

August 9, 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: July 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 July 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 July, no alarm calls were received.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on July 17. 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 [10,010 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	July 2023 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	1.5
Tetrachloroethene	1,000	38,000	6.0
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 July except for an outage from a storm that caused a shutdown from June 30 at 7:00 PM to July 4 at 7:30 AM. To date, over 382 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.

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

Ensafe-Frost Street
101 Frost Street
Westbury, NY

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

Date: 17-Jul
Weather / Temp: Sunny / 90 DEG
Technician / Operator: JW

Arrival Time: 10:30
Departure Time: 11:30

System Status											
		Arrival		Departure				Arrival		Departure	
SVE Blower 1 (ON/OFF)		OFF		OFF		AS Compressor 1 (ON/OFF)		ON		ON	
SVE Blower 2 (ON/OFF)		ON		ON		AS Compressor 2 (ON/OFF)		OFF		OFF	
				Air Cooler (ON/OFF)				ON		ON	
Soil Vapor Extraction System											
Blower Air Velocity/Flow Rate (fpm)/(cfm)		4400		864		Blower 1 Total Runtime (hrs)				70,820.5	
Blower 1 Fresh Air Valve Open (%)		0				Blower 2 Total Runtime (hrs)				70,443.5	
Blower 2 Fresh Air Valve Open (%)		0				Blower 1 Air Filter Differential Pressure ("H2O)				0	
Blower Inlet Vacuum ("H2O)		51				Blower 2 Air Filter Differential Pressure ("H2O)				0	
Moisture Separator Vacuum ("Hg)		3				VGAC-1 Influent PID (ppm)				1	
VGAC-1 Influent Vacuum ("H2O)		36				VGAC-1 Effluent PID (ppm)				0	
VGAC-1 Effluent Vacuum ("H2O)		44				VGAC-2 Influent PID (ppm)				1	
VGAC-2 Influent Vacuum ("H2O)		35				VGAC-2 Effluent PID (ppm)				0	
VGAC-2 Effluent Vacuum ("H2O)		39				VGAC-3 Influent PID (ppm)				0	
VGAC-3 Influent Vacuum ("H2O)		50				VGAC-3 Effluent PID (ppm)				0	
VGAC-3 Effluent Vacuum ("H2O)		52				Blower Effluent PID (ppm)				0	
VGAC-3 Influent Temp (DegF)		-				Transfer Pump Total Runtime (hrs)				25,100.4	
Blower Effluent Pressure ("H2O)		8				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)	42	6500	142	1	SVE-4	("H2O)/(FPM)/(cfm)/(ppm)	35	4000	87	0
SVE-2	("H2O)/(FPM)/(cfm)/(ppm)	44	4000	87	1	SVE-5	("H2O)/(FPM)/(cfm)/(ppm)	46	2850	62	0
SVE-3	("H2O)/(FPM)/(cfm)/(ppm)	36	4600	100	0	SVE-6B	("H2O)/(FPM)/(cfm)/(ppm)	42	6000	131	3
SVE-3A	("H2O)/(FPM)/(cfm)/(ppm)	33	4000	87	0	SVE-7	("H2O)/(FPM)/(cfm)/(ppm)	37	2900	63	0
Air Sparge System											
Compressor 1 Pressure (psi)		14				Compressor 2 Pressure (psi)		Off			
Compressor 1 Runtime (hrs)		19,439.1				Compressor 2 Temperature (degF)		Off			
Air Cooler Inlet Temperature (degF)		220				Compressor 2 Regulator Pressure (psi)		Off			
Air Cooler Outlet Temperature (degF)		108				Compressor 2 Runtime (hrs)		40,734			
Air Cooler Inlet Pressure (psi)		15				AS Manifold Temperature (degF)		104			
Air Cooler Outlet Pressure (psi)		13				AS Manifold Pressure		12			
AS Manifold Legs - Pressure/Flow Rate											
		Pressure		Flow Rate				Pressure		Flow Rate	
AS-1	(psi)/(cfm)	2		8		AS-11	(psi)/(cfm)	12		8	
AS-2	(psi)/(cfm)	0		10		AS-12B	(psi)/(cfm)	15		14	
AS-3	(psi)/(cfm)	0		10		AS-13B	(psi)/(cfm)	14		13	
AS-4	(psi)/(cfm)	15		10		AS-14	(psi)/(cfm)	15		11	
AS-5	(psi)/(cfm)	14		10		AS-15	(psi)/(cfm)	15		12	
AS-6	(psi)/(cfm)	15		13		AS-16B	(psi)/(cfm)	14		11	
AS-7	(psi)/(cfm)	15		14		AS-17	(psi)/(cfm)	16		10	
AS-8	(psi)/(cfm)	11		12		AS-18	(psi)/(cfm)	15		13	
AS-9	(psi)/(cfm)	15		10		AS-19	(psi)/(cfm)	13		8	
AS-10B	(psi)/(cfm)	14		10							

Notes, Comments & Observations:

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: 17-Jul
Weather / Temp: Sunny / 90 DEG
Technician / Operator: JW

Arrival Time: 10:30
Departure Time: 11:30

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	24.8 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	Y	24 A
-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 1/31/23
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	Y	25 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	

Operation & Maintenance Data Sheet
 Ensaf-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: 31-Jul
 Weather / Temp: Sunny / 80 DEG
 Technician / Operator: JW

Arrival Time: 9:00
 Departure Time: 11:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	OFF		OFF		AS Compressor 1 (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	ON		ON		AS Compressor 2 (ON/OFF)	OFF		OFF	
					Air Cooler (ON/OFF)	ON		ON	
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4400		864		Blower 1 Total Runtime (hrs)	70,988.1			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	70,610.7			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	47				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3				VGAC-1 Influent PID (ppm)	1			
VGAC-1 Influent Vacuum ("H2O)	38				VGAC-1 Effluent PID (ppm)	0			
VGAC-1 Effluent Vacuum ("H2O)	40				VGAC-2 Influent PID (ppm)	1			
VGAC-2 Influent Vacuum ("H2O)	38				VGAC-2 Effluent PID (ppm)	0			
VGAC-2 Effluent Vacuum ("H2O)	44				VGAC-3 Influent PID (ppm)	0			
VGAC-3 Influent Vacuum ("H2O)	48				VGAC-3 Effluent PID (ppm)	0			
VGAC-3 Effluent Vacuum ("H2O)	50				Blower Effluent PID (ppm)	0			
VGAC-3 Influent Temp (DegF)	-				Transfer Pump Total Runtime (hrs)	25,100.4			
Blower Effluent Pressure ("H2O)	8				Condensate Storage Tank Level (gal)	50			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	<u>Vacuum</u>	<u>Velocity</u>	<u>Flow Rate</u>	<u>PID</u>		<u>Vacuum</u>	<u>Velocity</u>	<u>Flow Rate</u>	<u>PID</u>
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	42	6200	135		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	34	4000	87	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	43	4000	87		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	46	2800	61	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	35	4000	87		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	32	4000	87		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	35	2900	63	
Air Sparge System									
Compressor 1 Pressure (psi)	14				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	19,774.0				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	210				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	98				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	16				AS Manifold Temperature (degF)	90			
Air Cooler Outlet Pressure (psi)	15				AS Manifold Pressure	12			
AS Manifold Legs - Pressure/Flow Rate									
	<u>Pressure</u>		<u>Flow Rate</u>			<u>Pressure</u>		<u>Flow Rate</u>	
AS-1 (psi)/(cfm)	2		10		AS-11 (psi)/(cfm)	13		7	
AS-2 (psi)/(cfm)	0		10		AS-12B (psi)/(cfm)	15		14	
AS-3 (psi)/(cfm)	0		10		AS-13B (psi)/(cfm)	14		13	
AS-4 (psi)/(cfm)	15		10		AS-14 (psi)/(cfm)	15		11	
AS-5 (psi)/(cfm)	15		10		AS-15 (psi)/(cfm)	15		12	
AS-6 (psi)/(cfm)	15		12		AS-16B (psi)/(cfm)	14		11	
AS-7 (psi)/(cfm)	15		11		AS-17 (psi)/(cfm)	16		10	
AS-8 (psi)/(cfm)	12		13		AS-18 (psi)/(cfm)	15		14	
AS-9 (psi)/(cfm)	15		10		AS-19 (psi)/(cfm)	13		8	
AS-10B (psi)/(cfm)	14		10						

Notes, Comments & Observations:

Performed semi-annual claw pump maintenance.

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: 31-Jul
Weather / Temp: Sunny / 80 DEG
Technician / Operator: JW

Arrival Time: 9:00
Departure Time: 11:00

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	23.6 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	Y	Oil changed on 7/31/23
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	Y	25 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 8, 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: 23G2269

Enclosed are results of analyses for samples as received by the laboratory on July 18, 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: 8/8/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23G2269

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	23G2269-01	Soil Gas		- EPA TO-15	
SVE Influent	23G2269-02	Soil Gas		- EPA TO-15	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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-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:**1,1,2,2-Tetrachloroethane**

23G2269-01[SVE Effluent], 23G2269-02[SVE Influent], B347533-BLK1, B347533-BS1

2-Hexanone (MBK)

23G2269-01[SVE Effluent], 23G2269-02[SVE Influent], B347533-BLK1, B347533-BS1

Benzyl chloride

23G2269-01[SVE Effluent], 23G2269-02[SVE Influent], B347533-BLK1, B347533-BS1

V-05

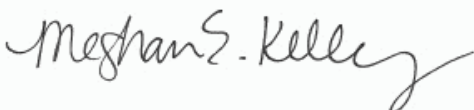
Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**2-Hexanone (MBK)**

23G2269-01[SVE Effluent], 23G2269-02[SVE Influent], B347533-BLK1, B347533-BS1, S091257-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

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Westbury, NY
 Date Received: 7/18/2023
Field Sample #: SVE Effluent
Sample ID: 23G2269-01
 Sample Matrix: Soil Gas
 Sampled: 7/17/2023 11:45

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2381
 Canister Size: 3 liter
 Flow Controller ID: 4615
 Sample Type: 15 min

Work Order: 23G2269
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -5.9
 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	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	ND	8.0		ND	19	4	7/27/23 20:24	TPH
Benzene	ND	0.20		ND	0.64	4	7/27/23 20:24	TPH
Benzyl chloride	ND	0.80	L-03	ND	4.1	4	7/27/23 20:24	TPH
Bromodichloromethane	ND	0.20		ND	1.3	4	7/27/23 20:24	TPH
Bromoform	ND	0.20		ND	2.1	4	7/27/23 20:24	TPH
Bromomethane	ND	0.20		ND	0.78	4	7/27/23 20:24	TPH
1,3-Butadiene	ND	0.20		ND	0.44	4	7/27/23 20:24	TPH
2-Butanone (MEK)	ND	8.0		ND	24	4	7/27/23 20:24	TPH
Carbon Disulfide	ND	2.0		ND	6.2	4	7/27/23 20:24	TPH
Carbon Tetrachloride	ND	0.20		ND	1.3	4	7/27/23 20:24	TPH
Chlorobenzene	ND	0.20		ND	0.92	4	7/27/23 20:24	TPH
Chloroethane	ND	0.20		ND	0.53	4	7/27/23 20:24	TPH
Chloroform	ND	0.20		ND	0.98	4	7/27/23 20:24	TPH
Chloromethane	ND	0.40		ND	0.83	4	7/27/23 20:24	TPH
Cyclohexane	ND	0.20		ND	0.69	4	7/27/23 20:24	TPH
Dibromochloromethane	ND	0.20		ND	1.7	4	7/27/23 20:24	TPH
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	7/27/23 20:24	TPH
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	7/27/23 20:24	TPH
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	7/27/23 20:24	TPH
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	7/27/23 20:24	TPH
Dichlorodifluoromethane (Freon 12)	0.64	0.20		3.2	0.99	4	7/27/23 20:24	TPH
1,1-Dichloroethane	ND	0.20		ND	0.81	4	7/27/23 20:24	TPH
1,2-Dichloroethane	ND	0.20		ND	0.81	4	7/27/23 20:24	TPH
1,1-Dichloroethylene	ND	0.20		ND	0.79	4	7/27/23 20:24	TPH
cis-1,2-Dichloroethylene	46	0.20		180	0.79	4	7/27/23 20:24	TPH
trans-1,2-Dichloroethylene	0.47	0.20		1.9	0.79	4	7/27/23 20:24	TPH
1,2-Dichloropropane	ND	0.20		ND	0.92	4	7/27/23 20:24	TPH
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	7/27/23 20:24	TPH
trans-1,3-Dichloropropene	ND	0.20		ND	0.91	4	7/27/23 20:24	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20		ND	1.4	4	7/27/23 20:24	TPH
1,4-Dioxane	ND	2.0		ND	7.2	4	7/27/23 20:24	TPH
Ethanol	25	8.0		48	15	4	7/27/23 20:24	TPH
Ethyl Acetate	ND	2.0		ND	7.2	4	7/27/23 20:24	TPH
Ethylbenzene	ND	0.20		ND	0.87	4	7/27/23 20:24	TPH
4-Ethyltoluene	ND	0.20		ND	0.98	4	7/27/23 20:24	TPH
Heptane	ND	0.20		ND	0.82	4	7/27/23 20:24	TPH
Hexachlorobutadiene	ND	0.20		ND	2.1	4	7/27/23 20:24	TPH

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ANALYTICAL RESULTS

Project Location: Westbury, NY
Date Received: 7/18/2023
Field Sample #: SVE Effluent
Sample ID: 23G2269-01
Sample Matrix: Soil Gas
Sampled: 7/17/2023 11:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 2381
Canister Size: 3 liter
Flow Controller ID: 4615
Sample Type: 15 min

Work Order: 23G2269
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5.9
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		Results	RL		Analyzed		
Hexane	ND	8.0	V-05, L-03	ND	28	4	7/27/23	20:24	TPH
2-Hexanone (MBK)	ND	0.80		ND	3.3	4	7/27/23	20:24	TPH
Isopropanol	ND	8.0		ND	20	4	7/27/23	20:24	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	7/27/23	20:24	TPH
Methylene Chloride	ND	2.0		ND	6.9	4	7/27/23	20:24	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.20	L-03	ND	0.82	4	7/27/23	20:24	TPH
Naphthalene	ND	0.20		ND	1.0	4	7/27/23	20:24	TPH
Propene	ND	8.0		ND	14	4	7/27/23	20:24	TPH
Styrene	ND	0.20		ND	0.85	4	7/27/23	20:24	TPH
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	7/27/23	20:24	TPH
Tetrachloroethylene	0.89	0.20		6.0	1.4	4	7/27/23	20:24	TPH
Tetrahydrofuran	ND	2.0		ND	5.9	4	7/27/23	20:24	TPH
Toluene	0.78	0.20		3.0	0.75	4	7/27/23	20:24	TPH
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	4	7/27/23	20:24	TPH
1,1,1-Trichloroethane	ND	0.20		ND	1.1	4	7/27/23	20:24	TPH
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	7/27/23	20:24	TPH
Trichloroethylene	0.29	0.20		1.5	1.1	4	7/27/23	20:24	TPH
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	7/27/23	20:24	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	7/27/23	20:24	TPH
1,2,4-Trimethylbenzene	ND	0.20		ND	0.98	4	7/27/23	20:24	TPH
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98	4	7/27/23	20:24	TPH	
Vinyl Acetate	ND	4.0	ND	14	4	7/27/23	20:24	TPH	
Vinyl Chloride	ND	0.20	ND	0.51	4	7/27/23	20:24	TPH	
m&p-Xylene	ND	0.40	ND	1.7	4	7/27/23	20:24	TPH	
o-Xylene	ND	0.20	ND	0.87	4	7/27/23	20:24	TPH	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.0	70-130	7/27/23 20:24

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ANALYTICAL RESULTS

Project Location: Westbury, NY
Date Received: 7/18/2023
Field Sample #: SVE Influent
Sample ID: 23G2269-02
Sample Matrix: Soil Gas
Sampled: 7/17/2023 11:23

Sample Description/Location:
Sub Description/Location:
Canister ID: 2431
Canister Size: 3 liter
Flow Controller ID: 4616
Sample Type: 15 min

Work Order: 23G2269
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
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		Results	RL		Analyzed		
Acetone	13	8.0	L-03	31	19	4	7/27/23	20:50	TPH
Benzene	ND	0.20		ND	0.64	4	7/27/23	20:50	TPH
Benzyl chloride	ND	0.80		ND	4.1	4	7/27/23	20:50	TPH
Bromodichloromethane	ND	0.20		ND	1.3	4	7/27/23	20:50	TPH
Bromoform	ND	0.20		ND	2.1	4	7/27/23	20:50	TPH
Bromomethane	ND	0.20		ND	0.78	4	7/27/23	20:50	TPH
1,3-Butadiene	ND	0.20		ND	0.44	4	7/27/23	20:50	TPH
2-Butanone (MEK)	ND	8.0		ND	24	4	7/27/23	20:50	TPH
Carbon Disulfide	ND	2.0		ND	6.2	4	7/27/23	20:50	TPH
Carbon Tetrachloride	ND	0.20		ND	1.3	4	7/27/23	20:50	TPH
Chlorobenzene	ND	0.20	ND	0.92	4	7/27/23	20:50	TPH	
Chloroethane	ND	0.20	ND	0.53	4	7/27/23	20:50	TPH	
Chloroform	ND	0.20	ND	0.98	4	7/27/23	20:50	TPH	
Chloromethane	0.55	0.40	1.1	0.83	4	7/27/23	20:50	TPH	
Cyclohexane	0.32	0.20	1.1	0.69	4	7/27/23	20:50	TPH	
Dibromochloromethane	ND	0.20	ND	1.7	4	7/27/23	20:50	TPH	
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5	4	7/27/23	20:50	TPH	
1,2-Dichlorobenzene	ND	0.20	ND	1.2	4	7/27/23	20:50	TPH	
1,3-Dichlorobenzene	ND	0.20	ND	1.2	4	7/27/23	20:50	TPH	
1,4-Dichlorobenzene	ND	0.20	ND	1.2	4	7/27/23	20:50	TPH	
Dichlorodifluoromethane (Freon 12)	0.62	0.20	3.1	0.99	4	7/27/23	20:50	TPH	
1,1-Dichloroethane	ND	0.20	ND	0.81	4	7/27/23	20:50	TPH	
1,2-Dichloroethane	ND	0.20	ND	0.81	4	7/27/23	20:50	TPH	
1,1-Dichloroethylene	ND	0.20	ND	0.79	4	7/27/23	20:50	TPH	
cis-1,2-Dichloroethylene	41	0.20	160	0.79	4	7/27/23	20:50	TPH	
trans-1,2-Dichloroethylene	0.42	0.20	1.7	0.79	4	7/27/23	20:50	TPH	
1,2-Dichloropropane	ND	0.20	ND	0.92	4	7/27/23	20:50	TPH	
cis-1,3-Dichloropropene	ND	0.20	ND	0.91	4	7/27/23	20:50	TPH	
trans-1,3-Dichloropropene	ND	0.20	ND	0.91	4	7/27/23	20:50	TPH	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	ND	1.4	4	7/27/23	20:50	TPH	
1,4-Dioxane	ND	2.0	ND	7.2	4	7/27/23	20:50	TPH	
Ethanol	12	8.0	22	15	4	7/27/23	20:50	TPH	
Ethyl Acetate	ND	2.0	ND	7.2	4	7/27/23	20:50	TPH	
Ethylbenzene	ND	0.20	ND	0.87	4	7/27/23	20:50	TPH	
4-Ethyltoluene	ND	0.20	ND	0.98	4	7/27/23	20:50	TPH	
Heptane	0.23	0.20	0.95	0.82	4	7/27/23	20:50	TPH	
Hexachlorobutadiene	ND	0.20	ND	2.1	4	7/27/23	20:50	TPH	

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ANALYTICAL RESULTS

Project Location: Westbury, NY
Date Received: 7/18/2023
Field Sample #: SVE Influent
Sample ID: 23G2269-02
Sample Matrix: Soil Gas
Sampled: 7/17/2023 11:23

Sample Description/Location:
Sub Description/Location:
Canister ID: 2431
Canister Size: 3 liter
Flow Controller ID: 4616
Sample Type: 15 min

Work Order: 23G2269
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
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		Results	RL		Analyzed		
Hexane	ND	8.0	L-03, V-05	ND	28	4	7/27/23	20:50	TPH
2-Hexanone (MBK)	ND	0.80		ND	3.3	4	7/27/23	20:50	TPH
Isopropanol	ND	8.0		ND	20	4	7/27/23	20:50	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	7/27/23	20:50	TPH
Methylene Chloride	ND	2.0		ND	6.9	4	7/27/23	20:50	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.20	L-03	ND	0.82	4	7/27/23	20:50	TPH
Naphthalene	ND	0.20		ND	1.0	4	7/27/23	20:50	TPH
Propene	ND	8.0		ND	14	4	7/27/23	20:50	TPH
Styrene	ND	0.20		ND	0.85	4	7/27/23	20:50	TPH
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	7/27/23	20:50	TPH
Tetrachloroethylene	1400	15		9300	100	300	7/27/23	21:17	TPH
Tetrahydrofuran	ND	2.0		ND	5.9	4	7/27/23	20:50	TPH
Toluene	1.7	0.20		6.4	0.75	4	7/27/23	20:50	TPH
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	4	7/27/23	20:50	TPH
1,1,1-Trichloroethane	ND	0.20		ND	1.1	4	7/27/23	20:50	TPH
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	7/27/23	20:50	TPH
Trichloroethylene	100	0.20		550	1.1	4	7/27/23	20:50	TPH
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	7/27/23	20:50	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	7/27/23	20:50	TPH
1,2,4-Trimethylbenzene	ND	0.20		ND	0.98	4	7/27/23	20:50	TPH
1,3,5-Trimethylbenzene	ND	0.20		ND	0.98	4	7/27/23	20:50	TPH
Vinyl Acetate	ND	4.0		ND	14	4	7/27/23	20:50	TPH
Vinyl Chloride	ND	0.20		ND	0.51	4	7/27/23	20:50	TPH
m&p-Xylene	ND	0.40		ND	1.7	4	7/27/23	20:50	TPH
o-Xylene	ND	0.20		ND	0.87	4	7/27/23	20:50	TPH
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	94.9			70-130 7/27/23 21:17					
4-Bromofluorobenzene (1)	91.4			70-130 7/27/23 20:50					

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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
23G2269-01 [SVE Effluent]	B347533	1.5	1	N/A	1000	200	75	07/27/23
23G2269-02 [SVE Influent]	B347533	1.5	1	N/A	1000	200	75	07/27/23
23G2269-02RE1 [SVE Influent]	B347533	1.5	200	5	1000	200	200	07/27/23

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result		Limits		Limit	
Batch B347533 - TO-15 Prep											
Blank (B347533-BLK1)					Prepared & Analyzed: 07/27/23						
Acetone	ND	0.80									
Benzene	ND	0.020									
Benzyl chloride	ND	0.080									L-03
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									L-03, V-05
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									
Propene	ND	0.80									
Styrene	ND	0.020									

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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 B347533 - TO-15 Prep										
Blank (B347533-BLK1)					Prepared & Analyzed: 07/27/23					
1,1,2,2-Tetrachloroethane	ND	0.020								L-03
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)	7.75				8.00		96.9	70-130		
LCS (B347533-BS1)					Prepared & Analyzed: 07/27/23					
Acetone	4.12				5.00		82.4	70-130		L-03
Benzene	3.83				5.00		76.7	70-130		
Benzyl chloride	3.15				5.00	63.0	* 70-130			
Bromodichloromethane	3.93				5.00	78.6	70-130			
Bromoform	4.52				5.00	90.5	70-130			
Bromomethane	5.26				5.00	105	70-130			
1,3-Butadiene	4.69				5.00	93.8	70-130			
2-Butanone (MEK)	4.44				5.00	88.7	70-130			
Carbon Disulfide	4.65				5.00	93.1	70-130			
Carbon Tetrachloride	4.69				5.00	93.8	70-130			
Chlorobenzene	4.07				5.00	81.5	70-130			
Chloroethane	4.61				5.00	92.2	70-130			
Chloroform	5.49				5.00	110	70-130			
Chloromethane	3.89				5.00	77.7	70-130			
Cyclohexane	4.07				5.00	81.4	70-130			
Dibromochloromethane	4.78				5.00	95.7	70-130			
1,2-Dibromoethane (EDB)	4.43				5.00	88.6	70-130			
1,2-Dichlorobenzene	4.10				5.00	82.0	70-130			
1,3-Dichlorobenzene	4.32				5.00	86.3	70-130			
1,4-Dichlorobenzene	4.33				5.00	86.7	70-130			
Dichlorodifluoromethane (Freon 12)	6.18				5.00	124	70-130			
1,1-Dichloroethane	5.11				5.00	102	70-130			
1,2-Dichloroethane	4.95				5.00	99.1	70-130			
1,1-Dichloroethylene	4.59				5.00	91.8	70-130			
cis-1,2-Dichloroethylene	5.04				5.00	101	70-130			
trans-1,2-Dichloroethylene	5.13				5.00	103	70-130			
1,2-Dichloropropane	3.54				5.00	70.9	70-130			

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B347533 - TO-15 Prep											
LCS (B347533-BS1)					Prepared & Analyzed: 07/27/23						
cis-1,3-Dichloropropene	4.02				5.00		80.4	70-130			
trans-1,3-Dichloropropene	4.25				5.00		84.9	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.15				5.00		103	70-130			
1,4-Dioxane	4.10				5.00		82.1	70-130			
Ethanol	6.14				5.00		123	70-130			
Ethyl Acetate	4.70				5.00		94.0	70-130			
Ethylbenzene	3.92				5.00		78.4	70-130			
4-Ethyltoluene	4.01				5.00		80.2	70-130			
Heptane	3.60				5.00		72.1	70-130			
Hexachlorobutadiene	4.81				4.25		113	70-130			
Hexane	4.28				5.00		85.6	70-130			
2-Hexanone (MBK)	3.24				5.00		64.9	* 70-130			L-03, V-05
Isopropanol	4.37				5.00		87.4	70-130			
Methyl tert-Butyl Ether (MTBE)	5.55				5.00		111	70-130			
Methylene Chloride	3.68				5.00		73.6	70-130			
4-Methyl-2-pentanone (MIBK)	3.75				5.00		74.9	70-130			
Naphthalene	4.37				3.68		119	70-130			
Propene	5.74				5.00		115	70-130			
Styrene	4.43				5.00		88.7	70-130			
1,1,2,2-Tetrachloroethane	3.49				5.00		69.7	* 70-130			L-03
Tetrachloroethylene	4.14				5.00		82.9	70-130			
Tetrahydrofuran	4.33				5.00		86.6	70-130			
Toluene	4.10				5.00		81.9	70-130			
1,2,4-Trichlorobenzene	4.12				3.90		106	70-130			
1,1,1-Trichloroethane	4.34				5.00		86.7	70-130			
1,1,2-Trichloroethane	4.17				5.00		83.4	70-130			
Trichloroethylene	4.23				5.00		84.6	70-130			
Trichlorofluoromethane (Freon 11)	5.76				5.00		115	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.25				5.00		105	70-130			
1,2,4-Trimethylbenzene	4.40				5.00		88.0	70-130			
1,3,5-Trimethylbenzene	4.66				5.00		93.1	70-130			
Vinyl Acetate	3.75				5.00		75.0	70-130			
Vinyl Chloride	4.66				5.00		93.1	70-130			
m&p-Xylene	8.61				10.0		86.1	70-130			
o-Xylene	4.27				5.00		85.4	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.98				8.00		99.8	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**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-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-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

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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
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 (S091257-CCV1)			Lab File ID: J23A208004.D			Analyzed: 07/27/23 09:55			
Bromochloromethane (1)	209494	2.782	289065	2.788	72	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	790911	3.419	804638	3.418	98	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	698069	5.036	717694	5.036	97	60 - 140	0.0000	+/-0.50	
LCS (B347533-BS1)			Lab File ID: J23A208005.D			Analyzed: 07/27/23 10:20			
Bromochloromethane (1)	210487	2.785	209494	2.782	100	60 - 140	0.0030	+/-0.50	
1,4-Difluorobenzene (1)	802393	3.418	790911	3.419	101	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	705994	5.036	698069	5.036	101	60 - 140	0.0000	+/-0.50	
Blank (B347533-BLK1)			Lab File ID: J23A208008.D			Analyzed: 07/27/23 11:50			
Bromochloromethane (1)	203429	2.766	209494	2.782	97	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	697566	3.406	790911	3.419	88	60 - 140	-0.0130	+/-0.50	
Chlorobenzene-d5 (1)	627404	5.033	698069	5.036	90	60 - 140	-0.0030	+/-0.50	
SVE Effluent (23G2269-01)			Lab File ID: J23A208026.D			Analyzed: 07/27/23 20:24			
Bromochloromethane (1)	214012	2.772	209494	2.782	102	60 - 140	-0.0100	+/-0.50	
1,4-Difluorobenzene (1)	754175	3.409	790911	3.419	95	60 - 140	-0.0100	+/-0.50	
Chlorobenzene-d5 (1)	713656	5.033	698069	5.036	102	60 - 140	-0.0030	+/-0.50	
SVE Influent (23G2269-02)			Lab File ID: J23A208027.D			Analyzed: 07/27/23 20:50			
Bromochloromethane (1)	209569	2.772	209494	2.782	100	60 - 140	-0.0100	+/-0.50	
1,4-Difluorobenzene (1)	739429	3.409	790911	3.419	93	60 - 140	-0.0100	+/-0.50	
Chlorobenzene-d5 (1)	730802	5.032	698069	5.036	105	60 - 140	-0.0040	+/-0.50	
SVE Influent (23G2269-02RE1)			Lab File ID: J23A208028.D			Analyzed: 07/27/23 21:17			
Bromochloromethane (1)	203581	2.766	209494	2.782	97	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	694144	3.405	790911	3.419	88	60 - 140	-0.0140	+/-0.50	
Chlorobenzene-d5 (1)	650724	5.032	698069	5.036	93	60 - 140	-0.0040	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S091257-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.16	1.034114	0.8601602		-16.8	30
Benzene	A	5.00	4.06	0.8123645	0.6600288		-18.8	30
Benzyl chloride	L	5.00	3.90	0.5056852	0.5886432		-22.1	30
Bromodichloromethane	A	5.00	4.11	0.6094342	0.5006682		-17.8	30
Bromoform	A	5.00	4.91	0.4573839	0.4493951		-1.7	30
Bromomethane	A	5.00	5.51	0.6761959	0.7454915		10.2	30
1,3-Butadiene	A	5.00	4.80	0.5092257	0.4892551		-3.9	30
2-Butanone (MEK)	A	5.00	4.49	1.148647	1.032301		-10.1	30
Carbon Disulfide	A	5.00	4.84	2.001154	1.935444		-3.3	30
Carbon Tetrachloride	A	5.00	4.88	0.5037067	0.4911096		-2.5	30
Chlorobenzene	A	5.00	4.48	0.7622773	0.6837674		-10.3	30
Chloroethane	A	5.00	4.81	0.4202137	0.4043343		-3.8	30
Chloroform	A	5.00	5.66	1.577837	1.785086		13.1	30
Chloromethane	A	5.00	3.73	0.5966374	0.4448357		-25.4	30
Cyclohexane	A	5.00	4.23	0.3246406	0.2749012		-15.3	30
Dibromochloromethane	A	5.00	5.06	0.5189836	0.5249109		1.1	30
1,2-Dibromoethane (EDB)	A	5.00	4.74	0.4960864	0.4697713		-5.3	30
1,2-Dichlorobenzene	A	5.00	4.86	0.4911951	0.4769317		-2.9	30
1,3-Dichlorobenzene	A	5.00	5.00	0.5456808	0.5459403		0.05	30
1,4-Dichlorobenzene	A	5.00	5.01	0.5309926	0.5315921		0.1	30
Dichlorodifluoromethane (Freon 12)	A	5.00	6.39	1.809285	2.311902		27.8	30
1,1-Dichloroethane	A	5.00	5.23	1.317427	1.378567		4.6	30
1,2-Dichloroethane	A	5.00	5.14	0.9730911	0.9994062		2.7	30
1,1-Dichloroethylene	A	5.00	4.70	1.146845	1.078072		-6.0	30
cis-1,2-Dichloroethylene	A	5.00	5.26	0.9524103	1.001086		5.1	30
trans-1,2-Dichloroethylene	A	5.00	5.32	1.02979	1.095172		6.3	30
1,2-Dichloropropane	A	5.00	3.74	0.3033695	0.2267057		-25.3	30
cis-1,3-Dichloropropene	A	5.00	4.36	0.4042769	0.3521165		-12.9	30
trans-1,3-Dichloropropene	A	5.00	4.68	0.3279415	0.3069918		-6.4	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.30	1.964888	2.08242		6.0	30
1,4-Dioxane	A	5.00	3.98	0.1624784	0.1295094		-20.3	30
Ethanol	A	5.00	4.86	0.1724202	0.167474		-2.9	30
Ethyl Acetate	A	5.00	4.91	0.2040016	0.2002463		-1.8	30
Ethylbenzene	A	5.00	4.30	1.293794	1.111244		-14.1	30
4-Ethyltoluene	A	5.00	4.57	1.173601	1.072731		-8.6	30
Heptane	A	5.00	3.86	0.2390228	0.184662		-22.7	30
Hexachlorobutadiene	A	5.00	5.79	0.2261563	0.2618675		15.8	30
Hexane	L	5.00	4.48	0.6738496	0.6071162		-10.5	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S091257-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	3.35	0.4320676	0.2892734		-33.0	30 *
Isopropanol	A	5.00	4.13	1.163166	0.95989		-17.5	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.72	1.752887	2.00661		14.5	30
Methylene Chloride	A	5.00	3.79	0.8161184	0.6179461		-24.3	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.04	0.1991676	0.1611084		-19.1	30
Naphthalene	A	5.00	4.83	0.4140914	0.4001003		-3.4	30
Propene	A	5.00	5.85	0.3783566	0.4427048		17.0	30
Styrene	A	5.00	4.90	0.6193387	0.6065211		-2.1	30
1,1,2,2-Tetrachloroethane	A	5.00	4.01	0.7875453	0.6312316		-19.8	30
Tetrachloroethylene	A	5.00	4.49	0.4061033	0.3646814		-10.2	30
Tetrahydrofuran	A	5.00	4.52	0.5602263	0.5069358		-9.5	30
Toluene	A	5.00	4.38	0.9952737	0.8725831		-12.3	30
1,2,4-Trichlorobenzene	A	5.00	4.69	0.1951236	0.1829641		-6.2	30
1,1,1-Trichloroethane	A	5.00	4.49	0.5148362	0.4618896		-10.3	30
1,1,2-Trichloroethane	A	5.00	4.42	0.3494055	0.308632		-11.7	30
Trichloroethylene	A	5.00	4.38	0.3469588	0.3035952		-12.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.95	1.832227	2.180744		19.0	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.44	1.363757	1.48249		8.7	30
1,2,4-Trimethylbenzene	A	5.00	5.09	0.9035781	0.9191046		1.7	30
1,3,5-Trimethylbenzene	A	5.00	5.24	0.9651619	1.011655		4.8	30
Vinyl Acetate	A	5.00	3.99	1.160867	0.9266824		-20.2	30
Vinyl Chloride	A	5.00	4.78	0.7330867	0.7004382		-4.5	30
m&p-Xylene	A	10.0	9.53	1.010218	0.9625054		-4.7	30
o-Xylene	A	5.00	4.70	0.9862305	0.9262993		-6.1	30

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

* Values outside of QC limits

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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

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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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7/18/2023 5:33 AM

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WINDSOR, CT

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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 EnviroTrac
 Project Frost St OUI
 MCP/RCP Required _____
 Deliverable Package Requirement _____
 Location Westbury, NY
 PWSID# (When Applicable) _____
 Arrival Method FedEx 7726 6951 2932
 Received By / Date / Time KMC 7/18/23 1252
 Back-Sheet By / Date / Time KMC 7/18/23 1345
 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	2	IC Train	
Tedlar Bags					Tubing	6ft		
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s	5	10	15	Regs #'s	5	10	15
1 2381	6	11	16	1 4615	6	11	16
2 2431	7	12	17	2 4616	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