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August 9, 2021

Ms. Kerry Maloney, P.G.
NYSDEC, Division of Environmental Remediation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Via email: Kerry.maloney@dec.ny.gov

Re: Progress Report: July 2021
Frost Street Sites: Site ID Nos. 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Ms. Maloney:

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 2021 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).

  One alarm call was received on July 30 for the motor soft starters and the system shutdown. The SVE portion of the system was restarted remotely on July 30; the claw pump was reset manually on August 2 and the AS portion of the system resumed operation. Box fans in the system container were also replaced on August 2.

- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on July 21, using Summa canisters. These samples were obtained by EnviroTrac, submitted to Phoenix Environmental Laboratories, and analyzed by Method TO-15. Results are included in Appendix B.

  — Photoionization detector (PID) readings and influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene [30,049 µg/m^3]) 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 ($\mu g/m^3$)[2]**	**July 2021 Effluent Concentration ($\mu g/m^3$)**
Trichloroethene	500	19,000	ND
Tetrachloroethene	1,000	38,000	0.28
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene[3]	100	3,800	116

Notes:

ft/min cubic feet per minute

lbs/year pounds per year

$\mu g/m^3$ 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 which demonstrates 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 July 26 from approximately 1:00 AM to 2:45 PM due to a thunderstorm.

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 Monitoring

The next groundwater monitoring event will be performed in late August or September 2021.

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	*Via email to amtamuno@gw.dec.state.ny.us*
	C. Bethoney, NYSDOH	*Via email to charlotte.bethoney@health.ny.gov*
	J. Nealon, NYSDOH	*Via email to jacquelyn.nealon@health.ny.gov*
	R. Putnam, NCDOH	*Via email to rputnam@nassaucountyny.gov*
	J. Vasquez, U.S. EPA	*Via email to vazquez.julio@epa.gov*
	T. Pupilla, Sanders Equities	*Via email to tpupilla@sandersequities.com*
	J. Privitera, Esq.	*Via email to jprivitera@woh.com*
	P. Coop, EnSafe	*Via email to pcoop@ensafe.com*
	J. Wilkinson, Envirotrac	*Via email to jamesw@envirotrac.com*

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: 21-Jul
Weather / Temp: Cloudy / 80 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 11:00

System Status

	Arrival	Departure		Arrival	Departure
SVE Blower 1 (ON/OFF)	ON	ON	AS Compressor 1 (ON/OFF)	ON	ON
SVE Blower 2 (ON/OFF)	OFF	OFF	AS Compressor 2 (ON/OFF)	OFF	OFF
			Air Cooler (ON/OFF)	ON	ON

Soil Vapor Extraction System

Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500	884	Blower 1 Total Runtime (hrs)	61,966.6
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	62,510.4
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0
Blower Inlet Vacuum ("H2O)	56		Blower 2 Air Filter Differential Pressure ("H2O)	0
Moisture Separator Vacuum ("Hg)	2.5		VGAC-1 Influent PID (ppm)	2.0
VGAC-1 Influent Vacuum ("H2O)	40		VGAC-1 Effluent PID (ppm)	0.0
VGAC-1 Effluent Vacuum ("H2O)	46		VGAC-2 Influent PID (ppm)	2.0
VGAC-2 Influent Vacuum ("H2O)	40		VGAC-2 Effluent PID (ppm)	0.0
VGAC-2 Effluent Vacuum ("H2O)	40		VGAC-3 Influent PID (ppm)	0.0
VGAC-3 Influent Vacuum ("H2O)	45		VGAC-3 Effluent PID (ppm)	0.0
VGAC-3 Effluent Vacuum ("H2O)	50		Blower Effluent PID (ppm)	0.0
VGAC-3 Influent Temp (DegF)			Transfer Pump Total Runtime (hrs)	25,044.8
Blower Effluent Pressure ("H2O)	9		Condensate Storage Tank Level (gal)	0

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	1.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	34	4200	92	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	44	4000	87	5.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	46	2900	63	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	36	3700	81	0.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	6000	131	9.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	34	4200	92	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65	1.0

Air Sparge System

Compressor 1 Pressure (psi)	14	Compressor 2 Pressure (psi)	Off
Compressor 1 Runtime (hrs)	3,481.1	Compressor 2 Temperature (degF)	Off
Air Cooler Inlet Temperature (degF)	225	Compressor 2 Regulator Pressure (psi)	Off
Air Cooler Outlet Temperature (degF)	96	Compressor 2 Runtime (hrs)	40,734
Air Cooler Inlet Pressure (psi)	16.5	AS Manifold Temperature (degF)	94
Air Cooler Outlet Pressure (psi)	13.5	AS Manifold Pressure	13

AS Manifold Legs - Pressure/Flow Rate

	Pressure	Flow Rate		Pressure	Flow Rate
AS-1 (psi)/(cfm)	10	10	AS-11 (psi)/(cfm)	15	4
AS-2 (psi)/(cfm)	5	6	AS-12B (psi)/(cfm)	16	15
AS-3 (psi)/(cfm)	16	10	AS-13B (psi)/(cfm)	15	13
AS-4 (psi)/(cfm)	15	4	AS-14 (psi)/(cfm)	17	13
AS-5 (psi)/(cfm)	17	17	AS-15 (psi)/(cfm)	15	10
AS-6 (psi)/(cfm)	16	10	AS-16B (psi)/(cfm)	16	12
AS-7 (psi)/(cfm)	17	9	AS-17 (psi)/(cfm)	17	4
AS-8 (psi)/(cfm)	15	10	AS-18 (psi)/(cfm)	15	10
AS-9 (psi)/(cfm)	16	8	AS-19 (psi)/(cfm)	15	8
AS-10B (psi)/(cfm)	15	10			

Notes, Comments & Observations:

Collected monthly samples.

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: 21-Jul
Weather / Temp: Cloudy / 80 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 11:00

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-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	
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
AS Compressor 2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Filters	Weekly	Y	
-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	

ALARM VISIT LOG
AS/SVE SYSTEM
101 FROST STREET, WESTBURY, NY

Alarm Date	Site Visit Date	Personnel	ALARM DESCRIPTION	Corrective Action	SVE Status Upon Departure	AS Status Upon Departure
7/30/2021	8/2/2021	JW	System down due to alarms with all 3 motor soft starters.	Reset SVE blower soft starts remotely on 7/30. Claw pump soft start breaker was tripped and reset manually on 8/2. Box fans in system container were replaced	ON	ON

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

PHOENIX
Environmental Laboratories, Inc.

Wednesday, July 28, 2021

Attn: James Wilkinson
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Project ID: **ENSAFE WESTBURY**
SDG ID: **GCI79930**
Sample ID#s: **CI79930 - CI79931**

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

July 28, 2021

SDG I.D.: GCI79930

Project ID: ENSAFE WESTBURY

Client Id	Lab Id	Matrix
SVE EFFLUENT	CI79930	AIR
SVE INFLUENT	CI79931	AIR

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 28, 2021

FOR: Attn: James Wilkinson
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	JW	07/21/21	10:46
Location Code:	ENVIROTR	Received by:	B	07/22/21	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	852				

Laboratory Data

SDG ID: GCI79930
Phoenix ID: CI79930

Project ID: ENSAFE WESTBURY
Client ID: SVE EFFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	07/27/21	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	07/27/21	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	07/27/21	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	07/27/21	KCA	1	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	07/27/21	KCA	1	
1,1-Dichloroethene	ND	*0.051*	ND	*0.20*	07/27/21	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	07/27/21	KCA	1	
1,2,4-Trimethylbenzene	ND	*0.204*	ND	*1.00*	07/27/21	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	07/27/21	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	07/27/21	KCA	1	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	07/27/21	KCA	1	
1,2-dichloropropane	ND	*0.217*	ND	*1.00*	07/27/21	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	07/27/21	KCA	1	
1,3,5-Trimethylbenzene	ND	*0.204*	ND	*1.00*	07/27/21	KCA	1	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	07/27/21	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	07/27/21	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	07/27/21	KCA	1	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	07/27/21	KCA	1	
2-Hexanone(MBK)	0.748	*0.244*	3.06	*1.00*	07/27/21	KCA	1	1
4-Ethyltoluene	ND	*0.204*	ND	*1.00*	07/27/21	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	07/27/21	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	07/27/21	KCA	1	
Acetone	9.44	*0.421*	22.4	*1.00*	07/27/21	KCA	1	
Acrylonitrile	ND	*0.461*	ND	*1.00*	07/27/21	KCA	1	
Benzene	0.659	*0.313*	2.10	*1.00*	07/27/21	KCA	1	
Benzyl chloride	ND	*0.193*	ND	*1.00*	07/27/21	KCA	1	

Project ID: ENSAFE WESTBURY
Client ID: SVE EFFLUENT

Phoenix I.D.: CI79930

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	07/27/21	KCA	1	
Bromoform	ND	*0.097*	ND	*1.00*	07/27/21	KCA	1	
Bromomethane	ND	*0.258*	ND	*1.00*	07/27/21	KCA	1	
Carbon Disulfide	ND	*0.321*	ND	*1.00*	07/27/21	KCA	1	
Carbon Tetrachloride	0.109	*0.032*	0.69	*0.20*	07/27/21	KCA	1	
Chlorobenzene	ND	*0.217*	ND	*1.00*	07/27/21	KCA	1	
Chloroethane	ND	*0.379*	ND	*1.00*	07/27/21	KCA	1	
Chloroform	ND	*0.205*	ND	*1.00*	07/27/21	KCA	1	
Chloromethane	0.617	*0.485*	1.27	*1.00*	07/27/21	KCA	1	
Cis-1,2-Dichloroethene	29.4	*0.051*	116	*0.20*	07/27/21	KCA	1	
cis-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	07/27/21	KCA	1	
Cyclohexane	ND	*0.291*	ND	*1.00*	07/27/21	KCA	1	
Dibromochloromethane	ND	*0.118*	ND	*1.00*	07/27/21	KCA	1	
Dichlorodifluoromethane	0.722	*0.202*	3.57	*1.00*	07/27/21	KCA	1	
Ethanol	16.7	*0.531*	31.4	*1.00*	07/27/21	KCA	1	1
Ethyl acetate	1.04	*0.278*	3.75	*1.00*	07/27/21	KCA	1	1
Ethylbenzene	ND	*0.230*	ND	*1.00*	07/27/21	KCA	1	
Heptane	ND	*0.244*	ND	*1.00*	07/27/21	KCA	1	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	07/27/21	KCA	1	
Hexane	3.81	*0.284*	13.4	*1.00*	07/27/21	KCA	1	
Isopropylalcohol	0.945	*0.407*	2.32	*1.00*	07/27/21	KCA	1	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	07/27/21	KCA	1	
m,p-Xylene	0.468	*0.230*	2.03	*1.00*	07/27/21	KCA	1	
Methyl Ethyl Ketone	1.59	*0.339*	4.69	*1.00*	07/27/21	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	07/27/21	KCA	1	
Methylene Chloride	14.3	*0.864*	49.6	*3.00*	07/27/21	KCA	1	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	07/27/21	KCA	1	1
o-Xylene	ND	*0.230*	ND	*1.00*	07/27/21	KCA	1	
Propylene	0.639	*0.581*	1.10	*1.00*	07/27/21	KCA	1	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	07/27/21	KCA	1	1
Styrene	ND	*0.235*	ND	*1.00*	07/27/21	KCA	1	
Tetrachloroethene	0.041	*0.037*	0.28	*0.25*	07/27/21	KCA	1	
Tetrahydrofuran	ND	*0.339*	ND	*1.00*	07/27/21	KCA	1	1
Toluene	0.837	*0.266*	3.15	*1.00*	07/27/21	KCA	1	
Trans-1,2-Dichloroethene	0.351	*0.252*	1.39	*1.00*	07/27/21	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	07/27/21	KCA	1	
Trichloroethene	ND	*0.037*	ND	*0.20*	07/27/21	KCA	1	
Trichlorofluoromethane	0.384	*0.178*	2.16	*1.00*	07/27/21	KCA	1	
Trichlorotrifluoroethane	ND	*0.131*	ND	*1.00*	07/27/21	KCA	1	
Vinyl Chloride	ND	*0.078*	ND	*0.20*	07/27/21	KCA	1	
QA/QC Surrogates/Internals								
% Bromofluorobenzene	101	*%*	101	*%*	07/27/21	KCA	1	
% IS-1,4-Difluorobenzene	110	*%*	110	*%*	07/27/21	KCA	1	
% IS-Bromochloromethane	111	*%*	111	*%*	07/27/21	KCA	1	
% IS-Chlorobenzene-d5	108	*%*	108	*%*	07/27/21	KCA	1	

Project ID: ENSAFE WESTBURY
Client ID: SVE EFFLUENT

Phoenix I.D.: CI79930

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 28, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 28, 2021

FOR: Attn: James Wilkinson
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	JW	07/21/21	10:51
Location Code:	ENVIROTR	Received by:	B	07/22/21	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	730				

Laboratory Data

SDG ID: GCI79930
Phoenix ID: CI79931

Project ID: ENSAFE WESTBURY
Client ID: SVE INFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.729*	ND	*5.00*	07/26/21	KCA	5	1
1,1,1-Trichloroethane	ND	*0.917*	ND	*5.00*	07/26/21	KCA	5	
1,1,2,2-Tetrachloroethane	ND	*0.729*	ND	*5.00*	07/26/21	KCA	5	
1,1,2-Trichloroethane	ND	*0.917*	ND	*5.00*	07/26/21	KCA	5	
1,1-Dichloroethane	ND	*1.24*	ND	*5.02*	07/26/21	KCA	5	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	07/26/21	KCA	5	
1,2,4-Trichlorobenzene	ND	*0.674*	ND	*5.00*	07/26/21	KCA	5	
1,2,4-Trimethylbenzene	ND	*1.02*	ND	*5.01*	07/26/21	KCA	5	
1,2-Dibromoethane(EDB)	ND	*0.651*	ND	*5.00*	07/26/21	KCA	5	
1,2-Dichlorobenzene	ND	*0.832*	ND	*5.00*	07/26/21	KCA	5	
1,2-Dichloroethane	ND	*1.24*	ND	*5.02*	07/26/21	KCA	5	
1,2-dichloropropane	ND	*1.08*	ND	*4.99*	07/26/21	KCA	5	
1,2-Dichlorotetrafluoroethane	ND	*0.716*	ND	*5.00*	07/26/21	KCA	5	
1,3,5-Trimethylbenzene	ND	*1.02*	ND	*5.01*	07/26/21	KCA	5	
1,3-Butadiene	ND	*2.26*	ND	*5.00*	07/26/21	KCA	5	
1,3-Dichlorobenzene	ND	*0.832*	ND	*5.00*	07/26/21	KCA	5	
1,4-Dichlorobenzene	ND	*0.832*	ND	*5.00*	07/26/21	KCA	5	
1,4-Dioxane	ND	*1.39*	ND	*5.01*	07/26/21	KCA	5	
2-Hexanone(MBK)	ND	*1.22*	ND	*4.99*	07/26/21	KCA	5	1
4-Ethyltoluene	ND	*1.02*	ND	*5.01*	07/26/21	KCA	5	1
4-Isopropyltoluene	ND	*0.911*	ND	*5.00*	07/26/21	KCA	5	1
4-Methyl-2-pentanone(MIBK)	ND	*1.22*	ND	*4.99*	07/26/21	KCA	5	
Acetone	7.62	*2.11*	18.1	*5.01*	07/26/21	KCA	5	
Acrylonitrile	ND	*2.31*	ND	*5.01*	07/26/21	KCA	5	
Benzene	ND	*1.57*	ND	*5.01*	07/26/21	KCA	5	
Benzyl chloride	ND	*0.966*	ND	*5.00*	07/26/21	KCA	5	

Project ID: ENSAFE WESTBURY
Client ID: SVE INFLUENT

Phoenix I.D.: CI79931

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.747*	ND	*5.00*	07/26/21	KCA	5	
Bromoform	ND	*0.484*	ND	*5.00*	07/26/21	KCA	5	
Bromomethane	ND	*1.29*	ND	*5.01*	07/26/21	KCA	5	
Carbon Disulfide	ND	*1.61*	ND	*5.01*	07/26/21	KCA	5	
Carbon Tetrachloride	ND	*0.159*	ND	*1.00*	07/26/21	KCA	5	
Chlorobenzene	ND	*1.09*	ND	*5.01*	07/26/21	KCA	5	
Chloroethane	ND	*1.90*	ND	*5.01*	07/26/21	KCA	5	
Chloroform	ND	*1.02*	ND	*4.98*	07/26/21	KCA	5	
Chloromethane	ND	*2.42*	ND	*4.99*	07/26/21	KCA	5	
Cis-1,2-Dichloroethene	121	*0.252*	479	*1.00*	07/26/21	KCA	5	
cis-1,3-Dichloropropene	ND	*1.10*	ND	*4.99*	07/26/21	KCA	5	
Cyclohexane	ND	*1.45*	ND	*4.99*	07/26/21	KCA	5	
Dibromochloromethane	ND	*0.587*	ND	*5.00*	07/26/21	KCA	5	
Dichlorodifluoromethane	ND	*1.01*	ND	*4.99*	07/26/21	KCA	5	
Ethanol	175	*2.66*	330	*5.01*	07/26/21	KCA	5	1
Ethyl acetate	ND	*1.39*	ND	*5.01*	07/26/21	KCA	5	1
Ethylbenzene	ND	*1.15*	ND	*4.99*	07/26/21	KCA	5	
Heptane	ND	*1.22*	ND	*5.00*	07/26/21	KCA	5	
Hexachlorobutadiene	ND	*0.469*	ND	*5.00*	07/26/21	KCA	5	
Hexane	ND	*1.42*	ND	*5.00*	07/26/21	KCA	5	
Isopropylalcohol	3.67	*2.04*	9.02	*5.01*	07/26/21	KCA	5	
Isopropylbenzene	ND	*1.02*	ND	*5.01*	07/26/21	KCA	5	
m,p-Xylene	ND	*1.15*	ND	*4.99*	07/26/21	KCA	5	
Methyl Ethyl Ketone	ND	*1.70*	ND	*5.01*	07/26/21	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	*1.39*	ND	*5.01*	07/26/21	KCA	5	
Methylene Chloride	ND	*4.32*	ND	*15.0*	07/26/21	KCA	5	
n-Butylbenzene	ND	*0.911*	ND	*5.00*	07/26/21	KCA	5	1
o-Xylene	ND	*1.15*	ND	*4.99*	07/26/21	KCA	5	
Propylene	ND	*2.91*	ND	*5.01*	07/26/21	KCA	5	1
sec-Butylbenzene	ND	*0.911*	ND	*5.00*	07/26/21	KCA	5	1
Styrene	ND	*1.17*	ND	*4.98*	07/26/21	KCA	5	
Tetrachloroethene	4210	*5.53*	28500	*37.5*	07/27/21	KCA	150	
Tetrahydrofuran	ND	*1.70*	ND	*5.01*	07/26/21	KCA	5	1
Toluene	2.95	*1.33*	11.1	*5.01*	07/26/21	KCA	5	
Trans-1,2-Dichloroethene	ND	*1.26*	ND	*4.99*	07/26/21	KCA	5	
trans-1,3-Dichloropropene	ND	*1.10*	ND	*4.99*	07/26/21	KCA	5	
Trichloroethene	199	*0.186*	1070	*1.00*	07/26/21	KCA	5	
Trichlorofluoromethane	ND	*0.891*	ND	*5.00*	07/26/21	KCA	5	
Trichlorotrifluoroethane	ND	*0.653*	ND	*5.00*	07/26/21	KCA	5	
Vinyl Chloride	ND	*0.391*	ND	*1.00*	07/26/21	KCA	5	
QA/QC Surrogates/Internals								
% Bromofluorobenzene (5x)	100	*%*	100	*%*	07/26/21	KCA	5	
% IS-1,4-Difluorobenzene (5x)	104	*%*	104	*%*	07/26/21	KCA	5	
% IS-Bromochloromethane (5x)	105	*%*	105	*%*	07/26/21	KCA	5	
% IS-Chlorobenzene-d5 (5x)	106	*%*	106	*%*	07/26/21	KCA	5	
% Bromofluorobenzene (75x)	100	*%*	100	*%*	07/27/21	KCA	75	
% IS-1,4-Difluorobenzene (75x)	110	*%*	110	*%*	07/27/21	KCA	75	
% IS-Bromochloromethane (75x)	112	*%*	112	*%*	07/27/21	KCA	75	
% IS-Chlorobenzene-d5 (75x)	107	*%*	107	*%*	07/27/21	KCA	75	

Ver 1

Project ID: ENSAFE WESTBURY
Client ID: SVE INFLUENT

Phoenix I.D.: CI79931

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
% Bromofluorobenzene (150x)	100	%	100	%	07/27/21	KCA	150
% IS-1,4-Difluorobenzene (150x)	106	%	106	%	07/27/21	KCA	150
% IS-Bromochloromethane (150x)	104	%	104	%	07/27/21	KCA	150
% IS-Chlorobenzene-d5 (150x)	106	%	106	%	07/27/21	KCA	150

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Elevated reporting limits have been reported due to the presence of reported target compounds in the TO15 list above the calibration. Sample was run at an initial dilution.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
July 28, 2021
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

July 28, 2021

QA/QC Data

SDG I.D.: GCI79930

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 585040 (ppbv), QC Sample No: CI80898 (CI79930, CI79931 (5X, 75X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	112	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.250	ND	1.36	106	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.010	ND	0.07	97	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.010	ND	0.05	98	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.075	ND	0.30	96	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.100	ND	0.40	115	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	107	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	113	3.39	3.35	0.690	0.681	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.010	ND	0.08	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.050	ND	0.30	108	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.010	ND	0.04	102	0.34	0.34	0.083	0.083	0.0	70 - 130	25
1,2-dichloropropane	ND	0.010	ND	0.05	91	0.69	0.73	0.149	0.157	5.2	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	109	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	114	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.250	ND	0.55	87	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.050	ND	0.30	112	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.040	ND	0.24	116	1.12	1.07	0.186	0.178	NC	70 - 130	25
1,4-Dioxane	ND	0.065	ND	0.23	80	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.250	ND	1.02	78	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.250	ND	1.23	113	2.08	2.02	0.423	0.411	NC	70 - 130	25
4-Isopropyltoluene	ND	0.250	ND	1.37	113	1.50	1.50	0.273	0.274	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	84	ND	2.09	ND	0.511	NC	70 - 130	25
Acetone	ND	0.375	ND	0.89	93	76.9	77.6	32.4	32.7	0.9	70 - 130	25
Acrylonitrile	ND	0.250	ND	0.54	91	1.83	1.90	0.845	0.876	NC	70 - 130	25
Benzene	ND	0.100	ND	0.32	92	1.15	1.17	0.361	0.366	NC	70 - 130	25
Benzyl chloride	ND	0.250	ND	1.29	91	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.010	ND	0.07	102	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.075	ND	0.77	132	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.070	ND	0.27	104	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.250	ND	0.78	105	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.043	ND	0.27	109	0.95	0.92	0.151	0.147	NC	70 - 130	25
Chlorobenzene	ND	0.100	ND	0.46	108	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.250	ND	0.66	103	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.100	ND	0.49	100	0.78	0.77	0.160	0.158	NC	70 - 130	25
Chloromethane	ND	0.250	ND	0.52	91	0.96	0.93	0.465	0.453	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	101	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	100	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.250	ND	0.86	92	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.010	ND	0.09	110	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.250	ND	1.24	107	1.78	1.63	0.361	0.329	NC	70 - 130	25
Ethanol	ND	0.375	ND	0.71	108	17.2	18.6	9.15	9.88	7.7	70 - 130	25

QA/QC Data

SDG I.D.: GCI79930

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.250	ND	0.90	101	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.250	ND	1.08	107	1.29	1.28	0.298	0.295	NC	70 - 130	25
Heptane	ND	0.250	ND	1.02	87	1.28	1.30	0.312	0.317	NC	70 - 130	25
Hexachlorobutadiene	ND	0.010	ND	0.11	107	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.225	ND	0.79	87	2.65	2.74	0.753	0.778	NC	70 - 130	25
Isopropylalcohol	ND	0.375	ND	0.92	94	6.76	7.07	2.75	2.88	4.6	70 - 130	25
Isopropylbenzene	ND	0.250	ND	1.23	112	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.500	ND	2.17	111	4.64	4.69	1.07	1.08	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.225	ND	0.66	86	13.1	13.1	4.46	4.46	0.0	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	100	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	1.50	ND	5.21	91	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.250	ND	1.37	109	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.250	ND	1.08	104	1.73	1.73	0.398	0.398	NC	70 - 130	25
Propylene	ND	0.250	ND	0.43	86	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.250	ND	1.37	110	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.100	ND	0.43	114	2.52	2.44	0.592	0.574	3.1	70 - 130	25
Tetrachloroethene	ND	0.050	ND	0.34	111	8.61	8.54	1.27	1.26	0.8	70 - 130	25
Tetrahydrofuran	ND	0.250	ND	0.74	83	5.92	5.92	2.01	2.01	0.0	70 - 130	25
Toluene	ND	0.250	ND	0.94	94	6.40	6.55	1.70	1.74	2.3	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	96	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	95	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.025	ND	0.13	107	0.26	0.22	0.049	0.041	NC	70 - 130	25
Trichlorofluoromethane	ND	0.250	ND	1.40	117	ND	ND	ND	ND	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.250	ND	1.91	115	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.050	ND	0.13	93	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	99	%	99	%	106	104	102	104	102	NC	70 - 130	25
% IS-1,4-Difluorobenzene	102	%	102	%	102	102	101	102	101	NC	60 - 140	25
% IS-Bromochloromethane	101	%	101	%	102	102	101	102	101	NC	60 - 140	25
% IS-Chlorobenzene-d5	100	%	100	%	99	100	100	100	100	NC	60 - 140	25
QA/QC Batch 585166 (ppbv), QC Sample No: CI81939 (CI79931 (150X))												
Volatiles												
Tetrachloroethene	ND	0.037	ND	0.25	112	191	181	28.2	26.7	5.5	70 - 130	25
% Bromofluorobenzene	99	%	99	%	104	103	102	103	102	NC	70 - 130	25
% IS-1,4-Difluorobenzene	102	%	102	%	105	101	108	101	108	NC	60 - 140	25
% IS-Bromochloromethane	101	%	101	%	104	99	105	99	105	NC	60 - 140	25
% IS-Chlorobenzene-d5	103	%	103	%	106	101	108	101	108	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
July 28, 2021

Wednesday, July 28, 2021

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCI79930 - ENVIROTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

July 28, 2021 SDG I.D.: GCI79930

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

AIRSIM

CHEM24 07/23/21-1: CI79930, CI79931

The following Continuing Calibration compounds did not meet % deviation criteria: Bromoform(sim) 35%H (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: Bromoform(sim) 35%H (30%)

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD
AIR ANALYSES
800-827-5426
email: greg@phoenixlabs.com

P.O. #

Data Delivery:
☐ Fax #:
☑ Email: jamesw@envirotrac.com
☐ Phone #:

Report to: James Wilkinson
Customer: Envirotrac
Address:

Project Name: Ensafe - Westbury
Invoice to: EnviroTrac
Sampled by: Jim WILKINSON

Data Format: (Circle) Equis Excel Other: pdf
Requested Deliverable: RCP ASP CAT B MCP NJ Deliverables
Quote Number:

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
	THIS SECTION FOR LAB USE ONLY												MATRIX			ANALYSES	
79930	SVE Effluent	852	1.4	-30	-8	NA	NA	10:15	10:46	7/21					G	✓	
79931	SVE Influent	730	1.4	-30	-5	NA	NA	10:50	10:51	7/21					G	✓	

Relinquished by: [signature] Date: 7-22-21 Time: 9:30
Accepted by: Krystal Hall Date: 7/22/21 Time: 1603

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: _____ Date: _____

State Where Samples Collected: NY

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
2 1.4L grab

Turnaround Time:
☐ 1 Day
☐ 2 Day
☐ 3 Day
☐ 4 Day
☐ 5 Day

Requested Criteria: (Please Circle)

CT:
TAC I/C
TAC RES
SVVC I/C
SVVC RES
GWV I/C
GWV CES

MA:
Indoor Air:
Residential
Ind/Commercial
Soil Gas:
Residential
Ind/Commercial

NJ:
Indoor Air:
Residential
Ind/Commercial
Soil Gas:
Residential
Ind/Commercial

NY:
Vapor Intrusion

PA:
Indoor Air
Residential
Non-residential

VT:
Indoor Air
Residential
Industrial
Sub-slab
Residential
Industrial