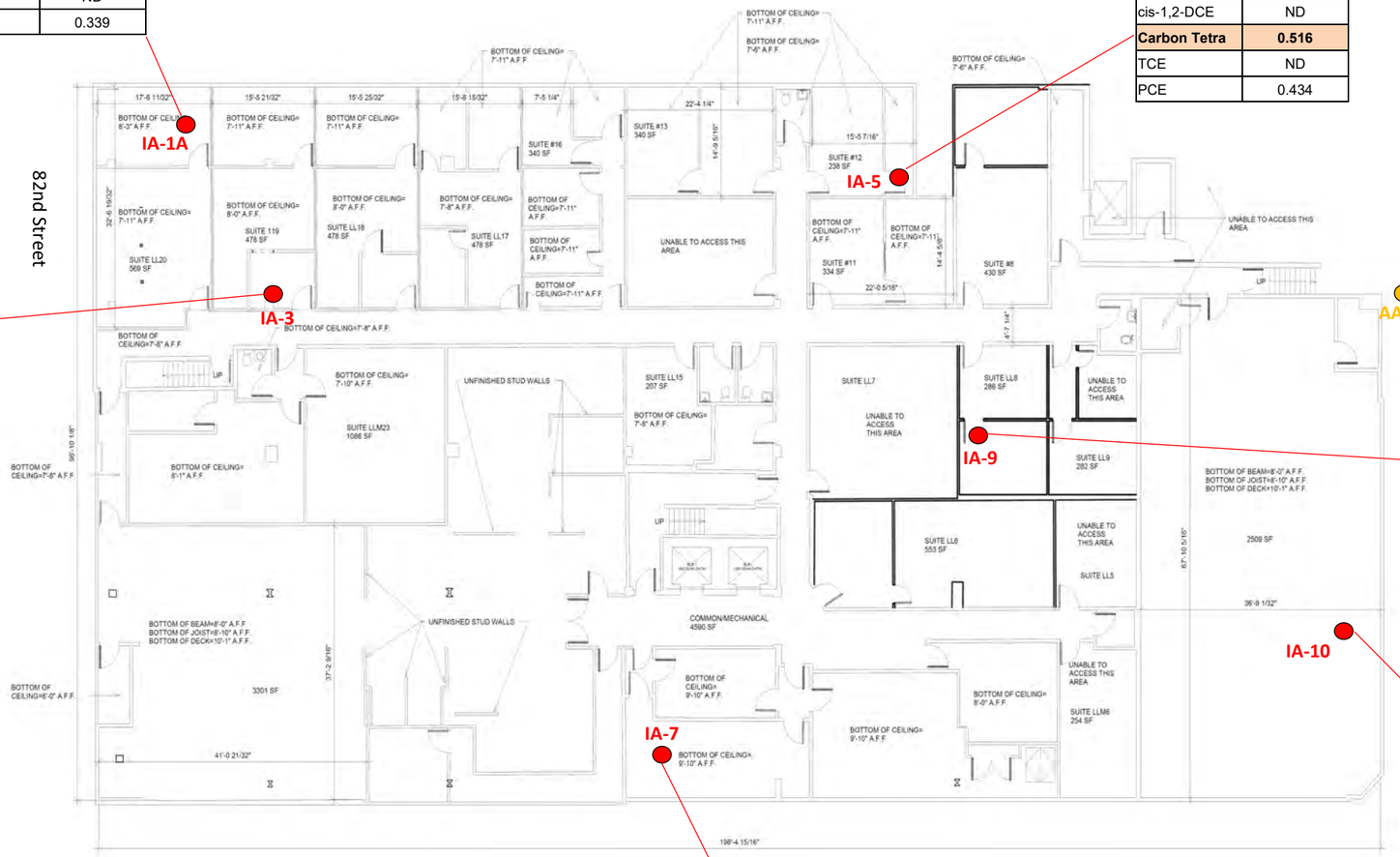
IA-1A	
12/10/2024	
VC	ND
1,1,1-TCE	ND
cis-1,2-DCE	ND
Carbon Tetra	**0.478**
TCE	ND
PCE	0.339

IA-5	
12/10/2024	
VC	ND
1,1,1-TCE	ND
cis-1,2-DCE	ND
Carbon Tetra	**0.516**
TCE	ND
PCE	0.434

AA-1	
12/10/2024	
VC	ND
1,1,1-TCE	ND
cis-1,2-DCE	ND
Carbon Tetra	**0.472**
TCE	ND
PCE	0.38

IA-3	
12/10/2024	
VC	ND
1,1,1-TCE	ND
cis-1,2-DCE	ND
Carbon Tetra	**0.484**
TCE	ND
PCE	0.325

IA-9	
12/10/2024	
VC	ND
1,1,1-TCE	ND
cis-1,2-DCE	ND
Carbon Tetra	**0.459**
TCE	ND
PCE	0.325



IA-10	
12/10/2024	
VC	ND
1,1,1-TCE	ND
cis-1,2-DCE	ND
Carbon Tetra	**0.472**
TCE	ND
PCE	0.366

IA-DUP	
12/10/2024	
VC	ND
1,1,1-TCE	ND
cis-1,2-DCE	ND
Carbon Tetra	**0.478**
TCE	ND
PCE	0.373

IA-7	
12/10/2024	
VC	ND
1,1,1-TCE	ND
cis-1,2-DCE	ND
Carbon Tetra	**0.497**
TCE	ND
PCE	0.759

INDOOR AIR

		Matrix Criteria (ug/m3)	NYSDOH Guidance (ug/m3)
VC	Vinyl chloride	**0.2**	**NA**
1,1,1-TCE	1,1,1-Trichloroethane	**3**	**NA**
cis-1,2-DCE	cis-1,2-Dichloroethene	**0.2**	**NA**
Carbon Tetra	Carbon tetrachloride	**0.2**	**NA**
TCE	Trichloroethene	**0.2**	**30**
PCE	Tetrachloroethene	**3**	**2**

All concentrations presented in micrograms per cubic meter (ug/m3)
ND = Not detected
Bold & Highlighted = Concentration exceeds criteria

LEGEND

- INDOOR AIR SAMPLE LOCATION
- AMBIENT AIR SAMPLE LOCATION

SCALE (FEET)
0 25

Map Source: *Existing Basement Floor Plan*, Existing Conditions Surveys Inc., 11/30/2017

INDOOR/AMBIENT AIR RESULTS MAP

82-13 37TH AVENUE
JACKSON HEIGHTS, QUEENS COUNTY, NEW YORK

LKB A VERTEX COMPANY ENGINEERING EXCELLENCE SINCE 1889

FIGURE NO. 6

LKB Project No. 10172.LK

TABLES

Table 1
Groundwater Analytical Results December 2024
Rockfarmer 37th Avenue - NYSDEC Site No. C241212

SAMPLE ID:		MW-1				MW-2				MW-3				MW-3-DUPLICATE				MW-8				MW-10				FIELD BLANK				TRIP BLANK			
LAB ID:	NY-AWQS/	L2472578-01				L2472578-02				L2472578-03				L2472578-04				L2472578-05				L2472578-06				L2472578-07				L2472578-08			
COLLECTION DATE:	CLASS GA	12/10/2024				12/10/2024				12/10/2024				12/10/2024				12/10/2024				12/10/2024				12/10/2024				12/10/2024			
ANALYTE	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																																	
1,1,1,2-Tetrachloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,1,1-Trichloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,1,2,2-Tetrachloroethane	**5**	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17
1,1,2-Trichloroethane	**1**	ND		1.5	0.5	ND		1.5	0.5	ND		1.5	0.5	ND		1.5	0.5	ND		1.5	0.5	ND		1.5	0.5	ND		1.5	0.5	ND		1.5	0.5
1,1-Dichloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,1-Dichloroethene	**5**	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17
1,1-Dichloropropene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,3-Trichlorobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,3-Trichloropropane	**0.04**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,4,5-Tetramethylbenzene	**5**	ND		2	0.54	ND		2	0.54	ND		2	0.54	ND		2	0.54	ND		2	0.54	ND		2	0.54	ND		2	0.54	ND		2	0.54
1,2,4-Trichlorobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,4-Trimethylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2-Dibromo-3-chloropropane	**0.04**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2-Dibromoethane	**0.0006**	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65
1,2-Dichlorobenzene	**3**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2-Dichloroethane	**0.6**	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13
1,2-Dichloroethene, Total	**NS**	5.8		2.5	0.7	ND		2.5	0.7	1.8	J	2.5	0.7	1.8	J	2.5	0.7	1.5	J	2.5	0.7	3.4		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2-Dichloropropane	**1**	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14
1,3,5-Trimethylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,3-Dichlorobenzene	**3**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,3-Dichloropropane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,3-Dichloropropene, Total	**NS**	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14
1,4-Dichlorobenzene	**3**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,4-Dioxane	**0.35**	ND		250	61	ND		250	61	ND		250	61	ND		250	61	ND		250	61	ND		250	61	ND		250	61	ND		250	61
2,2-Dichloropropane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
2-Butanone	**50**	ND		5	1.9	ND		5	1.9	ND		5	1.9	ND		5	1.9	ND		5	1.9	ND		5	1.9	ND		5	1.9	ND		5	1.9
2-Hexanone	**50**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
4-Methyl-2-pentanone	**NS**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
Acetone	**50**	ND		5	1.5	1.6	J	5	1.5	ND		5	1.5	ND		5	1.5	ND		5	1.5	ND		5	1.5	ND		5	1.5	1.5	J	5	1.5
Acrylonitrile	**5**	ND		5	1.5	ND		5	1.5	ND		5	1.5	ND		5	1.5	ND		5	1.5	ND		5	1.5	ND		5	1.5	ND		5	1.5
Benzene	**1**	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16
Bromobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Bromochloromethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Bromodichloromethane	**50**	ND		0.5	0.19	ND		0.5	0.19	ND		0.5	0.19	ND		0.5	0.19	ND		0.5	0.19	ND		0.5	0.19	ND		0.5	0.19	ND		0.5	0.19
Bromoform	**50**	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65
Bromomethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Carbon disulfide	**60**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
Carbon tetrachloride	**5**	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13
Chlorobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Chloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Chloroform	**7**	3.8		2.5	0.7	3.6		2.5	0.7	1.3	J	2.5	0.7	1.2	J	2.5	0.7	2.3	J	2.5	0.7	1.4	J	2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Chloromethane	**NS**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
cis-1,2-Dichloroethene	**5**	**5.8**		2.5	0.7	ND		2.5	0.7	1.8	J	2.5	0.7	1.8	J	2.5	0.7	1.5	J	2.5	0.7	3.4		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
cis-1,3-Dichloropropene	**0.4**	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14
Dibromochloromethane	**50**	ND		0.5	0.15	ND		0.5	0.15	ND		0.5	0.15	ND		0.5	0.15	ND		0.5	0.15	ND		0.5	0.15	ND		0.5	0.15	ND		0.5	0.15
Dibromomethane	**5**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
Dichlorodifluoromethane	**5**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
Ethyl ether	**NS**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Ethylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Hexachlorobutadiene	**0.5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Isopropylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Methyl tert butyl ether	**10**	ND		2.5	0.17	ND		2.5	0.17	ND		2.5	0.17	ND		2.5	0.17	ND		2.5	0.17	ND		2.5	0.17	ND		2.5	0.17	ND		2.5	0.17
Methylene chloride	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Naphthalene	**10**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
n-Butylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
n-Propylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
o-Chlorotoluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
o-Xylene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
p/m-Xylene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
p-Chlorotoluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
p-Diethylbenzene	**NS**	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7
p-Ethyltoluene	**NS**	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7
p-Isopropyltoluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
sec-Butylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Styrene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
tert-Butylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Tetrachloroethene	**5**	**130**		0.5	0.18	0.33	J	0.5	0.18	**120**		0.5	0.18	**120**		0.5	0.18	**140**		0.5	0.18	**180**		0.5	0.18	ND		0.5	0.18	ND		0.5	0.18
Toluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
trans-1,2-Dichloroethene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
trans-1,3-Dichloropropene	**0.4**	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16
trans-1,4-Dichloro-2-butene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Trichloroethene	**5**	3.8		0.5	0.18	ND		0.5	0.18	2.8		0.5	0.18	2.8		0.5	0.18	2.7		0.5	0.18	4.1		0.5	0.18	ND		0.5	0.18	ND		0.5	0.18
Trichlorofluoromethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Vinyl acetate	**NS**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
Vinyl chloride	**2**	ND		1	0.07	ND		1	0.07	ND		1	0.07	ND		1	0.07	ND		1	0.07	ND		1	0.07	ND		1	0.07	ND		1	0.07
Xylenes, Total	**NS**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Total VOCs	**NS**	143.4	-	-	-	5.53	-	-	-	125.9	-	-	-	125.8	-	-	-	146.5	-	-	-	188.9	-	-	-	-	-	-	-	1.5	-	-	-

Notes:
AWQS: NYSDEC Ambient Water Quality Standards
Class GA: NYSDEC Groundwater Effluent Limitations (Class GA)
ug/L: Micrograms per liter

ND: Not detected
NS: No Standard
J: Estimated concentration

Bold & Highlighted - Concentration exceeds NYSDEC standard

Table 2
Basement Indoor Air/Ambient Air Results - December 2024
Rockfarmer 37th Avenue - NYSDEC Site No. C241212

SAMPLE ID:	NYSDOH Matrices Lower Value	NYSDOH Matrices Upper Value	IA-1A				IA-3				IA-5				IA-7				IA-9				IA-10				IA-DUP				AA-1			
LAB ID:			L2472663-01				L2472663-02				L2472663-03				L2472663-04				L2472663-05				L2472663-06				L2472663-08				L2472663-07			
COLLECTION DATE:			12/10/2024				12/10/2024				12/10/2024				12/10/2024				12/10/2024				12/10/2024				12/10/2024				12/10/2024			
SAMPLE MATRIX:			INDOOR AIR				INDOOR AIR				INDOOR AIR				INDOOR AIR				INDOOR AIR				INDOOR AIR				INDOOR AIR				AMBIENT AIR			
ANALYTE	**(ug/m3)**	**(ug/m3)**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
VOLATILE ORGANICS IN AIR																																		
1,1,2,2-Tetrachloroethane	**NC**	**NC**	ND		1.37	-	ND		1.37	-	ND		1.37	-	ND		1.37	-	ND		1.37	-	ND		1.37	-	ND		1.37	-	ND		1.37	-
1,1,2-Trichloroethane	**NC**	**NC**	ND		1.09	-	ND		1.09	-	ND		1.09	-	ND		1.09	-	ND		1.09	-	ND		1.09	-	ND		1.09	-	ND		1.09	-
1,1-Dichloroethane	**NC**	**NC**	ND		0.809	-	ND		0.809	-	ND		0.809	-	ND		0.809	-	ND		0.809	-	ND		0.809	-	ND		0.809	-	ND		0.809	-
1,2,4-Trichlorobenzene	**NC**	**NC**	ND		1.48	-	ND		1.48	-	ND		1.48	-	ND		1.48	-	ND		1.48	-	ND		1.48	-	ND		1.48	-	ND		1.48	-
1,2,4-Trimethylbenzene	**2**	**10**	1.73		0.983	-	1.58		0.983	-	1.29		0.983	-	1.5		0.983	-	1.27		0.983	-	ND		0.983	-	1		0.983	-	1.04		0.983	-
1,2-Dibromoethane	**NC**	**NC**	ND		1.54	-	ND		1.54	-	ND		1.54	-	ND		1.54	-	ND		1.54	-	ND		1.54	-	ND		1.54	-	ND		1.54	-
1,2-Dichlorobenzene	**NC**	**NC**	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-
1,2-Dichloroethane	**NC**	**NC**	ND		0.809	-	0.955		0.809	-	ND		0.809	-	ND		0.809	-	ND		0.809	-	ND		0.809	-	ND		0.809	-	ND		0.809	-
1,2-Dichloropropane	**NC**	**NC**	ND		0.924	-	ND		0.924	-	ND		0.924	-	ND		0.924	-	ND		0.924	-	ND		0.924	-	ND		0.924	-	ND		0.924	-
1,3,5-Trimethylbenzene	**2**	**10**	ND		0.983	-	ND		0.983	-	ND		0.983	-	ND		0.983	-	ND		0.983	-	ND		0.983	-	ND		0.983	-	ND		0.983	-
1,3-Butadiene	**NC**	**NC**	ND		0.442	-	ND		0.442	-	ND		0.442	-	ND		0.442	-	ND		0.442	-	ND		0.442	-	ND		0.442	-	ND		0.442	-
1,3-Dichlorobenzene	**NC**	**NC**	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-
1,4-Dichlorobenzene	**NC**	**NC**	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-	ND		1.2	-
1,4-Dioxane	**NC**	**NC**	ND		0.721	-	ND		0.721	-	ND		0.721	-	ND		0.721	-	ND		0.721	-	ND		0.721	-	ND		0.721	-	ND		0.721	-
2,2,4-Trimethylpentane	**2**	**10**	**3.77**		0.934	-	**3.91**		0.934	-	**2.51**		0.934	-	**2.28**		0.934	-	**3.12**		0.934	-	1.23		0.934	-	1.28		0.934	-	1.42		0.934	-
2-Butanone	**NC**	**NC**	2.72		1.47	-	3.1		1.47	-	1.92		1.47	-	2.46		1.47	-	ND		1.47	-	ND		1.47	-	ND		1.47	-	ND		1.47	-
2-Hexanone	**NC**	**NC**	ND		0.82	-	ND		0.82	-	ND		0.82	-	ND		0.82	-	ND		0.82	-	ND		0.82	-	ND		0.82	-	ND		0.82	-
3-Chloropropene	**NC**	**NC**	ND		0.626	-	ND		0.626	-	ND		0.626	-	ND		0.626	-	ND		0.626	-	ND		0.626	-	ND		0.626	-	ND		0.626	-
4-Ethyltoluene	**NC**	**NC**	1.55		0.983	-	1.55		0.983	-	0.998		0.983	-	1.22		0.983	-	ND		0.983	-	ND		0.983	-	ND		0.983	-	ND		0.983	-
4-Methyl-2-pentanone	**NC**	**NC**	ND		2.05	-	ND		2.05	-	ND		2.05	-	ND		2.05	-	ND		2.05	-	ND		2.05	-	ND		2.05	-	3.31		2.05	-
Acetone	**NC**	**NC**	81.7		2.38	-	79.1		2.38	-	40.6		2.38	-	124		2.38	-	44.9		2.38	-	15.7		2.38	-	17		2.38	-	54.6		2.38	-
Benzene	**2**	**10**	**2.56**		0.639	-	**2.64**		0.639	-	**2.18**		0.639	-	1.76		0.639	-	1.38		0.639	-	1.23		0.639	-	1.25		0.639	-	1.33		0.639	-
Benzyl chloride	**NC**	**NC**	ND		1.04	-	ND		1.04	-	ND		1.04	-	ND		1.04	-	ND		1.04	-	ND		1.04	-	ND		1.04	-	ND		1.04	-
Bromodichloromethane	**NC**	**NC**	ND		1.34	-	ND		1.34	-	ND		1.34	-	ND		1.34	-	ND		1.34	-	ND		1.34	-	ND		1.34	-	ND		1.34	-
Bromoform	**NC**	**NC**	ND		2.07	-	ND		2.07	-	ND		2.07	-	ND		2.07	-	ND		2.07	-	ND		2.07	-	ND		2.07	-	ND		2.07	-
Bromomethane	**NC**	**NC**	ND		0.777	-	ND		0.777	-	ND		0.777	-	ND		0.777	-	ND		0.777	-	ND		0.777	-	ND		0.777	-	ND		0.777	-
Carbon disulfide	**NC**	**NC**	ND		0.623	-	ND		0.623	-	ND		0.623	-	ND		0.623	-	ND		0.623	-	ND		0.623	-	ND		0.623	-	ND		0.623	-
Chlorobenzene	**NC**	**NC**	ND		0.921	-	ND		0.921	-	ND		0.921	-	ND		0.921	-	ND		0.921	-	ND		0.921	-	ND		0.921	-	ND		0.921	-
Chloroethane	**NC**	**NC**	ND		0.528	-	ND		0.528	-	ND		0.528	-	ND		0.528	-	ND		0.528	-	ND		0.528	-	ND		0.528	-	ND		0.528	-
Chloroform	**NC**	**NC**	1.54		0.977	-	2.27		0.977	-	1.4		0.977	-	1.21		0.977	-	ND		0.977	-	ND		0.977	-	ND		0.977	-	ND		0.977	-
Chloromethane	**NC**	**NC**	1.08		0.413	-	1.12		0.413	-	1.25		0.413	-	1.02		0.413	-	1.01		0.413	-	1.07		0.413	-	1.07		0.413	-	1.02		0.413	-
cis-1,3-Dichloropropene	**NC**	**NC**	ND		0.908	-	ND		0.908	-	ND		0.908	-	ND		0.908	-	ND		0.908	-	ND		0.908	-	ND		0.908	-	ND		0.908	-
Cyclohexane	**2**	**10**	0.792		0.688	-	0.754		0.688	-	1.11		0.688	-	ND		0.688	-	ND		0.688	-	ND		0.688	-	ND		0.688	-	ND		0.688	-
Dibromochloromethane	**NC**	**NC**	ND		1.7	-	ND		1.7	-	ND		1.7	-	ND		1.7	-	ND		1.7	-	ND		1.7	-	ND		1.7	-	ND		1.7	-
Dichlorodifluoromethane	**NC**	**NC**	2.49		0.989	-	2.37		0.989	-	2.64		0.989	-	2.77		0.989	-	2.37		0.989	-	2.53		0.989	-	2.53		0.989	-	2.32		0.989	-
Ethanol	**NC**	**NC**	418		9.42	-	445		9.42	-	271		9.42	-	301		9.42	-	618		9.42	-	36.2		9.42	-	38.1		9.42	-	95.3		9.42	-
Ethyl Acetate	**NC**	**NC**	ND		1.8	-	ND		1.8	-	ND		1.8	-	ND		1.8	-	ND		1.8	-	ND		1.8	-	ND		1.8	-	ND		1.8	-
Ethylbenzene	**2**	**10**	1.16		0.869	-	1.2		0.869	-	0.899		0.869	-	1.69		0.869	-	ND		0.869	-	ND		0.869	-	ND		0.869	-	ND		0.869	-
Freon-113	**NC**	**NC**	ND		1.53	-	ND		1.53	-	ND		1.53	-	ND		1.53	-	ND		1.53	-	ND		1.53	-	ND		1.53	-	ND		1.53	-
Freon-114	**NC**	**NC**	ND		1.4	-	ND		1.4	-	ND		1.4	-	ND		1.4	-	ND		1.4	-	ND		1.4	-	ND		1.4	-	ND		1.4	-
Heptane	**6**	**20**	2.52		0.82	-	2.37		0.82	-	2.25		0.82	-	1.57		0.82	-	1.18		0.82	-	ND		0.82	-	ND		0.82	-	0.922		0.82	-
Hexachlorobutadiene	**NC**	**NC**	ND		2.13	-	ND		2.13	-	ND		2.13	-	ND		2.13	-	ND		2.13	-	ND		2.13	-	ND		2.13	-	ND		2.13	-
Isopropanol	**NC**	**NC**	79.6		2.46	-	72.8		2.46	-	165		2.46	-	248		2.46	-	90.7		2.46	-	11.5		2.46	-	11.3		2.46	-	11.4		2.46	-
Methyl tert butyl ether	**NC**	**NC**	ND		0.721	-	ND		0.721	-	ND		0.721	-	ND		0.721	-	ND		0.721	-	ND		0.721	-	ND		0.721	-	ND		0.721	-
Methylene chloride	**3**	**10**	ND		1.74	-	ND		1.74	-	ND		1.74	-	ND		1.74	-	ND		1.74	-	ND		1.74	-	ND		1.74	-	ND		1.74	-
Naphthalene	**NC**	**NC**	ND		1.05	-	ND		1.05	-	ND		1.05	-	ND		1.05	-	ND		1.05	-	ND		1.05	-	ND		1.05	-	ND		1.05	-
n-Hexane	**6**	**20**	1.96		0.705	-	1.92		0.705	-	4.05		0.705	-	2.09		0.705	-	1.94		0.705	-	0.913		0.705	-	0.941		0.705	-	1.01		0.705	-
o-Xylene	**2**	**10**	1.44		0.869	-	1.47		0.869	-	1.11		0.869	-	**2.84**		0.869	-	1.12		0.869	-	ND		0.869	-	ND		0.869	-	0.938		0.869	-
p/m-Xylene	**6**	**20**	3.44		1.74	-	3.48		1.74	-	2.85		1.74	-	**6.95**		1.74	-	2.25		1.74	-	ND		1.74	-	ND		1.74	-	2.55		1.74	-
Styrene	**NC**	**NC**	1.05		0.852	-	0.932		0.852	-	2.37		0.852	-	2.84		0.852	-	1.78		0.852	-	3.33		0.852	-	2.66		0.852	-	ND		0.852	-
Tertiary butyl Alcohol	**NC**	**NC**	ND		1.52	-	ND		1.52	-	ND		1.52	-	ND		1.52	-	1.56		1.52	-	ND		1.52	-	ND		1.52	-	ND		1.52	-
Tetrahydrofuran	**NC**	**NC**	ND		1.47	-	ND		1.47	-	ND		1.47	-	ND		1.47	-	2.14		1.47	-	ND		1.47	-	ND		1.47	-	ND		1.47	-
Toluene	**10**	**50**	8.1		0.754	-	7.76		0.754	-	5.2		0.754	-	9.35		0.754	-	3.57		0.754	-	2.42		0.754	-	2.4		0.754	-	3.64		0.754	-
trans-1,2-Dichloroethene	**NC**	**NC**	ND		0.793	-	ND		0.793	-	ND		0.793	-	ND		0.793	-	ND		0.793	-	ND		0.793	-	ND		0.793	-	ND		0.793	-
trans-1,3-Dichloropropene	**NC**	**NC**	ND		0.908	-	ND		0.908	-	ND		0.908	-	ND		0.908	-	ND		0.908	-	ND		0.908	-	ND		0.908	-	ND		0.908	-
Trichlorofluoromethane	**NC**	**NC**	1.35		1.12	-	1.39		1.12	-	1.45		1.12	-	1.4		1.12	-	1.37		1.12	-	1.43		1.12	-	1.45		1.12	-	1.35		1.12	-
Vinyl bromide	**NC**	**NC**	ND		0.874	-	ND		0.874	-	ND		0.874	-	ND		0.874	-	ND		0.874	-	ND		0.874	-	ND		0.874	-	ND		0.874	-
VOLATILE ORGANICS IN AIR BY SIM																																		
1,1,1-Trichloroethane	**3**	**10**	ND		0.109	-	ND		0.109	-	ND		0.109	-	ND		0.109	-	ND		0.109	-	ND		0.109	-	ND		0.109	-	ND		0.109	-
1,1-Dichloroethene	**0.2**	**1**	ND		0.079	-	ND		0.079	-	ND		0.079	-	ND		0.079	-	ND		0.079	-	ND		0.079	-	ND		0.079	-	ND		0.079	-
Carbon tetrachloride	**0.2**	**1**	**0.478**		0.126	-	**0.484**		0.126	-	**0.516**		0.126	-	**0.497**		0.126	-	**0.459**		0.126	-	**0.472**		0.126	-	**0.478**		0.126	-	**0.472**		0.126	-
cis-1,2-Dichloroethene	**0.2**	**1**	ND		0.079	-	ND		0.079	-	ND		0.079	-	ND		0.079	-	ND		0.079	-	ND		0.079	-	ND		0.079	-	ND		0.079	-
Tetrachloroethene	**3**	**10**	0.339		0.136	-	0.325		0.136	-	0.434		0.136	-	0.759		0.136	-	0.325		0.136	-	0.366		0.136	-	0.373		0.136	-	0.38		0.136	-
Trichloroethene	**0.2**	**1**	ND		0.107	-	ND		0.107	-	ND		0.107	-	ND		0.107	-	ND		0.107	-	ND		0.107	-	ND		0.107	-	ND		0.107	-
Vinyl chloride	**0.2**	**0.2**	ND		0.051	-	ND		0.051	-	ND		0.051	-	ND		0.051	-	ND		0.051	-	ND		0.051	-	ND		0.051	-	ND		0.051	-

Notes:
NYSDOH Matrices: Matrix A, B & C Indoor Air Concentration Criteria (May 2017) and Matrix D, E & F Indoor Air Concentration Criteria (February 2024)
NYSDOH: New York State Department of Health
NC: No Criteria
RL: Reporting Limit
ug/m3: Micrograms per cubic meter
ND: Not Detected
Bold - Concentration exceeds NYSDOH criteria

Table 3
Historical Groundwater Analytical Results
Rockfarmer 37th Avenue - NYSDEC Site No. C241212

SAMPLE ID:	AWQS / CLASS GA	MW-1				MW-1				MW-1				MW-1				MW-1			
LAB ID:		L1909935-01				L1925489-04				L2015369-01				L2368121-01				L2472578-01			
COLLECTION DATE:		3/13/2019				6/12/2019				4/9/2020				11/15/2023				12/10/2024			
ANALYTE	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																					
1,1,1,2-Tetrachloroethane	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,1,1-Trichloroethane	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,1,2,2-Tetrachloroethane	**5**	ND		1.2	0.42	ND		1	0.33	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17
1,1,2-Trichloroethane	**1**	ND		3.8	1.2	ND		3	1	ND		1.5	0.5	ND		1.5	0.5	ND		1.5	0.5
1,1-Dichloroethane	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,1-Dichloroethene	**5**	ND		1.2	0.42	ND		1	0.34	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17
1,1-Dichloropropene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,3-Trichlorobenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,3-Trichloropropane	**0.04**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,4,5-Tetramethylbenzene	**5**	ND		5	1.4	ND		4	1.1	ND		2	0.54	ND		2	0.54	ND		2	0.54
1,2,4-Trichlorobenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,4-Trimethylbenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2-Dibromo-3-chloropropane	**0.04**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2-Dibromoethane	**0.0006**	ND		5	1.6	ND		4	1.3	ND		2	0.65	ND		2	0.65	ND		2	0.65
1,2-Dichlorobenzene	**3**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2-Dichloroethane	**0.6**	ND		1.2	0.33	ND		1	0.26	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13
1,2-Dichloroethene, Total	**NS**	57		6.2	1.8	42		5	1.4	18		2.5	0.7	13		2.5	0.7	5.8		2.5	0.7
1,2-Dichloropropane	**1**	ND		2.5	0.34	ND		2	0.27	ND		1	0.14	ND		1	0.14	ND		1	0.14
1,3,5-Trimethylbenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,3-Dichlorobenzene	**3**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,3-Dichloropropane	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,3-Dichloropropene, Total	**NS**	ND		1.2	0.36	ND		1	0.29	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14
1,4-Dichlorobenzene	**3**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,4-Dioxane	**NS**	ND		620	150	ND		500	120	ND		250	61	ND		250	61	ND		250	61
2,2-Dichloropropane	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
2-Butanone	**50**	ND		12	4.8	ND		10	3.9	ND		5	1.9	ND		5	1.9	ND		5	1.9
2-Hexanone	**50**	ND		12	2.5	ND		10	2	ND		5	1	ND		5	1	ND		5	1
4-Methyl-2-pentanone	**NS**	ND		12	2.5	ND		10	2	ND		5	1	ND		5	1	ND		5	1
Acetone	**50**	4.6	J	12	3.6	ND		10	2.9	2.6	J	5	1.5	ND		5	1.5	ND		5	1.5
Acrylonitrile	**5**	ND		12	3.8	ND		10	3	ND		5	1.5	ND		5	1.5	ND		5	1.5
Benzene	**1**	ND		1.2	0.4	ND		1	0.32	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16
Bromobenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Bromochloromethane	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Bromodichloromethane	**50**	ND		1.2	0.48	ND		1	0.38	ND		0.5	0.19	ND		0.5	0.19	ND		0.5	0.19
Bromoform	**50**	ND		5	1.6	ND		4	1.3	ND		2	0.65	ND		2	0.65	ND		2	0.65
Bromomethane	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Carbon disulfide	**60**	ND		12	2.5	ND		10	2	ND		5	1	ND		5	1	ND		5	1
Carbon tetrachloride	**5**	ND		1.2	0.34	ND		1	0.27	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13
Chlorobenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Chloroethane	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Chloroform	**7**	2.6	J	6.2	1.8	2.8	J	5	1.4	3.6		2.5	0.7	3.1		2.5	0.7	3.8		2.5	0.7
Chloromethane	**NS**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
cis-1,2-Dichloroethene	**5**	**57**		6.2	1.8	**42**		5	1.4	**18**		2.5	0.7	**13**		2.5	0.7	**5.8**		2.5	0.7
cis-1,3-Dichloropropene	**0.4**	ND		1.2	0.36	ND		1	0.29	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14
Dibromochloromethane	**50**	ND		1.2	0.37	ND		1	0.3	ND		0.5	0.15	ND		0.5	0.15	ND		0.5	0.15
Dibromomethane	**5**	ND		12	2.5	ND		10	2	ND		5	1	ND		5	1	ND		5	1
Dichlorodifluoromethane	**5**	ND		12	2.5	ND		10	2	ND		5	1	ND		5	1	ND		5	1
Ethyl ether	**NS**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Ethylbenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Hexachlorobutadiene	**0.5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Isopropylbenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Methyl tert butyl ether	**10**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.17
Methylene chloride	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
n-Butylbenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
n-Propylbenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Naphthalene	**10**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
o-Chlorotoluene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
o-Xylene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
p-Chlorotoluene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
p-Diethylbenzene	**NS**	ND		5	1.8	ND		4	1.4	ND		2	0.7	ND		2	0.7	ND		2.5	0.7
p-Ethyltoluene	**NS**	ND		5	1.8	ND		4	1.4	ND		2	0.7	ND		2	0.7	ND		2	0.7
p-Isopropyltoluene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2	0.7
p/m-Xylene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
sec-Butylbenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Styrene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
tert-Butylbenzene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Tetrachloroethene	**5**	**420**		1.2	0.45	**310**		1	0.36	**140**		0.5	0.18	**160**		0.5	0.18	**130**		0.5	0.18
Toluene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
trans-1,2-Dichloroethene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
trans-1,3-Dichloropropene	**0.4**	ND		1.2	0.41	ND		1	0.33	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16
trans-1,4-Dichloro-2-butene	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Trichloroethene	**5**	**11**		1.2	0.44	**11**		1	0.35	**5.8**		0.5	0.18	**5.2**		0.5	0.18	3.8		0.5	0.18
Trichlorofluoromethane	**5**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Vinyl acetate	**NS**	ND		12	2.5	ND		10	2	ND		5	1	ND		5	1	ND		5	1
Vinyl chloride	**2**	ND		2.5	0.18	ND		2	0.14	ND		1	0.07	ND		1	0.07	ND		1	0.07
Xylenes, Total	**NS**	ND		6.2	1.8	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Total VOCs	**NS**	495.2	-	-	-	365.8	-	-	-	188	-	-	-	181	-	-	-	143.4	-	-	-

Notes:
AWQS: NYSDEC Ambient Water Quality Standards
Class GA: NYSDEC Groundwater Effluent Limitations (Class GA)
ug/L: Micrograms per liter
ND: Not detected
NS: No Standard
J: Estimated concentration
Bold & Highlighted - Concentration exceeds NYSDEC standard

Table 3
Historical Groundwater Analytical Results
Rockfarmer 37th Avenue - NYSDEC Site No. C241212

SAMPLE ID:	AWQS / CLASS GA	MW-2				MW-2				MW-2				MW-2				MW-2			
LAB ID:		L1909935-02				L2015369-02				L1925489-06				L2368121-02				L2472578-02			
COLLECTION DATE:		3/13/2019				4/9/2020				6/12/2019				11/15/2023				12/10/2024			
ANALYTE	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																					
1,1,1,2-Tetrachloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,1,1-Trichloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,1,2,2-Tetrachloroethane	**5**	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17
1,1,2-Trichloroethane	**1**	ND		1.5	0.5	ND		1.5	0.5	ND		1.5	0.5	ND		1.5	0.5	ND		1.5	0.5
1,1-Dichloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,1-Dichloroethene	**5**	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17
1,1-Dichloropropene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,3-Trichlorobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,3-Trichloropropane	**0.04**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,4,5-Tetramethylbenzene	**5**	ND		2	0.54	ND		2	0.54	ND		2	0.54	ND		2	0.54	ND		2	0.54
1,2,4-Trichlorobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2,4-Trimethylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2-Dibromo-3-chloropropane	**0.04**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2-Dibromoethane	**0.0006**	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65
1,2-Dichlorobenzene	**3**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2-Dichloroethane	**0.6**	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13
1,2-Dichloroethene, Total	**NS**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,2-Dichloropropane	**1**	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14
1,3,5-Trimethylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,3-Dichlorobenzene	**3**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,3-Dichloropropane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,3-Dichloropropene, Total	**NS**	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14
1,4-Dichlorobenzene	**3**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
1,4-Dioxane	**NS**	ND		250	61	ND		250	61	ND		250	61	ND		250	61	ND		250	61
2,2-Dichloropropane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
2-Butanone	**50**	ND		5	1.9	ND		5	1.9	ND		5	1.9	ND		5	1.9	ND		5	1.9
2-Hexanone	**50**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
4-Methyl-2-pentanone	**NS**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
Acetone	**50**	ND		5	1.5	5		5	1.5	ND		5	1.5	ND		5	1.5	1.6	J	5	1.5
Acrylonitrile	**5**	ND		5	1.5	ND		5	1.5	ND		5	1.5	ND		5	1.5	ND		5	1.5
Benzene	**1**	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16
Bromobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Bromochloromethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Bromodichloromethane	**50**	ND		0.5	0.19	ND		0.5	0.19	ND		0.5	0.19	ND		0.5	0.19	ND		0.5	0.19
Bromoform	**50**	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		2	0.65
Bromomethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Carbon disulfide	**60**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
Carbon tetrachloride	**5**	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13
Chlorobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Chloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Chloroform	**7**	ND		2.5	0.7	1	J	2.5	0.7	0.7	J	2.5	0.7	6.3		2.5	0.7	3.6		2.5	0.7
Chloromethane	**NS**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
cis-1,2-Dichloroethene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
cis-1,3-Dichloropropene	**0.4**	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14
Dibromochloromethane	**50**	ND		0.5	0.15	ND		0.5	0.15	ND		0.5	0.15	ND		0.5	0.15	ND		0.5	0.15
Dibromomethane	**5**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
Dichlorodifluoromethane	**5**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
Ethyl ether	**NS**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Ethylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Hexachlorobutadiene	**0.5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Isopropylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Methyl tert butyl ether	**10**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.17
Methylene chloride	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
n-Butylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
n-Propylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Naphthalene	**10**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
o-Chlorotoluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
o-Xylene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
p-Chlorotoluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
p-Diethylbenzene	**NS**	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2.5	0.7
p-Ethyltoluene	**NS**	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7
p-Isopropyltoluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2	0.7
p/m-Xylene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
sec-Butylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Styrene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
tert-Butylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Tetrachloroethene	**5**	0.56		0.5	0.18	3.5		0.5	0.18	0.62		0.5	0.18	0.31	J	0.5	0.18	0.33	J	0.5	0.18
Toluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
trans-1,2-Dichloroethene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
trans-1,3-Dichloropropene	**0.4**	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16
trans-1,4-Dichloro-2-butene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Trichloroethene	**5**	ND		0.5	0.18	ND		0.5	0.18	ND		0.5	0.18	ND		0.5	0.18	ND		0.5	0.18
Trichlorofluoromethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Vinyl acetate	**NS**	ND		5	1	ND		5	1	ND		5	1	ND		5	1	ND		5	1
Vinyl chloride	**2**	ND		1	0.07	ND		1	0.07	ND		1	0.07	ND		1	0.07	ND		1	0.07
Xylenes, Total	**NS**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7
Total VOCs	**NS**	0.56	-	-	-	9.5	-	-	-	1.32	-	-	-	6.61	-	-	-	5.53	-	-	-

Notes:
AWQS: NYSDEC Ambient Water Quality Standard
Class GA: NYSDEC Groundwater Effluent Limitatic
ug/L: Micrograms per liter
ND: Not detected
NS: No Standard
J: Estimated concentration
Bold & Highlighted - Concentration exceeds NYSD

Table 3
Historical Groundwater Analytical Results
Rockfarmer 37th Avenue - NYSDEC Site No. C241212

SAMPLE ID:	AWQS / CLASS GA	MW-3				MW-3				MW-3				MW-3				MW-3			
LAB ID:		L1909935-03				L1925489-02				L2015369-03				L2368121-03				L2472578-03			
COLLECTION DATE:		3/13/2019				6/12/2019				4/9/2020				11/15/2023				12/10/2024			
ANALYTE	**(ug/l)**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
VOLATILE ORGANICS BY GC/MS																					
1,1,1,2-Tetrachloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,1,1-Trichloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,1,2,2-Tetrachloroethane	**5**	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		1	0.33	ND		0.5	0.17
1,1,2-Trichloroethane	**1**	ND		1.5	0.5	ND		1.5	0.5	ND		1.5	0.5	ND		3	1	ND		1.5	0.5
1,1-Dichloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,1-Dichloroethene	**5**	ND		0.5	0.17	ND		0.5	0.17	ND		0.5	0.17	ND		1	0.34	ND		0.5	0.17
1,1-Dichloropropene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2,3-Trichlorobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2,3-Trichloropropane	**0.04**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2,4,5-Tetramethylbenzene	**5**	ND		2	0.54	ND		2	0.54	ND		2	0.54	ND		4	1.1	ND		2	0.54
1,2,4-Trichlorobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2,4-Trimethylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2-Dibromo-3-chloropropane	**0.04**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2-Dibromoethane	**0.0006**	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		4	1.3	ND		2	0.65
1,2-Dichlorobenzene	**3**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2-Dichloroethane	**0.6**	ND		0.5	0.13	ND		0.5	0.13	ND		0.5	0.13	ND		1	0.26	ND		0.5	0.13
1,2-Dichloroethene, Total	**NS**	2.6		2.5	0.7	1.9	J	2.5	0.7	1.7	J	2.5	0.7	5.3		5	1.4	1.8	J	2.5	0.7
1,2-Dichloropropane	**1**	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		2	0.27	ND		1	0.14
1,3,5-Trimethylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,3-Dichlorobenzene	**3**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,3-Dichloropropane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,3-Dichloropropene, Total	**NS**	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		1	0.29	ND		0.5	0.14
1,4-Dichlorobenzene	**3**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,4-Dioxane	**NS**	ND		250	61	ND		250	61	ND		250	61	ND		500	120	ND		250	61
2,2-Dichloropropane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
2-Butanone	**50**	ND		5	1.9	ND		5	1.9	ND		5	1.9	ND		10	3.9	ND		5	1.9
2-Hexanone	**50**	ND		5	1	ND		5	1	ND		5	1	ND		10	2	ND		5	1
4-Methyl-2-pentanone	**NS**	ND		5	1	ND		5	1	ND		5	1	ND		10	2	ND		5	1
Acetone	**50**	ND		5	1.5	ND		5	1.5	2.4	J	5	1.5	ND		10	2.9	ND		5	1.5
Acrylonitrile	**5**	ND		5	1.5	ND		5	1.5	ND		5	1.5	ND		10	3	ND		5	1.5
Benzene	**1**	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		1	0.32	ND		0.5	0.16
Bromobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Bromochloromethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Bromodichloromethane	**50**	ND		0.5	0.19	ND		0.5	0.19	ND		0.5	0.19	ND		1	0.38	ND		0.5	0.19
Bromoform	**50**	ND		2	0.65	ND		2	0.65	ND		2	0.65	ND		4	1.3	ND		2	0.65
Bromomethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Carbon disulfide	**60**	ND		5	1	ND		5	1	ND		5	1	ND		10	2	ND		5	1
Carbon tetrachloride	**5**	ND		0.5	0.13	0.36	J	0.5	0.13	0.28	J	0.5	0.13	ND		1	0.27	ND		0.5	0.13
Chlorobenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Chloroethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Chloroform	**7**	1.2	J	2.5	0.7	1.4	J	2.5	0.7	1.5	J	2.5	0.7	1.6	J	5	1.4	1.3	J	2.5	0.7
Chloromethane	**NS**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
cis-1,2-Dichloroethene	**5**	2.6		2.5	0.7	1.9	J	2.5	0.7	1.7	J	2.5	0.7	**5.3**		5	1.4	1.8	J	2.5	0.7
cis-1,3-Dichloropropene	**0.4**	ND		0.5	0.14	ND		0.5	0.14	ND		0.5	0.14	ND		1	0.29	ND		0.5	0.14
Dibromochloromethane	**50**	ND		0.5	0.15	ND		0.5	0.15	ND		0.5	0.15	ND		1	0.3	ND		0.5	0.15
Dibromomethane	**5**	ND		5	1	ND		5	1	ND		5	1	ND		10	2	ND		5	1
Dichlorodifluoromethane	**5**	ND		5	1	ND		5	1	ND		5	1	ND		10	2	ND		5	1
Ethyl ether	**NS**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Ethylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Hexachlorobutadiene	**0.5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Isopropylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Methyl tert butyl ether	**10**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.17
Methylene chloride	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
n-Butylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
n-Propylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Naphthalene	**10**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
o-Chlorotoluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
o-Xylene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
p-Chlorotoluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
p-Diethylbenzene	**NS**	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		4	1.4	ND		2.5	0.7
p-Ethyltoluene	**NS**	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		4	1.4	ND		2	0.7
p-Isopropyltoluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2	0.7
p/m-Xylene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
sec-Butylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Styrene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
tert-Butylbenzene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Tetrachloroethene	**5**	**110**		0.5	0.18	**70**		0.5	0.18	**50**		0.5	0.18	**210**		1	0.36	**120**		0.5	0.18
Toluene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
trans-1,2-Dichloroethene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
trans-1,3-Dichloropropene	**0.4**	ND		0.5	0.16	ND		0.5	0.16	ND		0.5	0.16	ND		1	0.33	ND		0.5	0.16
trans-1,4-Dichloro-2-butene	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Trichloroethene	**5**	2.4		0.5	0.18	1.9		0.5	0.18	1.8		0.5	0.18	**5.4**		1	0.35	2.8		0.5	0.18
Trichlorofluoromethane	**5**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Vinyl acetate	**NS**	ND		5	1	ND		5	1	ND		5	1	ND		10	2	ND		5	1
Vinyl chloride	**2**	ND		1	0.07	ND		1	0.07	ND		1	0.07	ND		2	0.14	ND		1	0.07
Xylenes, Total	**NS**	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Total VOCs	**NS**	116.2	-	-	-	75.56	-	-	-	59.38	-	-	-	222	-	-	-	125.9	-	-	-

Notes:
AWQS: NYSDEC Ambient Water Quality Standard
Class GA: NYSDEC Groundwater Effluent Limitatic
ug/L: Micrograms per liter
ND: Not detected
NS: No Standard
J: Estimated concentration
Bold & Highlighted - Concentration exceeds NYSD

Table 3
Historical Groundwater Analytical Results
Rockfarmer 37th Avenue - NYSDEC Site No. C241212

SAMPLE ID:	AWQS / CLASS GA	MW-8				MW-8				MW-8			
LAB ID:		L2015369-08				L2368121-04				L2472578-05			
COLLECTION DATE:		4/9/2020				11/15/2023				12/10/2024			
ANALYTE	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS													
1,1,1,2-Tetrachloroethane	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,1,1-Trichloroethane	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,1,2,2-Tetrachloroethane	5	ND		0.5	0.17	ND		1.2	0.42	ND		0.5	0.17
1,1,2-Trichloroethane	1	ND		1.5	0.5	ND		3.8	1.2	ND		1.5	0.5
1,1-Dichloroethane	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,1-Dichloroethene	5	ND		0.5	0.17	ND		1.2	0.42	ND		0.5	0.17
1,1-Dichloropropene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,2,3-Trichlorobenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,2,3-Trichloropropane	0.04	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,2,4,5-Tetramethylbenzene	5	ND		2	0.54	ND		5	1.4	ND		2	0.54
1,2,4-Trichlorobenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,2,4-Trimethylbenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,2-Dibromo-3-chloropropane	0.04	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,2-Dibromoethane	0.0006	ND		2	0.65	ND		5	1.6	ND		2	0.65
1,2-Dichlorobenzene	3	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,2-Dichloroethane	0.6	ND		0.5	0.13	ND		1.2	0.33	ND		0.5	0.13
1,2-Dichloroethene, Total	NS	3.5		2.5	0.7	12		6.2	1.8	1.5	J	2.5	0.7
1,2-Dichloropropane	1	ND		1	0.14	ND		2.5	0.34	ND		1	0.14
1,3,5-Trimethylbenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,3-Dichlorobenzene	3	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,3-Dichloropropane	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,3-Dichloropropene, Total	NS	ND		0.5	0.14	ND		1.2	0.36	ND		0.5	0.14
1,4-Dichlorobenzene	3	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
1,4-Dioxane	NS	ND		250	61	ND		620	150	ND		250	61
2,2-Dichloropropane	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
2-Butanone	50	ND		5	1.9	ND		12	4.8	ND		5	1.9
2-Hexanone	50	ND		5	1	ND		12	2.5	ND		5	1
4-Methyl-2-pentanone	NS	ND		5	1	ND		12	2.5	ND		5	1
Acetone	50	ND		5	1.5	ND		12	3.6	ND		5	1.5
Acrylonitrile	5	ND		5	1.5	ND		12	3.8	ND		5	1.5
Benzene	1	ND		0.5	0.16	ND		1.2	0.4	ND		0.5	0.16
Bromobenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Bromochloromethane	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Bromodichloromethane	50	ND		0.5	0.19	ND		1.2	0.48	ND		0.5	0.19
Bromoform	50	ND		2	0.65	ND		5	1.6	ND		2	0.65
Bromomethane	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Carbon disulfide	60	ND		5	1	ND		12	2.5	ND		5	1
Carbon tetrachloride	5	ND		0.5	0.13	ND		1.2	0.34	ND		0.5	0.13
Chlorobenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Chloroethane	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Chloroform	7	1.8	J	2.5	0.7	4.3	J	6.2	1.8	2.3	J	2.5	0.7
Chloromethane	NS	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
cis-1,2-Dichloroethene	5	3.5		2.5	0.7	**12**		6.2	1.8	1.5	J	2.5	0.7
cis-1,3-Dichloropropene	0.4	ND		0.5	0.14	ND		1.2	0.36	ND		0.5	0.14
Dibromochloromethane	50	ND		0.5	0.15	ND		1.2	0.37	ND		0.5	0.15
Dibromomethane	5	ND		5	1	ND		12	2.5	ND		5	1
Dichlorodifluoromethane	5	ND		5	1	ND		12	2.5	ND		5	1
Ethyl ether	NS	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Ethylbenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Hexachlorobutadiene	0.5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Isopropylbenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Methyl tert butyl ether	10	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.17
Methylene chloride	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
n-Butylbenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
n-Propylbenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Naphthalene	10	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
o-Chlorotoluene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
o-Xylene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
p-Chlorotoluene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
p-Diethylbenzene	NS	ND		2	0.7	ND		5	1.8	ND		2.5	0.7
p-Ethyltoluene	NS	ND		2	0.7	ND		5	1.8	ND		2	0.7
p-Isopropyltoluene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2	0.7
p/m-Xylene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
sec-Butylbenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Styrene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
tert-Butylbenzene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Tetrachloroethene	5	**130**		0.5	0.18	**250**		1.2	0.45	**140**		0.5	0.18
Toluene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
trans-1,2-Dichloroethene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
trans-1,3-Dichloropropene	0.4	ND		0.5	0.16	ND		1.2	0.41	ND		0.5	0.16
trans-1,4-Dichloro-2-butene	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Trichloroethene	5	3.6		0.5	0.18	**7.6**		1.2	0.44	2.7		0.5	0.18
Trichlorofluoromethane	5	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Vinyl acetate	NS	ND		5	1	ND		12	2.5	ND		5	1
Vinyl chloride	2	ND		1	0.07	ND		2.5	0.18	ND		1	0.07
Xylenes, Total	NS	ND		2.5	0.7	ND		6.2	1.8	ND		2.5	0.7
Total VOCs	NS	142.4	-	-	-	273.9	-	-	-	147	-	-	-

Notes:
AWQS: NYSDEC Ambient Water Quality Standard
Class GA: NYSDEC Groundwater Effluent Limitatic
ug/L: Micrograms per liter
ND: Not detected
NS: No Standard
J: Estimated concentration
Bold & Highlighted - Concentration exceeds NYSD

Table 3
Historical Groundwater Analytical Results
Rockfarmer 37th Avenue - NYSDEC Site No. C241212

SAMPLE ID:	AWQS / CLASS GA	MW-10				MW-10				MW-10			
LAB ID:		L2015369-10				L2368121-05				L2472578-06			
COLLECTION DATE:		4/9/2020				11/15/2023				12/10/2024			
ANALYTE	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS													
1,1,1,2-Tetrachloroethane	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,1,1-Trichloroethane	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,1,2,2-Tetrachloroethane	5	ND		0.5	0.17	ND		1	0.33	ND		0.5	0.17
1,1,2-Trichloroethane	1	ND		1.5	0.5	ND		3	1	ND		1.5	0.5
1,1-Dichloroethane	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,1-Dichloroethene	5	ND		0.5	0.17	ND		1	0.34	ND		0.5	0.17
1,1-Dichloropropene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2,3-Trichlorobenzene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2,3-Trichloropropane	0.04	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2,4,5-Tetramethylbenzene	5	**14**		2	0.54	ND		4	1.1	ND		2	0.54
1,2,4-Trichlorobenzene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2,4-Trimethylbenzene	5	**46**		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2-Dibromo-3-chloropropane	0.04	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2-Dibromoethane	0.0006	ND		2	0.65	ND		4	1.3	ND		2	0.65
1,2-Dichlorobenzene	3	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,2-Dichloroethane	0.6	ND		0.5	0.13	ND		1	0.26	ND		0.5	0.13
1,2-Dichloroethene, Total	NS	ND		2.5	0.7	7.6		5	1.4	3.4		2.5	0.7
1,2-Dichloropropane	1	ND		1	0.14	ND		2	0.27	ND		1	0.14
1,3,5-Trimethylbenzene	5	**17**		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,3-Dichlorobenzene	3	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,3-Dichloropropane	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,3-Dichloropropene, Total	NS	ND		0.5	0.14	ND		1	0.29	ND		0.5	0.14
1,4-Dichlorobenzene	3	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
1,4-Dioxane	NS	ND		250	61	ND		500	120	ND		250	61
2,2-Dichloropropane	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
2-Butanone	50	ND		5	1.9	ND		10	3.9	ND		5	1.9
2-Hexanone	50	ND		5	1	ND		10	2	ND		5	1
4-Methyl-2-pentanone	NS	ND		5	1	ND		10	2	ND		5	1
Acetone	50	2.4	J	5	1.5	ND		10	2.9	ND		5	1.5
Acrylonitrile	5	ND		5	1.5	ND		10	3	ND		5	1.5
Benzene	1	ND		0.5	0.16	ND		1	0.32	ND		0.5	0.16
Bromobenzene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Bromochloromethane	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Bromodichloromethane	50	ND		0.5	0.19	ND		1	0.38	ND		0.5	0.19
Bromoform	50	ND		2	0.65	ND		4	1.3	ND		2	0.65
Bromomethane	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Carbon disulfide	60	ND		5	1	ND		10	2	ND		5	1
Carbon tetrachloride	5	0.3	J	0.5	0.13	ND		1	0.27	ND		0.5	0.13
Chlorobenzene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Chloroethane	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Chloroform	7	0.94	J	2.5	0.7	3.3	J	5	1.4	1.4	J	2.5	0.7
Chloromethane	NS	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
cis-1,2-Dichloroethene	5	ND		2.5	0.7	**7.6**		5	1.4	3.4		2.5	0.7
cis-1,3-Dichloropropene	0.4	ND		0.5	0.14	ND		1	0.29	ND		0.5	0.14
Dibromochloromethane	50	ND		0.5	0.15	ND		1	0.3	ND		0.5	0.15
Dibromomethane	5	ND		5	1	ND		10	2	ND		5	1
Dichlorodifluoromethane	5	ND		5	1	ND		10	2	ND		5	1
Ethyl ether	NS	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Ethylbenzene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Hexachlorobutadiene	0.5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Isopropylbenzene	5	1.8	J	2.5	0.7	ND		5	1.4	ND		2.5	0.7
Methyl tert butyl ether	10	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.17
Methylene chloride	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
n-Butylbenzene	5	2.7		2.5	0.7	ND		5	1.4	ND		2.5	0.7
n-Propylbenzene	5	4.6		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Naphthalene	10	**11**		2.5	0.7	ND		5	1.4	ND		2.5	0.7
o-Chlorotoluene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
o-Xylene	5	2.6		2.5	0.7	ND		5	1.4	ND		2.5	0.7
p-Chlorotoluene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
p-Diethylbenzene	NS	34		2	0.7	ND		4	1.4	ND		2.5	0.7
p-Ethyltoluene	NS	33		2	0.7	ND		4	1.4	ND		2	0.7
p-Isopropyltoluene	5	2.2	J	2.5	0.7	ND		5	1.4	ND		2	0.7
p/m-Xylene	5	3		2.5	0.7	ND		5	1.4	ND		2.5	0.7
sec-Butylbenzene	5	3		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Styrene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
tert-Butylbenzene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Tetrachloroethene	5	**24**		0.5	0.18	**170**		1	0.36	**180**		0.5	0.18
Toluene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
trans-1,2-Dichloroethene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
trans-1,3-Dichloropropene	0.4	ND		0.5	0.16	ND		1	0.33	ND		0.5	0.16
trans-1,4-Dichloro-2-butene	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Trichloroethene	5	0.68		0.5	0.18	**5.4**		1	0.35	4.1		0.5	0.18
Trichlorofluoromethane	5	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Vinyl acetate	NS	ND		5	1	ND		10	2	ND		5	1
Vinyl chloride	2	ND		1	0.07	ND		2	0.14	ND		1	0.07
Xylenes, Total	NS	5.6		2.5	0.7	ND		5	1.4	ND		2.5	0.7
Total VOCs	NS	203.22	-	-	-	186	-	-	-	188.9	-	-	-

Notes:
AWQS: NYSDEC Ambient Water Quality Standard
Class GA: NYSDEC Groundwater Effluent Limitatic
ug/L: Micrograms per liter
ND: Not detected
NS: No Standard
J: Estimated concentration
Bold & Highlighted - Concentration exceeds NYSD

Table 4
HISTORICAL INDOOR-AMBIENT AIR ANALYTICAL RESULTS
Rockfarmer 37th Avenue - NYSDEC Site No. C241212

SAMPLE ID:	NYSDOH	NYSDOH	IA-1A		IA-1A		IA-3		IA-3		IA-5		IA-5		IA-7		IA-7		IA-9		IA-9		IA-10		IA-10		AA-1		AA-1	
LAB ID:	Matrices	Matrices	L2368469-01		L2472663-01		L2368469-02		L2472663-02		L2368469-03		L2472663-03		L2368469-04		L2472663-04		L2368469-05		L2472663-05		L2368469-06		L2472663-06		L2368469-07		L2472663-07	
COLLECTION DATE:	Lower	Upper	11/15/2023		12/10/2024		11/15/2023		12/10/2024		11/15/2023		12/10/2024		11/15/2023		12/10/2024		11/15/2023		12/10/2024		11/15/2023		12/10/2024		11/15/2023		12/10/2024	
SAMPLE MATRIX:	Value	Value	INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR		AMBIENT AIR		AMBIENT AIR	
ANALYTE	(ug/m3)	(ug/m3)	Conc	Q RL			Conc	Q RL			Conc	Q RL			Conc	Q RL			Conc	Q RL			Conc	Q RL			Conc	Q RL		
VOLATILE ORGANIC COMPOUNDS (VOCs) - ug/m3																														
1,1,2,2-Tetrachloroethane	NC	NC	ND	1.37	ND	1.37	ND	1.37	ND	1.37	ND	1.37	ND	1.37	ND	1.37	ND	1.37	ND	1.37	ND	1.37	ND	1.37	ND	1.37	ND	1.37	ND	1.37
1,1,2-Trichloroethane	NC	NC	ND	1.09	ND	1.09	ND	1.09	ND	1.09	ND	1.09	ND	1.09	ND	1.09	ND	1.09	ND	1.09	ND	1.09	ND	1.09	ND	1.09	ND	1.09	ND	1.09
1,1-Dichloroethane	NC	NC	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809
1,2,4-Trichlorobenzene	NC	NC	ND	1.48	ND	1.48	ND	1.48	ND	1.48	ND	1.48	ND	1.48	ND	1.48	ND	1.48	ND	1.48	ND	1.48	ND	1.48	ND	1.48	ND	1.48	ND	1.48
1,2,4-Trimethylbenzene	2	10	1.25	0.983	1.73	0.983	1.26	0.983	1.58	0.983	1.81	0.983	1.29	0.983	ND	0.983	1.5	0.983	1.14	0.983	1.27	0.983	ND	0.983	ND	0.983	**2.57**	0.983	1.04	0.983
1,2-Dibromoethane	NC	NC	ND	1.54	ND	1.54	ND	1.54	ND	1.54	ND	1.54	ND	1.54	ND	1.54	ND	1.54	ND	1.54	ND	1.54	ND	1.54	ND	1.54	ND	1.54	ND	1.54
1,2-Dichlorobenzene	NC	NC	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dichloroethane	NC	NC	ND	0.809	ND	0.809	2.74	0.809	0.955	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809	ND	0.809
1,2-Dichloropropane	NC	NC	ND	0.924	ND	0.924	ND	0.924	ND	0.924	ND	0.924	ND	0.924	ND	0.924	ND	0.924	ND	0.924	ND	0.924	ND	0.924	ND	0.924	ND	0.924	ND	0.924
1,3,5-Trimethylbenzene	2	10	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983
1,3-Butadiene	NC	NC	ND	0.442	ND	0.442	ND	0.442	ND	0.442	ND	0.442	ND	0.442	ND	0.442	ND	0.442	ND	0.442	ND	0.442	ND	0.442	ND	0.442	ND	0.442	ND	0.442
1,3-Dichlorobenzene	NC	NC	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	4.98	1.2	ND	1.2
1,4-Dichlorobenzene	NC	NC	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,4-Dioxane	NC	NC	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721
2,2,4-Trimethylpentane	2	10	1.59	0.934	**3.77**	0.934	1.73	0.934	**3.91**	0.934	**2.04**	0.934	**2.51**	0.934	1.64	0.934	**2.28**	0.934	1.74	0.934	**3.12**	0.934	1.09	0.934	1.23	0.934	**3.25**	0.934	1.42	0.934
2-Butanone	NC	NC	2.93	1.47	2.72	1.47	3.42	1.47	3.1	1.47	1.74	1.47	1.92	1.47	ND	1.47	2.46	1.47	2.42	1.47	ND	1.47	ND	1.47	ND	1.47	7.7	1.47	ND	1.47
2-Hexanone	NC	NC	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82	ND	0.82
3-Chloropropene	NC	NC	ND	0.626	ND	0.626	ND	0.626	ND	0.626	ND	0.626	ND	0.626	ND	0.626	ND	0.626	ND	0.626	ND	0.626	ND	0.626	ND	0.626	ND	0.626	ND	0.626
4-Ethyltoluene	NC	NC	ND	0.983	1.55	0.983	ND	0.983	1.55	0.983	ND	0.983	0.998	0.983	ND	0.983	1.22	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983	ND	0.983
4-Methyl-2-pentanone	NC	NC	ND	2.05	ND	2.05	ND	2.05	ND	2.05	ND	2.05	ND	2.05	ND	2.05	ND	2.05	ND	2.05	ND	2.05	ND	2.05	ND	2.05	ND	2.05	3.31	2.05
Acetone	NC	NC	689	2.38	81.7	2.38	511	2.38	79.1	2.38	113	2.38	40.6	2.38	186	2.38	124	2.38	287	2.38	44.9	2.38	39.9	2.38	15.7	2.38	209	2.38	54.6	2.38
Benzene	2	10	1.97	0.639	**2.56**	0.639	**2.14**	0.639	**2.64**	0.639	**2.4**	0.639	**2.18**	0.639	1.6	0.639	1.76	0.639	**2.06**	0.639	1.38	0.639	1.51	0.639	1.23	0.639	**2.1**	0.639	1.33	0.639
Benzyl chloride	NC	NC	ND	1.04	ND	1.04	ND	1.04	ND	1.04	ND	1.04	ND	1.04	ND	1.04	ND	1.04	ND	1.04	ND	1.04	ND	1.04	ND	1.04	ND	1.04	ND	1.04
Bromodichloromethane	NC	NC	ND	1.34	ND	1.34	ND	1.34	ND	1.34	ND	1.34	ND	1.34	ND	1.34	ND	1.34	ND	1.34	ND	1.34	ND	1.34	ND	1.34	ND	1.34	ND	1.34
Bromoform	NC	NC	ND	2.07	ND	2.07	ND	2.07	ND	2.07	ND	2.07	ND	2.07	ND	2.07	ND	2.07	ND	2.07	ND	2.07	ND	2.07	ND	2.07	ND	2.07	ND	2.07
Bromomethane	NC	NC	ND	0.777	ND	0.777	ND	0.777	ND	0.777	ND	0.777	ND	0.777	ND	0.777	ND	0.777	ND	0.777	ND	0.777	ND	0.777	ND	0.777	ND	0.777	ND	0.777
Carbon disulfide	NC	NC	ND	0.623	ND	0.623	ND	0.623	ND	0.623	ND	0.623	ND	0.623	ND	0.623	ND	0.623	ND	0.623	ND	0.623	ND	0.623	ND	0.623	ND	0.623	ND	0.623
Chlorobenzene	NC	NC	ND	0.921	ND	0.921	ND	0.921	ND	0.921	ND	0.921	ND	0.921	ND	0.921	ND	0.921	ND	0.921	ND	0.921	ND	0.921	ND	0.921	ND	0.921	ND	0.921
Chloroethane	NC	NC	ND	0.528	ND	0.528	ND	0.528	ND	0.528	ND	0.528	ND	0.528	ND	0.528	ND	0.528	ND	0.528	ND	0.528	ND	0.528	ND	0.528	ND	0.528	ND	0.528
Chloroform	NC	NC	ND	0.977	1.54	0.977	ND	0.977	2.27	0.977	ND	0.977	1.4	0.977	ND	0.977	1.21	0.977	ND	0.977	ND	0.977	ND	0.977	ND	0.977	ND	0.977	ND	0.977
Chloromethane	NC	NC	1.07	0.413	1.08	0.413	1.07	0.413	1.12	0.413	1.07	0.413	1.25	0.413	1.04	0.413	1.02	0.413	1.13	0.413	1.01	0.413	1.03	0.413	1.07	0.413	2.52	0.413	1.02	0.413
cis-1,3-Dichloropropene	NC	NC	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908
Cyclohexane	2	10	0.706	0.688	0.792	0.688	0.792	0.688	0.754	0.688	1.07	0.688	1.11	0.688	ND	0.688	ND	0.688	0.764	0.688	ND	0.688	ND	0.688	ND	0.688	ND	0.688	ND	0.688
Dibromochloromethane	NC	NC	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7
Dichlorodifluoromethane	NC	NC	2.22	0.989	2.49	0.989	2.21	0.989	2.37	0.989	2.23	0.989	2.64	0.989	2.62	0.989	2.77	0.989	2.27	0.989	2.37	0.989	2.24	0.989	2.53	0.989	2.21	0.989	2.32	0.989
Ethanol	NC	NC	388	9.42	418	9.42	490	9.42	445	9.42	155	9.42	271	9.42	305	9.42	301	9.42	219	9.42	618	9.42	76.5	9.42	36.2	9.42	927	9.42	95.3	9.42
Ethyl Acetate	NC	NC	26.1	1.8	ND	1.8	16.3	1.8	ND	1.8	2.45	1.8	ND	1.8	3.21	1.8	ND	1.8	2.76	1.8	ND	1.8	ND	1.8	ND	1.8	2.91	1.8	ND	1.8
Ethylbenzene	2	10	1.06	0.869	1.16	0.869	1.21	0.869	1.2	0.869	1.31	0.869	0.899	0.869	0.969	0.869	1.69	0.869	1.14	0.869	ND	0.869	ND	0.869	ND	0.869	**2.06**	0.869	ND	0.869
Freon-113	NC	NC	ND	1.53	ND	1.53	ND	1.53	ND	1.53	ND	1.53	ND	1.53	ND	1.53	ND	1.53	ND	1.53	ND	1.53	ND	1.53	ND	1.53	ND	1.53	ND	1.53
Freon-114	NC	NC	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4
Heptane	6	20	2.56	0.82	2.52	0.82	3	0.82	2.37	0.82	2.13	0.82	2.25	0.82	1.29	0.82	1.57	0.82	1.56	0.82	1.18	0.82	1.05	0.82	ND	0.82	1.24	0.82	0.922	0.82
Hexachlorobutadiene	NC	NC	ND	2.13	ND	2.13	ND	2.13	ND	2.13	ND	2.13	ND	2.13	ND	2.13	ND	2.13	ND	2.13	ND	2.13	ND	2.13	ND	2.13	ND	2.13	ND	2.13
Isopropanol	NC	NC	297	1.23	79.6	2.46	315	1.23	72.8	2.46	246	1.23	165	2.46	430	1.23	248	2.46	440	1.23	90.7	2.46	41.8	1.23	11.5	2.46	44	1.23	11.4	2.46
Methyl tert butyl ether	NC	NC	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721	ND	0.721
Methylene chloride	3	10	2.13	1.74	ND	1.74	1.84	1.74	ND	1.74	ND	1.74	ND	1.74	2.17	1.74	ND	1.74	1.78	1.74	ND	1.74	ND	1.74	ND	1.74	1.97	1.74	ND	1.74
n-Hexane	6	20	2.07	0.705	1.96	0.705	2.51	0.705	1.92	0.705	4.19	0.705	4.05	0.705	1.7	0.705	2.09	0.705	2.93	0.705	1.94	0.705	1.49	0.705	0.913	0.705	1.32	0.705	1.01	0.705
o-Xylene	2	10	1.21	0.869	1.44	0.869	1.39	0.869	1.47	0.869	1.6	0.869	1.11	0.869	1.2	0.869	**2.84**	0.869	1.43	0.869	1.12	0.869	0.921	0.869	ND	0.869	**2.92**	0.869	0.938	0.869
p/m-Xylene	6	20	3.3	1.74	3.44	1.74	3.61	1.74	3.48	1.74	4.43	1.74	2.85	1.74	3.39	1.74	**6.95**	1.74	3.9	1.74	2.25	1.74	2.47	1.74	ND	1.74	**7.47**	1.74	2.55	1.74
Styrene	NC	NC	1.38	0.852	1.05	0.852	1.01	0.852	0.932	0.852	ND	0.852	2.37	0.852	1.69	0.852	2.84	0.852	1.02	0.852	1.78	0.852	5.49	0.852	3.33	0.852	ND	0.852	ND	0.852
Tertiary butyl Alcohol	NC	NC	1.78	1.52	ND	1.52	1.52	1.52	ND	1.52	ND	1.52	ND	1.52	2.19	1.52	ND	1.52	ND	1.52	1.56	1.52	ND	1.52	ND	1.52	10.2	1.52	ND	1.52
Tetrahydrofuran	NC	NC	ND	1.47	ND	1.47	ND	1.47	ND	1.47	ND	1.47	ND	1.47	ND	1.47	ND	1.47	ND	1.47	2.14	1.47	ND	1.47	ND	1.47	ND	1.47	ND	1.47
Toluene	10	50	4.45	0.754	8.1	0.754	4.86	0.754	7.76	0.754	5.39	0.754	5.2	0.754	4.37	0.754	9.35	0.754	4.6	0.754	3.57	0.754	3.18	0.754	2.42	0.754	8.67	0.754	3.64	0.754
trans-1,2-Dichloroethene	NC	NC	ND	0.793	ND	0.793	ND	0.793	ND	0.793	ND	0.793	ND	0.793	ND	0.793	ND	0.793	ND	0.793	ND	0.793	ND	0.793	ND	0.793	ND	0.793	ND	0.793
trans-1,3-Dichloropropene	NC	NC	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908	ND	0.908
Trichlorofluoromethane	NC	NC	1.21	1.12	1.35	1.12	1.22	1.12	1.39	1.12	1.26	1.12	1.45	1.12	1.26	1.12	1.4	1.12	1.25	1.12	1.37	1.12	1.24	1.12	1.43	1.12	1.23	1.12	1.35	1.12
Vinyl bromide	NC	NC	ND	0.874	ND	0.874	ND	0.874	ND	0.874	ND	0.874	ND	0.874	ND	0.874	ND	0.874	ND	0.874	ND	0.874	ND	0.874	ND	0.874	ND	0.874	ND	0.874
1,1,1-Trichloroethane	3	10	**5.18**	0.109	ND	0.109	**3.67**	0.109	ND	0.109	0.518	0.109	ND	0.109	0.878	0.109	ND	0.109	0.611	0.109	ND	0.109	0.164	0.109	ND	0.109	ND	0.109	ND	0.109
1,1-Dichloroethene	0.2	1	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079
Carbon tetrachloride	0.2	1	**0.44**	0.126	**0.478**	0.126	**0.478**	0.126	**0.484**	0.126	**0.447**	0.126	**0.516**	0.126	**0.497**	0.126	**0.497**	0.126	**0.428**	0.126	**0.459**	0.126	**0.421**	0.126	**0.472**	0.126	**0.359**	0.126	**0.472**	0.126
cis-1,2-Dichloroethene	0.2	1	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079	ND	0.079
Tetrachloroethene	3	10	0.712	0.136	0.339	0.136	0.739	0.136	0.325	0.136	1.1	0.136	0.434	0.136	1.27	0.136	0.759	0.136	0.454	0.136	0.325	0.136	0.393	0.136	0.366	0.136	0.332	0.136	0.38	0.136
Trichloroethene	0.2	1	ND	0.107	ND	0.107	ND	0.107	ND	0.107	ND	0.107	ND	0.107	ND	0.107	ND	0.107	ND	0.107	ND	0.107	ND	0.107	ND	0.107	ND	0.107	ND	0.107
Vinyl chloride	0.2	0.2	ND	0.051	ND	0.051	ND	0.051	ND	0.051	ND	0.051	ND	0.051	ND	0.051	ND	0.051	ND	0.051	ND	0.051	ND	0.051	ND	0.051	**0.258**	0.051	ND	0.051

NYSDOH Matrices: Matrix A, B & C Indoor Air Concentration Criteria (May 2017) and Matrix D, E & F Indoor Air Concentration Criteria (February 2024)
BOLD - Exceeds Lower Matrix Value

Appendix A:
IC/EC Certification

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. **C241212**

Site Name **Rockfarmer 37th Avenue**

Site Address: 82-13 37th Avenue Zip Code: 11372
City/Town: Jackson Heights
County: Queens
Site Acreage: 0.459

Reporting Period: ~~April 28, 2024 to April 28, 2025~~
February 1, 2024 to February 28, 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? Building permits for ground floor tenant improvement work.	X	☐
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

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

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

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

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. C241212 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
1456-35	37th Avenue Owner LLC	Ground Water Use Restriction Soil Management Plan Monitoring Plan O&M Plan IC/EC Plan Landuse Restriction Site Management Plan

- Requires compliance with the approved site management plan
- limits the use of the property to restricted residential, commercial and industrial uses only
- Use of groundwater underlying the property is prohibited without treatment
- Requires the property owner to complete and submit a periodic certification
- The property owner will provide a periodic certification of institutional and engineering controls
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP
- Allow the NYSDEC access to the site
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP
- Operation, Monitoring and Maintenance (OM&M) of the Sub Slab Depressurization shall be performed as defined in this SMP

1456-41	37th Avenue Owner LLC	Monitoring Plan Landuse Restriction Ground Water Use Restriction Soil Management Plan Site Management Plan O&M Plan IC/EC Plan

- Requires compliance with the approved site management plan
- limits the use of the property to restricted residential, commercial and industrial uses only
- Use of groundwater underlying the property is prohibited without treatment
- Requires the property owner to complete and submit a periodic certification
- The property owner will provide a periodic certification of institutional and engineering controls
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP
- Allow the NYSDEC access to the site
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP
- Operation, Monitoring and Maintenance (OM&M) of the Sub Slab Depressurization shall be performed as defined in this SMP

Box 4

Description of Engineering Controls

Parcel	Engineering Control
1456-35	Vapor Mitigation Cover System Monitoring Wells

- Cover system which is comprised of concrete and brick-covered sidewalks and concrete building slab
- A SSDS consists of 14 below-grade extraction points installed within horizontal trenches

1456-41

Parcel	Engineering Control
	Monitoring Wells Vapor Mitigation Cover System

- Cover system which is comprised of concrete and brick-covered sidewalks and concrete building slab
- A SSDS consists of 14 below-grade extraction points installed within horizontal trenches

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. C241212

Box 6

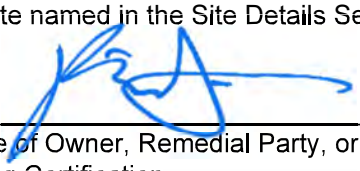
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Richard J. Tobia (print name) at 2 Grand Central, 140 E 45th St., 15th Fl, NY, NY 10017, (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

April 17, 2025
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Richard J. Tobia, PE (print name) at 2 Grand Central, 140 E 45th St., 15th Fl, NY, NY 10017, (print business address)

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

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		April 17, 2025

Appendix B:
Site Inspection Forms

SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

GENERAL INFORMATION	
Date:	3/19/24
Weather/Temperature:	Sunny 39°
Inspector Name:	B. Gomes
Inspector Company:	VERTEX
Reason for Inspection (Routine/Non-Routine):	Quarterly

SITE CONDITIONS		
Cover System Disturbance(s):	Yes / (No)	Description:
Slab Cracks/Widening Joints:	Yes / (No)	Description:
Slab Penetrations:	Yes / (No)	Description:
HVAC System Changes:	Yes / (No)	Description:
Building Renovation(s):	(Yes) / No	Description: Shake Shack under reno. Electric in Rite Aid Space.
Site Use Change:	Yes / (No)	Description:
Tenant Operation Change:	Yes / (No)	Description:
Additional Comments:		

Note: If "Yes" to any of the above, include map showing locations and photo-documentation.

SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

SUB-SLAB DEPRESSURIZATION SYSTEM		
Is the system operating?	Yes / No	Comments:
Is the alarm warning light on?	Yes / No	Comments:
Performed alarm system test?	Yes / No	Comments: Good.
Blower Evaluation: Visible damage? Excessive fan vibration or noise?	 Yes / No Yes / No	Comments:
Piping Evaluation: Visible damage to piping? Audible leaks (whistling) identified? Unauthorized piping connections? Visible damage to exhaust silencer? Visible damage to pressure gauges?	 Yes / No Yes / No Yes / No Yes / No Yes / No	Comments:
Repairs or Component Replacement:		
System Operation Data		
Vacuum (in. WC)		
Sub-Slab Monitoring Point 1:		
Sub-Slab Monitoring Point 2:		
Sub-Slab Monitoring Point 3:		
Sub-Slab Monitoring Point 4:		
Sub-Slab Monitoring Point 5:		
Sub-Slab Monitoring Point 6:		
Sub-Slab Monitoring Point 7:		
Sub-Slab Monitoring Point 8:		
Sub-Slab Monitoring Point 9:		
Sub-Slab Monitoring Point 10:		
Dwyer Minihelic® Gauge 1:	0.5 in Hg	
Dwyer Minihelic® Gauge 2:	1 in Hg	

SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

SUB-SLAB DEPRESSURIZATION SYSTEM	
Dwyer Minihelic® Gauge 3:	3-6 in Hg
Dwyer Minihelic® Gauge 4:	1.5 in Hg
Air Flow (CFM)	
Riser (Basement Storage Room):	
Photoionization Detector Screening (ppm)	
Sub-Slab Monitoring Point 1:	
Sub-Slab Monitoring Point 2:	
Sub-Slab Monitoring Point 3:	
Sub-Slab Monitoring Point 4:	
Sub-Slab Monitoring Point 5:	
Sub-Slab Monitoring Point 6:	
Sub-Slab Monitoring Point 7:	
Sub-Slab Monitoring Point 8:	
Sub-Slab Monitoring Point 9:	
Sub-Slab Monitoring Point 10:	
Other (i.e., Slab Penetration)	

SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

GENERAL INFORMATION	
Date:	6/13/24
Weather/Temperature:	Sunny
Inspector Name:	B. Gomes
Inspector Company:	VERTEX
Reason for Inspection (Routine/Non-Routine):	Quarterly

SITE CONDITIONS		
Cover System Disturbance(s):	Yes / (No)	Description:
Slab Cracks/Widening Joints:	Yes / (No)	Description:
Slab Penetrations:	Yes / (No)	Description:
HVAC System Changes:	(Yes) / No	Description: new system for Shake Shack through S parking garage
Building Renovation(s):	Yes / No	Description: first floor Shake Shack nothing in basement
Site Use Change:	Yes / (No)	Description:
Tenant Operation Change:	Yes / (No)	Description:
Additional Comments:	vapor pt #2 missing lid cover	

Note: If "Yes" to any of the above, include map showing locations and photo-documentation.

SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

SUB-SLAB DEPRESSURIZATION SYSTEM		
Is the system operating?	(Yes) / No	Comments:
Is the alarm warning light on?	(Yes) / No	Comments:
Performed alarm system test?	(Yes) / No	Comments:
Blower Evaluation: Visible damage? Excessive fan vibration or noise?	 Yes / (No) Yes / (No)	Comments:
Piping Evaluation: Visible damage to piping? Audible leaks (whistling) identified? Unauthorized piping connections? Visible damage to exhaust silencer? Visible damage to pressure gauges?	 Yes / (No) Yes / (No) Yes / (No) Yes / (No) Yes / (No)	Comments:
Repairs or Component Replacement:		

System Operation Data	
Vacuum (in. WC)	
Sub-Slab Monitoring Point 1:	
Sub-Slab Monitoring Point 2:	need cap.
Sub-Slab Monitoring Point 3:	
Sub-Slab Monitoring Point 4:	
Sub-Slab Monitoring Point 5:	
Sub-Slab Monitoring Point 6:	
Sub-Slab Monitoring Point 7:	
Sub-Slab Monitoring Point 8:	
Sub-Slab Monitoring Point 9:	
Sub-Slab Monitoring Point 10:	
Dwyer Minihelic® Gauge 1:	1.5
Dwyer Minihelic® Gauge 2:	2.5

SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

SUB-SLAB DEPRESSURIZATION SYSTEM	
Dwyer Minihelic® Gauge 3:	3"
Dwyer Minihelic® Gauge 4:	3"
Air Flow (CFM)	
Riser (Basement Storage Room):	
Photoionization Detector Screening (ppm)	
Sub-Slab Monitoring Point 1:	
Sub-Slab Monitoring Point 2:	
Sub-Slab Monitoring Point 3:	
Sub-Slab Monitoring Point 4:	
Sub-Slab Monitoring Point 5:	
Sub-Slab Monitoring Point 6:	
Sub-Slab Monitoring Point 7:	
Sub-Slab Monitoring Point 8:	
Sub-Slab Monitoring Point 9:	
Sub-Slab Monitoring Point 10:	
Other (i.e., Slab Penetration)	

SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

GENERAL INFORMATION	
Date:	9/17/24
Weather/Temperature:	71° cloudy
Inspector Name:	B Gomes
Inspector Company:	VERTEX
Reason for Inspection (Routine/Non-Routine):	Quarterly

SITE CONDITIONS		
Cover System Disturbance(s):	(Yes) / No	Description: minor slab penetrations for sewer line / layout for a few
Slab Cracks/Widening Joints:	Yes / (No)	Description:
Slab Penetrations:	(Yes) / No	Description: bathroom by LL6 already done bathroom by LL12 to be redone 9/21
HVAC System Changes:	Yes / (No)	Description:
Building Renovation(s):	(Yes) / No	Description: bathroom / sewer line reno. basement vacant spaces turning to offices
Site Use Change:	Yes / (No)	Description:
Tenant Operation Change:	(Yes) / No	Description: rite aid space 2/3 to a restaurant / 1/3, basement into offices
Additional Comments:	SS-3 work being done. - cap off/gone. LL23 into office space. Shake shack done	

Note: If "Yes" to any of the above, include map showing locations and photo-documentation.

SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

SUB-SLAB DEPRESSURIZATION SYSTEM		
Is the system operating?	(Yes) / No	Comments:
Is the alarm warning light on?	(Yes) / No	Comments: only when tubing is out
Performed alarm system test?	(Yes) / No	Comments:
Blower Evaluation: Visible damage? Excessive fan vibration or noise?	 Yes / (No) Yes / (No)	Comments:
Piping Evaluation: Visible damage to piping? Audible leaks (whistling) identified? Unauthorized piping connections? Visible damage to exhaust silencer? Visible damage to pressure gauges?	 Yes / (No) Yes / (No) Yes / (No) Yes / (No) Yes / (No)	Comments:
Repairs or Component Replacement:		
System Operation Data		
Vacuum (in. WC)		
Sub-Slab Monitoring Point 1:		
Sub-Slab Monitoring Point 2:	Cap missing, pin still there	
Sub-Slab Monitoring Point 3:	Gone, glove & tape	
Sub-Slab Monitoring Point 4:		
Sub-Slab Monitoring Point 5:		
Sub-Slab Monitoring Point 6:		
Sub-Slab Monitoring Point 7:		
Sub-Slab Monitoring Point 8:		
Sub-Slab Monitoring Point 9:		
Sub-Slab Monitoring Point 10:		
Dwyer Minihelic® Gauge 1:	2"	
Dwyer Minihelic® Gauge 2:	2"	

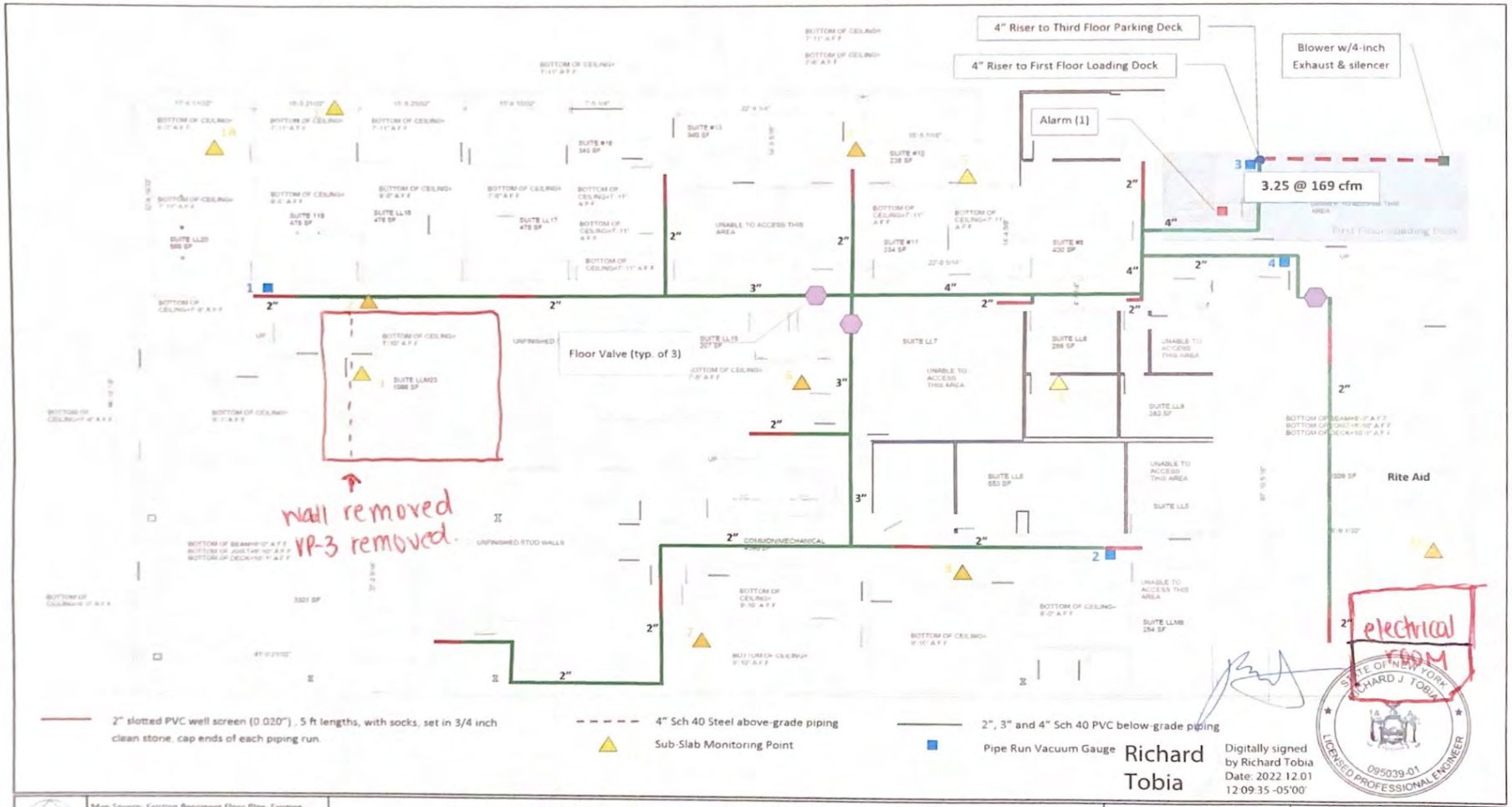
SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

SUB-SLAB DEPRESSURIZATION SYSTEM	
Dwyer Minihelic® Gauge 3:	3"
Dwyer Minihelic® Gauge 4:	3"
Air Flow (CFM)	
Riser (Basement Storage Room):	
Photoionization Detector Screening (ppm)	
Sub-Slab Monitoring Point 1:	
Sub-Slab Monitoring Point 2:	
Sub-Slab Monitoring Point 3:	
Sub-Slab Monitoring Point 4:	
Sub-Slab Monitoring Point 5:	
Sub-Slab Monitoring Point 6:	
Sub-Slab Monitoring Point 7:	
Sub-Slab Monitoring Point 8:	
Sub-Slab Monitoring Point 9:	
Sub-Slab Monitoring Point 10:	
Other (i.e., Slab Penetration)	

3 from door outside 82".

64" from bathroom door.



Map Source: Existing Basement Floor Plan, Existing Conditions Survey Inc., 11/30/2017

SUB-SLAB DEPRESSURIZATION SYSTEM LAYOUT

82-13 37th Avenue
Jackson Heights, Queens County, New York

VERTEX ENGINEERING, PC
147 WEST 35TH STREET, 19TH FLOOR
NEW YORK, NEW YORK 10001

FIGURE 10

VERTEX Project No. 48122

10

118" from new electric wall

70" from exterior wall

SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

GENERAL INFORMATION	
Date:	12/10/24
Weather/Temperature:	overcast 45°
Inspector Name:	B. Gomes
Inspector Company:	VERTEX
Reason for Inspection (Routine/Non-Routine):	Annual

SITE CONDITIONS		
Cover System Disturbance(s):	Yes / (No)	Description:
Slab Cracks/Widening Joints:	Yes / (No)	Description:
Slab Penetrations:	Yes / (No)	Description:
HVAC System Changes:	Yes / (No)	Description:
Building Renovation(s):	Yes / (No)	Description:
Site Use Change:	Yes / (No)	Description:
Tenant Operation Change:	Yes / (No)	Description:
Additional Comments:		

Note: If "Yes" to any of the above, include map showing locations and photo-documentation.

SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

SUB-SLAB DEPRESSURIZATION SYSTEM		
Is the system operating?	(Yes) / No	Comments:
Is the alarm warning light on?	Yes / (No)	Comments:
Performed alarm system test?	(Yes) / No	Comments: GOOD
Blower Evaluation: Visible damage? Excessive fan vibration or noise?	 Yes / (No) Yes / (No)	Comments:
Piping Evaluation: Visible damage to piping? Audible leaks (whistling) identified? Unauthorized piping connections? Visible damage to exhaust silencer? Visible damage to pressure gauges?	 Yes / (No) Yes / (No) Yes / (No) Yes / (No) Yes / (No)	Comments:
Repairs or Component Replacement:		
System Operation Data		
Vacuum (in. WC)		
Sub-Slab Monitoring Point 1:	-0.011	
Sub-Slab Monitoring Point 2:	-0.080	
Sub-Slab Monitoring Point 3:	-0.073	
Sub-Slab Monitoring Point 4:	-0.065	
Sub-Slab Monitoring Point 5:	-0.086	
Sub-Slab Monitoring Point 6:	-0.095	
Sub-Slab Monitoring Point 7:	-0.014	
Sub-Slab Monitoring Point 8:	-0.083	
Sub-Slab Monitoring Point 9:	-0.068	
Sub-Slab Monitoring Point 10:	-0.111	
Dwyer Minihelic® Gauge 1:	1.5"	
Dwyer Minihelic® Gauge 2:	2.0"	

SITE INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

SUB-SLAB DEPRESSURIZATION SYSTEM	
Dwyer Minihelic® Gauge 3:	3.0"
Dwyer Minihelic® Gauge 4:	2.5"
Air Flow (CFM)	
Riser (Basement Storage Room):	
Photoionization Detector Screening (ppm)	
Sub-Slab Monitoring Point 1:	0.0
Sub-Slab Monitoring Point 2:	0.0
Sub-Slab Monitoring Point 3:	0.0
Sub-Slab Monitoring Point 4:	0.0
Sub-Slab Monitoring Point 5:	0.0
Sub-Slab Monitoring Point 6:	0.0
Sub-Slab Monitoring Point 7:	0.0
Sub-Slab Monitoring Point 8:	0.0
Sub-Slab Monitoring Point 9:	0.0
Sub-Slab Monitoring Point 10:	0.0
Other (i.e., Slab Penetration)	

Appendix C:
Field Sampling Forms – Groundwater

MONITORING WELL INSPECTION FORM

Rockfarmer 37th Avenue – Site No. C241212
82-13 37th Avenue
Jackson Heights, Queens County, New York 11372

Inspection Date: 12/10/24

Inspected By: BG, AT & MH

Well ID	Well Cover Condition	Locking Well Cap Condition	Comments (Maintenance Items)	DTW
MW-1	GOOD	GOOD	All bolts on no concrete around well	30.60
MW-2	GOOD	GOOD	All bolts	32.33
MW-3	GOOD	GOOD	All bolts on	30.81
MW-4	GOOD	GOOD	missing bolts, broken into	DRY @ 30.25
MW-5	GOOD	GOOD	All bolts on.	30.11
MW-6	GOOD	GOOD	All bolts on	32.60
MW-7	GOOD	GOOD	All bolts on	31.92
MW-8	GOOD	GOOD	All bolts here.	30.29
MW-9	GOOD	GOOD	All bolts on	32.84
MW-10	GOOD	GOOD	All bolts on	21.02

VERTEX

Volume Groundwater Sampling Form

Page ___ of ___

Project No. 10172.UK Well ID MW-1 Date 12/10/2024

Project Name/Location Rockfarmers Weather Overcast, 45°F

Casing Diameter (in.) ~~33.78~~ 1" Gallon/Foot Conversions 0.75" = 0.02, 1" = 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47 Depth to Product (top) ___ Dept to Product (bottom) ___ AT Field Technician

Total Depth (ft below TOC) 33.78 - Static Water Level 30.67 = Water Column in Well (ft) 3.11 x 0.04 Gallons/Foot

= Calc 1 Volume (gals) 0.1244 X 3 = Calc 3 Volume (gals) 0.37

Purge Method:
Centrifugal ___
Submersible ___
Disp. Bailer ___
Other ___

Pump Intake (ft-below TOC) ___

___ Well Casing Material

Start Time: ___ End Time: ___

Time (24-hr)	Depth to Water (ft)	Gallons Purged	Temp. (°C)	pH	Redox (mV)	Cond mS/cm	Turb. (NTU)	DO (mg/L)	Appearance Color	Appearance Odor
10:57	30.71	0.1	15.46	7.56	177	1.68	645	9.61	tan	N
11:03	30.74	0.2	16.45	7.49	171	1.73	118	9.29	clear	N
1110	30.76	0.37	16.57	7.49	169	1.71	54.3	7.80	↓	↓

Actual Gallons Purged: ___

Sample Time: 11:10 **Sampled by:** AT **Sampling Method:** Tubing

Constituents Sampled	Container	Number of Bottles	Preservative
VOCs + TICs	Amber Vials	3	HCL

MW-1 @ 11:10

Well Information

Well Location: ___ Condition of Well Pad and Lid: ___

Condition of Well: ___ Plug: Yes / No

Well Completion: Flush Mount / Stick Up Bolts: Yes / No

NOTES: ___

MW-2

VERTEX

Volume Groundwater Sampling Form

Page ___ of ___

Project No. 10172.UK Well ID MW-2 Date 12/10/2024

Project Name/Location Rock Farms Weather Overcast, 45F

Casing Diameter (in.) 1" Gallon/Foot Conversions 0.75" = 0.02 1" = 0.04 2" = 0.16 4" = 0.65 6" = 1.47 Depth to Product (top) ___ Dept to Product (bottom) ___ AT Field Technician

Total Depth (ft below TOC) 37.99 - Static Water Level 32.33 = Water Column in Well (ft) 5.66 x 0.04 Gallons/Foot

= Calc 1 Volume (gals) 0.224 X 3 = Calc 3 Volume (gals) 0.679

Purge Method: Centrifugal ___ Submersible ___ Disp. Bailer ___ Other Bladder

Pump Intake (ft. below TOC) ___

Well Casing Material ___

Start Time: End Time:

Time (24-hr)	Depth to Water (ft)	Gallons Purged	Temp. (°C)	pH	Redox (mV)	Cond mS/cm	Turb. (NTU)	DO (mg/L)	Appearance Color	Appearance Odor
11:49	32.39	0.20	15.22	7.51	157	1.24	137	9.57	tan	N
11:56	32.44	0.40	16.22	7.31	170	1.41	30.9	9.36	clear	N
12:04	32.48	0.60	16.47	7.21	176	1.46	37.9	4.91	N	N
12:09	32.49	0.70	16.79	7.21	168	1.43	9.7	5.14	N	N

Actual Gallons Purged: ___

Sample Time: 12:10 **Sampled by:** AT **Sampling Method:** Tubing

Constituents Sampled	Container	Number of Bottles	Preservative
VOCs + TICs	Amber Vials	3	HCL

MW-2 C 12:10

Well Information

Well Location: ___

Condition of Well: ___

Well Completion: Flush Mount / Stick Up

Condition of Well Pad and Lid: ___

Plug: Yes / No

Bolts: Yes / No

NOTES: ___

VERTEX

Volume Groundwater Sampling Form

Project No. 10172.LK | Well ID MW-3 | Date 12/10/24

Project Name/Location Meatfarmer | Weather Overcast, 45F

Field Technician AT

Casing Diameter (in.) 1

Gallon/Foot Conversions: 0.75" = 0.02, 1" = 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47

Depth to Product (top) ____ Dept to Product (bottom) ____

Total Depth (ft below TOC) 38.10 - Static Water Level 30.81 = Water Column in Well (ft) 7.29 x ~~0.16~~ 0.04 Gallons/Foot

= Calc 1 Volume (gals) 0.29 ~~16~~ x 3 = Calc 3 Volume (gals) 0.87 gals

Purge Method:
Centrifugal ____
Submersible ____
Disp. Bailer ____
Other Bladder Pump

Pump Intake (ft-below TOC) ____

Well Casing Material ____

Start Time: ____ End Time: ____

Time (24-hr)	Depth to Water (ft)	Gallons Purged	Temp. (°C)	pH	Redox (mV)	Cond mS/cm	Turb. (NTU)	DO (mg/L)	Appearance Color	Appearance Odor
09:51		0.25 ~~1.60~~	~~7.44~~ 15.60	~~11.2~~ 7.43	2.143	2.466	277	9.27	clear	No
09:58		0.5	16.67	7.35	131	2.85	171	9.28	↓	↓
10:03		0.75	16.84	7.35	128	2.84	95.1	7.19	↓	↓
10:08		0.9	17.07	7.35	154	2.85	56.5	8.62	↓	↓

Actual Gallons Purged: ____

Sample Time:	Sampled by:	Sampling Method:		
10:10	AT	TUBING		
Constituents Sampled	**Container**	**Number of Bottles**	**Preservative**	
VOCs + TICs	Amber Vials	3	HCL	

FIELD BLANK @ 10:04

MW-3 @ 10:10 / MW-3 Diplicate @ 10:15

Well Information

Well Location: ____ Condition of Well Pad and Lid: ____

Condition of Well: ____ Plug: Yes / No

Well Completion: Flush Mount / Stick Up Bolts: Yes / No

NOTES:

VERTEX

Volume Groundwater Sampling Form

Page ___ of ___

Project No. 10172.LK Well ID MW-8 Date 12/10/2024

Project Name/Location Rockfarmer Weather Overcast 43F

Casing Diameter (in.) ~~2"~~ 2" Gallon/Foot Conversions 0.75" = 0.02, 1" = 0.04, (2" = 0.16), 4" = 0.65, 6" = 1.47 Depth to Product (top) ___ Dept to Product (bottom) ___ AT Field Technician

Total Depth (ft below TOC) 37.99 - Static Water Level 30.29 = Water Column in Well (ft) 7.68 x 0.16 Gallons/Foot

= Calc 1 Volume (gals) 1.23 X 3 = Calc 3 Volume (gals) 3.69

Purge Method: Centrifugal ___ Submersible ___ Disp. Bailer ___ Other ___ Pump Intake (ft-below TOC) ___ ___ Well Casing Material

Start Time: ___ End Time: ___

Time (24-hr)	Depth to Water (ft)	Gallons Purged	Temp. (°C)	pH	Redox (mV)	Cond mS/cm	Turb. (NTU)	DO (mg/L)	Appearance Color	Appearance Odor
13:54	30.20	0.5	17.54	7.62	152	1.76	>1000	6.05	tan	N
14:00	30.30	1.5	18.34	7.44	178	1.68	291	5.61	clear	N
14:06	30.31	2.5	18.63	7.42	177	1.67	160	8.81	N	N
14:12	30.32	4.0	18.68	7.41	177	1.65	90.9	5.59	N	N

Actual Gallons Purged: ___

Sample Time: 14:25 **Sampled by:** AT **Sampling Method:** Bailer

Constituents Sampled	Container	Number of Bottles	Preservative
VOCs + TICs	Amber Vials	3	HCL

MW-8 @ 14:25

Well Information

Well Location: ___

Condition of Well: ___

Well Completion: Flush Mount / Stick Up

Condition of Well Pad and Lid: ___

Plug: Yes / No

Bolts: Yes / No

NOTES: ___

VERTEX

Volume Groundwater Sampling Form

Page ___ of ___

Project No. 10172.LK Well ID MW-10 Date 12/10/2024

Project Name/Location Rockfarmer Weather Overcast, 45°F

Casing Diameter (in.) 2" Gallon/Foot Conversions 0.75" = 0.02, 2" = 0.16, 3", 6" = 1.47, 1" = 0.04, 4" = 0.65 Depth to Product (top) ___ Dept to Product (bottom) ___ AT Field Technician

Total Depth (ft below TOC) 29.21 - Static Water Level 21.02 = Water Column in Well (ft) 8.19 x 0.04 Gallons/Foot

= Calc 1 Volume (gals) 1.31 x 3 = Calc 3 Volume (gals) 3.93

Purge Method: Centrifugal ___ Submersible ___ Disp. Bailer ___ Other ___ Pump Intake (ft-below TOC) ___ ___ Well Casing Material

Start Time: ___ End Time: ___

Time (24-hr)	Depth to Water (ft)	Gallons Purged	Temp. (°C)	pH	Redox (mV)	Cond mS/cm	Turb (NTU)	DO (mg/L)	Appearance Color	Appearance Odor
12:43	21.03	0.25	16.95	7.34	161	1.66	>1000	9.19	tan	N
12:55	21.04	1.0	18.56	7.44	168	1.68	293	5.82	clear	N
13:03	21.03	2.0	19.57	7.45	174	1.67	170	5.90	↓	↓
13:12	21.03	3.0	18.46	7.57	176	1.64	97.0	9.69	↓	↓
13:25	21.04	4.0	19.43	7.47	169	1.64	63.2	5.53		

Actual Gallons Purged: ___

Sample Time: AT 13:25 **Sampled by:** AT **Sampling Method:** Bailer

Constituents Sampled	Container	Number of Bottles	Preservative
VOCs + TICs	Amber Vials	3	HCL

MW-10 C 13:25

Well Information

Well Location: ___ Condition of Well Pad and Lid: ___

Condition of Well: ___ Plug: Yes / No

Well Completion: Flush Mount / Stick Up Bolts: Yes / No

NOTES:

Appendix D:
Drum Disposal Manifest

5878428

3/13

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N / A	1	(267) 406-0083	45668

GENERATOR

5. Generator's Name and Mailing Address
37th Avenue Owner LLC
42-01 235th Street
Douglaston NY 11363
Generator's Phone: 718 229.4488

Generator's Site Address (if different than mailing address)
37th Avenue Owner LLC
82-13 37th Avenue
Jackson Heights NY 11372

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

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Water Non-DOT Regulated Material	1	DM	40	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
9.1)1650061-55 Gal.
Doc#

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

Generator's/Offeror's Printed/Typed Name: Agent for 37th Avenue Owner LLC
Signature: BLJ
Month 3 Day 6 Year 25

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Francis M. Shane
Signature:
Month 3 Day 6 Year 25

Transporter 2 Printed/Typed Name: Gun Destruction
Signature:
Month 3 Day 11 Year 25

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

Facility's Phone:

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

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

Printed/Typed Name: Jess Bockel
Signature:
Month 3 Day 13 Year 25

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

CleanEarth

Generator: 642278 - 37TH AVENUE OWNER LLC
82-13 37TH AVENUE
JACKSON HEIGHTS NY, 11372
EPA ID: CESQG

Facility: REPUBLIC ENV SYS (PA) LLC
2869 SANDSTONE DRIVE
HATFIELD PA, 19440
EPA ID: PAD085690592

Manifest #: 45868
Waste Receipt #: HAT-R8685
Date Received: 03/13/2025

Line	Profile	Material Description	Treatment/ Disposal Description
1	1650061-02	NON-RCRA, NON-DOT REGULATED MATERIAL	H070 CHEMICAL TREATMENT (REDUCTION/DESTRUCTION/OXIDATION/PRECIPITATION)

Name: MARCIA THOMAS

Signature : Marcia Thomas

Title : Logistic Coordinator

Appendix E:
Laboratory Report – Groundwater

ANALYTICAL REPORT

Lab Number:	L2472578
Client:	The Vertex Companies, Inc. 3322 US Highway 22 West Suite 907 Branchburg, NJ 08876
ATTN:	Tim Biercz
Phone:	(732) 414-2224
Project Name:	ROCK FARMER
Project Number:	10172.LK
Report Date:	12/18/24

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
Report Date: 12/18/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2472578-01	MW-1	WATER	82-13 37TH AVE	12/10/24 11:10	12/11/24
L2472578-02	MW-2	WATER	82-13 37TH AVE	12/10/24 12:10	12/11/24
L2472578-03	MW-3	WATER	82-13 37TH AVE	12/10/24 10:10	12/11/24
L2472578-04	MW-3-DUPLICATE	WATER	82-13 37TH AVE	12/10/24 10:15	12/11/24
L2472578-05	MW-8	WATER	82-13 37TH AVE	12/10/24 14:25	12/11/24
L2472578-06	MW-10	WATER	82-13 37TH AVE	12/10/24 13:25	12/11/24
L2472578-07	FIELD BLANK	WATER	82-13 37TH AVE	12/10/24 10:04	12/11/24
L2472578-08	TRIP BLANK	WATER	82-13 37TH AVE	12/10/24 00:00	12/11/24

Project Name:	ROCK FARMER	**Lab Number:**	L2472578
Project Number:	10172.LK	**Report Date:**	12/18/24

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 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:	ROCK FARMER	**Lab Number:**	L2472578
Project Number:	10172.LK	**Report Date:**	12/18/24

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2472578-06: The analysis was performed utilizing a compromised vial.

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 12/18/24

ORGANICS

VOLATILES

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-01
Client ID: MW-1
Sample Location: 82-13 37TH AVE
Date Collected: 12/10/24 11:10
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/17/24 11:25
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	3.8		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	130		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-01 Date Collected: 12/10/24 11:10

Client ID: MW-1 Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	3.8		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	5.8		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	5.8		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-01 Date Collected: 12/10/24 11:10

Client ID: MW-1 Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	101		70-130

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-02
Client ID: MW-2
Sample Location: 82-13 37TH AVE
Date Collected: 12/10/24 12:10
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/17/24 11:00
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	3.6		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.33	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-02 Date Collected: 12/10/24 12:10

Client ID: MW-2 Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-02 Date Collected: 12/10/24 12:10

Client ID: MW-2 Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	100		70-130

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-03
Client ID: MW-3
Sample Location: 82-13 37TH AVE
Date Collected: 12/10/24 10:10
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/17/24 11:49
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	1.3	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	120		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-03 Date Collected: 12/10/24 10:10

Client ID: MW-3 Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	2.8		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.8	J	ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	1.8	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-03 Date Collected: 12/10/24 10:10

Client ID: MW-3 Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	101		70-130

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-04
Client ID: MW-3-DUPLICATE
Sample Location: 82-13 37TH AVE
Date Collected: 12/10/24 10:15
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/17/24 13:27
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	1.2	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	120		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-04 Date Collected: 12/10/24 10:15

Client ID: MW-3-DUPLICATE Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	2.8		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.8	J	ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	1.8	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-04 Date Collected: 12/10/24 10:15

Client ID: MW-3-DUPLICATE Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	103		70-130

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-05
Client ID: MW-8
Sample Location: 82-13 37TH AVE
Date Collected: 12/10/24 14:25
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/17/24 13:51
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	2.3	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	140		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-05 Date Collected: 12/10/24 14:25

Client ID: MW-8 Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	2.7		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.5	J	ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	1.5	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-05 Date Collected: 12/10/24 14:25

Client ID: MW-8 Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-06
Client ID: MW-10
Sample Location: 82-13 37TH AVE
Date Collected: 12/10/24 13:25
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/18/24 12:00
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	1.4	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	180		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-06 Date Collected: 12/10/24 13:25

Client ID: MW-10 Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	4.1		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	3.4		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	3.4		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-06 Date Collected: 12/10/24 13:25

Client ID: MW-10 Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-07
Client ID: FIELD BLANK
Sample Location: 82-13 37TH AVE
Date Collected: 12/10/24 10:04
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/17/24 10:36
Analyst: PID

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

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-07 Date Collected: 12/10/24 10:04

Client ID: FIELD BLANK Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-07 Date Collected: 12/10/24 10:04

Client ID: FIELD BLANK Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	101		70-130

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-08
Client ID: TRIP BLANK
Sample Location: 82-13 37TH AVE
Date Collected: 12/10/24 00:00
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/17/24 22:24
Analyst: MKS

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

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-08 Date Collected: 12/10/24 00:00

Client ID: TRIP BLANK Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: ROCK FARMER **Lab Number:** L2472578

Project Number: 10172.LK **Report Date:** 12/18/24

SAMPLE RESULTS

Lab ID: L2472578-08 Date Collected: 12/10/24 00:00

Client ID: TRIP BLANK Date Received: 12/11/24

Sample Location: 82-13 37TH AVE Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/17/24 08:34
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG2010261-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/17/24 08:34
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG2010261-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/17/24 08:34
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG2010261-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	100		70-130

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/17/24 21:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG2010767-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/17/24 21:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG2010767-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: ROCK FARMER
Project Number: 10172.LK
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/17/24 21:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG2010767-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	102		70-130

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/18/24 11:38
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG2010816-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/18/24 11:38
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG2010816-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/18/24 11:38
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG2010816-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG2010261-3 WG2010261-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	120		110		70-130	9		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	90		91		63-132	1		20
1,2-Dichloropropane	120		110		70-130	9		20
Dibromochloromethane	99		99		63-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	90		89		70-130	1		20
Chlorobenzene	100		98		75-130	2		20
Trichlorofluoromethane	85		87		62-150	2		20
1,2-Dichloroethane	120		120		70-130	0		20
1,1,1-Trichloroethane	98		97		67-130	1		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	94		94		70-130	0		20
Bromoform	92		92		54-136	0		20
1,1,2,2-Tetrachloroethane	110		100		67-130	10		20
Benzene	100		100		70-130	0		20
Toluene	110		100		70-130	10		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	100		98		64-130	2		20
Bromomethane	76		75		39-139	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG2010261-3 WG2010261-4								
Vinyl chloride	110		100		55-140	10		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	97		94		70-130	3		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	97		95		70-130	2		20
1,3-Dichlorobenzene	98		97		70-130	1		20
1,4-Dichlorobenzene	99		96		70-130	3		20
Methyl tert butyl ether	96		100		63-130	4		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	98		95		70-130	3		20
Dibromomethane	100		96		70-130	4		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	110		120		70-130	9		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	65		66		36-147	2		20
Acetone	110		120		58-148	9		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	130		120		63-138	8		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	100		98		59-130	2		20
2-Hexanone	100		98		57-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG2010261-3 WG2010261-4								
Bromochloromethane	94		92		70-130	2		20
2,2-Dichloropropane	100		98		63-133	2		20
1,2-Dibromoethane	99		97		70-130	2		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	95		95		70-130	0		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		99		70-130	1		20
tert-Butylbenzene	97		96		70-130	1		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	88		91		41-144	3		20
Hexachlorobutadiene	82		80		63-130	2		20
Isopropylbenzene	99		98		70-130	1		20
p-Isopropyltoluene	98		97		70-130	1		20
Naphthalene	81		82		70-130	1		20
n-Propylbenzene	110		100		69-130	10		20
1,2,3-Trichlorobenzene	85		83		70-130	2		20
1,2,4-Trichlorobenzene	84		83		70-130	1		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	100		100		56-162	0		20
p-Diethylbenzene	96		96		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG2010261-3 WG2010261-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	89		90		70-130	1		20
Ethyl ether	120		110		59-134	9		20
trans-1,4-Dichloro-2-butene	120		120		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	122		116		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	99		99		70-130

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Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG2010767-3 WG2010767-4								
Methylene chloride	100		99		70-130	1		20
1,1-Dichloroethane	110		120		70-130	9		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	94		98		63-130	4		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	94		96		70-130	2		20
Chlorobenzene	97		100		75-130	3		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	91		93		54-136	2		20
1,1,2,2-Tetrachloroethane	100		110		67-130	10		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		110		70-130	10		20
Chloromethane	90		92		64-130	2		20
Bromomethane	61		63		39-139	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG2010767-3 WG2010767-4								
Vinyl chloride	110		120		55-140	9		20
Chloroethane	110		120		55-138	9		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	94		92		70-130	2		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	94		99		70-130	5		20
1,3-Dichlorobenzene	96		100		70-130	4		20
1,4-Dichlorobenzene	96		100		70-130	4		20
Methyl tert butyl ether	97		100		63-130	3		20
p/m-Xylene	100		105		70-130	5		20
o-Xylene	100		105		70-130	5		20
cis-1,2-Dichloroethene	98		96		70-130	2		20
Dibromomethane	97		96		70-130	1		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	120		120		70-130	0		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	80		81		36-147	1		20
Acetone	120		100		58-148	18		20
Carbon disulfide	120		110		51-130	9		20
2-Butanone	130		130		63-138	0		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	100		110		59-130	10		20
2-Hexanone	100		110		57-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG2010767-3 WG2010767-4								
Bromochloromethane	91		88		70-130	3		20
2,2-Dichloropropane	100		110		63-133	10		20
1,2-Dibromoethane	96		99		70-130	3		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	99		100		64-130	1		20
Bromobenzene	93		96		70-130	3		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	100		110		70-130	10		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	92		92		41-144	0		20
Hexachlorobutadiene	92		94		63-130	2		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	84		86		70-130	2		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	84		86		70-130	2		20
1,2,4-Trichlorobenzene	85		89		70-130	5		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	100		110		70-130	10		20
1,4-Dioxane	94		86		56-162	9		20
p-Diethylbenzene	99		100		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG2010767-3 WG2010767-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	90		95		70-130	5		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	120		110		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	124		116		70-130
Toluene-d8	107		108		70-130
4-Bromofluorobenzene	111		109		70-130
Dibromofluoromethane	102		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG2010816-3 WG2010816-4								
Methylene chloride	92		91		70-130	1		20
1,1-Dichloroethane	87		85		70-130	2		20
Chloroform	88		87		70-130	1		20
Carbon tetrachloride	83		78		63-132	6		20
1,2-Dichloropropane	85		83		70-130	2		20
Dibromochloromethane	93		88		63-130	6		20
1,1,2-Trichloroethane	99		94		70-130	5		20
Tetrachloroethene	100		92		70-130	8		20
Chlorobenzene	100		93		75-130	7		20
Trichlorofluoromethane	83		78		62-150	6		20
1,2-Dichloroethane	80		80		70-130	0		20
1,1,1-Trichloroethane	85		81		67-130	5		20
Bromodichloromethane	84		83		67-130	1		20
trans-1,3-Dichloropropene	87		82		70-130	6		20
cis-1,3-Dichloropropene	85		83		70-130	2		20
1,1-Dichloropropene	83		80		70-130	4		20
Bromoform	92		90		54-136	2		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	90		88		70-130	2		20
Toluene	99		92		70-130	7		20
Ethylbenzene	97		90		70-130	7		20
Chloromethane	86		84		64-130	2		20
Bromomethane	**140**	Q	120		39-139	15		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCK FARMER
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Lab Number: L2472578
Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG2010816-3 WG2010816-4								
Vinyl chloride	88		82		55-140	7		20
Chloroethane	100		96		55-138	4		20
1,1-Dichloroethene	94		91		61-145	3		20
trans-1,2-Dichloroethene	98		94		70-130	4		20
Trichloroethene	92		90		70-130	2		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	110		100		70-130	10		20
1,4-Dichlorobenzene	110		100		70-130	10		20
Methyl tert butyl ether	78		78		63-130	0		20
p/m-Xylene	100		90		70-130	11		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	95		92		70-130	3		20
Dibromomethane	86		87		70-130	1		20
1,2,3-Trichloropropane	94		94		64-130	0		20
Acrylonitrile	83		82		70-130	1		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	61		57		36-147	7		20
Acetone	79		82		58-148	4		20
Carbon disulfide	89		85		51-130	5		20
2-Butanone	86		89		63-138	3		20
Vinyl acetate	91		92		70-130	1		20
4-Methyl-2-pentanone	72		71		59-130	1		20
2-Hexanone	72		74		57-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCK FARMER
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Lab Number: L2472578
Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG2010816-3 WG2010816-4								
Bromochloromethane	97		97		70-130	0		20
2,2-Dichloropropane	82		79		63-133	4		20
1,2-Dibromoethane	93		89		70-130	4		20
1,3-Dichloropropane	90		86		70-130	5		20
1,1,1,2-Tetrachloroethane	97		90		64-130	7		20
Bromobenzene	100		99		70-130	1		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		98		70-130	2		20
tert-Butylbenzene	100		99		70-130	1		20
o-Chlorotoluene	100		99		70-130	1		20
p-Chlorotoluene	100		98		70-130	2		20
1,2-Dibromo-3-chloropropane	92		90		41-144	2		20
Hexachlorobutadiene	90		86		63-130	5		20
Isopropylbenzene	100		95		70-130	5		20
p-Isopropyltoluene	110		100		70-130	10		20
Naphthalene	87		89		70-130	2		20
n-Propylbenzene	100		98		69-130	2		20
1,2,3-Trichlorobenzene	92		92		70-130	0		20
1,2,4-Trichlorobenzene	94		92		70-130	2		20
1,3,5-Trimethylbenzene	100		97		64-130	3		20
1,2,4-Trimethylbenzene	100		97		70-130	3		20
1,4-Dioxane	84		70		56-162	18		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG2010816-3 WG2010816-4								
p-Ethyltoluene	100		95		70-130	5		20
1,2,4,5-Tetramethylbenzene	97		94		70-130	3		20
Ethyl ether	90		91		59-134	1		20
trans-1,4-Dichloro-2-butene	97		97		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		88		70-130
Toluene-d8	106		102		70-130
4-Bromofluorobenzene	102		105		70-130
Dibromofluoromethane	98		98		70-130

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
Report Date: 12/18/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2472578-01A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-01B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-01C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-02A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-02B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-02C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-03A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-03B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-03C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-04A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-04B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-04C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-05A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-05B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-05C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-06A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-06B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-06C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-07A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-07B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-07C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-08A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2472578-08B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: ROCK FARMER
Project Number: 10172.LK

Lab Number: L2472578
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)

*Values in parentheses indicate holding time in days

Project Name:	ROCK FARMER	**Lab Number:**	L2472578
Project Number:	10172.LK	**Report Date:**	12/18/24

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: DU Report with 'J' Qualifiers

Project Name:	ROCK FARMER	**Lab Number:**	L2472578
Project Number:	10172.LK	**Report Date:**	12/18/24

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. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	ROCK FARMER	**Lab Number:**	L2472578
Project Number:	10172.LK	**Report Date:**	12/18/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Project Name: ROCK FARMER
Project Number: 10172.LK
Lab Number: L2472578
Report Date: 12/18/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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.
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 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

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

Serial_No:12182414:20

L2472578 18DEC24
VERTEX – NJ

NEW YORK CHAIN OF CUSTODY

ALPHA

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab 12/11/24

Westborough, MA 01581, 8 Walkup Dr., TEL: 508-898-9220, FAX: 508-898-9193
Mansfield, MA 02048, 320 Forbes Blvd, TEL: 508-822-9300, FAX: 508-822-3288

Project Information

Project Name: rockfarmer
Project Location: 82-13 37th Ave
Project # 10172 LK
(Use Project name as Project #) ☐
Project Manager: Tim Biercz
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information

Client: Lockwood Kessler & Bartlett Inc
Address: One Aerial Way, Syosset, NY 11791
Phone:
Fax:
Email: tbiercz@vertexeng.com

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☒ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility: ☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration: ☐ Done ☐ Lab to do
Preservation: ☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: VOCs (8260)	Sample Specific Comments	Total Bottles
72578-01	MW-1	12/10/24	11:10	GW	AT	X		3
02	MW-2	↓	12:10	↓	↓	X		3
03	MW-3	↓	10:10	↓	↓	X		3
04	MW-3-Duplicate	↓	10:15	↓	↓	X		3
05	MW-8	↓	14:25	↓	↓	X		3
06	MW-10	↓	13:25	↓	↓	X		3
07	Field Blank	↓	10:04	FB	↓	X		3
08	Trip Blank	↓	LAB	TB	LAB	X		2

Container Type	V
Preservative	B

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Blaez Jones	12/11/24 0810	[signature] - PACE	12-11-24 0810
[signature] NJSC	12-11-24 1615	[signature] NJSC	12-11-24 1615
[signature]	12-11-24	[signature]	12/11/24 16:30
[signature]	12/11/24	[signature] PACE	12/11/24 [illegible]
[signature] PACE	12/11/24 2325	[signature]	12/11/24 2325

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Appendix F:
Field Sampling Forms – Indoor/Ambient Air

Indoor Air Monitoring Record					
Site: Rockfarmer				Date: 12/10/24	
Weather-Start: Overcast 40			Barometric Pressure	30.04	
Weather throughout day: Misty 50			Barometric Pressure	30.016	
Weather Overnight: N/A 51			Barometric Pressure	N/A	
Weather-End: misty			Barometric Pressure	30.05	
Technician: BG				Page 1 of 3	
Sample ID	Location	-	-	-	-
IA-1A	SV-1A	-	-	-	-
Lab Can Pressure (Hg) (outgoing)	Flow ID	Can ID	Can Size (L)	Flow Readout	Batch Cert#
-29.6	0718	4260	6	10.0	L2471096-08
Start Time	Start Pressure (Hg)	Start Temp (F)	Start Baro. Press. (Hg)	Overnight Temp (F)	Overnight Press (Hg)
0755	-32.79	66	30.04	—	—
End Time	End Pressure (Hg)	End Temp (F)	End Baro. Press. (Hg)	Precipitation during event?	
1523	-4.94	66	30.05	Y	
Sample ID	Location	-	-	-	-
IA-3	LL19	-	-	-	-
Lab Can Pressure (Hg) (outgoing)	Flow ID	Can ID	Can Size (L)	Flow Readout	Batch Cert#
-29.5	01441	3592	6	10.0	L2470425-05
Start Time	Start Pressure (Hg)	Start Temp (F)	Start Baro. Press. (Hg)	Overnight Temp (F)	Overnight Press (Hg)
0751	-30.48	67	30.04	—	—
End Time	End Pressure (Hg)	End Temp (F)	End Baro. Press. (Hg)	Precipitation during event?	
1446	-6.53	67	30.05	Y	
Sample ID	Location	-	-	-	-
IA-5	SV-5	-	-	-	-
Lab Can Pressure (Hg) (outgoing)	Flow ID	Can ID	Can Size (L)	Flow Readout	Batch Cert#
-29.5	01550	4296	6	10.0	L2470425-05
Start Time	Start Pressure (Hg)	Start Temp (F)	Start Baro. Press. (Hg)	Overnight Temp (F)	Overnight Press (Hg)
0745	-30.01	72	30.04	—	—
End Time	End Pressure (Hg)	End Temp (F)	End Baro. Press. (Hg)	Precipitation during event?	
1444	-7.78	72	30.05	Y	

carpet smell open unit similar to last time

Indoor Air Monitoring Record					
Site:			Date:		
Weather-Start:			Barometric Pressure		
Weather throughout day:			Barometric Pressure		
Weather Overnight:			Barometric Pressure		
Weather-End:			Barometric Pressure		
Technician:			Page 2 of 3		

Sample ID	Location	-	-	-	-
IA-7	SV-7	-	-	-	-
Lab Can Pressure (Hg) (outgoing)	**Flow ID**	**Can ID**	**Can Size (L)**	**Flow Readout**	**Batch Cert#**
-29.5	0048	3924	6	10.1	L2470742S-05
Start Time	**Start Pressure (Hg)**	**Start Temp (F)**	**Start Baro. Press. (Hg)**	**Overnight Temp (F)**	**Overnight Press (Hg)**
0757	-30.27	72	30.04	—	—
End Time	**End Pressure (Hg)**	**End Temp (F)**	**End Baro. Press. (Hg)**	**Precipitation during event?**	
1451	-9.25	72	30.05	N	

Sample ID	Location	-	-	-	-
IA-9	SV-9	-	-	-	-
Lab Can Pressure (Hg) (outgoing)	**Flow ID**	**Can ID**	**Can Size (L)**	**Flow Readout**	**Batch Cert#**
-29.3	0229	645	6	10	L2470755-08
Start Time	**Start Pressure (Hg)**	**Start Temp (F)**	**Start Baro. Press. (Hg)**	**Overnight Temp (F)**	**Overnight Press (Hg)**
0743	-29.4	80	30.04	—	—
End Time	**End Pressure (Hg)**	**End Temp (F)**	**End Baro. Press. (Hg)**	**Precipitation during event?**	
1441	-7.01	80	30.05	N	

Sample ID	Location	-	-	-	-
IA-10	SV-10	-	-	-	-
Lab Can Pressure (Hg) (outgoing)	**Flow ID**	**Can ID**	**Can Size (L)**	**Flow Readout**	**Batch Cert#**
-29.5	01537	2982	6	10	L2470755-08
Start Time	**Start Pressure (Hg)**	**Start Temp (F)**	**Start Baro. Press. (Hg)**	**Overnight Temp (F)**	**Overnight Press (Hg)**
0740	-30.54	58	30.04	—	—
End Time	**End Pressure (Hg)**	**End Temp (F)**	**End Baro. Press. (Hg)**	**Precipitation during event?**	
1437	-9.37	58	30.05	N	

Indoor Air Monitoring Record					
Site:			Date:		
Weather-Start:			Barometric Pressure		
Weather throughout day:			Barometric Pressure		
Weather Overnight:			Barometric Pressure		
Weather-End:			Barometric Pressure		
Technician:			Page 3 of 3		
Sample ID	**Location**	-	-	-	-
AA - 1	83rd St	-	-	-	-
Lab Can Pressure (Hg) (outgoing)	**Flow ID**	**Can ID**	**Can Size (L)**	**Flow Readout**	**Batch Cert#**
-29.6	02484	1900	6	10.1	L2470755-08
Start Time	**Start Pressure (Hg)**	**Start Temp (F)**	**Start Baro. Press. (Hg)**	**Overnight Temp (F)**	**Overnight Press (Hg)**
0813	-30.29	40	30.04	—	—
End Time	**End Pressure (Hg)**	**End Temp (F)**	**End Baro. Press. (Hg)**	**Precipitation during event?**	
1501	-9.13	51	30.05	Y	
Sample ID	**Location**	-	-	-	-
IA-DUP	SV-10	-	-	-	-
Lab Can Pressure (Hg) (outgoing)	**Flow ID**	**Can ID**	**Can Size (L)**	**Flow Readout**	**Batch Cert#**
-29.4	01702	3046	6	10.0	L2470755-08
Start Time	**Start Pressure (Hg)**	**Start Temp (F)**	**Start Baro. Press. (Hg)**	**Overnight Temp (F)**	**Overnight Press (Hg)**
0741	-30.06	58	30.04	—	—
End Time	**End Pressure (Hg)**	**End Temp (F)**	**End Baro. Press. (Hg)**	**Precipitation during event?**	
1438	-8.50	58	30.05	Y	
Sample ID	**Location**	-	-	-	-
		-	-	-	-
Lab Can Pressure (Hg) (outgoing)	**Flow ID**	**Can ID**	**Can Size (L)**	**Flow Readout**	**Batch Cert#**
Start Time	**Start Pressure (Hg)**	**Start Temp (F)**	**Start Baro. Press. (Hg)**	**Overnight Temp (F)**	**Overnight Press (Hg)**
End Time	**End Pressure (Hg)**	**End Temp (F)**	**End Baro. Press. (Hg)**	**Precipitation during event?**	

Alpha Analytical
320 Forbes Blvd
Mansfield, MA 02048-1806
Tel: 508-822-9300
Fax: 508-822-3288

AIR Chain-of-Custody - ~~NJ~~ NY

Date Rec'd in Lab	ALPHA Job#

1 of 2 COCs

Client Contact Information

Company: Cornwall, Gyssler & Bartlett Inc
Address: One Aerial Way
City/State/Zip: Syosset, NY 11791
Phone:
FAX:
Email: tbier@vertexeng.com
Site Contact:
Site Contact Phone:

Project Information

Project Name: Rockfarmer
Project No: 10172 LE
Site/Location: Queens, NY
Project Manager: Tim Bier

Analysis Turn-Around Time

Standard (Specify) X
Rush (Specify)

NJ DEP Information

Bureau: Division: Contract No:

Report Information - Data Deliverables:

☐ FAX:
☐ ADEx ☒ Criteria Checker: ASP category B
☑ EMail (standard pdf report)

Billing Information

☒ Same as Client Info PO #:

ALPHA LAB ID (Lab Use Only)	Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field (Hg) (Start)	Canister Pressure in Field (Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Outgoing Canister Pressure (Hg) (Note1)	Incoming Canister Pressure (Hg) (Note 2)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min) (Note1)	Batch Cert ID (Note 1)	Analysis: TO-15	Analysis: EPA 3C	Matrix: Indoor/Ambient Air	Matrix: Soil Gas
	IA - 1A	12/10/24	0955	1523	-3.79	-4.94	66	66	-29.6		0718	4260	6	10.0	L2471046-08	X		X	
	IA - 3	↓	0951	1446	-30.48	-6.53	67	67	-29.5		01441	3512	↓	10.0	L2470425-05	X		X	
	IA - 5		0945	1444	-30.01	-7.76	72	72	-29.5		01550	4296		10.0		X		X	
	IA - 7	↓	0957	1451	-30.27	-9.25	72	72	-29.5		0648	3924	↓	10.1	↓	X		X	

Custody Seals:
Outgoing Seal No: 47896109 (refer to crate seal)
Incoming Seal No: 0001022 (if applicable)

Temperature (Fahrenheit)

	Ambient	Maximum	Minimum	
Start				
Stop				

Individual Preparing Canister/Containers and Laboratory Canister Certification
Name: Kelsey Granlund
Signature: Kelsey Granlund

Pressure (inches of Hg)

	Ambient	Maximum	Minimum	
Start				
Stop				

Footnotes:
(1) Refer to equipment tags for these readings.
(2) Readings provided in data deliverable package.

Special Instructions/QC Requirements & Comments:

Canisters Shipped by: Blair Jones	Date/Time: 12/11/24	Canisters Received by:	Date/Time:
Samples Relinquished by: Blair Jones	Date/Time: 12/11/24 0810	Received by: [illegible] - PACE	Date/Time: 12-11-24 0810
Relinquished by:	Date/Time:	Received by:	Date/Time:

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

Note: Combined External Chain of Custody and NJDEP Field Test Data Sheet

Alpha Analytical
320 Forbes Blvd
Mansfield, MA 02048-1806
Tel: 508-822-9300
Fax: 508-822-3288

AIR Chain-of-Custody - ~~NJ~~ NY

Date Rec'd in Lab | ALPHA Job#

2 of 2 COCs

Client Contact Information

Company: LKB
Address: One ~~[illegible]~~ aerial way
City/State/Zip Syosset, NY 11791
Phone:
FAX:
Email: tbiercz@eventexeng.com
Site Contact:
Site Contact Phone:

Project Information

Project Name: Rockfarmer
Project No: 10172 LK
Site/Location: Queens, NY
Project Manager: Tim Biercz

Analysis Turn-Around Time

Standard (Specify) X
Rush (Specify)

NJ DEP Information

Bureau: Division: Contract No:

Report Information - Data Deliverables:

☐ FAX:
☐ ADEx ☒ Criteria Checker: ASP Category B
☐ EMail (standard pdf report)

Billing Information

☐ Same as Client Info PO #:

ALPHA LAB ID (Lab Use Only)	Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field (Hg) (Start)	Canister Pressure in Field (Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Outgoing Canister Pressure (Hg) (Note1)	Incoming Canister Pressure (Hg) (Note 2)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min) (Note1)	Batch Cert ID (Note 1)	Analysis: TO-15	Analysis: EPA 3C	Matrix: Indoor /Ambient Air	Matrix: Soil Gas
	IA-9	12/10/24	0743	1441	-29.40	-7.01	80	80	-29.3		0229	645	6	10.0	L2470755-08	X		X	
	IA-10	↓	0740	1437	-30.54	-9.37	58	58	-29.5		01537	2982	↓	10.0	↓	X		X	
	AA-1	↓	0813	1501	-30.29	-9.13	40	51	-29.6		02484	1900	↓	10.1	↓	X		X	
	IA-DUP	↓	0741	1438	-30.66	-8.50	58	58	-29.4		01702	3046	↓	10.0	↓	X		X	

Custody Seals:
Outgoing Seal No: 47896137 (refer to crate seal)
Incoming Seal No: 0601021 (if applicable)

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

Individual Preparing Canister/Containers and Laboratory Canister Certification
Name: Kelsey Granlund
Signature: Kelsey Granlund

Footnotes:
(1) Refer to equipment tags for these readings.
(2) Readings provided in data deliverable package.

Special Instructions/QC Requirements & Comments:

Canisters Shipped by: Blair Jones	Date/Time:	Canisters Received by:	Date/Time:
Samples Relinquished by: Blair Jones	Date/Time: 12-11-24 0810	Received by: [signature]-PACE	Date/Time: 12-11-24 0810
Relinquished by:	Date/Time:	Received by:	Date/Time:

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

Form: 101-06 April, 2013

Note: Combined External Chain of Custody and NJDEP Field Test Data Sheet

Appendix G:
Laboratory Report – Indoor/Ambient Air

ANALYTICAL REPORT

Lab Number:	L2472663
Client:	The Vertex Companies, Inc. 3322 US Highway 22 West Suite 907 Branchburg, NJ 08876
ATTN:	Tim Biercz
Phone:	(732) 414-2224
Project Name:	ROCKFARMER
Project Number:	10172.LK
Report Date:	12/24/24

Certifications & Approvals: NH ELAP (2249).

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2472663-01	IA-1A	AIR	QUEENS, NY	12/10/24 15:23	12/11/24
L2472663-02	IA-3	AIR	QUEENS, NY	12/10/24 14:46	12/11/24
L2472663-03	IA-5	AIR	QUEENS, NY	12/10/24 14:44	12/11/24
L2472663-04	IA-7	AIR	QUEENS, NY	12/10/24 14:51	12/11/24
L2472663-05	IA-9	AIR	QUEENS, NY	12/10/24 14:41	12/11/24
L2472663-06	IA-10	AIR	QUEENS, NY	12/10/24 14:37	12/11/24
L2472663-07	AA-1	AIR	QUEENS, NY	12/10/24 15:01	12/11/24
L2472663-08	IA-DUP	AIR	QUEENS, NY	12/10/24 14:38	12/11/24

Project Name:	ROCKFARMER	**Lab Number:**	L2472663
Project Number:	10172.LK	**Report Date:**	12/24/24

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 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:	ROCKFARMER	**Lab Number:**	L2472663
Project Number:	10172.LK	**Report Date:**	12/24/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on December 9, 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: 12/24/24

AIR

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-01
Client ID: IA-1A
Sample Location: QUEENS, NY

Date Collected: 12/10/24 15:23
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/21/24 22:52
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.503	0.200	--	2.49	0.989	--		1
Chloromethane	0.521	0.200	--	1.08	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	222	5.00	--	418	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	34.4	1.00	--	81.7	2.38	--		1
Trichlorofluoromethane	0.240	0.200	--	1.35	1.12	--		1
Isopropanol	32.4	1.00	--	79.6	2.46	--		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	0.921	0.500	--	2.72	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.316	0.200	--	1.54	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-01
Client ID: IA-1A
Sample Location: QUEENS, NY

Date Collected: 12/10/24 15:23
Date Received: 12/11/24
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								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.555	0.200	--	1.96	0.705	--		1
Benzene	0.801	0.200	--	2.56	0.639	--		1
Cyclohexane	0.230	0.200	--	0.792	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.808	0.200	--	3.77	0.934	--		1
Heptane	0.616	0.200	--	2.52	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	2.15	0.200	--	8.10	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.266	0.200	--	1.16	0.869	--		1
p/m-Xylene	0.791	0.400	--	3.44	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.247	0.200	--	1.05	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.331	0.200	--	1.44	0.869	--		1
4-Ethyltoluene	0.315	0.200	--	1.55	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-01
Client ID: IA-1A
Sample Location: QUEENS, NY

Date Collected: 12/10/24 15:23
Date Received: 12/11/24
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								
1,2,4-Trimethylbenzene	0.351	0.200	--	1.73	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	91		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	92		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-01
Client ID: IA-1A
Sample Location: QUEENS, NY

Date Collected: 12/10/24 15:23
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/21/24 22:52
Analyst: TPH

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								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.050	0.020	--	0.339	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	90		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-02
Client ID: IA-3
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:46
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/21/24 23:31
Analyst: TPH

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.480	0.200	--	2.37	0.989	--		1
Chloromethane	0.540	0.200	--	1.12	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	236	5.00	--	445	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	33.3	1.00	--	79.1	2.38	--		1
Trichlorofluoromethane	0.247	0.200	--	1.39	1.12	--		1
Isopropanol	29.6	1.00	--	72.8	2.46	--		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	1.05	0.500	--	3.10	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.465	0.200	--	2.27	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-02
Client ID: IA-3
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:46
Date Received: 12/11/24
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								
1,2-Dichloroethane	0.236	0.200	--	0.955	0.809	--		1
n-Hexane	0.546	0.200	--	1.92	0.705	--		1
Benzene	0.825	0.200	--	2.64	0.639	--		1
Cyclohexane	0.219	0.200	--	0.754	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.837	0.200	--	3.91	0.934	--		1
Heptane	0.578	0.200	--	2.37	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	2.06	0.200	--	7.76	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.276	0.200	--	1.20	0.869	--		1
p/m-Xylene	0.802	0.400	--	3.48	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.219	0.200	--	0.932	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.338	0.200	--	1.47	0.869	--		1
4-Ethyltoluene	0.316	0.200	--	1.55	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-02
Client ID: IA-3
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:46
Date Received: 12/11/24
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								
1,2,4-Trimethylbenzene	0.322	0.200	--	1.58	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	90		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	90		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-02
Client ID: IA-3
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:46
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/21/24 23:31
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.077	0.020	--	0.484	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.048	0.020	--	0.325	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	88		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-03
Client ID: IA-5
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:44
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/22/24 00:11
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.534	0.200	--	2.64	0.989	--		1
Chloromethane	0.604	0.200	--	1.25	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	144	5.00	--	271	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	17.1	1.00	--	40.6	2.38	--		1
Trichlorofluoromethane	0.258	0.200	--	1.45	1.12	--		1
Isopropanol	67.0	1.00	--	165	2.46	--		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	0.650	0.500	--	1.92	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.286	0.200	--	1.40	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-03
Client ID: IA-5
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:44
Date Received: 12/11/24
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								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.15	0.200	--	4.05	0.705	--		1
Benzene	0.682	0.200	--	2.18	0.639	--		1
Cyclohexane	0.322	0.200	--	1.11	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.537	0.200	--	2.51	0.934	--		1
Heptane	0.550	0.200	--	2.25	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	1.38	0.200	--	5.20	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.207	0.200	--	0.899	0.869	--		1
p/m-Xylene	0.656	0.400	--	2.85	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.557	0.200	--	2.37	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.255	0.200	--	1.11	0.869	--		1
4-Ethyltoluene	0.203	0.200	--	0.998	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-03
Client ID: IA-5
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:44
Date Received: 12/11/24
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								
1,2,4-Trimethylbenzene	0.262	0.200	--	1.29	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	88		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	82		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-03
Client ID: IA-5
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:44
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/22/24 00:11
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.082	0.020	--	0.516	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.064	0.020	--	0.434	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	83		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-04
Client ID: IA-7
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:51
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/22/24 00:51
Analyst: TPH

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.560	0.200	--	2.77	0.989	--		1
Chloromethane	0.495	0.200	--	1.02	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	160	5.00	--	301	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	52.4	1.00	--	124	2.38	--		1
Trichlorofluoromethane	0.249	0.200	--	1.40	1.12	--		1
Isopropanol	101	1.00	--	248	2.46	--		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	0.835	0.500	--	2.46	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.247	0.200	--	1.21	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-04
Client ID: IA-7
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:51
Date Received: 12/11/24
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								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.594	0.200	--	2.09	0.705	--		1
Benzene	0.551	0.200	--	1.76	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.488	0.200	--	2.28	0.934	--		1
Heptane	0.383	0.200	--	1.57	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	2.48	0.200	--	9.35	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.388	0.200	--	1.69	0.869	--		1
p/m-Xylene	1.60	0.400	--	6.95	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.667	0.200	--	2.84	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.653	0.200	--	2.84	0.869	--		1
4-Ethyltoluene	0.248	0.200	--	1.22	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-04
Client ID: IA-7
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:51
Date Received: 12/11/24
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								
1,2,4-Trimethylbenzene	0.305	0.200	--	1.50	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	89		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	90		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-04
Client ID: IA-7
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:51
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/22/24 00:51
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.079	0.020	--	0.497	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.112	0.020	--	0.759	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	88		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-05
Client ID: IA-9
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:41
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/22/24 02:12
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.480	0.200	--	2.37	0.989	--		1
Chloromethane	0.487	0.200	--	1.01	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	328	5.00	--	618	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	18.9	1.00	--	44.9	2.38	--		1
Trichlorofluoromethane	0.243	0.200	--	1.37	1.12	--		1
Isopropanol	36.9	1.00	--	90.7	2.46	--		1
Tertiary butyl Alcohol	0.513	0.500	--	1.56	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.726	0.500	--	2.14	1.47	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-05
Client ID: IA-9
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:41
Date Received: 12/11/24
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								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.550	0.200	--	1.94	0.705	--		1
Benzene	0.433	0.200	--	1.38	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.668	0.200	--	3.12	0.934	--		1
Heptane	0.289	0.200	--	1.18	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	0.946	0.200	--	3.57	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.519	0.400	--	2.25	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.417	0.200	--	1.78	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.259	0.200	--	1.12	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-05
Client ID: IA-9
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:41
Date Received: 12/11/24
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								
1,2,4-Trimethylbenzene	0.258	0.200	--	1.27	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	92		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	90		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-05
Client ID: IA-9
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:41
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/22/24 02:12
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.073	0.020	--	0.459	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.048	0.020	--	0.325	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	89		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-06
Client ID: IA-10
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:37
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/22/24 02:52
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.512	0.200	--	2.53	0.989	--		1
Chloromethane	0.516	0.200	--	1.07	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	19.2	5.00	--	36.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.63	1.00	--	15.7	2.38	--		1
Trichlorofluoromethane	0.255	0.200	--	1.43	1.12	--		1
Isopropanol	4.68	1.00	--	11.5	2.46	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-06
Client ID: IA-10
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:37
Date Received: 12/11/24
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								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.259	0.200	--	0.913	0.705	--		1
Benzene	0.385	0.200	--	1.23	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.264	0.200	--	1.23	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	0.641	0.200	--	2.42	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.783	0.200	--	3.33	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-06
Client ID: IA-10
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:37
Date Received: 12/11/24
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								
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	89		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	90		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-06
Client ID: IA-10
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:37
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/22/24 02:52
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.075	0.020	--	0.472	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.054	0.020	--	0.366	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	88		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-07
Client ID: AA-1
Sample Location: QUEENS, NY

Date Collected: 12/10/24 15:01
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/21/24 18:55
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.469	0.200	--	2.32	0.989	--		1
Chloromethane	0.494	0.200	--	1.02	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	50.6	5.00	--	95.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	23.0	1.00	--	54.6	2.38	--		1
Trichlorofluoromethane	0.241	0.200	--	1.35	1.12	--		1
Isopropanol	4.63	1.00	--	11.4	2.46	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-07
Client ID: AA-1
Sample Location: QUEENS, NY

Date Collected: 12/10/24 15:01
Date Received: 12/11/24
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								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.287	0.200	--	1.01	0.705	--		1
Benzene	0.417	0.200	--	1.33	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.303	0.200	--	1.42	0.934	--		1
Heptane	0.225	0.200	--	0.922	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.807	0.500	--	3.31	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	0.965	0.200	--	3.64	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.586	0.400	--	2.55	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	0.216	0.200	--	0.938	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-07
Client ID: AA-1
Sample Location: QUEENS, NY

Date Collected: 12/10/24 15:01
Date Received: 12/11/24
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								
1,2,4-Trimethylbenzene	0.212	0.200	--	1.04	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	89		60-140
chlorobenzene-d5	96		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-07
Client ID: AA-1
Sample Location: QUEENS, NY

Date Collected: 12/10/24 15:01
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/21/24 18:55
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.075	0.020	--	0.472	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.056	0.020	--	0.380	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-08
Client ID: IA-DUP
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:38
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/22/24 03:32
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.512	0.200	--	2.53	0.989	--		1
Chloromethane	0.516	0.200	--	1.07	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	20.2	5.00	--	38.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	7.16	1.00	--	17.0	2.38	--		1
Trichlorofluoromethane	0.258	0.200	--	1.45	1.12	--		1
Isopropanol	4.58	1.00	--	11.3	2.46	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-08
Client ID: IA-DUP
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:38
Date Received: 12/11/24
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								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.267	0.200	--	0.941	0.705	--		1
Benzene	0.390	0.200	--	1.25	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.273	0.200	--	1.28	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	0.637	0.200	--	2.40	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.625	0.200	--	2.66	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-08
Client ID: IA-DUP
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:38
Date Received: 12/11/24
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								
1,2,4-Trimethylbenzene	0.204	0.200	--	1.00	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	88		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	87		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

SAMPLE RESULTS

Lab ID: L2472663-08
Client ID: IA-DUP
Sample Location: QUEENS, NY

Date Collected: 12/10/24 14:38
Date Received: 12/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/22/24 03:32
Analyst: TPH

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								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	86		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/21/24 16:58

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): 01-08 Batch: WG2012252-4								
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: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/21/24 16:58

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): 01-08 Batch: WG2012252-4								
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: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/21/24 16:58

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): 01-08 Batch: WG2012252-4								
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

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 12/21/24 17:37

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-08 Batch: WG2012253-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG2012252-3								
Dichlorodifluoromethane	104		-		70-130	-		
Chloromethane	102		-		70-130	-		
Freon-114	121		-		70-130	-		
Vinyl chloride	111		-		70-130	-		
1,3-Butadiene	114		-		70-130	-		
Bromomethane	115		-		70-130	-		
Chloroethane	111		-		70-130	-		
Ethanol	106		-		40-160	-		
Vinyl bromide	108		-		70-130	-		
Acetone	112		-		40-160	-		
Trichlorofluoromethane	110		-		70-130	-		
Isopropanol	98		-		40-160	-		
1,1-Dichloroethene	109		-		70-130	-		
Tertiary butyl Alcohol	105		-		70-130	-		
Methylene chloride	106		-		70-130	-		
3-Chloropropene	104		-		70-130	-		
Carbon disulfide	104		-		70-130	-		
Freon-113	111		-		70-130	-		
trans-1,2-Dichloroethene	105		-		70-130	-		
1,1-Dichloroethane	106		-		70-130	-		
Methyl tert butyl ether	109		-		70-130	-		
2-Butanone	103		-		70-130	-		
cis-1,2-Dichloroethene	105		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG2012252-3								
Ethyl Acetate	76		-		70-130	-		
Chloroform	105		-		70-130	-		
Tetrahydrofuran	95		-		70-130	-		
1,2-Dichloroethane	104		-		70-130	-		
n-Hexane	95		-		70-130	-		
1,1,1-Trichloroethane	93		-		70-130	-		
Benzene	96		-		70-130	-		
Carbon tetrachloride	105		-		70-130	-		
Cyclohexane	101		-		70-130	-		
1,2-Dichloropropane	98		-		70-130	-		
Bromodichloromethane	104		-		70-130	-		
1,4-Dioxane	103		-		70-130	-		
Trichloroethene	99		-		70-130	-		
2,2,4-Trimethylpentane	100		-		70-130	-		
Heptane	95		-		70-130	-		
cis-1,3-Dichloropropene	104		-		70-130	-		
4-Methyl-2-pentanone	100		-		70-130	-		
trans-1,3-Dichloropropene	108		-		70-130	-		
1,1,2-Trichloroethane	101		-		70-130	-		
Toluene	104		-		70-130	-		
2-Hexanone	106		-		70-130	-		
Dibromochloromethane	119		-		70-130	-		
1,2-Dibromoethane	112		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG2012252-3								
Tetrachloroethene	107		-		70-130	-		
Chlorobenzene	110		-		70-130	-		
Ethylbenzene	108		-		70-130	-		
p/m-Xylene	110		-		70-130	-		
Bromoform	119		-		70-130	-		
Styrene	111		-		70-130	-		
1,1,2,2-Tetrachloroethane	111		-		70-130	-		
o-Xylene	108		-		70-130	-		
4-Ethyltoluene	108		-		70-130	-		
1,3,5-Trimethylbenzene	79		-		70-130	-		
1,2,4-Trimethylbenzene	111		-		70-130	-		
Benzyl chloride	103		-		70-130	-		
1,3-Dichlorobenzene	113		-		70-130	-		
1,4-Dichlorobenzene	104		-		70-130	-		
1,2-Dichlorobenzene	105		-		70-130	-		
1,2,4-Trichlorobenzene	115		-		70-130	-		
Naphthalene	112		-		70-130	-		
Hexachlorobutadiene	107		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-08 Batch: WG2012253-3								
Vinyl chloride	93		-		70-130	-		25
1,1-Dichloroethene	102		-		70-130	-		25
cis-1,2-Dichloroethene	100		-		70-130	-		25
1,1,1-Trichloroethane	99		-		70-130	-		25
Carbon tetrachloride	98		-		70-130	-		25
Trichloroethene	95		-		70-130	-		25
Tetrachloroethene	102		-		70-130	-		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG2012252-5 QC Sample: L2472663-04 Client ID: IA-7						
Dichlorodifluoromethane	0.560	0.586	ppbV	5		25
Chloromethane	0.495	0.538	ppbV	8		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	160	189	ppbV	17		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	52.4	52.7	ppbV	1		25
Trichlorofluoromethane	0.249	0.246	ppbV	1		25
Isopropanol	101	103	ppbV	2		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	0.835	0.851	ppbV	2		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG2012252-5 QC Sample: L2472663-04 Client ID: IA-7						
Chloroform	0.247	0.247	ppbV	0		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.594	0.574	ppbV	3		25
Benzene	0.551	0.568	ppbV	3		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	0.488	0.498	ppbV	2		25
Heptane	0.383	0.406	ppbV	6		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	2.48	2.60	ppbV	5		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.388	0.409	ppbV	5		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG2012252-5 QC Sample: L2472663-04 Client ID: IA-7						
p/m-Xylene	1.60	1.77	ppbV	10		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	0.667	0.713	ppbV	7		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.653	0.733	ppbV	12		25
4-Ethyltoluene	0.248	0.266	ppbV	7		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.305	0.330	ppbV	8		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Naphthalene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG2012253-5 QC Sample: L2472663-04 Client ID: IA-7						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.079	0.081	ppbV	3		25
Trichloroethene	ND	ND	ppbV	NC		25
Tetrachloroethene	0.112	0.121	ppbV	8		25

Project Name: ROCKFARMER

Project Number: 10172.LK

Lab Number: L2472663

Report Date: 12/24/24

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	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2472663-01	IA-1A	0718	Flow 4	12/09/24	495797		-	-	-	Pass	10.0	10.3	3
L2472663-01	IA-1A	4260	6.0L Can	12/09/24	495797	L2471096-08	Pass	-29.6	-4.6	-	-	-	-
L2472663-02	IA-3	01441	Flow 4	12/09/24	495797		-	-	-	Pass	10.0	10.6	6
L2472663-02	IA-3	3592	6.0L Can	12/09/24	495797	L2470425-05	Pass	-29.5	-6.1	-	-	-	-
L2472663-03	IA-5	01550	Flow 4	12/09/24	495797		-	-	-	Pass	10.0	10.3	3
L2472663-03	IA-5	4296	6.0L Can	12/09/24	495797	L2470425-05	Pass	-29.5	-7.4	-	-	-	-
L2472663-04	IA-7	0048	Flow 4	12/09/24	495797		-	-	-	Pass	10.1	10.4	3
L2472663-04	IA-7	3924	6.0L Can	12/09/24	495797	L2470425-05	Pass	-29.5	-8.7	-	-	-	-
L2472663-05	IA-9	0229	Flow 4	12/09/24	495797		-	-	-	Pass	10.0	10.0	0
L2472663-05	IA-9	645	6.0L Can	12/09/24	495797	L2470755-08	Pass	-29.3	-7.3	-	-	-	-
L2472663-06	IA-10	01537	Flow 4	12/09/24	495797		-	-	-	Pass	10.0	10.1	1
L2472663-06	IA-10	2982	6.0L Can	12/09/24	495797	L2470755-08	Pass	-29.5	-8.2	-	-	-	-
L2472663-07	AA-1	02484	Flow 4	12/09/24	495797		-	-	-	Pass	10.1	10.4	3
L2472663-07	AA-1	1900	6.0L Can	12/09/24	495797	L2470755-08	Pass	-29.6	-7.4	-	-	-	-
L2472663-08	IA-DUP	01702	Flow 4	12/09/24	495797		-	-	-	Pass	10.0	9.7	3

Project Name: ROCKFARMER

Project Number: 10172.LK

Lab Number: L2472663

Report Date: 12/24/24

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	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2472663-08	IA-DUP	3046	6.0L Can	12/09/24	495797	L2470755-08	Pass	-29.4	-7.8	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2470425
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470425-05
Client ID: CAN 3622 SHELF 53
Sample Location:

Date Collected: 12/02/24 18:00
Date Received: 12/03/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/03/24 21:57
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: L2470425
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470425-05
Client ID: CAN 3622 SHELF 53
Sample Location:

Date Collected: 12/02/24 18:00
Date Received: 12/03/24
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
Xylenes, total	ND	0.600	--	ND	0.869	--		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
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-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		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
1,1,1-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: L2470425
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470425-05
Client ID: CAN 3622 SHELF 53
Sample Location:

Date Collected: 12/02/24 18:00
Date Received: 12/03/24
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: L2470425
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470425-05
Client ID: CAN 3622 SHELF 53
Sample Location:

Date Collected: 12/02/24 18:00
Date Received: 12/03/24
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
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2470425
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470425-05
Client ID: CAN 3622 SHELF 53
Sample Location:

Date Collected: 12/02/24 18:00
Date Received: 12/03/24
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								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2470425
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470425-05
Client ID: CAN 3622 SHELF 53
Sample Location:

Date Collected: 12/02/24 18:00
Date Received: 12/03/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/03/24 21:57
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: L2470425
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470425-05
Client ID: CAN 3622 SHELF 53
Sample Location:

Date Collected: 12/02/24 18:00
Date Received: 12/03/24
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
Project Number: CANISTER QC BAT
Lab Number: L2470425
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470425-05
Client ID: CAN 3622 SHELF 53
Sample Location:

Date Collected: 12/02/24 18:00
Date Received: 12/03/24
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	92		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2470755
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470755-08
Client ID: CAN 1636 SHELF 41
Sample Location:

Date Collected: 12/04/24 16:00
Date Received: 12/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/05/24 02:02
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: L2470755
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470755-08
Client ID: CAN 1636 SHELF 41
Sample Location:

Date Collected: 12/04/24 16:00
Date Received: 12/04/24
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: L2470755
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470755-08
Client ID: CAN 1636 SHELF 41
Sample Location:

Date Collected: 12/04/24 16:00
Date Received: 12/04/24
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: L2470755
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470755-08
Client ID: CAN 1636 SHELF 41
Sample Location:

Date Collected: 12/04/24 16:00
Date Received: 12/04/24
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: L2470755
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470755-08
Client ID: CAN 1636 SHELF 41
Sample Location:

Date Collected: 12/04/24 16:00
Date Received: 12/04/24
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	88		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2470755
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470755-08
Client ID: CAN 1636 SHELF 41
Sample Location:

Date Collected: 12/04/24 16:00
Date Received: 12/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/05/24 02:02
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: L2470755
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470755-08
Client ID: CAN 1636 SHELF 41
Sample Location:

Date Collected: 12/04/24 16:00
Date Received: 12/04/24
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
Project Number: CANISTER QC BAT
Lab Number: L2470755
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2470755-08
Client ID: CAN 1636 SHELF 41
Sample Location:

Date Collected: 12/04/24 16:00
Date Received: 12/04/24
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	88		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2471096
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2471096-08
Client ID: CAN 1532 SHELF 51-52
Sample Location:

Date Collected: 12/05/24 11:00
Date Received: 12/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/06/24 00:56
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: L2471096
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2471096-08
Client ID: CAN 1532 SHELF 51-52
Sample Location:

Date Collected: 12/05/24 11:00
Date Received: 12/05/24
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: L2471096
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2471096-08
Client ID: CAN 1532 SHELF 51-52
Sample Location:

Date Collected: 12/05/24 11:00
Date Received: 12/05/24
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: L2471096
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2471096-08
Client ID: CAN 1532 SHELF 51-52
Sample Location:

Date Collected: 12/05/24 11:00
Date Received: 12/05/24
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: L2471096
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2471096-08
Client ID: CAN 1532 SHELF 51-52
Sample Location:

Date Collected: 12/05/24 11:00
Date Received: 12/05/24
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	92		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2471096
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2471096-08
Client ID: CAN 1532 SHELF 51-52
Sample Location:

Date Collected: 12/05/24 11:00
Date Received: 12/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/06/24 00:56
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: L2471096
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2471096-08
Client ID: CAN 1532 SHELF 51-52
Sample Location:

Date Collected: 12/05/24 11:00
Date Received: 12/05/24
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
Project Number: CANISTER QC BAT
Lab Number: L2471096
Report Date: 12/24/24

Air Canister Certification Results

Lab ID: L2471096-08
Client ID: CAN 1532 SHELF 51-52
Sample Location:

Date Collected: 12/05/24 11:00
Date Received: 12/05/24
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	92		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	93		60-140

Project Name: ROCKFARMER
Project Number: 10172.LK

Lab Number: L2472663
Report Date: 12/24/24

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(*)
L2472663-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2472663-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2472663-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2472663-04A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2472663-05A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2472663-06A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2472663-07A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2472663-08A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	ROCKFARMER	**Lab Number:**	L2472663
Project Number:	10172.LK	**Report Date:**	12/24/24

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:	ROCKFARMER	**Lab Number:**	L2472663
Project Number:	10172.LK	**Report Date:**	12/24/24

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:	ROCKFARMER	**Lab Number:**	L2472663
Project Number:	10172.LK	**Report Date:**	12/24/24

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.)

Project Name: ROCKFARMER
Project Number: 10172.LK
Lab Number: L2472663
Report Date: 12/24/24

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

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.
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 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

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

Serial_No:12242411:38

Alpha Analytical
320 Forbes Blvd
Mansfield, MA 02048-1806
Tel: 508-822-9300
Fax: 508-822-3288

AIR Chain-of-Custody - ~~NJ~~ NY

Date Rec'd in Lab: HHL 12-12-24 | ALPHA Job#: L2472663

1 of 2 COCs

Client Contact Information

Company: Lockwood, Kessler & Bartlett Inc
Address: One Aerial Way
City/State/Zip: Syosset, NY 11791
Phone:
FAX:
Email: tpiercz@vertexeng.com
Site Contact:
Site Contact Phone:

Project Information

Project Name: Rockfarmer
Project No: 10172.LK
Site/Location: Queens, NY
Project Manager: Tim Piercz

Analysis Turn-Around Time

Standard (Specify) X
Rush (Specify)

NJ DEP Information

Bureau: Division: Contract No:

Report Information - Data Deliverables:

☐ FAX:
☐ ADEx ☒ Criteria Checker: ASP Category B
☒ EMail (standard pdf report)

Billing Information

☒ Same as Client Info PO #:

ALPHA LAB ID (Lab Use Only)	Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field (Hg) (Start)	Canister Pressure in Field (Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Outgoing Canister Pressure (Hg) (Note1)	Incoming Canister Pressure (Hg) (Note 2)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min) (Note1)	Batch Cert ID (Note 1)	TO-15	EPA 3C	Indoor/Ambient Air	Soil Gas
72663-01	IA-1A	12/10/24	0755	1523	-32.79	-4.94	66	66	-29.6		0718	4260	6	10.0	L2441046-08	X		X	
-02	IA-3	↓	0751	1446	-30.48	-6.53	67	67	-29.5		01441	3592	↓	10.0	L2470425-05	X		X	
-03	IA-5	↓	0745	1444	-30.01	-7.78	72	72	-29.5		01550	4296	↓	10.6	↓	X		X	
-04	IA-7	↓	0757	1451	-30.27	-9.25	72	72	-29.5		0048	3924	↓	10.1	↓	X		X	

Custody Seals:
Outgoing Seal No: 4789610Q (refer to crate seal)
Incoming Seal No: 0001022 (if applicable)

Temperature (Fahrenheit)

	Ambient	Maximum	Minimum
Start			
Stop			

Pressure (inches of Hg)

	Ambient	Maximum	Minimum
Start			
Stop			

Individual Preparing Canister/Containers and Laboratory Canister Certification
Name: Kelsey Granlund
Signature: Kelsey Granlund

Footnotes:
(1) Refer to equipment tags for these readings.
(2) Readings provided in data deliverable package.

Special Instructions/QC Requirements & Comments:

	Date/Time:		Date/Time:
Canisters Shipped by: Blair Jones	12/11/24	Canisters Received by:	
Samples Relinquished by: Blair Jones	12/11/24 0810	Received by: [signature] PACE	12-11-24 0810
Relinquished by: [signature] NJSC 12-11-24	12-11-24 1615	Received by: NJSC	12-11-24 1615

Chain Pace 12/11/24 2125
[signature] 12/11/24 1730
Chain Pace 12/12/24 0155 [signature] 12-12-24 0155

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

Note: Combined External Chain of Custody and NJDEP Field Test Data Sheet

Form: 101-06 April, 2013

Serial_No:12242411:38

Alpha Analytical
320 Forbes Blvd
Mansfield, MA 02048-1806
Tel: 508-822-9300
Fax: 508-822-3288

AIR Chain-of-Custody - ~~NJ~~ NY

Date Rec'd in Lab: 12-12-24 | ALPHA Job#: L2472663

2 of 2 COCs

Client Contact Information
Company: LKB
Address: one aerial way
City/State/Zip: Syosset, NY 11791
Phone:
FAX:
Email: tbiercz@vertexeng.com
Site Contact:
Site Contact Phone:

Project Information
Project Name: Rockfarmer
Project No: 10172 LK
Site/Location: Queens, NY
Project Manager: Tim Biercz

Analysis Turn-Around Time
Standard (Specify) X
Rush (Specify)

NJ DEP Information
Bureau: Division: Contract No:

Report Information - Data Deliverables:
☐ FAX:
☐ ADEx ☒ Criteria Checker: ASP Category B
☐ EMail (standard pdf report)

Billing Information
☐ Same as Client Info PO #:

ALPHA LAB ID (Lab Use Only)	Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field (Hg) (Start)	Canister Pressure in Field (Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Outgoing Canister Pressure (Hg) (Note1)	Incoming Canister Pressure (Hg) (Note 2)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min) (Note1)	Batch Cert ID (Note 1)	Analysis: TO-15	EPA 3C				Matrix: Indoor/Ambient Air	Soil Gas		
-05 ~~72663-01~~	IA-9	12/11/24	0743	1441	-29.40	-7.01	80	80	-29.3		0229	6AS	6	10.0	L2470755-08	X					X			
-06 ~~-02~~	IA-10	↓	0740	1437	-30.54	-9.37	58	58	-29.5		01537	2982	↓	10.0	↓	X					X			
-07 ~~-03~~	AA-1	↓	0813	1501	-31.29	-9.13	40	51	-29.6		02484	1900	↓	10.1	↓	X					X			
-08 ~~-04~~	IA-DUP	↓	0741	1438	-30.06	-8.50	58	58	-29.4		01702	3046	↓	10.0	↓	X					X			

Custody Seals:
Outgoing Seal No: 4789637 (refer to crate seal)
Incoming Seal No: 0001021 (if applicable)

Temperature (Fahrenheit)	Ambient	Maximum	Minimum
Start			
Stop			

Pressure (inches of Hg)	Ambient	Maximum	Minimum
Start			
Stop			

Individual Preparing Canister/Containers and Laboratory Canister Certification
Name: Kelsey Granlund
Signature: Kelsey Granlund

Footnotes:
(1) Refer to equipment tags for these readings.
(2) Readings provided in data deliverable package.

Special Instructions/QC Requirements & Comments:

	Date/Time:		Date/Time:
Canisters Shipped by: Blair Sones		Canisters Received by:	
Samples Relinquished by: Blair Sones	12-11-24 0810	Received By: [signature]-PACE	12-11-24 0810
Relinquished by: [signature]	12-11-24 1615	Received by: NJSC [signature]	12-11-24 1615

12/11/24 1700
NJSC 12-11-24
Chaz Brock 12/11/24 2125
Chaz Brock 12/12/24 0155
[signature] 12-12-24 0155

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

Form: 101-06 April, 2013

Note: Combined External Chain of Custody and NJDEP Field Test Data Sheet

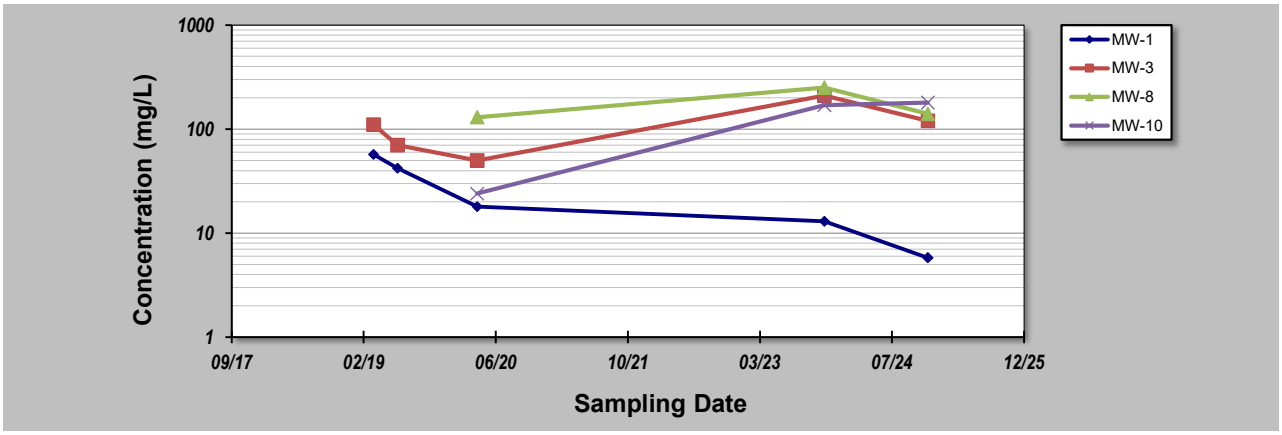
Appendix H

Mann Kendall Output

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	8-Apr-25	Job ID:	10172
Facility Name:	82-13 37th Avenue	Constituent:	PCE
Conducted By:	LKB	Concentration Units:	mg/L

Sampling Point ID:	MW-1	MW-3	MW-8	MW-10			
Sampling Event	Sampling Date	PCE CONCENTRATION (mg/L)						
1	13-Mar-19	57	110					
2	12-Jun-19	42	70					
3	9-Apr-20	18	50	130	24			
4	15-Nov-23	13	210	250	170			
5	10-Dec-24	5.8	120	140	180			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Coefficient of Variation:		0.79	0.55	0.38	0.70			
Mann-Kendall Statistic (S):		-10	2	1	3			
Confidence Factor:		99.2%	59.2%					
Concentration Trend:		Decreasing	No Trend					



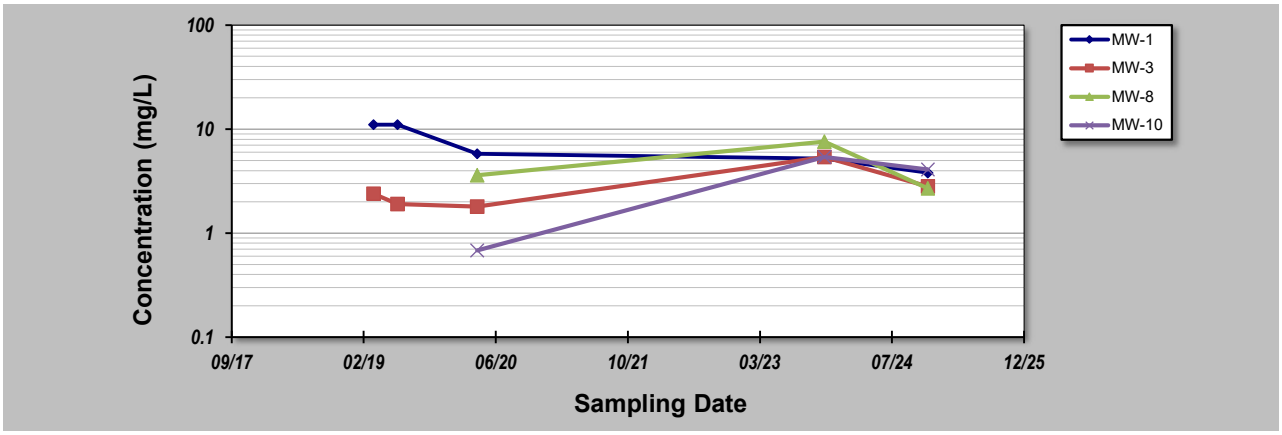
Notes:

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:	8-Apr-25	Job ID:	10172
Facility Name:	82-13 37th Avenue	Constituent:	TCE
Conducted By:	LKB	Concentration Units:	mg/L

Sampling Point ID:	MW-1	MW-3	MW-8	MW-10			
Sampling Event	Sampling Date	TCE CONCENTRATION (mg/L)						
1	13-Mar-19	11	2.4					
2	12-Jun-19	11	1.9					
3	9-Apr-20	5.8	1.8	3.6	0.68			
4	15-Nov-23	5.2	5.4	7.6	5.4			
5	10-Dec-24	3.8	2.8	2.7	4.1			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Coefficient of Variation:		0.46	0.52	0.56	0.72			
Mann-Kendall Statistic (S):		-9	2	-1	1			
Confidence Factor:		97.5%	59.2%					
Concentration Trend:		Decreasing	No Trend					



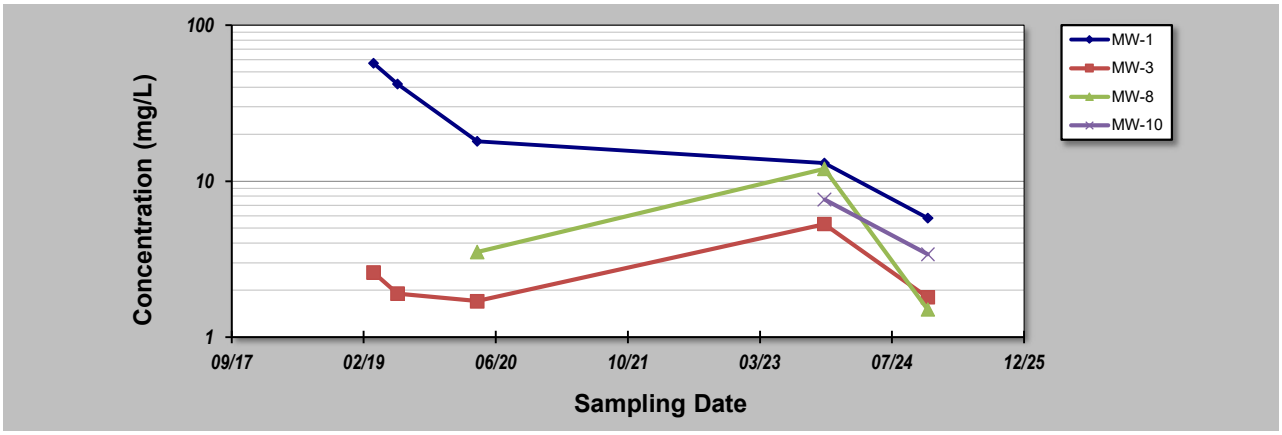
Notes:

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:	8-Apr-25	Job ID:	10172
Facility Name:	82-13 37th Avenue	Constituent:	c-DCE
Conducted By:	LKB	Concentration Units:	mg/L

Sampling Point ID:	MW-1	MW-3	MW-8	MW-10			
Sampling Event	Sampling Date	C-DCE CONCENTRATION (mg/L)						
1	13-Mar-19	57	2.6					
2	12-Jun-19	42	1.9					
3	9-Apr-20	18	1.7	3.5				
4	15-Nov-23	13	5.3	12	7.6			
5	10-Dec-24	5.8	1.8	1.5	3.4			
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Coefficient of Variation:		0.79	0.57	0.98	0.54			
Mann-Kendall Statistic (S):		-10	-2	-1	-1			
Confidence Factor:		99.2%	59.2%					
Concentration Trend:		Decreasing	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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