

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A

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www.dec.ny.gov

MEMORANDUM

TO: File

FROM: Jared Donaldson P.E.

SUBJECT: Soil Vapor Sampling August 2023

Site Name: Nassau Uniform Services **Site Code:** 130063
Address: 525 Ray Street
City: Freeport **County:** Nassau

DATE: November 25, 2025

Background

The Nassau Uniform Services site is located in Freeport, Town of Hempstead, Nassau County; see Figure 1. Soil vapor sampling was performed at the above-referenced site on August 30 and 31, 2023 by the New York State Department of Environmental Conservation (Department). Five soil vapor wells (two permanent and three temporary) were sampled. A soil vapor sample location map is provided in Figure 2.

The primary contaminants of concern in the on-site groundwater, soil, and soil vapor are volatile organic compounds (VOCs). A source area of VOCs was identified on-site consisting primarily of tetrachloroethylene and its breakdown products exceeding Standards, Criteria and Guidance (SCGs) values. Per the Record of Decision (ROD), the source area was being addressed via a groundwater pump and treat system and a soil vapor extraction system. These systems were installed at the site in 2003 and operated until 2009 when they were shutdown to allow for the installation of a new bulkhead/excavations within the building footprint. The systems were to be reactivated after the completion of the excavation however, they were significantly damaged by Superstorm Sandy and the Responsible Party abandoned the site rather than pay for repairs. Endpoint soil sample results documented remaining VOC and metal exceedances of SCGs in the area of a former oil water separator. An additional investigation was proposed to be conducted in 2013 to assess groundwater and soil vapor conditions across the site, but it was not fully completed prior to the RP's departure.

Central office staff assumed project management duties in late 2021 and then conducted a subsequent site visit and groundwater sampling in 2022. Based on the results of the groundwater sampling, perimeter soil vapor sampling was proposed to assess the potential for off-site soil vapor migration. This report summarizes the soil vapor sampling activities undertaken and the results.



Department of
Environmental
Conservation

Soil Vapor Sampling Procedures

- Remove soil vapor point cover and free sample tubing.
- Seal the annular space between the hole and tubing using 100% beeswax or another inert, non-shrinking sealing compound.
- Perform helium tracer test using shroud and helium detector and record value to ensure proper seal.
- Purge the tubing using a vacuum pump or gas-tight syringe (~60 cc). Calculate the volume of air ($\text{volume} = \pi r^2 h$) in the tubing and purge three tubing volumes prior to sample collection at a rate no greater than 0.2 liter per minute (lpm).
- Use an evacuated 6-Liter Summa® passivated (or equivalent) canister to collect the soil vapor sample. The canister will be provided by the laboratory, along with a flow controller equipped with an in-line particulate filter and a vacuum gauge. The flow controller will be pre-calibrated by the laboratory for the desired flow rate for the duration of 2 hours for sample collection. The sampling flow rate should always be less than 0.2 lpm.
- Remove the protective brass plug from canister. Connect the pre-calibrated flow controller to the canister.
- Record the identification numbers for the canister and flow controller. Record the initial canister pressure on the vacuum gauge (check equipment-specific instructions for taking this measurement). A canister with a significantly different pressure than originally recorded by the testing laboratory should not be used for sampling. Record these numbers and values on the chain-of-custody form for each sample.
- Connect the tubing from the soil vapor sampling probe to the flow controller.
- Completely open the valve on the canister. Record the time that the valve is opened (beginning of sampling) and the canister pressure on the vacuum gauge.
- Photograph the canister and the area surrounding the canister.
- Stop sample collection after the scheduled duration of sample collected, but when the canister still has a minimum amount of vacuum remaining. Check with the laboratory supplying the canister and flow controller for the ideal final vacuum pressure.
- Record the final vacuum pressure and close the canister valve. Record the date and time that sample collection was stopped.

- Remove the flow controller from the canister and replace the protective brass plug.
- Attach labels/tags (sample name, time/date of sampling, etc.) to the canister as directed by the laboratory.
- Place the canister and other laboratory-supplied equipment in the packaging provided by the laboratory.
- Enter the information required for each sample on the chain-of-custody form, making sure to include the identification numbers for the canister and flow controller, and the initial and final canister pressures on the vacuum gauge.
- Include the required copies of the chain-of-custody form in the shipping packaging, as directed by the laboratory. The field crew should retain a copy of the chain-of-custody for the project file.
- Deliver or ship the samples to the laboratory within one business day of sample collection and via overnight delivery (when shipping).

Site-Wide Inspection

Only the site and building exterior were evaluated during the sampling event. The parking lot is fenced in, but the fence is in a state of disrepair and is down in one location. There are numerous holes in the building's masonry walls and openings in the boards covering the windows. The main door is secured by two locks, the Village of Freeport Superintendent of Buildings provided DEC with a key to the locks.

The monitoring wells located outside of the building remain in decent condition, well covers and casings are intact. Newly installed soil vapor points (EAR) were easily located and had secure covers and fittings.

Deviations from the Field Activities Plan

While attempting to begin sampling from VMP-3, 4, and 5 field staff encountered groundwater in the sample tubing. It was discovered that EAR improperly installed wells below the groundwater table. Field staff contacted EAR and requested delivery of supplies to install temporary soil vapor sampling points. Three temporary points were installed in the locations of VMP-3, 4, and 5 using sand, bentonite, vapor points, and tubing. Points were properly sealed and sampled using the same procedures as the permanent sampling points.

Soil Vapor Survey Results

Total VOCs were detected in three locations at concentrations greater than 1,000 ug/m³. The maximum detections were in VMP-5 with PCE at 6300 ug/m³ and TCE at 1,300 ug/m³. VMP-1, and 2 also had greatly elevated levels of PCE and TCE. Field logs, soil vapor point construction logs, and sampling logs are included in Appendix A.

Summary and Recommendations

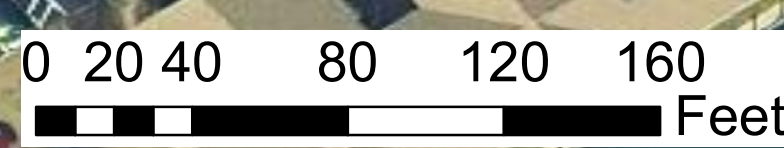
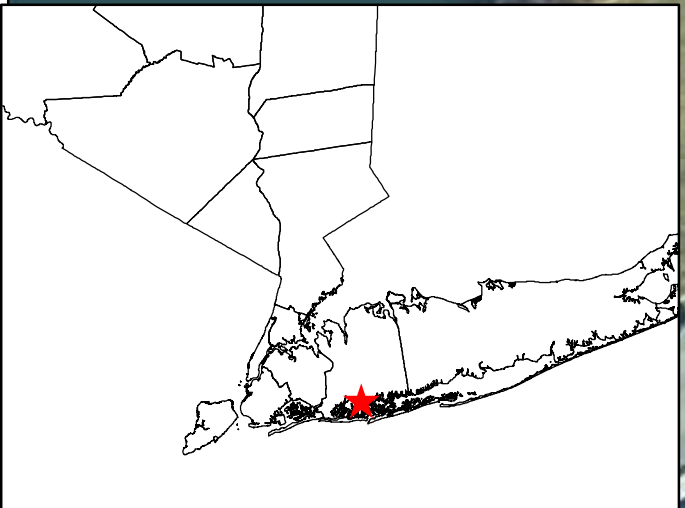
The 2023 soil vapor sampling results found elevated levels of chlorinated VOCs in sample locations at the site boundary. Given the proximity of multiple housing units within a close distance to the site, it is recommended that the two adjacent complexes be canvassed for Soil Vapor Intrusion sampling. This will be conducted in the 2024-2025 heating season.

The laboratory data package is attached in Appendix B.

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Figures

Figure 1: Site Location
130063 - Nassau Uniform Services
Freeport, Nassau County



Legend

- Remediation Site
- Site Boundary

Chlorinated VOCs in Vapor

130063 - Nassau Uniform Services

Freeport, Nassau County

Location ID	VMP-4	DUP-1
Depth (feet bg)	(2-3)	(2-3)
Sampling Date	8/31/2023	8/31/2023
TO-15	Result (ug/m3)	Result (ug/3)
1,1,1-Trichloroethane	3.1	3.2
1,1-Dichloroethane	18	18
1,1-Dichloroethylene	ND	2.8
1,2-Dichloroethane	ND	ND
Carbon Tetrachloride	0.24	0.23
Chloroethane	0.31	0.4
cis-1,2-Dichloroethylene	43	44
Methylene Chloride	ND	ND
Tetrachloroethylene	220	230
trans-1,2-Dichloroethylene	8	8.7
Trichloroethylene	74	74
Vinyl Chloride	12	13
Total VOCs	378.65	394.33

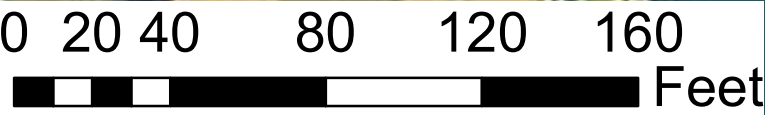
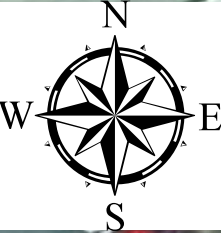
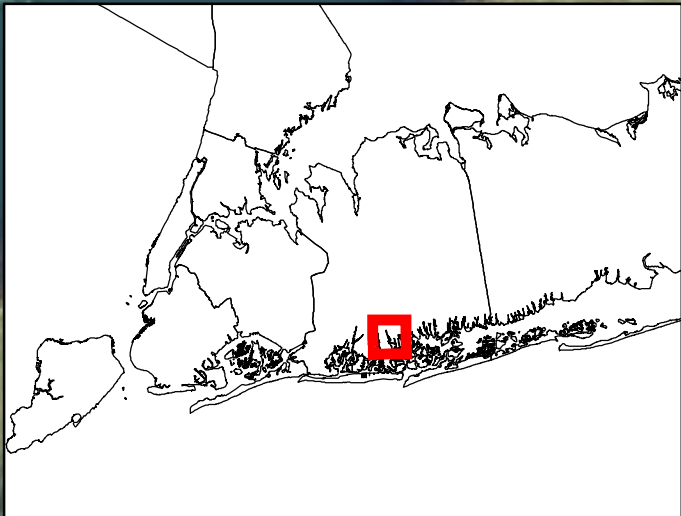
Location ID	VMP-3
Depth (feet bg)	(2-3)
Sampling Date	8/31/2023
TO-15	Result (ug/m3)
1,1,1-Trichloroethane	ND
1,1-Dichloroethane	0.15
1,1-Dichloroethylene	ND
1,2-Dichloroethane	ND
Carbon Tetrachloride	ND
Chloroethane	ND
cis-1,2-Dichloroethylene	ND
Methylene Chloride	ND
Tetrachloroethylene	260
trans-1,2-Dichloroethylene	ND
Trichloroethylene	0.73
Vinyl Chloride	ND
Total VOCs	260.88

Location ID	VMP-5
Depth (feet bg)	(1-2)
Sampling Date	8/31/2023
TO-15	Result (ug/m3)
1,1,1-Trichloroethane	12
1,1-Dichloroethane	2.3
1,1-Dichloroethylene	1.1
1,2-Dichloroethane	ND
Carbon Tetrachloride	ND
Chloroethane	ND
cis-1,2-Dichloroethylene	350
Methylene Chloride	ND
Tetrachloroethylene	6300
trans-1,2-Dichloroethylene	4.9
Trichloroethylene	1300
Vinyl Chloride	3.8
Total VOCs	7974.1

Location ID	Ambient
Sampling Date	8/30/2023
TO-15	Result (ug/m3)
1,1,1-Trichloroethane	ND
1,1-Dichloroethane	ND
1,1-Dichloroethylene	0.13
1,2-Dichloroethane	ND
Carbon Tetrachloride	0.45
Chloroethane	0.17
cis-1,2-Dichloroethylene	ND
Methylene Chloride	10
Tetrachloroethylene	0.84
trans-1,2-Dichloroethylene	0.14
Trichloroethylene	ND
Vinyl Chloride	ND
Total VOCs	11.73

Location ID	VMP-1
Depth (feet bg)	4
Sampling Date	8/30/2023
TO-15	Result (ug/m3)
1,1,1-Trichloroethane	1.2
1,1-Dichloroethane	ND
1,1-Dichloroethylene	ND
1,2-Dichloroethane	ND
Carbon Tetrachloride	ND
Chloroethane	3.8
cis-1,2-Dichloroethylene	4
Methylene Chloride	2
Tetrachloroethylene	820
trans-1,2-Dichloroethylene	ND
Trichloroethylene	190
Vinyl Chloride	5.8
Total VOCs	1026.8

Location ID	VMP-2
Depth (feet bg)	4
Sampling Date	8/30/2023
TO-15	Result (ug/m3)
1,1,1-Trichloroethane	1.2
1,1-Dichloroethane	ND
1,1-Dichloroethylene	ND
1,2-Dichloroethane	ND
Carbon Tetrachloride	ND
Chloroethane	ND
cis-1,2-Dichloroethylene	0.13
Methylene Chloride	ND
Tetrachloroethylene	1200
trans-1,2-Dichloroethylene	ND
Trichloroethylene	4.5
Vinyl Chloride	ND
Total VOCs	1205.83



Legend

- Soil Vapor Sample Location
- Remediation Site
- Site Boundary

Appendix A

Field Logs



Email: Info@Enviro-Assmt.com
WWW.Enviro-Assmt.com

Page 1 of 1

DRILLING LOG - Vapor Monitoring Point

DRILLING DETAILS

WELL CONSTRUCTION

PROJECT/SITE NAME	DEC-Freeport525
SITE ADDRESS	525 Ray Street Freeport, New York
NYSDEC SPILL NUMBER	130063
BORING I.D.	VMP-01
DRILLING METHOD	Direct Push via Manual Slam Bar
DRILLING COMPANY	E.A.R
HEAD DRILLER	E. Lucero
LOGGED BY	S. DelGaudio
BOREHOLE DIAMETER	2"
SAMPLE METHOD	N/A
DEPTH-TO-WATER	N/A
TOTAL WELL DEPTH (TWD)	4'

TUBING

Type HDPE Diameter 0.25" Length 4'

STAINLESS STEEL BRAIDED IMPLANT

Type SS Diameter 0.5" Slot N/A Length 6"

GRAVEL PACK Glass Beads (4'- 2' bg)

Native Fill (6"- grade)

CASING SEAL Bentonite from 2' bg to 6" bg

SECURITY 5" diameter Bolt Down Manhole

FINISH Cement Pad

COMMENTS	4'3" South of SouthWest building corner
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45'9" West of middle mail box in mail box

bank 45'6" North / NorthEast of storm drain

in parking lot

[illegible]

3 volume purge = 173.52 mL
rate < 200 mL/min



225 Atlantic Avenue
Patchogue, New York 11772
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WWW.Enviro-Asmt.com

Installation Date 6/20/23

Page 1 of 1

DRILLING LOG - Vapor Monitoring Point

DRILLING DETAILS

PROJECT/SITE NAME DEC-Freeport525
SITE ADDRESS 525 Ray Street
Freeport, New York

NYSDEC SPILL NUMBER 130063
BORING I.D. VMP-02
DRILLING METHOD Direct Push via Manual Slam Bar
DRILLING COMPANY E.A.R
HEAD DRILLER E. Lucero
LOGGED BY S. DelGaudio
BOREHOLE DIAMETER 2"
SAMPLE METHOD N/A
DEPTH-TO-WATER N/A
TOTAL WELL DEPTH (TWD) 4'

WELL CONSTRUCTION

TUBING

Type HDPE Diameter 0.25" Length 4'

STAINLESS STEEL BRAIDED IMPLANT

Type SS Diameter 0.5" Slot N/A Length 6"

GRAVEL PACK Glass Beads (4'- 2' bg)

Native Fill (6"- grade)

CASING SEAL Bentonite from 2' bg to 6" bg

SECURITY 5" diameter Bolt Down Manhole

FINISH Cement Pad

COMMENTS 25'10" SouthEast of 525 Ray St building
corner. 45'8" NorthEast of SouthEast 525
Ray St building corner. 6'7" NorthEast of
protruding building wall corner

Depth
Below
Grade

Well Design

Soil Lithology/Field Observations

Depth

Description/Classification

Sample Type

Screening
Interval

PID
Reading

* No Lithology Logged During Installation

TWD
4'

Not to Scale

Backfill



Native Fill



Bentonite



Glass



"Trace", 1 - 10%

"Little", 10 - 20%

"Some", 20 - 30%

"And", 30 - 50%



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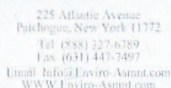
Installation Date 7/24/23

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DRILLING LOG - Vapor Monitoring Point

DRILLING DETAILS		WELL CONSTRUCTION	
PROJECT/SITE NAME	DEC-Freeport525	TUBING	
SITE ADDRESS	525 Ray Street Freeport, New York	Type	HDPE Diameter 0.25" Length 4'
NYSDEC SPILL NUMBER	130063	STAINLESS STEEL BRAIDED IMPLANT	
BORING I.D.	VMP-03	Type	SS Diameter 0.5" Slot N/A Length 6"
DRILLING METHOD	Direct Push via Manual Slam Bar	GRAVEL PACK	Glass Beads (4'- 2' bg) Native Fill (6"- grade)
DRILLING COMPANY	E.A.R	CASING SEAL	Bentonite from 2' bg to 6" bg
HEAD DRILLER	E. Lucero	SECURITY	5" diameter Bolt Down Manhole
LOGGED BY	S. DelGaudio	FINISH	Cement Pad
BOREHOLE DIAMETER	2"	COMMENTS	22'1" NorthWest of NorthEast building corner (525 Ray St.) 40'0" West of driveway to lot West edge. 27'0" East of overgrown rectangle NorthEast corner on 525 Ray st North Wall
SAMPLE METHOD	N/A		
DEPTH-TO-WATER	N/A		
TOTAL WELL DEPTH (TWD)	4'		

Depth Below Grade	Well Design	Soil Lithology/Field Observations			
		Depth	Description/Classification	Sample Type	Screening Interval PID Reading
			* No Lithology Logged During Installation		
			First 2 attempts encountered asphalt at 1" bg.		
			fbg		
		0-0.8'	Topsoil		
		0.2-0.5	Brown; mfn sand; little silt; little small gravel; trace cr. sand		
		0.5-1	s.a.a.		8" sand
		1.0-1.5	Tan cr-fn sand; little silt; little small gravel; trace clay		bentonite to grade
		1.5-2.0	Tan mfn sand; some fn sand; little clay little small gravel		
		TD=2'2"			
			ALL PID = 0.0 ppm No odor/staining		
TWD 4'	Not to Scale				
Backfill  Native Fill  Bentonite  Glass  "Trace", 1 - 10% "Some", 20 - 30% "Little", 10 - 20% "And", 30 - 50%					



Page 1 of 1

WELL CONSTRUCTION

PROJECT/SITE NAME	DEC-Freeport525
SITE ADDRESS	525 Ray Street Freeport, New York
NYSDEC SPILL NUMBER	130063
BORING I.D.	VMP-04
DRILLING METHOD	Direct Push via Manual Slam Bar
DRILLING COMPANY	E.A.R
HEAD DRILLER	E. Lucero
LOGGED BY	S. DelGaudio
BOREHOLE DIAMETER	2"
SAMPLE METHOD	N/A
DEPTH-TO-WATER	N/A
TOTAL WELL DEPTH (TWD)	4'

TUBING
Type HDPE Diameter 0.25" Length 4'

STAINLESS STEEL BRAIDED IMPLANT
Type SS Diameter 0.5" Slot N/A Length 6"

GRAVEL PACK Glass Beads (4'- 2' bg)
Native Fill (6"- grade)

CASING SEAL Bentonite from 2' bg to 6" bg

SECURITY 5" diameter Bolt Down Manhole

FINISH Cement Pad

COMMENTS 7'2" West of West corner of over grown rectangle on
Noth wall of 525 Ray St. 44'10" East of light pole on the
driveway corner. 9'5" South, perpendicular to the
North wall of 525 ray St.

Depth Below Grade	Well Design	Soil Lithology/Field Observations			
		Depth	Description/Classification	Sample Type	Screening Interval PID Reading
			* No Lithology Logged During Installation		
			VM P-04 location attempted 7 locations - obstruction in each location 26-8" b.g. attempt directly across sidewalk/ in grass before curb - obstruction at 1.25' - apparent concrete slab 17C9 Install between grass & sidewalk 15' west of original point #1655 0-0.5 Brown; m-fn sand; some silt; 1/4 the gravel med; trace cr. sand; no odor/stain 0.5-1.0 - s.a.a 1.0-1.5 s.a.a 1.5-2'2" s.a.a TWD 4' Not to Scale ALL PID = 0.0ppb	TD = 2'2" 8" sand pack; Bentonite to grade s.a.a. = same as above	

④ $\angle 15^\circ - 56'$



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Page 1 of 1

DRILLING LOG - Vapor Monitoring Point

DRILLING DETAILS

PROJECT/SITE NAME	DEC-Freeport525
SITE ADDRESS	525 Ray Street Freeport, New York
NYSDEC SPILL NUMBER	130063
BORING I.D.	VMP-05
DRILLING METHOD	Direct Push via Manual Slam Bar
DRILLING COMPANY	E.A.R
HEAD DRILLER	E. Lucero
LOGGED BY	S. DelGaudio
BOREHOLE DIAMETER	2"
SAMPLE METHOD	N/A
DEPTH-TO-WATER	N/A
TOTAL WELL DEPTH (TWD)	4'

WELL CONSTRUCTION

TUBING

Type HDPE Diameter 0.25" Length 4'

STAINLESS STEEL BRAIDED IMPLANT

Type SS Diameter 0.5" Slot N/A Length 6"

GRAVEL PACK Glass Beads (4'- 2' bg)
Native Fill (6"- grade)

CASING SEAL Bentonite from 2' bg to 6" bg

SECURITY 5" diameter Bolt Down Manhole

FINISH Cement Pad

COMMENTS 27'6" West of light pole at the corner of the driveway.
16'11" North of 525 Ray st NW building corner.
21'6" South of brick cross walk SoutEast corner.

Depth Below Grade	Well Design	Soil Lithology/Field Observations				
		Depth	Description/Classification	Sample Type	Screening Interval	PID Reading
			* No Lithology Logged During Installation	VPM-5 Reinstall	TD = 25"	
		0-0.4	Brown m-fn sand AND silt; ^{sample med.} little gravel (sub-angular)			
		0.4-0.8	trace clay little clay			
		0.8-1.2	Brown m-fn sand; some silt; ^{med.} little gravel (sub-angular);			
		0.8-1.2	trace clay			
		1.2-1.6	s.a.a except NO clay			
		1.6-2.0	s.a.a			
			No odors/stainings/all slightly moist GW table not encountered PID = all 0.0 ppb		8" sand (17-25") Bentonite to surface	
TWD 4'						
	Not to Scale					
			s.a.w. Same as above			

Backfill  Native Fill  Bentonite  Glass  "Trace", 1 - 10% "Some", 20 - 30%
"Little", 10 - 20% "And", 30 - 50%



**Department of
Environmental
Conservation**

**Division of Environmental Remediation
Central Office**

Field Log

Site Code #:	Date: 8/30/23	Arrival Time: 11:10 AM
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Site Name: Nassau Uniform

Location:

DEC Project Manager: Jared Donaldson

	AM	PM
Weather	Rain	
Temperature	75°F	
Wind Direction	NE	

Objective, People, and Equipment On-site:

Soil vapor sampling with Jolene Lozewski, Christopher Aucoin, Steeven Imbaquingo, and Christopher Grady from Region 1

Health & Safety:

Level of protection: Level D

Description of Inspection Activities and Discussions:

Arrived site to located soil vapor wells.

11:36 AM – Began at VMP-1, located off-site adjacent to building site, prepared for soil vapor purging into Tedlar bag and then performed helium test. Started sampling using Summa cannister for 2 hours.

The next set up was at VMP-2 and set up an ambient air sample at the vacant parking lot of the site. VMP-3, VMP-4, and VMP-5 were located by Ray Street, and couldn't purge soil vapor due to water present in the line tubing. Waited for 30 mins anticipating for water table to decrease but it was unsuccessful after two attempts.

Called EAR to bring materials and equipment to installed new temporary soil vapor points to an approximate depth of 2 ft and 2 in.

Spoke to two people regarding the structure of the building and water concerns receiving at their house.

Representative's Signature:

Departure Time: 5 pm

Photo Log



Figure 1: installing new temporary soil vapor point near VMP-5



Figure 2: Finished temporary soil vapor point near VMP-5.



**Department of
Environmental
Conservation**

**Division of Environmental Remediation
Central Office**

Field Log

Site Code #:	Date: 8/31/23	Arrival Time: 7:00AM
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Site Name:

Location:

DEC Project Manager:

	AM	PM
Weather	Mostly Cloudy	
Temperature	63°F	
Wind Direction	S	

Objective, People, and Equipment On-site:

Finish soil vapor sampling by Ray Street. Present at site: Jolene Lozewski, Christopher Aucoin, Steeven Imbaquingo, and Christopher Grady from Region 1

Health & Safety:

Level of protection: Level D

Description of Inspection Activities and Discussions:

Began setting up soil vapor sampling at VMP-5, then at VMP-4 (and duplicate), and lastly at VMP-3. After collecting soil vapor left the site and drop off samples at the lab in Melville, NY

Representative's Signature:

Departure Time: 9:50 AM

Photo Log



Figure 1: Collecting soil vapor and a duplicate at the temporary soil vapor point location near VMP-4. Facing south southeast

Air Sampling Form
Nassau Uniform - 130063
130063
Freeport, NY

Structure ID	Sample ID	Summa ID	Summa Size (L)	Regulator ID	Date	Start Time	Initial Vacuum ("Hg)	End Time	Final Vacuum ("Hg)	Purge Volume (ml)	PID (ppb)	Helium Test (%)
	VMP-1	BC 2062	6	4412	8/30/23	11:48 AM	-29	1348	-5	180	0.0	0
	VMP-2	BC 1644	6	4409	8/30/23	12:07 PM	-29	1409	-7	180	0.0	0
	AA-1	BC 1478	6	4414	8/30/23	12:07	-28.5	1414	-3.5		✓	✓
	VMP-4	BC 2038	6	4434	8/31/23	07:31	-29.5	9:31	-5	180		0
	DUP-1	BC 1822	6	4415	8/31/23	0	-28.5	9:31	-5.5	180		0
	VMP-5	BC 2450	6	4442	8/31/23	7:19 AM	-28	9:19	-3.5	180		0
	VMP-3	BC 2220	6	4427	8/31/23	7:38 AM	-30	9:38	-6	180		0

Notes:

Water was encountered in VMP-3, 4, 5 due to high water table. Temporary soil vapor sampling points were installed at each location to ~2 ft b.g. Soils screened from each temporary point had no PID detections.

1. Sample Analysis TO-15.
2. Duplicate collected from VMP-4.
3. Purge rate <200 milliliters per minute.
4. Indoor air (IA) and outdoor air (OA) samples are set approximately 4 feet above ground surface.
5. Sub-slab soil vapor (SS) points are existing sample points from the remedial investigation.
6. Helium Test: High concentration if >10% of helium per DOH Guidance Section 2.7.5.

Units:

1. L - liter
2. "Hg - inches of mercury
3. ppb - parts per billion

Appendix B

Lab Report

September 13, 2023

Jared Donaldson
NYS Division of Environmental Remediation
625 Broadway 12th Floor
Albany, NY 12233-7012

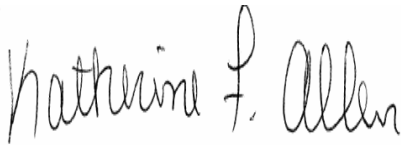
Project Location: Freeport
Client Job Number:
Project Number: 130063
Laboratory Work Order Number: 23I0213

Enclosed are results of analyses for samples as received by the laboratory on September 2, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

NYS Division of Environmental Remediation
625 Broadway 12th Floor
Albany, NY 12233-7012
ATTN: Jared Donaldson

REPORT DATE: 9/13/2023

PURCHASE ORDER NUMBER: 145594

PROJECT NUMBER: 130063

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23I0213

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

PROJECT LOCATION: Freeport

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
20230830-VMP-1	23I0213-01	Soil Gas		EPA TO-15	
20230830-VMP-2	23I0213-02	Soil Gas		EPA TO-15	
20230830-AA-1	23I0213-03	Ambient Air		EPA TO-15	
20230831-DUP-1	23I0213-04	Soil Gas		EPA TO-15	
20230831-VMP-5	23I0213-05	Soil Gas		EPA TO-15	
20230831-VMP-4	23I0213-06	Soil Gas		EPA TO-15	
20230831-VMP-3	23I0213-07	Soil Gas		EPA TO-15	

CASE NARRATIVE SUMMARY

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

EPA TO-15**Qualifications:**

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

Analyte & Samples(s) Qualified:**Isopropanol**

23I0213-03[20230830-AA-1]

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

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene, Hexachlorobutadiene**

B351812-BS1

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

Analyte & Samples(s) Qualified:**Isopropanol**

23I0213-01[20230830-VMP-1], 23I0213-02[20230830-VMP-2], 23I0213-03[20230830-AA-1], 23I0213-04[20230831-DUP-1], 23I0213-05[20230831-VMP-5], 23I0213-06[20230831-VMP-4], 23I0213-07[20230831-VMP-3], B351812-BLK1, B351812-BS1

L-05 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:**Hexachlorobutadiene, Naphthalene**

B351442-BS1, 23I0213-04[20230831-DUP-1], 23I0213-06[20230831-VMP-4], 23I0213-07[20230831-VMP-3], B351812-BS1

V-06 Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**Hexachlorobutadiene**

B351442-BS1, S093132-CCV1

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

Analyte & Samples(s) Qualified:**Hexachlorobutadiene**

S093309-CCV1

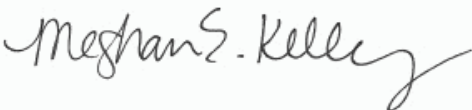
Z-01 Calibrations RSD for this compound is >30% but <40%.

Analyte & Samples(s) Qualified:**Naphthalene**

23I0213-01[20230830-VMP-1], 23I0213-02[20230830-VMP-2], 23I0213-03[20230830-AA-1], 23I0213-04[20230831-DUP-1], 23I0213-05[20230831-VMP-5], 23I0213-06[20230831-VMP-4], 23I0213-07[20230831-VMP-3], B351442-BLK1, B351442-BS1, B351812-BLK1, B351812-BS1, S093132-CCV1, S093309-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

ANALYTICAL RESULTS

Project Location: Freeport

Date Received: 9/2/2023

Field Sample #: 20230830-VMP-1
Sample ID: 2310213-01

Sample Matrix: Soil Gas

Sampled: 8/30/2023 13:48

Sample Description/Location:

Sub Description/Location:

Canister ID: 2162

Canister Size: 6 liter

Flow Controller ID: 4412

Sample Type: 2 hr

Work Order: 2310213

Initial Vacuum(in Hg): -29

Final Vacuum(in Hg): -5

Receipt Vacuum(in Hg): -5.7

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	170	20	4.7		410	48	11	10	9/6/23 22:20		TPH
Benzene	0.18	0.10	0.031		0.56	0.32	0.099	2	9/6/23 21:54		TPH
Benzyl chloride	ND	0.40	0.054		ND	2.1	0.28	2	9/6/23 21:54		TPH
Bromodichloromethane	ND	0.10	0.027		ND	0.67	0.18	2	9/6/23 21:54		TPH
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	9/6/23 21:54		TPH
Bromomethane	2.6	0.10	0.053		10	0.39	0.21	2	9/6/23 21:54		TPH
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	9/6/23 21:54		TPH
2-Butanone (MEK)	3.1	4.0	1.1	J	9.0	12	3.3	2	9/6/23 21:54		TPH
Carbon Disulfide	0.45	1.0	0.19	J	1.4	3.1	0.60	2	9/6/23 21:54		TPH
Carbon Tetrachloride	ND	0.10	0.029		ND	0.63	0.18	2	9/6/23 21:54		TPH
Chlorobenzene	ND	0.10	0.025		ND	0.46	0.12	2	9/6/23 21:54		TPH
Chloroethane	1.4	0.10	0.063		3.8	0.26	0.17	2	9/6/23 21:54		TPH
Chloroform	0.69	0.10	0.026		3.4	0.49	0.13	2	9/6/23 21:54		TPH
Chloromethane	24	0.20	0.041		51	0.41	0.084	2	9/6/23 21:54		TPH
Cyclohexane	ND	0.10	0.044		ND	0.34	0.15	2	9/6/23 21:54		TPH
Dibromochloromethane	ND	0.10	0.027		ND	0.85	0.23	2	9/6/23 21:54		TPH
1,2-Dibromoethane (EDB)	0.044	0.10	0.033	J	0.34	0.77	0.26	2	9/6/23 21:54		TPH
1,2-Dichlorobenzene	ND	0.10	0.035		ND	0.60	0.21	2	9/6/23 21:54		TPH
1,3-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	9/6/23 21:54		TPH
1,4-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	9/6/23 21:54		TPH
Dichlorodifluoromethane (Freon 12)	0.21	0.10	0.042		1.0	0.49	0.21	2	9/6/23 21:54		TPH
1,1-Dichloroethane	ND	0.10	0.032		ND	0.40	0.13	2	9/6/23 21:54		TPH
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	9/6/23 21:54		TPH
1,1-Dichloroethylene	ND	0.10	0.029		ND	0.40	0.11	2	9/6/23 21:54		TPH
cis-1,2-Dichloroethylene	1.0	0.10	0.031		4.0	0.40	0.12	2	9/6/23 21:54		TPH
trans-1,2-Dichloroethylene	ND	0.10	0.033		ND	0.40	0.13	2	9/6/23 21:54		TPH
1,2-Dichloropropane	ND	0.10	0.027		ND	0.46	0.13	2	9/6/23 21:54		TPH
cis-1,3-Dichloropropene	ND	0.10	0.045		ND	0.45	0.20	2	9/6/23 21:54		TPH
trans-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.23	2	9/6/23 21:54		TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	9/6/23 21:54		TPH
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	9/6/23 21:54		TPH
Ethanol	5.0	4.0	2.7		9.4	7.5	5.0	2	9/6/23 21:54		TPH
Ethyl Acetate	ND	1.0	0.29		ND	3.6	1.0	2	9/6/23 21:54		TPH
Ethylbenzene	ND	0.10	0.029		ND	0.43	0.13	2	9/6/23 21:54		TPH
4-Ethyltoluene	ND	0.10	0.043		ND	0.49	0.21	2	9/6/23 21:54		TPH
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	9/6/23 21:54		TPH
Hexachlorobutadiene	ND	0.10	0.058		ND	1.1	0.61	2	9/6/23 21:54		TPH
Hexane	ND	4.0	1.3		ND	14	4.7	2	9/6/23 21:54		TPH
2-Hexanone (MBK)	0.21	0.40	0.043	J	0.86	1.6	0.18	2	9/6/23 21:54		TPH
Isopropanol	1.5	4.0	1.3	L-03, J	3.6	9.8	3.1	2	9/6/23 21:54		TPH
Methyl tert-Butyl Ether (MTBE)	0.21	0.10	0.049		0.76	0.36	0.18	2	9/6/23 21:54		TPH
Methylene Chloride	0.58	1.0	0.27	J	2.0	3.5	0.93	2	9/6/23 21:54		TPH
4-Methyl-2-pentanone (MIBK)	0.054	0.10	0.053	J	0.22	0.41	0.22	2	9/6/23 21:54		TPH
Naphthalene	ND	0.10	0.067	Z-01	ND	0.52	0.35	2	9/6/23 21:54		TPH
Propene	ND	4.0	1.1		ND	6.9	1.9	2	9/6/23 21:54		TPH
Styrene	ND	0.10	0.054		ND	0.43	0.23	2	9/6/23 21:54		TPH
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	9/6/23 21:54		TPH

ANALYTICAL RESULTS

Project Location: Freeport
Date Received: 9/2/2023
Field Sample #: 20230830-VMP-1
Sample ID: 23I0213-01
Sample Matrix: Soil Gas
Sampled: 8/30/2023 13:48

Sample Description/Location:
Sub Description/Location:
Canister ID: 2162
Canister Size: 6 liter
Flow Controller ID: 4412
Sample Type: 2 hr

Work Order: 23I0213
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	120	0.50	0.19		820	3.4	1.3	10	9/6/23 22:20		TPH
Tetrahydrofuran	ND	1.0	0.21		ND	2.9	0.61	2	9/6/23 21:54		TPH
Toluene	0.13	0.10	0.036		0.47	0.38	0.14	2	9/6/23 21:54		TPH
1,2,4-Trichlorobenzene	ND	0.10	0.054		ND	0.74	0.40	2	9/6/23 21:54		TPH
1,1,1-Trichloroethane	0.22	0.10	0.031		1.2	0.55	0.17	2	9/6/23 21:54		TPH
1,1,2-Trichloroethane	ND	0.10	0.026		ND	0.55	0.14	2	9/6/23 21:54		TPH
Trichloroethylene	36	0.10	0.041		190	0.54	0.22	2	9/6/23 21:54		TPH
Trichlorofluoromethane (Freon 11)	0.31	0.40	0.041	J	1.7	2.2	0.23	2	9/6/23 21:54		TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.064	0.40	0.022	J	0.49	3.1	0.17	2	9/6/23 21:54		TPH
1,2,4-Trimethylbenzene	ND	0.10	0.046		ND	0.49	0.23	2	9/6/23 21:54		TPH
1,3,5-Trimethylbenzene	ND	0.10	0.052		ND	0.49	0.25	2	9/6/23 21:54		TPH
Vinyl Acetate	ND	2.0	0.36		ND	7.0	1.3	2	9/6/23 21:54		TPH
Vinyl Chloride	2.3	0.10	0.046		5.8	0.26	0.12	2	9/6/23 21:54		TPH
m&p-Xylene	ND	0.20	0.070		ND	0.87	0.30	2	9/6/23 21:54		TPH
o-Xylene	ND	0.10	0.037		ND	0.43	0.16	2	9/6/23 21:54		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.1	70-130	9/6/23 22:20
4-Bromofluorobenzene (1)	95.1	70-130	9/6/23 21:54

ANALYTICAL RESULTS

Project Location: Freeport
 Date Received: 9/2/2023
Field Sample #: 20230830-VMP-2
Sample ID: 2310213-02
 Sample Matrix: Soil Gas
 Sampled: 8/30/2023 14:09

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1644
 Canister Size: 6 liter
 Flow Controller ID: 4409
 Sample Type: 2 hr

Work Order: 2310213
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -7.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	240	60	14		570	140	34	30	9/7/23 13:16		CMR
Benzene	0.54	0.10	0.031		1.7	0.32	0.099	2	9/6/23 22:47		TPH
Benzyl chloride	ND	0.40	0.054		ND	2.1	0.28	2	9/6/23 22:47		TPH
Bromodichloromethane	ND	0.10	0.027		ND	0.67	0.18	2	9/6/23 22:47		TPH
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	9/6/23 22:47		TPH
Bromomethane	ND	0.10	0.053		ND	0.39	0.21	2	9/6/23 22:47		TPH
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	9/6/23 22:47		TPH
2-Butanone (MEK)	1.6	4.0	1.1	J	4.6	12	3.3	2	9/6/23 22:47		TPH
Carbon Disulfide	0.51	1.0	0.19	J	1.6	3.1	0.60	2	9/6/23 22:47		TPH
Carbon Tetrachloride	ND	0.10	0.029		ND	0.63	0.18	2	9/6/23 22:47		TPH
Chlorobenzene	ND	0.10	0.025		ND	0.46	0.12	2	9/6/23 22:47		TPH
Chloroethane	ND	0.10	0.063		ND	0.26	0.17	2	9/6/23 22:47		TPH
Chloroform	0.11	0.10	0.026		0.55	0.49	0.13	2	9/6/23 22:47		TPH
Chloromethane	0.34	0.20	0.041		0.71	0.41	0.084	2	9/6/23 22:47		TPH
Cyclohexane	ND	0.10	0.044		ND	0.34	0.15	2	9/6/23 22:47		TPH
Dibromochloromethane	ND	0.10	0.027		ND	0.85	0.23	2	9/6/23 22:47		TPH
1,2-Dibromoethane (EDB)	0.036	0.10	0.033	J	0.28	0.77	0.26	2	9/6/23 22:47		TPH
1,2-Dichlorobenzene	ND	0.10	0.035		ND	0.60	0.21	2	9/6/23 22:47		TPH
1,3-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	9/6/23 22:47		TPH
1,4-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	9/6/23 22:47		TPH
Dichlorodifluoromethane (Freon 12)	0.41	0.10	0.042		2.0	0.49	0.21	2	9/6/23 22:47		TPH
1,1-Dichloroethane	ND	0.10	0.032		ND	0.40	0.13	2	9/6/23 22:47		TPH
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	9/6/23 22:47		TPH
1,1-Dichloroethylene	ND	0.10	0.029		ND	0.40	0.11	2	9/6/23 22:47		TPH
cis-1,2-Dichloroethylene	0.034	0.10	0.031	J	0.13	0.40	0.12	2	9/6/23 22:47		TPH
trans-1,2-Dichloroethylene	ND	0.10	0.033		ND	0.40	0.13	2	9/6/23 22:47		TPH
1,2-Dichloropropane	ND	0.10	0.027		ND	0.46	0.13	2	9/6/23 22:47		TPH
cis-1,3-Dichloropropene	ND	0.10	0.045		ND	0.45	0.20	2	9/6/23 22:47		TPH
trans-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.23	2	9/6/23 22:47		TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	9/6/23 22:47		TPH
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	9/6/23 22:47		TPH
Ethanol	4.0	4.0	2.7		7.6	7.5	5.0	2	9/6/23 22:47		TPH
Ethyl Acetate	ND	1.0	0.29		ND	3.6	1.0	2	9/6/23 22:47		TPH
Ethylbenzene	0.036	0.10	0.029	J	0.16	0.43	0.13	2	9/6/23 22:47		TPH
4-Ethyltoluene	ND	0.10	0.043		ND	0.49	0.21	2	9/6/23 22:47		TPH
Heptane	0.088	0.10	0.063	J	0.36	0.41	0.26	2	9/6/23 22:47		TPH
Hexachlorobutadiene	ND	0.10	0.058		ND	1.1	0.61	2	9/6/23 22:47		TPH
Hexane	ND	4.0	1.3		ND	14	4.7	2	9/6/23 22:47		TPH
2-Hexanone (MBK)	0.22	0.40	0.043	J	0.88	1.6	0.18	2	9/6/23 22:47		TPH
Isopropanol	3.0	4.0	1.3	L-03, J	7.3	9.8	3.1	2	9/6/23 22:47		TPH
Methyl tert-Butyl Ether (MTBE)	0.38	0.10	0.049		1.4	0.36	0.18	2	9/6/23 22:47		TPH
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	9/6/23 22:47		TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	9/6/23 22:47		TPH
Naphthalene	ND	0.10	0.067	Z-01	ND	0.52	0.35	2	9/6/23 22:47		TPH
Propene	ND	4.0	1.1		ND	6.9	1.9	2	9/6/23 22:47		TPH
Styrene	ND	0.10	0.054		ND	0.43	0.23	2	9/6/23 22:47		TPH
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	9/6/23 22:47		TPH

ANALYTICAL RESULTS

Project Location: Freeport
 Date Received: 9/2/2023
Field Sample #: 20230830-VMP-2
Sample ID: 23I0213-02
 Sample Matrix: Soil Gas
 Sampled: 8/30/2023 14:09

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1644
 Canister Size: 6 liter
 Flow Controller ID: 4409
 Sample Type: 2 hr

Work Order: 23I0213
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -7.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	180	1.5	0.56		1200	10	3.8	30	9/7/23 13:16		CMR
Tetrahydrofuran	ND	1.0	0.21		ND	2.9	0.61	2	9/6/23 22:47		TPH
Toluene	0.45	0.10	0.036		1.7	0.38	0.14	2	9/6/23 22:47		TPH
1,2,4-Trichlorobenzene	ND	0.10	0.054		ND	0.74	0.40	2	9/6/23 22:47		TPH
1,1,1-Trichloroethane	0.23	0.10	0.031		1.2	0.55	0.17	2	9/6/23 22:47		TPH
1,1,2-Trichloroethane	ND	0.10	0.026		ND	0.55	0.14	2	9/6/23 22:47		TPH
Trichloroethylene	0.84	0.10	0.041		4.5	0.54	0.22	2	9/6/23 22:47		TPH
Trichlorofluoromethane (Freon 11)	0.28	0.40	0.041	J	1.6	2.2	0.23	2	9/6/23 22:47		TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.074	0.40	0.022	J	0.57	3.1	0.17	2	9/6/23 22:47		TPH
1,2,4-Trimethylbenzene	0.056	0.10	0.046	J	0.28	0.49	0.23	2	9/6/23 22:47		TPH
1,3,5-Trimethylbenzene	ND	0.10	0.052		ND	0.49	0.25	2	9/6/23 22:47		TPH
Vinyl Acetate	ND	2.0	0.36		ND	7.0	1.3	2	9/6/23 22:47		TPH
Vinyl Chloride	ND	0.10	0.046		ND	0.26	0.12	2	9/6/23 22:47		TPH
m&p-Xylene	0.10	0.20	0.070	J	0.44	0.87	0.30	2	9/6/23 22:47		TPH
o-Xylene	0.054	0.10	0.037	J	0.23	0.43	0.16	2	9/6/23 22:47		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.7	70-130	9/6/23 22:47
4-Bromofluorobenzene (1)	91.3	70-130	9/7/23 13:16

ANALYTICAL RESULTS

Project Location: Freeport
 Date Received: 9/2/2023
Field Sample #: 20230830-AA-1
Sample ID: 2310213-03
 Sample Matrix: Ambient Air
 Sampled: 8/30/2023 14:14

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1478
 Canister Size: 6 liter
 Flow Controller ID: 4414
 Sample Type: 2 hr

Work Order: 2310213
 Initial Vacuum(in Hg): -28.5
 Final Vacuum(in Hg): -3.5
 Receipt Vacuum(in Hg): -1.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	11	1.4	0.33		26	3.3	0.78	0.698	9/6/23 20:07		TPH
Benzene	0.34	0.035	0.011		1.1	0.11	0.034	0.698	9/6/23 20:07		TPH
Benzyl chloride	0.11	0.14	0.019	J	0.56	0.72	0.097	0.698	9/6/23 20:07		TPH
Bromodichloromethane	ND	0.035	0.0095		ND	0.23	0.063	0.698	9/6/23 20:07		TPH
Bromoform	ND	0.035	0.012		ND	0.36	0.13	0.698	9/6/23 20:07		TPH
Bromomethane	ND	0.035	0.019		ND	0.14	0.072	0.698	9/6/23 20:07		TPH
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	9/6/23 20:07		TPH
2-Butanone (MEK)	1.0	1.4	0.39	J	2.9	4.1	1.2	0.698	9/6/23 20:07		TPH
Carbon Disulfide	0.31	0.35	0.067	J	0.95	1.1	0.21	0.698	9/6/23 20:07		TPH
Carbon Tetrachloride	0.072	0.035	0.010		0.45	0.22	0.063	0.698	9/6/23 20:07		TPH
Chlorobenzene	ND	0.035	0.0088		ND	0.16	0.040	0.698	9/6/23 20:07		TPH
Chloroethane	0.063	0.035	0.022		0.17	0.092	0.058	0.698	9/6/23 20:07		TPH
Chloroform	0.034	0.035	0.0091	J	0.17	0.17	0.044	0.698	9/6/23 20:07		TPH
Chloromethane	0.91	0.070	0.014		1.9	0.14	0.029	0.698	9/6/23 20:07		TPH
Cyclohexane	0.050	0.035	0.015		0.17	0.12	0.053	0.698	9/6/23 20:07		TPH
Dibromochloromethane	ND	0.035	0.0094		ND	0.30	0.080	0.698	9/6/23 20:07		TPH
1,2-Dibromoethane (EDB)	0.015	0.035	0.012	J	0.11	0.27	0.089	0.698	9/6/23 20:07		TPH
1,2-Dichlorobenzene	ND	0.035	0.012		ND	0.21	0.073	0.698	9/6/23 20:07		TPH
1,3-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	9/6/23 20:07		TPH
1,4-Dichlorobenzene	0.019	0.035	0.013	J	0.11	0.21	0.077	0.698	9/6/23 20:07		TPH
Dichlorodifluoromethane (Freon 12)	0.61	0.035	0.015		3.0	0.17	0.072	0.698	9/6/23 20:07		TPH
1,1-Dichloroethane	ND	0.035	0.011		ND	0.14	0.045	0.698	9/6/23 20:07		TPH
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.053	0.698	9/6/23 20:07		TPH
1,1-Dichloroethylene	0.032	0.035	0.010	J	0.13	0.14	0.039	0.698	9/6/23 20:07		TPH
cis-1,2-Dichloroethylene	ND	0.035	0.011		ND	0.14	0.043	0.698	9/6/23 20:07		TPH
trans-1,2-Dichloroethylene	0.036	0.035	0.011		0.14	0.14	0.045	0.698	9/6/23 20:07		TPH
1,2-Dichloropropane	ND	0.035	0.0096		ND	0.16	0.044	0.698	9/6/23 20:07		TPH
cis-1,3-Dichloropropene	ND	0.035	0.016		ND	0.16	0.071	0.698	9/6/23 20:07		TPH
trans-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.082	0.698	9/6/23 20:07		TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.015	0.035	0.014	J	0.11	0.24	0.098	0.698	9/6/23 20:07		TPH
1,4-Dioxane	ND	0.35	0.17		ND	1.3	0.62	0.698	9/6/23 20:07		TPH
Ethanol	8.7	1.4	0.93		16	2.6	1.7	0.698	9/6/23 20:07		TPH
Ethyl Acetate	1.3	0.35	0.10		4.9	1.3	0.36	0.698	9/6/23 20:07		TPH
Ethylbenzene	0.086	0.035	0.010		0.37	0.15	0.044	0.698	9/6/23 20:07		TPH
4-Ethyltoluene	ND	0.035	0.015		ND	0.17	0.075	0.698	9/6/23 20:07		TPH
Heptane	0.17	0.035	0.022		0.70	0.14	0.090	0.698	9/6/23 20:07		TPH
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.698	9/6/23 20:07		TPH
Hexane	0.64	1.4	0.46	J	2.3	4.9	1.6	0.698	9/6/23 20:07		TPH
2-Hexanone (MBK)	0.044	0.14	0.015	J	0.18	0.57	0.062	0.698	9/6/23 20:07		TPH
Isopropanol	76	1.4	0.44	E, L-03	190	3.4	1.1	0.698	9/6/23 20:07		TPH
Methyl tert-Butyl Ether (MTBE)	0.46	0.035	0.017		1.6	0.13	0.062	0.698	9/6/23 20:07		TPH
Methylene Chloride	3.0	0.35	0.094		10	1.2	0.33	0.698	9/6/23 20:07		TPH
4-Methyl-2-pentanone (MIBK)	0.11	0.035	0.018		0.44	0.14	0.076	0.698	9/6/23 20:07		TPH
Naphthalene	ND	0.035	0.023	Z-01	ND	0.18	0.12	0.698	9/6/23 20:07		TPH
Propene	ND	1.4	0.38		ND	2.4	0.65	0.698	9/6/23 20:07		TPH
Styrene	0.028	0.035	0.019	J	0.12	0.15	0.080	0.698	9/6/23 20:07		TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0086		ND	0.24	0.059	0.698	9/6/23 20:07		TPH

ANALYTICAL RESULTS

Project Location: Freeport
Date Received: 9/2/2023
Field Sample #: 20230830-AA-1
Sample ID: 2310213-03
Sample Matrix: Ambient Air
Sampled: 8/30/2023 14:14

Sample Description/Location:
Sub Description/Location:
Canister ID: 1478
Canister Size: 6 liter
Flow Controller ID: 4414
Sample Type: 2 hr

Work Order: 2310213
Initial Vacuum(in Hg): -28.5
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -1.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.12	0.035	0.013		0.84	0.24	0.089	0.698	9/6/23 20:07		TPH
Tetrahydrofuran	0.084	0.35	0.072	J	0.25	1.0	0.21	0.698	9/6/23 20:07		TPH
Toluene	1.7	0.035	0.013		6.4	0.13	0.048	0.698	9/6/23 20:07		TPH
1,2,4-Trichlorobenzene	ND	0.035	0.019		ND	0.26	0.14	0.698	9/6/23 20:07		TPH
1,1,1-Trichloroethane	ND	0.035	0.011		ND	0.19	0.059	0.698	9/6/23 20:07		TPH
1,1,2-Trichloroethane	ND	0.035	0.0089		ND	0.19	0.049	0.698	9/6/23 20:07		TPH
Trichloroethylene	ND	0.035	0.014		ND	0.19	0.076	0.698	9/6/23 20:07		TPH
Trichlorofluoromethane (Freon 11)	0.25	0.14	0.014		1.4	0.78	0.080	0.698	9/6/23 20:07		TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.081	0.14	0.0077	J	0.62	1.1	0.059	0.698	9/6/23 20:07		TPH
1,2,4-Trimethylbenzene	0.060	0.035	0.016		0.29	0.17	0.079	0.698	9/6/23 20:07		TPH
1,3,5-Trimethylbenzene	ND	0.035	0.018		ND	0.17	0.088	0.698	9/6/23 20:07		TPH
Vinyl Acetate	1.4	0.70	0.12		5.0	2.5	0.44	0.698	9/6/23 20:07		TPH
Vinyl Chloride	ND	0.035	0.016		ND	0.089	0.041	0.698	9/6/23 20:07		TPH
m&p-Xylene	0.24	0.070	0.024		1.0	0.30	0.11	0.698	9/6/23 20:07		TPH
o-Xylene	0.10	0.035	0.013		0.45	0.15	0.055	0.698	9/6/23 20:07		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	99.1	70-130	9/6/23 20:07

ANALYTICAL RESULTS

Project Location: Freeport
Date Received: 9/2/2023
Field Sample #: 20230831-DUP-1
Sample ID: 2310213-04
Sample Matrix: Soil Gas
Sampled: 8/31/2023 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1822
Canister Size: 6 liter
Flow Controller ID: 4415
Sample Type: 2 hr

Work Order: 2310213
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -5.5
Receipt Vacuum(in Hg): -5.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	210	20	4.7		490	48	11	10	9/7/23 13:42		CMR
Benzene	7.8	0.10	0.031		25	0.32	0.099	2	9/6/23 20:35		TPH
Benzyl chloride	ND	0.40	0.054		ND	2.1	0.28	2	9/6/23 20:35		TPH
Bromodichloromethane	ND	0.10	0.027		ND	0.67	0.18	2	9/6/23 20:35		TPH
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	9/6/23 20:35		TPH
Bromomethane	ND	0.10	0.053		ND	0.39	0.21	2	9/6/23 20:35		TPH
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	9/6/23 20:35		TPH
2-Butanone (MEK)	38	4.0	1.1		110	12	3.3	2	9/6/23 20:35		TPH
Carbon Disulfide	7.1	1.0	0.19		22	3.1	0.60	2	9/6/23 20:35		TPH
Carbon Tetrachloride	0.036	0.10	0.029	J	0.23	0.63	0.18	2	9/6/23 20:35		TPH
Chlorobenzene	0.50	0.10	0.025		2.3	0.46	0.12	2	9/6/23 20:35		TPH
Chloroethane	0.15	0.10	0.063		0.40	0.26	0.17	2	9/6/23 20:35		TPH
Chloroform	0.40	0.10	0.026		2.0	0.49	0.13	2	9/6/23 20:35		TPH
Chloromethane	0.19	0.20	0.041	J	0.39	0.41	0.084	2	9/6/23 20:35		TPH
Cyclohexane	2.3	0.10	0.044		8.1	0.34	0.15	2	9/6/23 20:35		TPH
Dibromochloromethane	ND	0.10	0.027		ND	0.85	0.23	2	9/6/23 20:35		TPH
1,2-Dibromoethane (EDB)	ND	0.10	0.033		ND	0.77	0.26	2	9/6/23 20:35		TPH
1,2-Dichlorobenzene	ND	0.10	0.035		ND	0.60	0.21	2	9/6/23 20:35		TPH
1,3-Dichlorobenzene	1.6	0.10	0.037		9.6	0.60	0.22	2	9/6/23 20:35		TPH
1,4-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	9/6/23 20:35		TPH
Dichlorodifluoromethane (Freon 12)	0.46	0.10	0.042		2.3	0.49	0.21	2	9/6/23 20:35		TPH
1,1-Dichloroethane	4.6	0.10	0.032		18	0.40	0.13	2	9/6/23 20:35		TPH
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	9/6/23 20:35		TPH
1,1-Dichloroethylene	0.70	0.10	0.029		2.8	0.40	0.11	2	9/6/23 20:35		TPH
cis-1,2-Dichloroethylene	11	0.10	0.031		44	0.40	0.12	2	9/6/23 20:35		TPH
trans-1,2-Dichloroethylene	2.2	0.10	0.033		8.7	0.40	0.13	2	9/6/23 20:35		TPH
1,2-Dichloropropane	ND	0.10	0.027		ND	0.46	0.13	2	9/6/23 20:35		TPH
cis-1,3-Dichloropropene	ND	0.10	0.045		ND	0.45	0.20	2	9/6/23 20:35		TPH
trans-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.23	2	9/6/23 20:35		TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	9/6/23 20:35		TPH
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	9/6/23 20:35		TPH
Ethanol	5.4	4.0	2.7		10	7.5	5.0	2	9/6/23 20:35		TPH
Ethyl Acetate	ND	1.0	0.29		ND	3.6	1.0	2	9/6/23 20:35		TPH
Ethylbenzene	11	0.10	0.029		49	0.43	0.13	2	9/6/23 20:35		TPH
4-Ethyltoluene	0.39	0.10	0.043		1.9	0.49	0.21	2	9/6/23 20:35		TPH
Heptane	6.2	0.10	0.063		25	0.41	0.26	2	9/6/23 20:35		TPH
Hexachlorobutadiene	ND	0.10	0.058		ND	1.1	0.61	2	9/6/23 20:35		TPH
Hexane	7.3	4.0	1.3		26	14	4.7	2	9/6/23 20:35		TPH
2-Hexanone (MBK)	ND	0.40	0.043		ND	1.6	0.18	2	9/6/23 20:35		TPH
Isopropanol	1.5	4.0	1.3	L-03, J	3.6	9.8	3.1	2	9/6/23 20:35		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	9/6/23 20:35		TPH
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	9/6/23 20:35		TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	9/6/23 20:35		TPH
Naphthalene	0.27	0.10	0.067	L-05, Z-01	1.4	0.52	0.35	2	9/6/23 20:35		TPH
Propene	ND	4.0	1.1		ND	6.9	1.9	2	9/6/23 20:35		TPH
Styrene	0.36	0.10	0.054		1.5	0.43	0.23	2	9/6/23 20:35		TPH
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	9/6/23 20:35		TPH

ANALYTICAL RESULTS

Project Location: Freeport

Date Received: 9/2/2023

Field Sample #: 20230831-DUP-1
Sample ID: 23I0213-04

Sample Matrix: Soil Gas

Sampled: 8/31/2023 00:00

Sample Description/Location:

Sub Description/Location:

Canister ID: 1822

Canister Size: 6 liter

Flow Controller ID: 4415

Sample Type: 2 hr

Work Order: 23I0213

Initial Vacuum(in Hg): -29.5

Final Vacuum(in Hg): -5.5

Receipt Vacuum(in Hg): -5.5

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	34	0.10	0.037		230	0.68	0.25	2	9/6/23 20:35		TPH
Tetrahydrofuran	8.0	1.0	0.21		23	2.9	0.61	2	9/6/23 20:35		TPH
Toluene	140	0.50	0.18		510	1.9	0.69	10	9/7/23 13:42		CMR
1,2,4-Trichlorobenzene	ND	0.10	0.054		ND	0.74	0.40	2	9/6/23 20:35		TPH
1,1,1-Trichloroethane	0.58	0.10	0.031		3.2	0.55	0.17	2	9/6/23 20:35		TPH
1,1,2-Trichloroethane	ND	0.10	0.026		ND	0.55	0.14	2	9/6/23 20:35		TPH
Trichloroethylene	14	0.10	0.041		74	0.54	0.22	2	9/6/23 20:35		TPH
Trichlorofluoromethane (Freon 11)	0.25	0.40	0.041	J	1.4	2.2	0.23	2	9/6/23 20:35		TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.072	0.40	0.022	J	0.55	3.1	0.17	2	9/6/23 20:35		TPH
1,2,4-Trimethylbenzene	1.7	0.10	0.046		8.4	0.49	0.23	2	9/6/23 20:35		TPH
1,3,5-Trimethylbenzene	1.1	0.10	0.052		5.2	0.49	0.25	2	9/6/23 20:35		TPH
Vinyl Acetate	6.1	2.0	0.36		22	7.0	1.3	2	9/6/23 20:35		TPH
Vinyl Chloride	5.0	0.10	0.046		13	0.26	0.12	2	9/6/23 20:35		TPH
m&p-Xylene	23	0.20	0.070		100	0.87	0.30	2	9/6/23 20:35		TPH
o-Xylene	9.7	0.10	0.037		42	0.43	0.16	2	9/6/23 20:35		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	99.0	70-130	9/6/23 20:35
4-Bromofluorobenzene (1)	95.8	70-130	9/7/23 13:42

ANALYTICAL RESULTS

Project Location: Freeport
 Date Received: 9/2/2023
Field Sample #: 20230831-VMP-5
Sample ID: 23I0213-05
 Sample Matrix: Soil Gas
 Sampled: 8/31/2023 09:19

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2450
 Canister Size: 6 liter
 Flow Controller ID: 4442
 Sample Type: 2 hr

Work Order: 23I0213
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -3.5
 Receipt Vacuum(in Hg): -4.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	120	20	4.7		280	48	11	10	9/6/23 23:38		TPH
Benzene	5.0	0.50	0.15		16	1.6	0.49	10	9/6/23 23:38		TPH
Benzyl chloride	ND	2.0	0.27		ND	10	1.4	10	9/6/23 23:38		TPH
Bromodichloromethane	ND	0.50	0.14		ND	3.4	0.91	10	9/6/23 23:38		TPH
Bromoform	ND	0.50	0.18		ND	5.2	1.8	10	9/6/23 23:38		TPH
Bromomethane	ND	0.50	0.27		ND	1.9	1.0	10	9/6/23 23:38		TPH
1,3-Butadiene	ND	0.50	0.42		ND	1.1	0.93	10	9/6/23 23:38		TPH
2-Butanone (MEK)	30	20	5.6		89	59	17	10	9/6/23 23:38		TPH
Carbon Disulfide	ND	5.0	0.96		ND	16	3.0	10	9/6/23 23:38		TPH
Carbon Tetrachloride	ND	0.50	0.14		ND	3.1	0.91	10	9/6/23 23:38		TPH
Chlorobenzene	0.15	0.50	0.13	J	0.69	2.3	0.58	10	9/6/23 23:38		TPH
Chloroethane	ND	0.50	0.32		ND	1.3	0.83	10	9/6/23 23:38		TPH
Chloroform	1.3	0.50	0.13		6.2	2.4	0.64	10	9/6/23 23:38		TPH
Chloromethane	1.1	1.0	0.20		2.3	2.1	0.42	10	9/6/23 23:38		TPH
Cyclohexane	0.57	0.50	0.22		2.0	1.7	0.76	10	9/6/23 23:38		TPH
Dibromochloromethane	ND	0.50	0.13		ND	4.3	1.1	10	9/6/23 23:38		TPH
1,2-Dibromoethane (EDB)	0.23	0.50	0.17	J	1.8	3.8	1.3	10	9/6/23 23:38		TPH
1,2-Dichlorobenzene	ND	0.50	0.17		ND	3.0	1.1	10	9/6/23 23:38		TPH
1,3-Dichlorobenzene	0.91	0.50	0.19		5.5	3.0	1.1	10	9/6/23 23:38		TPH
1,4-Dichlorobenzene	ND	0.50	0.18		ND	3.0	1.1	10	9/6/23 23:38		TPH
Dichlorodifluoromethane (Freon 12)	0.68	0.50	0.21		3.4	2.5	1.0	10	9/6/23 23:38		TPH
1,1-Dichloroethane	0.57	0.50	0.16		2.3	2.0	0.65	10	9/6/23 23:38		TPH
1,2-Dichloroethane	ND	0.50	0.19		ND	2.0	0.76	10	9/6/23 23:38		TPH
1,1-Dichloroethylene	0.29	0.50	0.14	J	1.1	2.0	0.57	10	9/6/23 23:38		TPH
cis-1,2-Dichloroethylene	89	0.50	0.15		350	2.0	0.61	10	9/6/23 23:38		TPH
trans-1,2-Dichloroethylene	1.2	0.50	0.16		4.9	2.0	0.65	10	9/6/23 23:38		TPH
1,2-Dichloropropane	ND	0.50	0.14		ND	2.3	0.64	10	9/6/23 23:38		TPH
cis-1,3-Dichloropropene	ND	0.50	0.22		ND	2.3	1.0	10	9/6/23 23:38		TPH
trans-1,3-Dichloropropene	ND	0.50	0.26		ND	2.3	1.2	10	9/6/23 23:38		TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.50	0.20		ND	3.5	1.4	10	9/6/23 23:38		TPH
1,4-Dioxane	ND	5.0	2.5		ND	18	8.8	10	9/6/23 23:38		TPH
Ethanol	ND	20	13		ND	38	25	10	9/6/23 23:38		TPH
Ethyl Acetate	2.3	5.0	1.4	J	8.3	18	5.2	10	9/6/23 23:38		TPH
Ethylbenzene	4.3	0.50	0.15		19	2.2	0.63	10	9/6/23 23:38		TPH
4-Ethyltoluene	ND	0.50	0.22		ND	2.5	1.1	10	9/6/23 23:38		TPH
Heptane	10	0.50	0.32		42	2.0	1.3	10	9/6/23 23:38		TPH
Hexachlorobutadiene	ND	0.50	0.29		ND	5.3	3.1	10	9/6/23 23:38		TPH
Hexane	19	20	6.6	J	67	70	23	10	9/6/23 23:38		TPH
2-Hexanone (MBK)	ND	2.0	0.22		ND	8.2	0.89	10	9/6/23 23:38		TPH
Isopropanol	ND	20	6.4	L-03	ND	49	16	10	9/6/23 23:38		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.25		ND	1.8	0.89	10	9/6/23 23:38		TPH
Methylene Chloride	ND	5.0	1.3		ND	17	4.7	10	9/6/23 23:38		TPH
4-Methyl-2-pentanone (MIBK)	ND	0.50	0.26		ND	2.0	1.1	10	9/6/23 23:38		TPH
Naphthalene	ND	0.50	0.34	Z-01	ND	2.6	1.8	10	9/6/23 23:38		TPH
Propene	ND	20	5.4		ND	34	9.3	10	9/6/23 23:38		TPH
Styrene	ND	0.50	0.27		ND	2.1	1.1	10	9/6/23 23:38		TPH
1,1,2,2-Tetrachloroethane	ND	0.50	0.12		ND	3.4	0.85	10	9/6/23 23:38		TPH

ANALYTICAL RESULTS

Project Location: Freeport
Date Received: 9/2/2023
Field Sample #: 20230831-VMP-5
Sample ID: 23I0213-05
Sample Matrix: Soil Gas
Sampled: 8/31/2023 09:19

Sample Description/Location:
Sub Description/Location:
Canister ID: 2450
Canister Size: 6 liter
Flow Controller ID: 4442
Sample Type: 2 hr

Work Order: 23I0213
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -4.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	930	1.5	0.56		6300	10	3.8	30	9/7/23 0:03		TPH
Tetrahydrofuran	7.0	5.0	1.0		21	15	3.0	10	9/6/23 23:38		TPH
Toluene	64	0.50	0.18		240	1.9	0.69	10	9/6/23 23:38		TPH
1,2,4-Trichlorobenzene	ND	0.50	0.27		ND	3.7	2.0	10	9/6/23 23:38		TPH
1,1,1-Trichloroethane	2.2	0.50	0.16		12	2.7	0.85	10	9/6/23 23:38		TPH
1,1,2-Trichloroethane	ND	0.50	0.13		ND	2.7	0.70	10	9/6/23 23:38		TPH
Trichloroethylene	250	0.50	0.20		1300	2.7	1.1	10	9/6/23 23:38		TPH
Trichlorofluoromethane (Freon 11)	0.93	2.0	0.20	J	5.2	11	1.2	10	9/6/23 23:38		TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.30	2.0	0.11	J	2.3	15	0.84	10	9/6/23 23:38		TPH
1,2,4-Trimethylbenzene	1.2	0.50	0.23		5.8	2.5	1.1	10	9/6/23 23:38		TPH
1,3,5-Trimethylbenzene	0.56	0.50	0.26		2.8	2.5	1.3	10	9/6/23 23:38		TPH
Vinyl Acetate	ND	10	1.8		ND	35	6.3	10	9/6/23 23:38		TPH
Vinyl Chloride	1.5	0.50	0.23		3.8	1.3	0.58	10	9/6/23 23:38		TPH
m&p-Xylene	10	1.0	0.35		44	4.3	1.5	10	9/6/23 23:38		TPH
o-Xylene	4.0	0.50	0.18		18	2.2	0.79	10	9/6/23 23:38		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.9	70-130	9/7/23 0:03
4-Bromofluorobenzene (1)	93.7	70-130	9/6/23 23:38

ANALYTICAL RESULTS

Project Location: Freeport
 Date Received: 9/2/2023
Field Sample #: 20230831-VMP-4
Sample ID: 2310213-06
 Sample Matrix: Soil Gas
 Sampled: 8/31/2023 09:31

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2038
 Canister Size: 6 liter
 Flow Controller ID: 4434
 Sample Type: 2 hr

Work Order: 2310213
 Initial Vacuum(in Hg): -29.5
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -4.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv				Flag/Qual	ug/m3			Date/Time		Analyst
	Results	RL	MDL	Results		RL	MDL	Dilution	Analyzed		
Acetone	200	20	4.7			480	48	11	10	9/7/23 14:08	CMR
Benzene	7.5	0.10	0.031			24	0.32	0.099	2	9/6/23 21:01	TPH
Benzyl chloride	ND	0.40	0.054			ND	2.1	0.28	2	9/6/23 21:01	TPH
Bromodichloromethane	ND	0.10	0.027			ND	0.67	0.18	2	9/6/23 21:01	TPH
Bromoform	ND	0.10	0.036			ND	1.0	0.37	2	9/6/23 21:01	TPH
Bromomethane	ND	0.10	0.053			ND	0.39	0.21	2	9/6/23 21:01	TPH
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	9/6/23 21:01	TPH
2-Butanone (MEK)	38	4.0	1.1			110	12	3.3	2	9/6/23 21:01	TPH
Carbon Disulfide	6.4	1.0	0.19			20	3.1	0.60	2	9/6/23 21:01	TPH
Carbon Tetrachloride	0.038	0.10	0.029	J		0.24	0.63	0.18	2	9/6/23 21:01	TPH
Chlorobenzene	0.41	0.10	0.025			1.9	0.46	0.12	2	9/6/23 21:01	TPH
Chloroethane	0.12	0.10	0.063			0.31	0.26	0.17	2	9/6/23 21:01	TPH
Chloroform	0.39	0.10	0.026			1.9	0.49	0.13	2	9/6/23 21:01	TPH
Chloromethane	0.17	0.20	0.041	J		0.34	0.41	0.084	2	9/6/23 21:01	TPH
Cyclohexane	2.3	0.10	0.044			7.9	0.34	0.15	2	9/6/23 21:01	TPH
Dibromochloromethane	ND	0.10	0.027			ND	0.85	0.23	2	9/6/23 21:01	TPH
1,2-Dibromoethane (EDB)	0.064	0.10	0.033	J		0.49	0.77	0.26	2	9/6/23 21:01	TPH
1,2-Dichlorobenzene	ND	0.10	0.035			ND	0.60	0.21	2	9/6/23 21:01	TPH
1,3-Dichlorobenzene	1.4	0.10	0.037			8.5	0.60	0.22	2	9/6/23 21:01	TPH
1,4-Dichlorobenzene	ND	0.10	0.037			ND	0.60	0.22	2	9/6/23 21:01	TPH
Dichlorodifluoromethane (Freon 12)	0.47	0.10	0.042			2.3	0.49	0.21	2	9/6/23 21:01	TPH
1,1-Dichloroethane	4.5	0.10	0.032			18	0.40	0.13	2	9/6/23 21:01	TPH
1,2-Dichloroethane	ND	0.10	0.038			ND	0.40	0.15	2	9/6/23 21:01	TPH
1,1-Dichloroethylene	ND	0.10	0.029			ND	0.40	0.11	2	9/6/23 21:01	TPH
cis-1,2-Dichloroethylene	11	0.10	0.031			43	0.40	0.12	2	9/6/23 21:01	TPH
trans-1,2-Dichloroethylene	2.0	0.10	0.033			8.0	0.40	0.13	2	9/6/23 21:01	TPH
1,2-Dichloropropane	ND	0.10	0.027			ND	0.46	0.13	2	9/6/23 21:01	TPH
cis-1,3-Dichloropropene	ND	0.10	0.045			ND	0.45	0.20	2	9/6/23 21:01	TPH
trans-1,3-Dichloropropene	ND	0.10	0.052			ND	0.45	0.23	2	9/6/23 21:01	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040			ND	0.70	0.28	2	9/6/23 21:01	TPH
1,4-Dioxane	ND	1.0	0.49			ND	3.6	1.8	2	9/6/23 21:01	TPH
Ethanol	5.3	4.0	2.7			10	7.5	5.0	2	9/6/23 21:01	TPH
Ethyl Acetate	2.2	1.0	0.29			7.9	3.6	1.0	2	9/6/23 21:01	TPH
Ethylbenzene	11	0.10	0.029			48	0.43	0.13	2	9/6/23 21:01	TPH
4-Ethyltoluene	0.31	0.10	0.043			1.5	0.49	0.21	2	9/6/23 21:01	TPH
Heptane	6.0	0.10	0.063			25	0.41	0.26	2	9/6/23 21:01	TPH
Hexachlorobutadiene	ND	0.10	0.058			ND	1.1	0.61	2	9/6/23 21:01	TPH
Hexane	7.6	4.0	1.3			27	14	4.7	2	9/6/23 21:01	TPH
2-Hexanone (MBK)	ND	0.40	0.043			ND	1.6	0.18	2	9/6/23 21:01	TPH
Isopropanol	1.4	4.0	1.3	L-03, J		3.4	9.8	3.1	2	9/6/23 21:01	TPH
Methyl tert-Butyl Ether (MTBE)	0.97	0.10	0.049			3.5	0.36	0.18	2	9/6/23 21:01	TPH
Methylene Chloride	ND	1.0	0.27			ND	3.5	0.93	2	9/6/23 21:01	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053			ND	0.41	0.22	2	9/6/23 21:01	TPH
Naphthalene	0.30	0.10	0.067	L-05, Z-01		1.6	0.52	0.35	2	9/6/23 21:01	TPH
Propene	ND	4.0	1.1			ND	6.9	1.9	2	9/6/23 21:01	TPH
Styrene	0.30	0.10	0.054			1.3	0.43	0.23	2	9/6/23 21:01	TPH
1,1,2,2-Tetrachloroethane	ND	0.10	0.025			ND	0.69	0.17	2	9/6/23 21:01	TPH

ANALYTICAL RESULTS

Project Location: Freeport
 Date Received: 9/2/2023
Field Sample #: 20230831-VMP-4
Sample ID: 23I0213-06
 Sample Matrix: Soil Gas
 Sampled: 8/31/2023 09:31

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2038
 Canister Size: 6 liter
 Flow Controller ID: 4434
 Sample Type: 2 hr

Work Order: 23I0213
 Initial Vacuum(in Hg): -29.5
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -4.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	33	0.10	0.037		220	0.68	0.25	2	9/6/23 21:01		TPH
Tetrahydrofuran	7.5	1.0	0.21		22	2.9	0.61	2	9/6/23 21:01		TPH
Toluene	140	0.50	0.18		510	1.9	0.69	10	9/7/23 14:08		CMR
1,2,4-Trichlorobenzene	ND	0.10	0.054		ND	0.74	0.40	2	9/6/23 21:01		TPH
1,1,1-Trichloroethane	0.57	0.10	0.031		3.1	0.55	0.17	2	9/6/23 21:01		TPH
1,1,2-Trichloroethane	ND	0.10	0.026		ND	0.55	0.14	2	9/6/23 21:01		TPH
Trichloroethylene	14	0.10	0.041		74	0.54	0.22	2	9/6/23 21:01		TPH
Trichlorofluoromethane (Freon 11)	0.23	0.40	0.041	J	1.3	2.2	0.23	2	9/6/23 21:01		TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.078	0.40	0.022	J	0.60	3.1	0.17	2	9/6/23 21:01		TPH
1,2,4-Trimethylbenzene	1.7	0.10	0.046		8.4	0.49	0.23	2	9/6/23 21:01		TPH
1,3,5-Trimethylbenzene	1.1	0.10	0.052		5.2	0.49	0.25	2	9/6/23 21:01		TPH
Vinyl Acetate	ND	2.0	0.36		ND	7.0	1.3	2	9/6/23 21:01		TPH
Vinyl Chloride	4.8	0.10	0.046		12	0.26	0.12	2	9/6/23 21:01		TPH
m&p-Xylene	22	0.20	0.070		97	0.87	0.30	2	9/6/23 21:01		TPH
o-Xylene	9.4	0.10	0.037		41	0.43	0.16	2	9/6/23 21:01		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.0	70-130	9/7/23 14:08
4-Bromofluorobenzene (1)	98.8	70-130	9/6/23 21:01

ANALYTICAL RESULTS

Project Location: Freeport
Date Received: 9/2/2023
Field Sample #: 20230831-VMP-3
Sample ID: 23I0213-07
Sample Matrix: Soil Gas
Sampled: 8/31/2023 09:38

Sample Description/Location:
Sub Description/Location:
Canister ID: 2220
Canister Size: 6 liter
Flow Controller ID: 4427
Sample Type: 2 hr

Work Order: 23I0213
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -5.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	83	4.0	0.94		200	9.5	2.2	2	9/6/23 21:28		TPH
Benzene	1.8	0.10	0.031		5.8	0.32	0.099	2	9/6/23 21:28		TPH
Benzyl chloride	ND	0.40	0.054		ND	2.1	0.28	2	9/6/23 21:28		TPH
Bromodichloromethane	ND	0.10	0.027		ND	0.67	0.18	2	9/6/23 21:28		TPH
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	9/6/23 21:28		TPH
Bromomethane	ND	0.10	0.053		ND	0.39	0.21	2	9/6/23 21:28		TPH
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	9/6/23 21:28		TPH
2-Butanone (MEK)	11	4.0	1.1		32	12	3.3	2	9/6/23 21:28		TPH
Carbon Disulfide	1.1	1.0	0.19		3.3	3.1	0.60	2	9/6/23 21:28		TPH
Carbon Tetrachloride	ND	0.10	0.029		ND	0.63	0.18	2	9/6/23 21:28		TPH
Chlorobenzene	ND	0.10	0.025		ND	0.46	0.12	2	9/6/23 21:28		TPH
Chloroethane	ND	0.10	0.063		ND	0.26	0.17	2	9/6/23 21:28		TPH
Chloroform	0.85	0.10	0.026		4.2	0.49	0.13	2	9/6/23 21:28		TPH
Chloromethane	0.19	0.20	0.041	J	0.38	0.41	0.084	2	9/6/23 21:28		TPH
Cyclohexane	0.13	0.10	0.044		0.44	0.34	0.15	2	9/6/23 21:28		TPH
Dibromochloromethane	ND	0.10	0.027		ND	0.85	0.23	2	9/6/23 21:28		TPH
1,2-Dibromoethane (EDB)	0.044	0.10	0.033	J	0.34	0.77	0.26	2	9/6/23 21:28		TPH
1,2-Dichlorobenzene	ND	0.10	0.035		ND	0.60	0.21	2	9/6/23 21:28		TPH
1,3-Dichlorobenzene	1.4	0.10	0.037		8.7	0.60	0.22	2	9/6/23 21:28		TPH
1,4-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	9/6/23 21:28		TPH
Dichlorodifluoromethane (Freon 12)	0.47	0.10	0.042		2.3	0.49	0.21	2	9/6/23 21:28		TPH
1,1-Dichloroethane	0.036	0.10	0.032	J	0.15	0.40	0.13	2	9/6/23 21:28		TPH
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	9/6/23 21:28		TPH
1,1-Dichloroethylene	ND	0.10	0.029		ND	0.40	0.11	2	9/6/23 21:28		TPH
cis-1,2-Dichloroethylene	ND	0.10	0.031		ND	0.40	0.12	2	9/6/23 21:28		TPH
trans-1,2-Dichloroethylene	ND	0.10	0.033		ND	0.40	0.13	2	9/6/23 21:28		TPH
1,2-Dichloropropane	ND	0.10	0.027		ND	0.46	0.13	2	9/6/23 21:28		TPH
cis-1,3-Dichloropropene	ND	0.10	0.045		ND	0.45	0.20	2	9/6/23 21:28		TPH
trans-1,3-Dichloropropene	ND	0.10	0.052		ND	0.45	0.23	2	9/6/23 21:28		TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	9/6/23 21:28		TPH
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	9/6/23 21:28		TPH
Ethanol	3.0	4.0	2.7	J	5.7	7.5	5.0	2	9/6/23 21:28		TPH
Ethyl Acetate	0.76	1.0	0.29	J	2.8	3.6	1.0	2	9/6/23 21:28		TPH
Ethylbenzene	3.5	0.10	0.029		15	0.43	0.13	2	9/6/23 21:28		TPH
4-Ethyltoluene	1.4	0.10	0.043		6.7	0.49	0.21	2	9/6/23 21:28		TPH
Heptane	0.32	0.10	0.063		1.3	0.41	0.26	2	9/6/23 21:28		TPH
Hexachlorobutadiene	ND	0.10	0.058		ND	1.1	0.61	2	9/6/23 21:28		TPH
Hexane	ND	4.0	1.3		ND	14	4.7	2	9/6/23 21:28		TPH
2-Hexanone (MBK)	1.2	0.40	0.043		4.8	1.6	0.18	2	9/6/23 21:28		TPH
Isopropanol	ND	4.0	1.3	L-03	ND	9.8	3.1	2	9/6/23 21:28		TPH
Methyl tert-Butyl Ether (MTBE)	0.49	0.10	0.049		1.8	0.36	0.18	2	9/6/23 21:28		TPH
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	9/6/23 21:28		TPH
4-Methyl-2-pentanone (MIBK)	0.12	0.10	0.053		0.50	0.41	0.22	2	9/6/23 21:28		TPH
Naphthalene	0.31	0.10	0.067	L-05, Z-01	1.6	0.52	0.35	2	9/6/23 21:28		TPH
Propene	ND	4.0	1.1		ND	6.9	1.9	2	9/6/23 21:28		TPH
Styrene	0.19	0.10	0.054		0.80	0.43	0.23	2	9/6/23 21:28		TPH
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	9/6/23 21:28		TPH

ANALYTICAL RESULTS

Project Location: Freeport
Date Received: 9/2/2023
Field Sample #: 20230831-VMP-3
Sample ID: 23I0213-07
Sample Matrix: Soil Gas
Sampled: 8/31/2023 09:38

Sample Description/Location:
Sub Description/Location:
Canister ID: 2220
Canister Size: 6 liter
Flow Controller ID: 4427
Sample Type: 2 hr

Work Order: 23I0213
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -5.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	38	0.10	0.037		260	0.68	0.25	2	9/6/23 21:28		TPH
Tetrahydrofuran	1.7	1.0	0.21		5.0	2.9	0.61	2	9/6/23 21:28		TPH
Toluene	37	0.10	0.036		140	0.38	0.14	2	9/6/23 21:28		TPH
1,2,4-Trichlorobenzene	ND	0.10	0.054		ND	0.74	0.40	2	9/6/23 21:28		TPH
1,1,1-Trichloroethane	ND	0.10	0.031		ND	0.55	0.17	2	9/6/23 21:28		TPH
1,1,2-Trichloroethane	ND	0.10	0.026		ND	0.55	0.14	2	9/6/23 21:28		TPH
Trichloroethylene	0.14	0.10	0.041		0.73	0.54	0.22	2	9/6/23 21:28		TPH
Trichlorofluoromethane (Freon 11)	0.25	0.40	0.041	J	1.4	2.2	0.23	2	9/6/23 21:28		TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.074	0.40	0.022	J	0.57	3.1	0.17	2	9/6/23 21:28		TPH
1,2,4-Trimethylbenzene	1.6	0.10	0.046		8.1	0.49	0.23	2	9/6/23 21:28		TPH
1,3,5-Trimethylbenzene	0.84	0.10	0.052		4.1	0.49	0.25	2	9/6/23 21:28		TPH
Vinyl Acetate	ND	2.0	0.36		ND	7.0	1.3	2	9/6/23 21:28		TPH
Vinyl Chloride	ND	0.10	0.046		ND	0.26	0.12	2	9/6/23 21:28		TPH
m&p-Xylene	9.0	0.20	0.070		39	0.87	0.30	2	9/6/23 21:28		TPH
o-Xylene	4.3	0.10	0.037		19	0.43	0.16	2	9/6/23 21:28		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	99.4	70-130	9/6/23 21:28

Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
23I0213-02RE1 [20230830-VMP-2]	B351442	1.5	1	N/A	1000	200	10	09/07/23
23I0213-04RE1 [20230831-DUP-1]	B351442	1.5	1	N/A	1000	200	30	09/07/23
23I0213-06RE1 [20230831-VMP-4]	B351442	1.5	1	N/A	1000	200	30	09/07/23

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
23I0213-01 [20230830-VMP-1]	B351812	1.5	1	N/A	1000	200	150	09/06/23
23I0213-01RE1 [20230830-VMP-1]	B351812	1.5	1	N/A	1000	200	30	09/06/23
23I0213-02 [20230830-VMP-2]	B351812	1.5	1	N/A	1000	200	150	09/06/23
23I0213-03 [20230830-AA-1]	B351812	1.5	1	N/A	1000	200	430	09/06/23
23I0213-04 [20230831-DUP-1]	B351812	1.5	1	N/A	1000	200	150	09/06/23
23I0213-05 [20230831-VMP-5]	B351812	1.5	1	N/A	1000	200	30	09/06/23
23I0213-05RE1 [20230831-VMP-5]	B351812	1.5	1	N/A	1000	200	10	09/06/23
23I0213-06 [20230831-VMP-4]	B351812	1.5	1	N/A	1000	200	150	09/06/23
23I0213-07 [20230831-VMP-3]	B351812	1.5	1	N/A	1000	200	150	09/06/23

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B351442 - TO-15 Prep
Blank (B351442-BLK1)

Prepared & Analyzed: 09/07/23

Acetone	ND	0.80								
Benzene	ND	0.020								
Benzyl chloride	ND	0.080								
Bromodichloromethane	ND	0.020								
Bromoform	ND	0.020								
Bromomethane	ND	0.020								
1,3-Butadiene	ND	0.020								
2-Butanone (MEK)	ND	0.80								
Carbon Disulfide	ND	0.20								
Carbon Tetrachloride	ND	0.020								
Chlorobenzene	ND	0.020								
Chloroethane	ND	0.020								
Chloroform	ND	0.020								
Chloromethane	ND	0.040								
Cyclohexane	ND	0.020								
Dibromochloromethane	ND	0.020								
1,2-Dibromoethane (EDB)	0.0080	0.020								J
1,2-Dichlorobenzene	ND	0.020								
1,3-Dichlorobenzene	ND	0.020								
1,4-Dichlorobenzene	ND	0.020								
Dichlorodifluoromethane (Freon 12)	ND	0.020								
1,1-Dichloroethane	ND	0.020								
1,2-Dichloroethane	ND	0.020								
1,1-Dichloroethylene	ND	0.020								
cis-1,2-Dichloroethylene	ND	0.020								
trans-1,2-Dichloroethylene	ND	0.020								
1,2-Dichloropropane	ND	0.020								
cis-1,3-Dichloropropene	ND	0.020								
trans-1,3-Dichloropropene	ND	0.020								
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020								
1,4-Dioxane	ND	0.20								
Ethanol	ND	0.80								
Ethyl Acetate	ND	0.20								
Ethylbenzene	ND	0.020								
4-Ethyltoluene	ND	0.020								
Heptane	ND	0.020								
Hexachlorobutadiene	ND	0.020								
Hexane	ND	0.80								
2-Hexanone (MBK)	ND	0.080								
Isopropanol	ND	0.80								
Methyl tert-Butyl Ether (MTBE)	ND	0.020								
Methylene Chloride	ND	0.20								
4-Methyl-2-pentanone (MIBK)	ND	0.020								
Naphthalene	ND	0.020								Z-01
Propene	ND	0.80								
Styrene	ND	0.020								

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B351442 - TO-15 Prep
Blank (B351442-BLK1)

Prepared & Analyzed: 09/07/23

1,1,2,2-Tetrachloroethane	ND	0.020
Tetrachloroethylene	ND	0.020
Tetrahydrofuran	ND	0.20
Toluene	ND	0.020
1,2,4-Trichlorobenzene	ND	0.020
1,1,1-Trichloroethane	ND	0.020
1,1,2-Trichloroethane	ND	0.020
Trichloroethylene	ND	0.020
Trichlorofluoromethane (Freon 11)	ND	0.080
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080
1,2,4-Trimethylbenzene	ND	0.020
1,3,5-Trimethylbenzene	ND	0.020
Vinyl Acetate	ND	0.40
Vinyl Chloride	ND	0.020
m&p-Xylene	ND	0.040
o-Xylene	ND	0.020

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.81</i>	<i>8.00</i>	<i>97.6</i>	<i>70-130</i>
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LCS (B351442-BS1)

Prepared & Analyzed: 09/07/23

Acetone	3.97	5.00	79.5	70-130
Benzene	4.08	5.00	81.6	70-130
Benzyl chloride	4.34	5.00	86.9	70-130
Bromodichloromethane	4.19	5.00	83.8	70-130
Bromoform	4.79	5.00	95.8	70-130
Bromomethane	4.61	5.00	92.2	70-130
1,3-Butadiene	4.83	5.00	96.7	70-130
2-Butanone (MEK)	4.44	5.00	88.7	70-130
Carbon Disulfide	4.63	5.00	92.6	70-130
Carbon Tetrachloride	4.36	5.00	87.2	70-130
Chlorobenzene	4.31	5.00	86.3	70-130
Chloroethane	4.65	5.00	93.0	70-130
Chloroform	4.63	5.00	92.6	70-130
Chloromethane	4.62	5.00	92.4	70-130
Cyclohexane	4.34	5.00	86.7	70-130
Dibromochloromethane	4.99	5.00	99.7	70-130
1,2-Dibromoethane (EDB)	4.60	5.00	92.0	70-130
1,2-Dichlorobenzene	4.98	5.00	99.6	70-130
1,3-Dichlorobenzene	5.11	5.00	102	70-130
1,4-Dichlorobenzene	4.98	5.00	99.7	70-130
Dichlorodifluoromethane (Freon 12)	4.93	5.00	98.6	70-130
1,1-Dichloroethane	4.67	5.00	93.3	70-130
1,2-Dichloroethane	4.33	5.00	86.6	70-130
1,1-Dichloroethylene	4.42	5.00	88.4	70-130
cis-1,2-Dichloroethylene	4.47	5.00	89.3	70-130
trans-1,2-Dichloroethylene	4.68	5.00	93.7	70-130
1,2-Dichloropropane	4.24	5.00	84.9	70-130

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual	
	Results	RL	Results	RL								
Batch B351442 - TO-15 Prep												
LCS (B351442-BS1)					Prepared & Analyzed: 09/07/23							
cis-1,3-Dichloropropene	4.49				5.00		89.7	70-130				
trans-1,3-Dichloropropene	4.98				5.00		99.5	70-130				
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.19				5.00		83.9	70-130				
1,4-Dioxane	4.15				5.00		83.0	70-130				
Ethanol	5.03				5.00		101	70-130				
Ethyl Acetate	4.21				5.00		84.2	70-130				
Ethylbenzene	4.18				5.00		83.7	70-130				
4-Ethyltoluene	4.52				5.00		90.3	70-130				
Heptane	4.59				5.00		91.7	70-130				
Hexachlorobutadiene	6.81				4.25		160 *	70-130			L-05, V-06	
Hexane	4.07				5.00		81.3	70-130				
2-Hexanone (MBK)	4.02				5.00		80.5	70-130				
Isopropanol	3.59				5.00		71.7	70-130				
Methyl tert-Butyl Ether (MTBE)	4.75				5.00		95.1	70-130				
Methylene Chloride	3.87				5.00		77.4	70-130				
4-Methyl-2-pentanone (MIBK)	4.76				5.00		95.2	70-130				
Naphthalene	5.41				3.68		147 *	70-130			L-05, Z-01	
Propene	5.34				5.00		107	70-130				
Styrene	4.61				5.00		92.2	70-130				
1,1,2,2-Tetrachloroethane	4.37				5.00		87.3	70-130				
Tetrachloroethylene	4.28				5.00		85.6	70-130				
Tetrahydrofuran	4.56				5.00		91.2	70-130				
Toluene	4.37				5.00		87.4	70-130				
1,2,4-Trichlorobenzene	4.96				3.90		127	70-130				
1,1,1-Trichloroethane	4.34				5.00		86.9	70-130				
1,1,2-Trichloroethane	4.54				5.00		90.9	70-130				
Trichloroethylene	4.43				5.00		88.7	70-130				
Trichlorofluoromethane (Freon 11)	4.67				5.00		93.4	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.55				5.00		91.1	70-130				
1,2,4-Trimethylbenzene	4.86				5.00		97.3	70-130				
1,3,5-Trimethylbenzene	5.09				5.00		102	70-130				
Vinyl Acetate	3.88				5.00		77.6	70-130				
Vinyl Chloride	4.72				5.00		94.5	70-130				
m&p-Xylene	9.67				10.0		96.7	70-130				
o-Xylene	4.77				5.00		95.5	70-130				
Surrogate: 4-Bromofluorobenzene (1)	8.10				8.00		101	70-130				

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	

Batch B351812 - TO-15 Prep
Blank (B351812-BLK1)

Prepared & Analyzed: 09/06/23

Acetone	ND	0.80							
Benzene	ND	0.020							
Benzyl chloride	ND	0.080							
Bromodichloromethane	ND	0.020							
Bromoform	ND	0.020							
Bromomethane	ND	0.020							
1,3-Butadiene	ND	0.020							
2-Butanone (MEK)	ND	0.80							
Carbon Disulfide	ND	0.20							
Carbon Tetrachloride	ND	0.020							
Chlorobenzene	ND	0.020							
Chloroethane	ND	0.020							
Chloroform	ND	0.020							
Chloromethane	ND	0.040							
Cyclohexane	ND	0.020							
Dibromochloromethane	ND	0.020							
1,2-Dibromoethane (EDB)	0.0084	0.020							J
1,2-Dichlorobenzene	ND	0.020							
1,3-Dichlorobenzene	ND	0.020							
1,4-Dichlorobenzene	ND	0.020							
Dichlorodifluoromethane (Freon 12)	ND	0.020							
1,1-Dichloroethane	ND	0.020							
1,2-Dichloroethane	ND	0.020							
1,1-Dichloroethylene	ND	0.020							
cis-1,2-Dichloroethylene	ND	0.020							
trans-1,2-Dichloroethylene	ND	0.020							
1,2-Dichloropropane	ND	0.020							
cis-1,3-Dichloropropene	ND	0.020							
trans-1,3-Dichloropropene	ND	0.020							
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020							
1,4-Dioxane	ND	0.20							
Ethanol	ND	0.80							
Ethyl Acetate	ND	0.20							
Ethylbenzene	ND	0.020							
4-Ethyltoluene	ND	0.020							
Heptane	ND	0.020							
Hexachlorobutadiene	ND	0.020							
Hexane	ND	0.80							
2-Hexanone (MBK)	ND	0.080							
Isopropanol	ND	0.80							L-03
Methyl tert-Butyl Ether (MTBE)	ND	0.020							
Methylene Chloride	ND	0.20							
4-Methyl-2-pentanone (MIBK)	ND	0.020							
Naphthalene	ND	0.020							Z-01
Propene	ND	0.80							
Styrene	ND	0.020							

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B351812 - TO-15 Prep
Blank (B351812-BLK1)

Prepared & Analyzed: 09/06/23

1,1,2,2-Tetrachloroethane	ND	0.020
Tetrachloroethylene	ND	0.020
Tetrahydrofuran	ND	0.20
Toluene	ND	0.020
1,2,4-Trichlorobenzene	ND	0.020
1,1,1-Trichloroethane	ND	0.020
1,1,2-Trichloroethane	ND	0.020
Trichloroethylene	ND	0.020
Trichlorofluoromethane (Freon 11)	ND	0.080
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080
1,2,4-Trimethylbenzene	ND	0.020
1,3,5-Trimethylbenzene	ND	0.020
Vinyl Acetate	ND	0.40
Vinyl Chloride	ND	0.020
m&p-Xylene	ND	0.040
o-Xylene	ND	0.020

Surrogate: 4-Bromofluorobenzene (1) 8.08 8.00 101 70-130

LCS (B351812-BS1)

Prepared & Analyzed: 09/06/23

Acetone	3.90	5.00	77.9	70-130
Benzene	3.79	5.00	75.7	70-130
Benzyl chloride	4.20	5.00	84.0	70-130
Bromodichloromethane	3.89	5.00	77.7	70-130
Bromoform	4.77	5.00	95.4	70-130
Bromomethane	4.89	5.00	97.8	70-130
1,3-Butadiene	4.75	5.00	94.9	70-130
2-Butanone (MEK)	4.21	5.00	84.1	70-130
Carbon Disulfide	4.70	5.00	94.0	70-130
Carbon Tetrachloride	4.28	5.00	85.5	70-130
Chlorobenzene	4.29	5.00	85.8	70-130
Chloroethane	4.72	5.00	94.5	70-130
Chloroform	4.81	5.00	96.2	70-130
Chloromethane	4.26	5.00	85.2	70-130
Cyclohexane	4.02	5.00	80.4	70-130
Dibromochloromethane	5.00	5.00	99.9	70-130
1,2-Dibromoethane (EDB)	4.41	5.00	88.2	70-130
1,2-Dichlorobenzene	4.83	5.00	96.6	70-130
1,3-Dichlorobenzene	5.28	5.00	106	70-130
1,4-Dichlorobenzene	4.91	5.00	98.1	70-130
Dichlorodifluoromethane (Freon 12)	5.17	5.00	103	70-130
1,1-Dichloroethane	4.67	5.00	93.4	70-130
1,2-Dichloroethane	4.31	5.00	86.2	70-130
1,1-Dichloroethylene	4.42	5.00	88.4	70-130
cis-1,2-Dichloroethylene	4.48	5.00	89.5	70-130
trans-1,2-Dichloroethylene	4.75	5.00	95.1	70-130
1,2-Dichloropropane	3.75	5.00	75.1	70-130

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B351812 - TO-15 Prep											
LCS (B351812-BS1)					Prepared & Analyzed: 09/06/23						
cis-1,3-Dichloropropene	4.17				5.00		83.4	70-130			
trans-1,3-Dichloropropene	4.56				5.00		91.3	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.41				5.00		88.2	70-130			
1,4-Dioxane	3.98				5.00		79.6	70-130			
Ethanol	4.98				5.00		99.6	70-130			
Ethyl Acetate	4.13				5.00		82.5	70-130			
Ethylbenzene	4.12				5.00		82.4	70-130			
4-Ethyltoluene	4.40				5.00		88.0	70-130			
Heptane	4.19				5.00		83.8	70-130			
Hexachlorobutadiene	7.11				4.25		167 *	70-130			L-01
Hexane	4.06				5.00		81.3	70-130			
2-Hexanone (MBK)	3.53				5.00		70.5	70-130			
Isopropanol	3.46				5.00		69.3 *	70-130			L-03
Methyl tert-Butyl Ether (MTBE)	4.83				5.00		96.6	70-130			
Methylene Chloride	3.64				5.00		72.7	70-130			
4-Methyl-2-pentanone (MIBK)	4.26				5.00		85.1	70-130			
Naphthalene	5.44				3.68		148 *	70-130			L-05, Z-01
Propene	5.23				5.00		105	70-130			
Styrene	4.53				5.00		90.6	70-130			
1,1,2,2-Tetrachloroethane	4.10				5.00		82.0	70-130			
Tetrachloroethylene	4.29				5.00		85.8	70-130			
Tetrahydrofuran	4.37				5.00		87.4	70-130			
Toluene	4.26				5.00		85.3	70-130			
1,2,4-Trichlorobenzene	5.12				3.90		131 *	70-130			L-01
1,1,1-Trichloroethane	4.21				5.00		84.2	70-130			
1,1,2-Trichloroethane	4.44				5.00		88.8	70-130			
Trichloroethylene	4.26				5.00		85.3	70-130			
Trichlorofluoromethane (Freon 11)	5.09				5.00		102	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.84				5.00		96.9	70-130			
1,2,4-Trimethylbenzene	4.74				5.00		94.8	70-130			
1,3,5-Trimethylbenzene	5.01				5.00		100	70-130			
Vinyl Acetate	3.76				5.00		75.1	70-130			
Vinyl Chloride	4.71				5.00		94.1	70-130			
m&p-Xylene	9.40				10.0		94.0	70-130			
o-Xylene	4.62				5.00		92.5	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.30				8.00		104	70-130			

Note: Blank Subtraction is not performed unless otherwise noted

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
E	Reported result is estimated. Value reported over verified calibration range.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side.
	Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Calibrations RSD for this compound is >30% but <40%.

ANALYST

TPH Thomas P. Hnitecki
STATION Report Queue Station
RJM Raymond J. McCarthy
MEM Marc E. Mahoney
KMC Kristen M Couture
CMR Catherine M. Rouleau

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S085380-ICV1)			Lab File ID: J23A090036.D			Analyzed: 04/01/23 05:53			
Bromochloromethane (1)	298104	2.788	289065	2.788	103	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	850179	3.418	804638	3.418	106	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	747035	5.036	717694	5.036	104	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S093132-CCV1)			Lab File ID: J23A250004.D			Analyzed: 09/07/23 10:53			
Bromochloromethane (1)	342945	2.805	289065	2.788	119	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	1004465	3.428	804638	3.418	125	60 - 140	0.0100	+/-0.50	
Chlorobenzene-d5 (1)	870855	5.041	717694	5.036	121	60 - 140	0.0050	+/-0.50	
LCS (B351442-BS1)			Lab File ID: J23A250005.D			Analyzed: 09/07/23 11:19			
Bromochloromethane (1)	336455	2.8	342945	2.805	98	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	996708	3.429	1004465	3.428	99	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	874403	5.041	870855	5.041	100	60 - 140	0.0000	+/-0.50	
Blank (B351442-BLK1)			Lab File ID: J23A250008.D			Analyzed: 09/07/23 12:51			
Bromochloromethane (1)	314271	2.784	342945	2.805	92	60 - 140	-0.0210	+/-0.50	
1,4-Difluorobenzene (1)	821019	3.417	1004465	3.428	82	60 - 140	-0.0110	+/-0.50	
Chlorobenzene-d5 (1)	718777	5.035	870855	5.041	83	60 - 140	-0.0060	+/-0.50	
20230830-VMP-2 (23I0213-02RE1)			Lab File ID: J23A250009.D			Analyzed: 09/07/23 13:16			
Bromochloromethane (1)	302689	2.789	342945	2.805	88	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	784659	3.427	1004465	3.428	78	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	744124	5.041	870855	5.041	85	60 - 140	0.0000	+/-0.50	
20230831-DUP-1 (23I0213-04RE1)			Lab File ID: J23A250010.D			Analyzed: 09/07/23 13:42			
Bromochloromethane (1)	332649	2.8	342945	2.805	97	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	875312	3.428	1004465	3.428	87	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	856530	5.041	870855	5.041	98	60 - 140	0.0000	+/-0.50	
20230831-VMP-4 (23I0213-06RE1)			Lab File ID: J23A250011.D			Analyzed: 09/07/23 14:08			
Bromochloromethane (1)	333318	2.8	342945	2.805	97	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	866519	3.428	1004465	3.428	86	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	844019	5.04	870855	5.041	97	60 - 140	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S093309-CCV1)									
Lab File ID: J23A249004.D					Analyzed: 09/06/23 12:34				
Bromochloromethane (1)	317360	2.805	289065	2.788	110	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	1018898	3.429	804638	3.418	127	60 - 140	0.0110	+/-0.50	
Chlorobenzene-d5 (1)	876037	5.041	717694	5.036	122	60 - 140	0.0050	+/-0.50	
LCS (B351812-BS1)									
Lab File ID: J23A249005.D					Analyzed: 09/06/23 12:59				
Bromochloromethane (1)	312542	2.8	317360	2.805	98	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	1010287	3.428	1018898	3.429	99	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	870315	5.04	876037	5.041	99	60 - 140	-0.0010	+/-0.50	
Blank (B351812-BLK1)									
Lab File ID: J23A249008.D					Analyzed: 09/06/23 14:31				
Bromochloromethane (1)	281513	2.784	317360	2.805	89	60 - 140	-0.0210	+/-0.50	
1,4-Difluorobenzene (1)	808412	3.417	1018898	3.429	79	60 - 140	-0.0120	+/-0.50	
Chlorobenzene-d5 (1)	704511	5.035	876037	5.041	80	60 - 140	-0.0060	+/-0.50	
20230830-AA-1 (23I0213-03)									
Lab File ID: J23A249018.D					Analyzed: 09/06/23 20:07				
Bromochloromethane (1)	305623	2.785	317360	2.805	96	60 - 140	-0.0200	+/-0.50	
1,4-Difluorobenzene (1)	938718	3.418	1018898	3.429	92	60 - 140	-0.0110	+/-0.50	
Chlorobenzene-d5 (1)	878620	5.035	876037	5.041	100	60 - 140	-0.0060	+/-0.50	
20230831-DUP-1 (23I0213-04)									
Lab File ID: J23A249019.D					Analyzed: 09/06/23 20:35				
Bromochloromethane (1)	315325	2.8	317360	2.805	99	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	1000606	3.43	1018898	3.429	98	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	962413	5.037	876037	5.041	110	60 - 140	-0.0040	+/-0.50	
20230831-VMP-4 (23I0213-06)									
Lab File ID: J23A249020.D					Analyzed: 09/06/23 21:01				
Bromochloromethane (1)	317943	2.796	317360	2.805	100	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (1)	1005601	3.425	1018898	3.429	99	60 - 140	-0.0040	+/-0.50	
Chlorobenzene-d5 (1)	966716	5.038	876037	5.041	110	60 - 140	-0.0030	+/-0.50	
20230831-VMP-3 (23I0213-07)									
Lab File ID: J23A249021.D					Analyzed: 09/06/23 21:28				
Bromochloromethane (1)	304016	2.805	317360	2.805	96	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	925885	3.428	1018898	3.429	91	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	891488	5.041	876037	5.041	102	60 - 140	0.0000	+/-0.50	
20230830-VMP-1 (23I0213-01)									
Lab File ID: J23A249022.D					Analyzed: 09/06/23 21:54				
Bromochloromethane (1)	280781	2.81	317360	2.805	88	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	916562	3.434	1018898	3.429	90	60 - 140	0.0050	+/-0.50	
Chlorobenzene-d5 (1)	882682	5.042	876037	5.041	101	60 - 140	0.0010	+/-0.50	
20230830-VMP-1 (23I0213-01RE1)									
Lab File ID: J23A249023.D					Analyzed: 09/06/23 22:20				
Bromochloromethane (1)	289656	2.8	317360	2.805	91	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	875372	3.433	1018898	3.429	86	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	810429	5.039	876037	5.041	93	60 - 140	-0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
20230830-VMP-2 (23I0213-02) Lab File ID: J23A249024.D Analyzed: 09/06/23 22:47									
Bromochloromethane (1)	299365	2.804	317360	2.805	94	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	879457	3.433	1018898	3.429	86	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	867596	5.038	876037	5.041	99	60 - 140	-0.0030	+/-0.50	
20230831-VMP-5 (23I0213-05) Lab File ID: J23A249026.D Analyzed: 09/06/23 23:38									
Bromochloromethane (1)	294551	2.8	317360	2.805	93	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (1)	882501	3.433	1018898	3.429	87	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	869576	5.035	876037	5.041	99	60 - 140	-0.0060	+/-0.50	
20230831-VMP-5 (23I0213-05RE1) Lab File ID: J23A249027.D Analyzed: 09/07/23 00:03									
Bromochloromethane (1)	292767	2.79	317360	2.805	92	60 - 140	-0.0150	+/-0.50	
1,4-Difluorobenzene (1)	866845	3.428	1018898	3.429	85	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	845533	5.039	876037	5.041	97	60 - 140	-0.0020	+/-0.50	

CONTINUING CALIBRATION CHECK

EPA TO-15

S093132-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	3.98	1.034114	0.8236143		-20.4	30
Benzene	A	5.00	4.29	0.8123645	0.6969696		-14.2	30
Benzyl chloride	L	5.00	4.64	0.5056852	0.7061272		-7.1	30
Bromodichloromethane	A	5.00	4.55	0.6094342	0.5551246		-8.9	30
Bromoform	A	5.00	5.34	0.4573839	0.4889337		6.9	30
Bromomethane	A	5.00	4.78	0.6761959	0.6459671		-4.5	30
1,3-Butadiene	A	5.00	5.04	0.5092257	0.5131085		0.8	30
2-Butanone (MEK)	A	5.00	4.43	1.148647	1.018421		-11.3	30
Carbon Disulfide	A	5.00	4.71	2.001154	1.884398		-5.8	30
Carbon Tetrachloride	A	5.00	5.08	0.5037067	0.5121947		1.7	30
Chlorobenzene	A	5.00	4.73	0.7622773	0.7213159		-5.4	30
Chloroethane	A	5.00	4.79	0.4202137	0.4022663		-4.3	30
Chloroform	A	5.00	4.87	1.577837	1.535514		-2.7	30
Chloromethane	A	5.00	5.05	0.5966374	0.6022237		0.9	30
Cyclohexane	A	5.00	4.46	0.3246406	0.2892907		-10.9	30
Dibromochloromethane	A	5.00	5.40	0.5189836	0.5604919		8.0	30
1,2-Dibromoethane (EDB)	A	5.00	5.11	0.4960864	0.5071411		2.2	30
1,2-Dichlorobenzene	A	5.00	5.40	0.4911951	0.5305278		8.0	30
1,3-Dichlorobenzene	A	5.00	5.82	0.5456808	0.6355134		16.5	30
1,4-Dichlorobenzene	A	5.00	5.35	0.5309926	0.5678741		6.9	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.23	1.809285	1.893216		4.6	30
1,1-Dichloroethane	A	5.00	4.84	1.317427	1.27401		-3.3	30
1,2-Dichloroethane	A	5.00	4.55	0.9730911	0.885777		-9.0	30
1,1-Dichloroethylene	A	5.00	4.58	1.146845	1.049908		-8.5	30
cis-1,2-Dichloroethylene	A	5.00	4.72	0.9524103	0.8990456		-5.6	30
trans-1,2-Dichloroethylene	A	5.00	4.82	1.02979	0.9934421		-3.5	30
1,2-Dichloropropane	A	5.00	4.41	0.3033695	0.2674634		-11.8	30
cis-1,3-Dichloropropene	A	5.00	4.95	0.4042769	0.4001175		-1.0	30
trans-1,3-Dichloropropene	A	5.00	5.33	0.3279415	0.349521		6.6	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.75	1.964888	1.865279		-5.1	30
1,4-Dioxane	A	5.00	4.23	0.1624784	0.137342		-15.5	30
Ethanol	A	5.00	4.41	0.1724202	0.152001		-11.8	30
Ethyl Acetate	A	5.00	5.13	0.2040016	0.209433		2.7	30
Ethylbenzene	A	5.00	4.65	1.293794	1.204317		-6.9	30
4-Ethyltoluene	A	5.00	4.92	1.173601	1.155969		-1.5	30
Heptane	A	5.00	4.75	0.2390228	0.2269403		-5.1	30
Hexachlorobutadiene	A	5.00	7.42	0.2261563	0.3354386		48.3	30 *
Hexane	L	5.00	4.24	0.6738496	0.5758404		-15.2	30

CONTINUING CALIBRATION CHECK

EPA TO-15

S093132-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.47	0.4320676	0.3861639		-10.6	30
Isopropanol	A	5.00	4.04	1.163166	0.9407083		-19.1	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.81	1.752887	1.686442		-3.8	30
Methylene Chloride	A	5.00	4.14	0.8161184	0.67654		-17.1	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.09	0.1991676	0.2026249		1.7	30
Naphthalene	A	5.00	5.71	0.4140914	0.4732324		14.3	30
Propene	A	5.00	5.52	0.3783566	0.4180495		10.5	30
Styrene	A	5.00	5.29	0.6193387	0.6547294		5.7	30
1,1,2,2-Tetrachloroethane	A	5.00	4.96	0.7875453	0.7809925		-0.8	30
Tetrachloroethylene	A	5.00	4.64	0.4061033	0.3768324		-7.2	30
Tetrahydrofuran	A	5.00	4.55	0.5602263	0.5099687		-9.0	30
Toluene	A	5.00	4.73	0.9952737	0.9407123		-5.5	30
1,2,4-Trichlorobenzene	A	5.00	5.28	0.1951236	0.205896		5.5	30
1,1,1-Trichloroethane	A	5.00	4.88	0.5148362	0.5019651		-2.5	30
1,1,2-Trichloroethane	A	5.00	4.90	0.3494055	0.3420932		-2.1	30
Trichloroethylene	A	5.00	4.61	0.3469588	0.3200271		-7.8	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.98	1.832227	1.824689		-0.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.84	1.363757	1.321		-3.1	30
1,2,4-Trimethylbenzene	A	5.00	5.48	0.9035781	0.9900137		9.6	30
1,3,5-Trimethylbenzene	A	5.00	5.77	0.9651619	1.113168		15.3	30
Vinyl Acetate	A	5.00	4.19	1.160867	0.9723262		-16.2	30
Vinyl Chloride	A	5.00	5.01	0.7330867	0.7343032		0.2	30
m&p-Xylene	A	10.0	10.6	1.010218	1.075665		6.5	30
o-Xylene	A	5.00	5.30	0.9862305	1.044877		5.9	30

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA TO-15

S093309-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.02	1.034114	0.8316612		-19.6	30
Benzene	A	5.00	4.12	0.8123645	0.6686628		-17.7	30
Benzyl chloride	L	5.00	4.57	0.5056852	0.6945077		-8.6	30
Bromodichloromethane	A	5.00	4.40	0.6094342	0.5367556		-11.9	30
Bromoform	A	5.00	5.36	0.4573839	0.4901199		7.2	30
Bromomethane	A	5.00	5.24	0.6761959	0.7090497		4.9	30
1,3-Butadiene	A	5.00	5.13	0.5092257	0.5223544		2.6	30
2-Butanone (MEK)	A	5.00	4.38	1.148647	1.007406		-12.3	30
Carbon Disulfide	A	5.00	4.88	2.001154	1.954444		-2.3	30
Carbon Tetrachloride	A	5.00	5.08	0.5037067	0.5115927		1.6	30
Chlorobenzene	A	5.00	4.68	0.7622773	0.7127297		-6.5	30
Chloroethane	A	5.00	4.96	0.4202137	0.416728		-0.8	30
Chloroform	A	5.00	5.14	1.577837	1.621835		2.8	30
Chloromethane	A	5.00	4.90	0.5966374	0.584245		-2.1	30
Cyclohexane	A	5.00	4.30	0.3246406	0.2790748		-14.0	30
Dibromochloromethane	A	5.00	5.43	0.5189836	0.5633917		8.6	30
1,2-Dibromoethane (EDB)	A	5.00	5.00	0.4960864	0.4955845		-0.1	30
1,2-Dichlorobenzene	A	5.00	5.45	0.4911951	0.5355865		9.0	30
1,3-Dichlorobenzene	A	5.00	5.81	0.5456808	0.6344243		16.3	30
1,4-Dichlorobenzene	A	5.00	5.36	0.5309926	0.5687504		7.1	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.65	1.809285	2.044396		13.0	30
1,1-Dichloroethane	A	5.00	5.03	1.317427	1.326131		0.7	30
1,2-Dichloroethane	A	5.00	4.68	0.9730911	0.9105218		-6.4	30
1,1-Dichloroethylene	A	5.00	4.74	1.146845	1.087693		-5.2	30
cis-1,2-Dichloroethylene	A	5.00	4.76	0.9524103	0.9069221		-4.8	30
trans-1,2-Dichloroethylene	A	5.00	4.93	1.02979	1.014621		-1.5	30
1,2-Dichloropropane	A	5.00	4.08	0.3033695	0.2474736		-18.4	30
cis-1,3-Dichloropropene	A	5.00	4.60	0.4042769	0.3722689		-7.9	30
trans-1,3-Dichloropropene	A	5.00	5.00	0.3279415	0.3279527		0.003	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.04	1.964888	1.98062		0.8	30
1,4-Dioxane	A	5.00	4.01	0.1624784	0.130205		-19.9	30
Ethanol	A	5.00	4.36	0.1724202	0.1504563		-12.7	30
Ethyl Acetate	A	5.00	4.97	0.2040016	0.2028485		-0.6	30
Ethylbenzene	A	5.00	4.51	1.293794	1.166418		-9.8	30
4-Ethyltoluene	A	5.00	4.84	1.173601	1.134937		-3.3	30
Heptane	A	5.00	4.43	0.2390228	0.2115619		-11.5	30
Hexachlorobutadiene	A	5.00	7.49	0.2261563	0.3387199		49.8	30 *
Hexane	L	5.00	4.14	0.6738496	0.5621124		-17.3	30

CONTINUING CALIBRATION CHECK

EPA TO-15

S093309-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	3.92	0.4320676	0.3390505		-21.5	30
Isopropanol	A	5.00	4.02	1.163166	0.9361028		-19.5	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.04	1.752887	1.765203		0.7	30
Methylene Chloride	A	5.00	3.96	0.8161184	0.6469322		-20.7	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.63	0.1991676	0.1844377		-7.4	30
Naphthalene	A	5.00	5.76	0.4140914	0.477368		15.3	30
Propene	A	5.00	5.64	0.3783566	0.4270078		12.9	30
Styrene	A	5.00	5.18	0.6193387	0.6419638		3.7	30
1,1,2,2-Tetrachloroethane	A	5.00	4.78	0.7875453	0.7528924		-4.4	30
Tetrachloroethylene	A	5.00	4.67	0.4061033	0.3790707		-6.7	30
Tetrahydrofuran	A	5.00	4.34	0.5602263	0.4866347		-13.1	30
Toluene	A	5.00	4.62	0.9952737	0.9187612		-7.7	30
1,2,4-Trichlorobenzene	A	5.00	5.47	0.1951236	0.2135727		9.5	30
1,1,1-Trichloroethane	A	5.00	4.72	0.5148362	0.4858159		-5.6	30
1,1,2-Trichloroethane	A	5.00	4.85	0.3494055	0.3387199		-3.1	30
Trichloroethylene	A	5.00	4.45	0.3469588	0.3087838		-11.0	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.52	1.832227	2.023464		10.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.19	1.363757	1.416415		3.9	30
1,2,4-Trimethylbenzene	A	5.00	5.42	0.9035781	0.9786399		8.3	30
1,3,5-Trimethylbenzene	A	5.00	5.67	0.9651619	1.094136		13.4	30
Vinyl Acetate	A	5.00	3.98	1.160867	0.9248147		-20.3	30
Vinyl Chloride	A	5.00	5.10	0.7330867	0.7474767		2.0	30
m&p-Xylene	A	10.0	10.4	1.010218	1.051536		4.1	30
o-Xylene	A	5.00	5.16	0.9862305	1.017913		3.2	30

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

* Values outside of QC limits

CERTIFICATIONS
Certified Analyses included in this Report

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

CERTIFICATIONS
Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
FL	Florida Department of Health	E871027 NELAP	06/30/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

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

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

Format: PDF ☒ EXCEL ☒
Other: NYS EQGIS EDD

CLP Like Data Pkg Required: ☐
Email To: jared.donaldson@dec.ny.gov
Fax To #:

Address: 625 Broadway, 12th Floor, Albany, NY 12233

Phone: 518-402-9176

Project Name: Nassau Uniform

Project Location: Freeport

Project Number: 130063

Project Manager: Jared Donaldson

Pace Quote Name/Number: 147514

Invoice Recipient: RJ McCarthy

Sampled By: JSD

Lab Use	Client Use	Collection Data	Duration	Flow Rate	Matrix	Volume
Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	m ³ /min L/min	Liters m ³
01	20230830-VMP-1	8/30/23 11:48	8/30/23 13:48	120	0.05 SG	X
02	20230830-VMP-2	8/30/23 13:02	8/30/23 14:02	120	0.05 SG	X
03	20230830-AA-1	8/30/23 13:02	8/30/23 14:02	120	0.05 AMB	X
04	20230831-DUP-1	8/31/23 8:13	8/31/23 9:13	120	0.05 DUP	X
05	20230831-VHP-5	8/31/23 7:19	8/31/23 8:19	120	0.05 SG	X
06	20230831-VHP-4	8/31/23 7:31	8/31/23 8:31	120	0.05 SG	X
07	20230831-VHP-3	8/31/23 7:35	8/31/23 8:35	120	0.05 SG	X

Comments: Category B Deliverable

EQGIS EDD

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

Matrix Codes:

SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other

Relinquished by: (signature) Jared Donaldson Date/Time: 8/31 13:00

Received by: (signature) RJ Date/Time: 8/31 13:00

Relinquished by: (signature) Anthony Green Date/Time: 9/1/23 18:00

Received by: (signature) Anthony Green Date/Time: 9/1/23 18:00

Relinquished by: (signature) Anthony Green Date/Time: 9/1/23 18:00

Received by: (signature) Anthony Green Date/Time: 9/1/23 18:00



Project Entity
☐ Government ☐ Municipality ☐ WRTA ☐ Other ☐ Chromatogram ☐ Soxhlet
☐ Federal ☐ 21 J ☐ AIHA-LAP, LLC ☐ Non Soxhlet
☐ City ☐ Brownfield ☐ MBTA

NEIAC and AIHA-LAP, LLC Accredited
☐ PCB ONLY ☐ Soxhlet ☐ Non Soxhlet



DC#_Title: ENV-FRM-ELON-0009 v04_Air Sample Receiving Checklist

Effective Date: 07/13/2023

Log In Back-Sheet

Client NYDEC

Project Nassau Uniform

MCP/RCP Required _____

Deliverable Package Requirement CAT B

Location Freeport

PWSID# (When Applicable) _____

Arrival Method Courier

Received By / Date / Time MEM 9/2/23 0930

Back-Sheet By / Date / Time KMC 9/5/23 0940

Temperature Method _____ # _____

Temp $\leq 6^{\circ}\text{C}$ Actual Temperature _____

Rush Samples: Yes (No) _____ Notify _____

Short Hold: Yes / (No) _____ Notify _____

Notes regarding Samples/COC outside of SOP:

Sample ID's on chain "VHP" are
written "VMP" on can tags

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy)
 Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☐	☒
Received in Cooler	☐	☒
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Individually Certified Cans	☐	☒
Trip Blanks	☐	☒
COC Legible	☒	☐
COC Included: (Check all included)		
Client ☒	Analysis ☒	Sampler Name ☒
Project ☒	IDs ☒	Collection Date/Time ☒

Container	#	Size	Regulator	Duration	Accessories			
Summa Cans	7	6L	7	2hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s					Regs #'s				
5	2450	10		15	5	4442	10		15
1	2162	6	2038	11	1	4412	6	4434	11
2	1644	7	2220	12	2	4409	7	4427	12
3	1478	8		13	3	4414	8		13
4	1822	9		14	4	4415	9		14
Unused Media					Pufs/TO-17's				
4		9		14	5		10		15
1		5		10	1		6		11
2		6		11	2		7		12
3		7		12	3		8		13
4		8		13	4		9		14

Qualtrax ID: 127034

Page 1 of 1