

September 11, 2023

Mr. Christopher Aucoin, PhD
NYSDEC, Division of Environmental Remediation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Via email: Christopher.Aucoin@dec.ny.gov

Re: Progress Report: August 2023
Frost Street Sites: Site ID Nos. 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Aucoin,

EnSafe Inc. is pleased to submit this Progress Report for the Frost Street Sites (Site ID Nos. 1-30043 I, L, M) for operation, maintenance, and monitoring (OM&M) activities completed in August 2023 for the onsite air sparge/soil vapor extraction (AS/SVE) and groundwater extraction systems.

Air Sparge/Soil Vapor Extraction System – Operable Unit 1

- AS/SVE system operations continued this month, per the OM&M Manual. During periodic visits, system parameters were logged on dedicated forms (Appendix A). During the month of August, no alarm calls were received.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on August 14. Samples were obtained by EnviroTrac and results are included in Appendix B. Samples were collected in Summa canisters via tedlar bags that were filled directly from system sample ports. These samples were submitted to Con-Test (Pace Analytical Laboratories) and analyzed by Method TO-15.
 - Photoionization detector (PID) readings and influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene [18,390 µg/m³]) continue to indicate significant mass extraction.
 - Effluent concentrations are below the carbon exchange indicator concentrations as shown below.

Frost Street Sites Effluent Compliance			
System Flow Rate = 800 ft ³ /min			
Compound	Annual Mass Emission Limit ¹ (lbs/year)	Carbon Exchange Required Indicator Concentration (µg/m ³) ²	August 2023 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	16
Tetrachloroethene	1,000	38,000	210
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ³	100	3,800	180

Notes:

ft/min cubic feet per minute

lbs/year pounds per year

µg/m³ micrograms per cubic meter

1 Source of Mass Emission Limit: Part 212-2.2 Table 2 — High Toxicity Air Contaminant List

2 These limits were calculated based on Frost Street-specific system operations (i.e., flow rate) in order to remain below the annual HTAC emissions listed in Part 212-2.2 Table 2. Remaining below these concentrations ensures that annual emissions will not exceed the limit to demonstrate compliance with Part 212 without having to perform compound-specific analyses.

3 Cis-1,2-dichloroethene is not a listed HTAC, so the default is 100 lbs/year.

Groundwater Extraction System – Operable Unit 2

The pumps in EX-1A, EX-1B, EX-1C, and EX-1D operated near design flow rates (30, 30, 48, and 48 gallons per minute, respectively) for all of August except for a brief (4-hour) outage from an emergency stop alarm on August 22. To date, over 388 million gallons of water have been removed by this system.

EnSafe collected and prepared the additional information requested by NYSDEC on February 21, 2019, (additional pressure transducer data and groundwater elevation maps) to facilitate review and comment on the *Expanded Pumping Test Summary, Findings, and Recommendations*, submitted on August 10, 2018. This information was transmitted to NYSDEC on March 22, 2019.

Groundwater Sampling

The fourth quarter 2023 groundwater sampling event is planned for October 2023.

If you have any questions or require additional information, please do not hesitate to contact me at 860-665-1140 or astark@ensafe.com.

Sincerely,
EnSafe, Inc., by



Alexandra Stark, P.E.

Attachments

Copies: A. Tamuno, Esq., NYSDEC	<i>Via email to amtamuno@gw.dec.state.ny.us</i>
C. Bethoney, NYSDOH	<i>Via email to charlotte.bethoney@health.ny.gov</i>
J. Nealon, NYSDOH	<i>Via email to jacquelyn.nealon@health.ny.gov</i>
R. Putnam, NCDOH	<i>Via email to rputnam@nassaucountyny.gov</i>
J. Vazquez, U.S. EPA	<i>Via email to vazquez.julio@epa.gov</i>
T. Pupilla, Sanders Equities	<i>Via email to tpupilla@sandersequities.com</i>
J. Privitera, Esq., WOH	<i>Via email to jprivitera@woh.com</i>
T. Ruane, WOH	<i>Via email to truane@woh.com</i>
P. Coop, EnSafe	<i>Via email to pcoop@ensafe.com</i>
J. Wilkinson, Envirotrac	<i>Via email to jamesw@envirotrac.com</i>

Appendix A
AS/SVE System Operation and Maintenance Logs

Operation & Maintenance Data Sheet

Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services

5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 14-Aug
Weather / Temp: Cloudy / 85 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 12:00

System Status									
	Arrival	Departure		Arrival	Departure				
SVE Blower 1 (ON/OFF)	OFF	ON	AS Compressor 1 (ON/OFF)	OFF	ON				
SVE Blower 2 (ON/OFF)	OFF	OFF	AS Compressor 2 (ON/OFF)	OFF	OFF				
			Air Cooler (ON/OFF)	OFF	ON				
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	3800	746	Blower 1 Total Runtime (hrs)	71,092.1					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	70,711.7					
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0					
Blower Inlet Vacuum ("H2O)	40		Blower 2 Air Filter Differential Pressure ("H2O)	0					
Moisture Separator Vacuum ("Hg)	3		VGAC-1 Influent PID (ppm)	1					
VGAC-1 Influent Vacuum ("H2O)	28		VGAC-1 Effluent PID (ppm)	0					
VGAC-1 Effluent Vacuum ("H2O)	30		VGAC-2 Influent PID (ppm)	1					
VGAC-2 Influent Vacuum ("H2O)	28		VGAC-2 Effluent PID (ppm)	0					
VGAC-2 Effluent Vacuum ("H2O)	30		VGAC-3 Influent PID (ppm)	0					
VGAC-3 Influent Vacuum ("H2O)	38		VGAC-3 Effluent PID (ppm)	0					
VGAC-3 Effluent Vacuum ("H2O)	40		Blower Effluent PID (ppm)	0					
VGAC-3 Influent Temp (DegF)	-		Transfer Pump Total Runtime (hrs)	25,100.4					
Blower Effluent Pressure ("H2O)	7		Condensate Storage Tank Level (gal)	50					
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	34	5500	120	1	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	27	3400	74	0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	36	3000	65	3	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	38	2400	52	0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	28	3900	85	0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	34	5000	109	8
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	25	3400	74	0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	29	2450	53	0
Air Sparge System									
Compressor 1 Pressure (psi)	13.5				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	19,979.0				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	200				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	98				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	12.5				AS Manifold Temperature (degF)	96			
Air Cooler Outlet Pressure (psi)	10.5				AS Manifold Pressure	14			
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate		Pressure	Flow Rate				
AS-1 (psi)/(cfm)	2	15	AS-11 (psi)/(cfm)	13	9				
AS-2 (psi)/(cfm)	0	15	AS-12B (psi)/(cfm)	15	8				
AS-3 (psi)/(cfm)	0	15	AS-13B (psi)/(cfm)	15	8				
AS-4 (psi)/(cfm)	13	15	AS-14 (psi)/(cfm)	16	8				
AS-5 (psi)/(cfm)	15	10	AS-15 (psi)/(cfm)	16	10				
AS-6 (psi)/(cfm)	16	8	AS-16B (psi)/(cfm)	15	7				
AS-7 (psi)/(cfm)	15	9	AS-17 (psi)/(cfm)	16	8				
AS-8 (psi)/(cfm)	13	10	AS-18 (psi)/(cfm)	15	12				
AS-9 (psi)/(cfm)	15	10	AS-19 (psi)/(cfm)	14	10				
AS-10B (psi)/(cfm)	15	9							

Notes, Comments & Observations:

System off uupon arrival due to electrical power failure.

Inspection, Maintenance, Lubrication Schedule
Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 14-Aug
Weather / Temp: Cloudy / 85 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 12:00

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 4/20/23
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	Y	24.7 A
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 4/20/23
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
Phase Separator/Storage Tank			
-Inspect	Weekly	Y	
-Check Level Switches	As Required	Y	
-Inspect water storage tank	Weekly	Y	
-Pump water to sewer drain	As Required	Y	
AS Compressor 1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 7/31/23
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	Y	27 A
AS Compressor 2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Filters	Weekly	N	
-Amp Draw	Quarterly	N	
Air Cooler			
-Inspect	Weekly	Y	
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
AS Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
-Drain Filters/Collectors	Weekly	Y	
-Drain Pressure Tank	Weekly	Y	

Appendix B
AS/SVE System Influent/Effluent Sampling
Laboratory Analytical Results

August 23, 2023

James Wilkinson
EnviroTrac Ltd - Yaphank, NY
5 Old Dock Road
Yaphank, NY 11980

Project Location: Westbury, NY
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 23H2562

Enclosed are results of analyses for samples as received by the laboratory on August 16, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332EnviroTrac Ltd - Yaphank, NY
5 Old Dock Road
Yaphank, NY 11980
ATTN: James Wilkinson

REPORT DATE: 8/23/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23H2562

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

PROJECT LOCATION: Westbury, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE Effluent	23H2562-01	Soil Gas		- EPA TO-15	
SVE Influent	23H2562-02	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:****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:**Hexachlorobutadiene**

B349954-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**

23H2562-01[SVE Effluent], 23H2562-02[SVE Influent], B349954-BLK1, B349954-BS1, B349954-DUP1

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:**1,2,4-Trichlorobenzene**

B349954-BS1, S092423-CCV1

1,2,4-Trimethylbenzene

B349954-BS1, S092423-CCV1

1,3,5-Trimethylbenzene

B349954-BS1, S092423-CCV1

Hexachlorobutadiene

B349954-BS1, S092423-CCV1

Naphthalene

B349954-BS1, S092423-CCV1

Propene

B349954-BS1, S092423-CCV1

Z-01

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

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

23H2562-01[SVE Effluent], 23H2562-02[SVE Influent], B349954-BLK1, B349954-BS1, B349954-DUP1, S092423-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.



Lisa A. Worthington
Technical Representative

ANALYTICAL RESULTS

Project Location: Westbury, NY
 Date Received: 8/16/2023
Field Sample #: SVE Effluent
Sample ID: 23H2562-01
 Sample Matrix: Soil Gas
 Sampled: 8/14/2023 11:14

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2749
 Canister Size: 3 liter
 Flow Controller ID: 4303
 Sample Type: 15 min

Work Order: 23H2562
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -6.8
 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		Results	RL		Analyzed		
Acetone	ND	8.0		ND	19	4	8/17/23 19:53	CMR	
Benzene	ND	0.20		ND	0.64	4	8/17/23 19:53	CMR	
Benzyl chloride	ND	0.80		ND	4.1	4	8/17/23 19:53	CMR	
Bromodichloromethane	ND	0.20		ND	1.3	4	8/17/23 19:53	CMR	
Bromoform	ND	0.20		ND	2.1	4	8/17/23 19:53	CMR	
Bromomethane	ND	0.20		ND	0.78	4	8/17/23 19:53	CMR	
1,3-Butadiene	ND	0.20		ND	0.44	4	8/17/23 19:53	CMR	
2-Butanone (MEK)	ND	8.0		ND	24	4	8/17/23 19:53	CMR	
Carbon Disulfide	ND	2.0		ND	6.2	4	8/17/23 19:53	CMR	
Carbon Tetrachloride	ND	0.20		ND	1.3	4	8/17/23 19:53	CMR	
Chlorobenzene	ND	0.20		ND	0.92	4	8/17/23 19:53	CMR	
Chloroethane	ND	0.20		ND	0.53	4	8/17/23 19:53	CMR	
Chloroform	ND	0.20		ND	0.98	4	8/17/23 19:53	CMR	
Chloromethane	ND	0.40		ND	0.83	4	8/17/23 19:53	CMR	
Cyclohexane	ND	0.20		ND	0.69	4	8/17/23 19:53	CMR	
Dibromochloromethane	ND	0.20		ND	1.7	4	8/17/23 19:53	CMR	
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	8/17/23 19:53	CMR	
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	8/17/23 19:53	CMR	
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	8/17/23 19:53	CMR	
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	8/17/23 19:53	CMR	
Dichlorodifluoromethane (Freon 12)	0.61	0.20		3.0	0.99	4	8/17/23 19:53	CMR	
1,1-Dichloroethane	ND	0.20		ND	0.81	4	8/17/23 19:53	CMR	
1,2-Dichloroethane	ND	0.20		ND	0.81	4	8/17/23 19:53	CMR	
1,1-Dichloroethylene	ND	0.20		ND	0.79	4	8/17/23 19:53	CMR	
cis-1,2-Dichloroethylene	46	0.20		180	0.79	4	8/17/23 19:53	CMR	
trans-1,2-Dichloroethylene	0.54	0.20		2.1	0.79	4	8/17/23 19:53	CMR	
1,2-Dichloropropane	ND	0.20		ND	0.92	4	8/17/23 19:53	CMR	
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	8/17/23 19:53	CMR	
trans-1,3-Dichloropropene	ND	0.20		ND	0.91	4	8/17/23 19:53	CMR	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20		ND	1.4	4	8/17/23 19:53	CMR	
1,4-Dioxane	ND	2.0		ND	7.2	4	8/17/23 19:53	CMR	
Ethanol	34	8.0		64	15	4	8/17/23 19:53	CMR	
Ethyl Acetate	ND	2.0		ND	7.2	4	8/17/23 19:53	CMR	
Ethylbenzene	ND	0.20		ND	0.87	4	8/17/23 19:53	CMR	
4-Ethyltoluene	ND	0.20		ND	0.98	4	8/17/23 19:53	CMR	
Heptane	0.32	0.20		1.3	0.82	4	8/17/23 19:53	CMR	
Hexachlorobutadiene	ND	0.20		ND	2.1	4	8/17/23 19:53	CMR	

ANALYTICAL RESULTS

Project Location: Westbury, NY
Date Received: 8/16/2023
Field Sample #: SVE Effluent
Sample ID: 23H2562-01
Sample Matrix: Soil Gas
Sampled: 8/14/2023 11:14

Sample Description/Location:
Sub Description/Location:
Canister ID: 2749
Canister Size: 3 liter
Flow Controller ID: 4303
Sample Type: 15 min

Work Order: 23H2562
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.8
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		Results	RL		Analyzed		
Hexane	ND	8.0	L-03	ND	28	4	8/17/23 19:53	CMR	
2-Hexanone (MBK)	ND	0.80		ND	3.3	4	8/17/23 19:53	CMR	
Isopropanol	ND	8.0		ND	20	4	8/17/23 19:53	CMR	
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	8/17/23 19:53	CMR	
Methylene Chloride	ND	2.0	Z-01	ND	6.9	4	8/17/23 19:53	CMR	
4-Methyl-2-pentanone (MIBK)	0.25	0.20		1.0	0.82	4	8/17/23 19:53	CMR	
Naphthalene	ND	0.20		ND	1.0	4	8/17/23 19:53	CMR	
Propene	ND	8.0		ND	14	4	8/17/23 19:53	CMR	
Styrene	ND	0.20		ND	0.85	4	8/17/23 19:53	CMR	
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	8/17/23 19:53	CMR	
Tetrachloroethylene	30	0.20		210	1.4	4	8/17/23 19:53	CMR	
Tetrahydrofuran	ND	2.0		ND	5.9	4	8/17/23 19:53	CMR	
Toluene	0.62	0.20		2.3	0.75	4	8/17/23 19:53	CMR	
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	4	8/17/23 19:53	CMR	
1,1,1-Trichloroethane	ND	0.20		ND	1.1	4	8/17/23 19:53	CMR	
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	8/17/23 19:53	CMR	
Trichloroethylene	2.9	0.20		16	1.1	4	8/17/23 19:53	CMR	
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	8/17/23 19:53	CMR	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	8/17/23 19:53	CMR	
1,2,4-Trimethylbenzene	ND	0.20		ND	0.98	4	8/17/23 19:53	CMR	
1,3,5-Trimethylbenzene	ND	0.20		ND	0.98	4	8/17/23 19:53	CMR	
Vinyl Acetate	ND	4.0		ND	14	4	8/17/23 19:53	CMR	
Vinyl Chloride	ND	0.20		ND	0.51	4	8/17/23 19:53	CMR	
m&p-Xylene	ND	0.40		ND	1.7	4	8/17/23 19:53	CMR	
o-Xylene	ND	0.20		ND	0.87	4	8/17/23 19:53	CMR	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	90.7	70-130	8/17/23 19:53

ANALYTICAL RESULTS

Project Location: Westbury, NY
 Date Received: 8/16/2023
Field Sample #: SVE Influent
Sample ID: 23H2562-02
 Sample Matrix: Soil Gas
 Sampled: 8/14/2023 11:25

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2739
 Canister Size: 3 liter
 Flow Controller ID: 4205
 Sample Type: 15 min

Work Order: 23H2562
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -5.2
 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		Results	RL		Analyzed		
Acetone	ND	40		ND	95	20	8/17/23 20:43		CMR
Benzene	ND	1.0		ND	3.2	20	8/17/23 20:43		CMR
Benzyl chloride	ND	4.0		ND	21	20	8/17/23 20:43		CMR
Bromodichloromethane	1.7	1.0		11	6.7	20	8/17/23 20:43		CMR
Bromoform	ND	1.0		ND	10	20	8/17/23 20:43		CMR
Bromomethane	ND	1.0		ND	3.9	20	8/17/23 20:43		CMR
1,3-Butadiene	ND	1.0		ND	2.2	20	8/17/23 20:43		CMR
2-Butanone (MEK)	ND	40		ND	120	20	8/17/23 20:43		CMR
Carbon Disulfide	ND	10		ND	31	20	8/17/23 20:43		CMR
Carbon Tetrachloride	ND	1.0		ND	6.3	20	8/17/23 20:43		CMR
Chlorobenzene	ND	1.0		ND	4.6	20	8/17/23 20:43		CMR
Chloroethane	ND	1.0		ND	2.6	20	8/17/23 20:43		CMR
Chloroform	ND	1.0		ND	4.9	20	8/17/23 20:43		CMR
Chloromethane	ND	2.0		ND	4.1	20	8/17/23 20:43		CMR
Cyclohexane	ND	1.0		ND	3.4	20	8/17/23 20:43		CMR
Dibromochloromethane	ND	1.0		ND	8.5	20	8/17/23 20:43		CMR
1,2-Dibromoethane (EDB)	ND	1.0		ND	7.7	20	8/17/23 20:43		CMR
1,2-Dichlorobenzene	ND	1.0		ND	6.0	20	8/17/23 20:43		CMR
1,3-Dichlorobenzene	ND	1.0		ND	6.0	20	8/17/23 20:43		CMR
1,4-Dichlorobenzene	ND	1.0		ND	6.0	20	8/17/23 20:43		CMR
Dichlorodifluoromethane (Freon 12)	ND	1.0		ND	4.9	20	8/17/23 20:43		CMR
1,1-Dichloroethane	ND	1.0		ND	4.0	20	8/17/23 20:43		CMR
1,2-Dichloroethane	ND	1.0		ND	4.0	20	8/17/23 20:43		CMR
1,1-Dichloroethylene	ND	1.0		ND	4.0	20	8/17/23 20:43		CMR
cis-1,2-Dichloroethylene	49	1.0		190	4.0	20	8/17/23 20:43		CMR
trans-1,2-Dichloroethylene	ND	1.0		ND	4.0	20	8/17/23 20:43		CMR
1,2-Dichloropropane	ND	1.0		ND	4.6	20	8/17/23 20:43		CMR
cis-1,3-Dichloropropene	ND	1.0		ND	4.5	20	8/17/23 20:43		CMR
trans-1,3-Dichloropropene	ND	1.0		ND	4.5	20	8/17/23 20:43		CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	1.0		ND	7.0	20	8/17/23 20:43		CMR
1,4-Dioxane	ND	10		ND	36	20	8/17/23 20:43		CMR
Ethanol	ND	40		ND	75	20	8/17/23 20:43		CMR
Ethyl Acetate	ND	10		ND	36	20	8/17/23 20:43		CMR
Ethylbenzene	ND	1.0		ND	4.3	20	8/17/23 20:43		CMR
4-Ethyltoluene	ND	1.0		ND	4.9	20	8/17/23 20:43		CMR
Heptane	ND	1.0		ND	4.1	20	8/17/23 20:43		CMR
Hexachlorobutadiene	ND	1.0		ND	11	20	8/17/23 20:43		CMR

ANALYTICAL RESULTS

Project Location: Westbury, NY
Date Received: 8/16/2023
Field Sample #: SVE Influent
Sample ID: 23H2562-02
Sample Matrix: Soil Gas
Sampled: 8/14/2023 11:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2739
Canister Size: 3 liter
Flow Controller ID: 4205
Sample Type: 15 min

Work Order: 23H2562
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5.2
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		Results	RL		Analyzed		
Hexane	ND	40	L-03	ND	140	20	8/17/23	20:43	CMR
2-Hexanone (MBK)	ND	4.0		ND	16	20	8/17/23	20:43	CMR
Isopropanol	ND	40		ND	98	20	8/17/23	20:43	CMR
Methyl tert-Butyl Ether (MTBE)	ND	1.0		ND	3.6	20	8/17/23	20:43	CMR
Methylene Chloride	ND	10		ND	35	20	8/17/23	20:43	CMR
4-Methyl-2-pentanone (MIBK)	1.6	1.0	Z-01	6.4	4.1	20	8/17/23	20:43	CMR
Naphthalene	ND	1.0		ND	5.2	20	8/17/23	20:43	CMR
Propene	ND	40		ND	69	20	8/17/23	20:43	CMR
Styrene	ND	1.0		ND	4.3	20	8/17/23	20:43	CMR
1,1,2,2-Tetrachloroethane	ND	1.0		ND	6.9	20	8/17/23	20:43	CMR
Tetrachloroethylene	2500	15		17000	100	300	8/17/23	21:11	CMR
Tetrahydrofuran	ND	10		ND	29	20	8/17/23	20:43	CMR
Toluene	ND	1.0		ND	3.8	20	8/17/23	20:43	CMR
1,2,4-Trichlorobenzene	ND	1.0		ND	7.4	20	8/17/23	20:43	CMR
1,1,1-Trichloroethane	ND	1.0		ND	5.5	20	8/17/23	20:43	CMR
1,1,2-Trichloroethane	ND	1.0		ND	5.5	20	8/17/23	20:43	CMR
Trichloroethylene	220	1.0		1200	5.4	20	8/17/23	20:43	CMR
Trichlorofluoromethane (Freon 11)	ND	4.0		ND	22	20	8/17/23	20:43	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0		ND	31	20	8/17/23	20:43	CMR
1,2,4-Trimethylbenzene	ND	1.0		ND	4.9	20	8/17/23	20:43	CMR
1,3,5-Trimethylbenzene	ND	1.0		ND	4.9	20	8/17/23	20:43	CMR
Vinyl Acetate	ND	20		ND	70	20	8/17/23	20:43	CMR
Vinyl Chloride	ND	1.0		ND	2.6	20	8/17/23	20:43	CMR
m&p-Xylene	ND	2.0		ND	8.7	20	8/17/23	20:43	CMR
o-Xylene	ND	1.0		ND	4.3	20	8/17/23	20:43	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.1	70-130	8/17/23 21:11
4-Bromofluorobenzene (1)	88.6	70-130	8/17/23 20:43

Sample Extraction Data**Prep Method:TO-15 Prep****Analytical Method: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
23H2562-01 [SVE Effluent]	B349954	1.5	1	N/A	1000	200	75	08/17/23
23H2562-02 [SVE Influent]	B349954	1.5	1	N/A	1000	200	15	08/17/23
23H2562-02RE1 [SVE Influent]	B349954	1.5	200	5	1000	200	200	08/17/23

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 B349954 - TO-15 Prep

Blank (B349954-BLK1)					Prepared & Analyzed: 08/17/23					
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)	ND	0.020								
1,2-Dichlorobenzene	ND	0.020								
1,3-Dichlorobenzene	ND	0.020								
1,4-Dichlorobenzene	ND	0.020								
Dichlorodifluoromethane (Freon 12)	ND	0.020								
1,1-Dichloroethane	ND	0.020								
1,2-Dichloroethane	ND	0.020								
1,1-Dichloroethylene	ND	0.020								
cis-1,2-Dichloroethylene	ND	0.020								
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		RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B349954 - TO-15 Prep
Blank (B349954-BLK1)

Prepared & Analyzed: 08/17/23

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>7.74</i>	<i>8.00</i>	<i>96.8</i>	<i>70-130</i>
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LCS (B349954-BS1)

Prepared & Analyzed: 08/17/23

Acetone	4.15	5.00	83.0	70-130
Benzene	4.49	5.00	89.9	70-130
Benzyl chloride	4.09	5.00	81.8	70-130
Bromodichloromethane	4.52	5.00	90.4	70-130
Bromoform	5.23	5.00	105	70-130
Bromomethane	5.08	5.00	102	70-130
1,3-Butadiene	5.03	5.00	101	70-130
2-Butanone (MEK)	4.81	5.00	96.2	70-130
Carbon Disulfide	4.67	5.00	93.5	70-130
Carbon Tetrachloride	4.90	5.00	98.0	70-130
Chlorobenzene	4.67	5.00	93.3	70-130
Chloroethane	4.94	5.00	98.9	70-130
Chloroform	5.42	5.00	108	70-130
Chloromethane	4.61	5.00	92.1	70-130
Cyclohexane	4.92	5.00	98.4	70-130
Dibromochloromethane	5.51	5.00	110	70-130
1,2-Dibromoethane (EDB)	4.83	5.00	96.6	70-130
1,2-Dichlorobenzene	4.91	5.00	98.2	70-130
1,3-Dichlorobenzene	5.01	5.00	100	70-130
1,4-Dichlorobenzene	4.66	5.00	93.2	70-130
Dichlorodifluoromethane (Freon 12)	5.78	5.00	116	70-130
1,1-Dichloroethane	5.28	5.00	106	70-130
1,2-Dichloroethane	5.13	5.00	103	70-130
1,1-Dichloroethylene	4.58	5.00	91.7	70-130
cis-1,2-Dichloroethylene	5.12	5.00	102	70-130
trans-1,2-Dichloroethylene	5.46	5.00	109	70-130
1,2-Dichloropropane	4.44	5.00	88.9	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 B349954 - TO-15 Prep											
LCS (B349954-BS1)					Prepared & Analyzed: 08/17/23						
cis-1,3-Dichloropropene	4.76				5.00		95.2	70-130			
trans-1,3-Dichloropropene	5.19				5.00		104	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.62				5.00		92.5	70-130			
1,4-Dioxane	4.10				5.00		82.0	70-130			
Ethanol	4.15				5.00		83.0	70-130			
Ethyl Acetate	4.56				5.00		91.1	70-130			
Ethylbenzene	4.75				5.00		95.0	70-130			
4-Ethyltoluene	5.04				5.00		101	70-130			
Heptane	5.01				5.00		100	70-130			
Hexachlorobutadiene	7.04				4.25		166	* 70-130			L-01, V-20
Hexane	4.88				5.00		97.6	70-130			
2-Hexanone (MBK)	3.97				5.00		79.3	70-130			
Isopropanol	3.48				5.00		69.6	* 70-130			L-03
Methyl tert-Butyl Ether (MTBE)	5.50				5.00		110	70-130			
Methylene Chloride	3.70				5.00		74.0	70-130			
4-Methyl-2-pentanone (MIBK)	4.92				5.00		98.3	70-130			
Naphthalene	4.70				3.68		128	70-130			V-20, Z-01
Propene	6.05				5.00		121	70-130			V-20
Styrene	5.10				5.00		102	70-130			
1,1,2,2-Tetrachloroethane	4.49				5.00		89.9	70-130			
Tetrachloroethylene	4.75				5.00		95.0	70-130			
Tetrahydrofuran	5.20				5.00		104	70-130			
Toluene	4.90				5.00		98.0	70-130			
1,2,4-Trichlorobenzene	4.89				3.90		125	70-130			V-20
1,1,1-Trichloroethane	4.81				5.00		96.1	70-130			
1,1,2-Trichloroethane	4.92				5.00		98.5	70-130			
Trichloroethylene	4.70				5.00		94.1	70-130			
Trichlorofluoromethane (Freon 11)	5.41				5.00		108	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.92				5.00		98.3	70-130			
1,2,4-Trimethylbenzene	5.33				5.00		107	70-130			V-20
1,3,5-Trimethylbenzene	5.61				5.00		112	70-130			V-20
Vinyl Acetate	4.53				5.00		90.7	70-130			
Vinyl Chloride	4.98				5.00		99.6	70-130			
m&p-Xylene	10.5				10.0		105	70-130			
o-Xylene	5.23				5.00		105	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.13				8.00		102	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 B349954 - TO-15 Prep											
Duplicate (B349954-DUP1)		Source: 23H2562-01			Prepared & Analyzed: 08/17/23						
Acetone	3.2	8.0	7.5	19		3.2			1.25	25	
Benzene	0.068	0.20	0.22	0.64		ND				25	
Benzyl chloride	ND	0.80	ND	4.1		ND				25	
Bromodichloromethane	ND	0.20	ND	1.3		ND				25	
Bromoform	ND	0.20	ND	2.1		ND				25	
Bromomethane	ND	0.20	ND	0.78		ND				25	
1,3-Butadiene	ND	0.20	ND	0.44		ND				25	
2-Butanone (MEK)	ND	8.0	ND	24		ND				25	
Carbon Disulfide	2.1	2.0	6.4	6.2		1.9			7.87	25	
Carbon Tetrachloride	ND	0.20	ND	1.3		ND				25	
Chlorobenzene	ND	0.20	ND	0.92		ND				25	
Chloroethane	ND	0.20	ND	0.53		ND				25	
Chloroform	0.18	0.20	0.88	0.98		0.20			8.51	25	
Chloromethane	0.28	0.40	0.58	0.83		0.30			8.22	25	
Cyclohexane	ND	0.20	ND	0.69		ND				25	
Dibromochloromethane	ND	0.20	ND	1.7		ND				25	
1,2-Dibromoethane (EDB)	0.072	0.20	0.55	1.5		0.080			10.5	25	
1,2-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
1,3-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
1,4-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
Dichlorodifluoromethane (Freon 12)	0.61	0.20	3.0	0.99		0.61			0.00	25	
1,1-Dichloroethane	ND	0.20	ND	0.81		ND				25	
1,2-Dichloroethane	ND	0.20	ND	0.81		ND				25	
1,1-Dichloroethylene	ND	0.20	ND	0.79		ND				25	
cis-1,2-Dichloroethylene	48	0.20	190	0.79		46			3.72	25	
trans-1,2-Dichloroethylene	0.54	0.20	2.1	0.79		0.54			0.743	25	
1,2-Dichloropropane	ND	0.20	ND	0.92		ND				25	
cis-1,3-Dichloropropene	ND	0.20	ND	0.91		ND				25	
trans-1,3-Dichloropropene	ND	0.20	ND	0.91		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	ND	1.4		ND				25	
1,4-Dioxane	ND	2.0	ND	7.2		ND				25	
Ethanol	34	8.0	64	15		34			0.0354	25	
Ethyl Acetate	ND	2.0	ND	7.2		ND				25	
Ethylbenzene	ND	0.20	ND	0.87		ND				25	
4-Ethyltoluene	ND	0.20	ND	0.98		ND				25	
Heptane	0.31	0.20	1.3	0.82		0.32			3.77	25	
Hexachlorobutadiene	ND	0.20	ND	2.1		ND				25	
Hexane	ND	8.0	ND	28		ND				25	
2-Hexanone (MBK)	ND	0.80	ND	3.3		ND				25	
Isopropanol	ND	8.0	ND	20		ND				25	L-03
Methyl tert-Butyl Ether (MTBE)	ND	0.20	ND	0.72		ND				25	
Methylene Chloride	ND	2.0	ND	6.9		ND				25	
4-Methyl-2-pentanone (MIBK)	0.26	0.20	1.1	0.82		0.25			4.72	25	
Naphthalene	ND	0.20	ND	1.0		ND				25	Z-01
Propene	ND	8.0	ND	14		ND				25	
Styrene	ND	0.20	ND	0.85		ND				25	

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 B349954 - TO-15 Prep

Duplicate (B349954-DUP1)		Source: 23H2562-01				Prepared & Analyzed: 08/17/23					
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4		ND				25	
Tetrachloroethylene	30	0.20	210	1.4		30			0.303	25	
Tetrahydrofuran	ND	2.0	ND	5.9		ND				25	
Toluene	0.60	0.20	2.3	0.75		0.62			3.28	25	
1,2,4-Trichlorobenzene	ND	0.20	ND	1.5		ND				25	
1,1,1-Trichloroethane	ND	0.20	ND	1.1		ND				25	
1,1,2-Trichloroethane	ND	0.20	ND	1.1		ND				25	
Trichloroethylene	3.0	0.20	16	1.1		2.9			3.21	25	
Trichlorofluoromethane (Freon 11)	0.16	0.80	0.90	4.5		0.18			14.0	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	ND	6.1		ND				25	
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98		ND				25	
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98		ND				25	
Vinyl Acetate	3.4	4.0	12	14		3.2			5.07	25	
Vinyl Chloride	ND	0.20	ND	0.51		ND				25	
m&p-Xylene	ND	0.40	ND	1.7		ND				25	
o-Xylene	ND	0.20	ND	0.87		ND				25	
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.14</i>				<i>8.00</i>		<i>89.3</i>	<i>70-130</i>			

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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-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%.

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 (S092423-CCV1)			Lab File ID: J23A229004.D			Analyzed: 08/17/23 11:53			
Bromochloromethane (1)	281055	2.8				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	874951	3.428				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	772251	5.04				60 - 140		+/-0.50	
LCS (B349954-BS1)			Lab File ID: J23A229005.D			Analyzed: 08/17/23 12:17			
Bromochloromethane (1)	280803	2.8	281055	2.8	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	880541	3.428	874951	3.428	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	763572	5.04	772251	5.04	99	60 - 140	0.0000	+/-0.50	
Blank (B349954-BLK1)			Lab File ID: J23A229008.D			Analyzed: 08/17/23 13:46			
Bromochloromethane (1)	254887	2.779	281055	2.8	91	60 - 140	-0.0210	+/-0.50	
1,4-Difluorobenzene (1)	746253	3.411	874951	3.428	85	60 - 140	-0.0170	+/-0.50	
Chlorobenzene-d5 (1)	667690	5.037	772251	5.04	86	60 - 140	-0.0030	+/-0.50	
SVE Effluent (23H2562-01)			Lab File ID: J23A229015.D			Analyzed: 08/17/23 19:53			
Bromochloromethane (1)	275789	2.785	281055	2.8	98	60 - 140	-0.0150	+/-0.50	
1,4-Difluorobenzene (1)	778285	3.417	874951	3.428	89	60 - 140	-0.0110	+/-0.50	
Chlorobenzene-d5 (1)	766687	5.037	772251	5.04	99	60 - 140	-0.0030	+/-0.50	
Duplicate (B349954-DUP1)			Lab File ID: J23A229016.D			Analyzed: 08/17/23 20:19			
Bromochloromethane (1)	263772	2.785	281055	2.8	94	60 - 140	-0.0150	+/-0.50	
1,4-Difluorobenzene (1)	747950	3.423	874951	3.428	85	60 - 140	-0.0050	+/-0.50	
Chlorobenzene-d5 (1)	757998	5.038	772251	5.04	98	60 - 140	-0.0020	+/-0.50	
SVE Influent (23H2562-02)			Lab File ID: J23A229017.D			Analyzed: 08/17/23 20:43			
Bromochloromethane (1)	259153	2.78	281055	2.8	92	60 - 140	-0.0200	+/-0.50	
1,4-Difluorobenzene (1)	723522	3.417	874951	3.428	83	60 - 140	-0.0110	+/-0.50	
Chlorobenzene-d5 (1)	730924	5.037	772251	5.04	95	60 - 140	-0.0030	+/-0.50	
SVE Influent (23H2562-02RE1)			Lab File ID: J23A229018.D			Analyzed: 08/17/23 21:11			
Bromochloromethane (1)	244887	2.779	281055	2.8	87	60 - 140	-0.0210	+/-0.50	
1,4-Difluorobenzene (1)	703098	3.412	874951	3.428	80	60 - 140	-0.0160	+/-0.50	
Chlorobenzene-d5 (1)	646596	5.035	772251	5.04	84	60 - 140	-0.0050	+/-0.50	

CONTINUING CALIBRATION CHECK

EPA TO-15

S092423-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.62	1.034114	0.9545804		-7.7	30
Benzene	A	5.00	4.95	0.8123645	0.8043312		-1.0	30
Benzyl chloride	L	5.00	5.37	0.5056852	0.8199614		7.4	30
Bromodichloromethane	A	5.00	5.26	0.6094342	0.6405278		5.1	30
Bromoform	A	5.00	6.00	0.4573839	0.5487439		20.0	30
Bromomethane	A	5.00	5.46	0.6761959	0.7379168		9.1	30
1,3-Butadiene	A	5.00	5.50	0.5092257	0.56001		10.0	30
2-Butanone (MEK)	A	5.00	5.27	1.148647	1.209756		5.3	30
Carbon Disulfide	A	5.00	5.02	2.001154	2.00808		0.3	30
Carbon Tetrachloride	A	5.00	5.97	0.5037067	0.6013539		19.4	30
Chlorobenzene	A	5.00	5.31	0.7622773	0.8101117		6.3	30
Chloroethane	A	5.00	5.36	0.4202137	0.4500244		7.1	30
Chloroform	A	5.00	5.91	1.577837	1.864478		18.2	30
Chloromethane	A	5.00	4.49	0.5966374	0.5360374		-10.2	30
Cyclohexane	A	5.00	5.25	0.3246406	0.3407002		4.9	30
Dibromochloromethane	A	5.00	6.19	0.5189836	0.6429143		23.9	30
1,2-Dibromoethane (EDB)	A	5.00	5.67	0.4960864	0.5625135		13.4	30
1,2-Dichlorobenzene	A	5.00	6.19	0.4911951	0.6081878		23.8	30
1,3-Dichlorobenzene	A	5.00	6.19	0.5456808	0.6751567		23.7	30
1,4-Dichlorobenzene	A	5.00	5.62	0.5309926	0.5964548		12.3	30
Dichlorodifluoromethane (Freon 12)	A	5.00	6.47	1.809285	2.33971		29.3	30
1,1-Dichloroethane	A	5.00	5.80	1.317427	1.527302		15.9	30
1,2-Dichloroethane	A	5.00	5.66	0.9730911	1.102537		13.3	30
1,1-Dichloroethylene	A	5.00	5.06	1.146845	1.159915		1.1	30
cis-1,2-Dichloroethylene	A	5.00	5.74	0.9524103	1.092654		14.7	30
trans-1,2-Dichloroethylene	A	5.00	5.90	1.02979	1.214549		17.9	30
1,2-Dichloropropane	A	5.00	4.97	0.3033695	0.301285		-0.7	30
cis-1,3-Dichloropropene	A	5.00	5.56	0.4042769	0.4499781		11.3	30
trans-1,3-Dichloropropene	A	5.00	6.07	0.3279415	0.3983144		21.5	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.38	1.964888	2.113454		7.6	30
1,4-Dioxane	A	5.00	4.87	0.1624784	0.1581291		-2.7	30
Ethanol	A	5.00	4.63	0.1724202	0.1595816		-7.4	30
Ethyl Acetate	A	5.00	5.70	0.2040016	0.2325182		14.0	30
Ethylbenzene	A	5.00	5.39	1.293794	1.394347		7.8	30
4-Ethyltoluene	A	5.00	5.84	1.173601	1.37173		16.9	30
Heptane	A	5.00	5.31	0.2390228	0.2539077		6.2	30
Hexachlorobutadiene	A	5.00	8.32	0.2261563	0.3762714		66.4	30 *
Hexane	L	5.00	5.23	0.6738496	0.7074658		4.6	30

CONTINUING CALIBRATION CHECK

EPA TO-15

S092423-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.88	0.4320676	0.4221094		-2.3	30
Isopropanol	A	5.00	4.49	1.163166	1.044311		-10.2	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.97	1.752887	2.094411		19.5	30
Methylene Chloride	A	5.00	4.25	0.8161184	0.693729		-15.0	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.70	0.1991676	0.2270463		14.0	30
Naphthalene	A	5.00	6.92	0.4140914	0.5729018		38.4	30 *
Propene	A	5.00	6.64	0.3783566	0.502091		32.7	30 *
Styrene	A	5.00	6.21	0.6193387	0.7697622		24.3	30
1,1,2,2-Tetrachloroethane	A	5.00	5.48	0.7875453	0.8626584		9.5	30
Tetrachloroethylene	A	5.00	5.30	0.4061033	0.4306496		6.0	30
Tetrahydrofuran	A	5.00	5.41	0.5602263	0.6058714		8.1	30
Toluene	A	5.00	5.47	0.9952737	1.08862		9.4	30
1,2,4-Trichlorobenzene	A	5.00	6.51	0.1951236	0.2539589		30.2	30 *
1,1,1-Trichloroethane	A	5.00	5.56	0.5148362	0.5723566		11.2	30
1,1,2-Trichloroethane	A	5.00	5.47	0.3494055	0.3824311		9.5	30
Trichloroethylene	A	5.00	5.31	0.3469588	0.3682016		6.1	30
Trichlorofluoromethane (Freon 11)	A	5.00	6.01	1.832227	2.202883		20.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.45	1.363757	1.486371		9.0	30
1,2,4-Trimethylbenzene	A	5.00	6.62	0.9035781	1.196098		32.4	30 *
1,3,5-Trimethylbenzene	A	5.00	6.63	0.9651619	1.279505		32.6	30 *
Vinyl Acetate	A	5.00	3.93	1.160867	0.9133244		-21.3	30
Vinyl Chloride	A	5.00	5.44	0.7330867	0.7974923		8.8	30
m&p-Xylene	A	10.0	12.1	1.010218	1.218437		20.6	30
o-Xylene	A	5.00	5.99	0.9862305	1.181127		19.8	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



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8/16/23 at 3:09 PM

Signed for by: CCOUTURE

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DELIVERY STATUS

Delivered 

TRACKING ID

773001979054  

FROM
YAPHANK, NY US

WE HAVE YOUR PACKAGE
HOLBROOK, NY
8/15/23 1:29 PM

IN TRANSIT
WINDSOR, CT
8/16/23 7:09 AM

OUT FOR DELIVERY
WINDSOR, CT
8/16/23 7:39 AM

DELIVERED
East Longmeadow, MA US
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8/16/23 at 3:09 PM

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

Effective Date: 07/13/2023

Log In Back-Sheet

Client EnviroTRACProject Front St OUI

MCP/RCP Required _____

Deliverable Package Requirement _____

Location Westbury, NY

PWSID# (When Applicable) _____

Arrival Method FedEx 7730 0197 9054Received By / Date / Time KMC 8/16/23 1509Back-Sheet By / Date / Time KMC 8/16/23 1550

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:

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	2	3L	2	15min	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s	5	10	15	Regs #'s	5	10	15
1 2749	6	11	16	1 4303	6	11	16
2 2739	7	12	17	2 4205	7	12	17
3	8	13	18	3	8	13	18
4	9	14	19	4	9	14	19
Unused Media	4	9	14	Pufs/TO-17's	5	10	15
1	5	10	15	1	6	11	16
2	6	11	16	2	7	12	17
3	7	12	17	3	8	13	18
4	8	13	18	4	9	14	19