

January 10, 2022

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: December 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 December 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).
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on December 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 [28,837 µg/m³]) continue to indicate significant mass extraction.
 - Effluent concentrations are below the carbon exchange indicator concentrations, as shown below. Based on the November and December OM&M data, breakthrough has occurred and a carbon changeout was performed on December 28.

Frost Street Sites Effluent Compliance			
System Flow Rate =		800 ft ³ /min	
Compound	Annual Mass Emission Limit¹ (lbs/year)	Carbon Exchange Required Indicator Concentration (µg/m³)²	December 2021 Effluent Concentration (µg/m³)
Trichloroethene	500	19,000	237
Tetrachloroethene	1,000	38,000	21.2
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ³	100	3,800	256

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 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.

- System condensate water was discharged from the holding tank to the sewer via the onsite connection (December 21 – 80 gallons, December 28 – 500 gallons). All water is treated via activate carbon adsorption prior to discharge. Groundwater concentrations did not exceed applicable limits (1 part per million total volatile organic compounds), as shown in Appendix C.

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 December. To date, over 262 million gallons of water have been removed by this system.

Quarterly samples were collected from each operational extraction well on December 28 and analyzed for VOCs; a summary of the detected values is provided below. This data continues to indicate significant mass extraction. Full results for these events are provided in Appendix D; historical data is graphed in Appendix E.

Groundwater Extraction System Individual Extraction Well Data – Volatile Organic Compounds (ppb)				
+Analyte	EX-1A	EX-1B	EX-1C	EX-1D
1,1,1-Trichloroethane	ND	ND	ND	0.54
1,1-Dichloroethane	ND	ND	ND	0.46
1,1-Dichloroethene	0.26	ND	0.53	5
Carbon Tetrachloride	ND	ND	ND	0.74

Groundwater Extraction System Individual Extraction Well Data – Volatile Organic Compounds (ppb)				
+Analyte	EX-1A	EX-1B	EX-1C	EX-1D
Chloroform	ND	ND	ND	0.79
cis-1,2-Dichloroethene	2.8	6.4	0.88	4.1
Tetrachloroethene	38	310	38	86
Trichloroethene	3.4	11	3.5	21
Total VOCs	44.46	327.4	42.91	118.63

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 third quarter groundwater sampling event was performed the week of September 17, 2021. Analytical data was submitted to NYSDEC on October 8, 2021 and the report was submitted to NYSDEC on December 8, 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	<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. Vasquez, 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.	<i>Via email to jprivitera@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: 21-Dec
Weather / Temp: Clear / 35 DEG
Technician / Operator: JW

Arrival Time: 9:30
Departure Time: 10:30

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)	4250		834		Blower 1 Total Runtime (hrs)	63,744.0			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	64,215.7			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	66				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	4				VGAC-1 Influent PID (ppm)	2.0			
VGAC-1 Influent Vacuum ("H2O)	52				VGAC-1 Effluent PID (ppm)	3.0			
VGAC-1 Effluent Vacuum ("H2O)	60				VGAC-2 Influent PID (ppm)	2.0			
VGAC-2 Influent Vacuum ("H2O)	52				VGAC-2 Effluent PID (ppm)	3.0			
VGAC-2 Effluent Vacuum ("H2O)	52				VGAC-3 Influent PID (ppm)	3.0			
VGAC-3 Influent Pressure ("H2O)	6				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Effluent Pressure ("H2O)	2				Blower Effluent PID (ppm)	3.0			
VGAC-3 Influent Temp (DegF)	120				Transfer Pump Total Runtime (hrs)	25,045.9			
Blower Effluent Pressure ("H2O)	18				Condensate Storage Tank Level (gal)	520 → 400			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	53	8000	175	1.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	47	4200	92	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	55	4500	98	2.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	56	2800	61	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	47	5400	118	0.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	52	6000	131	23.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	46	4500	98	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	48	3100	68	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	14				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	6,705.0				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	190				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	56				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	19				AS Manifold Temperature (degF)	50			
Air Cooler Outlet Pressure (psi)	20				AS Manifold Pressure	16			
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate			Pressure	Flow Rate			
AS-1 (psi)/(cfm)	6	15	AS-11 (psi)/(cfm)		19	11			
AS-2 (psi)/(cfm)	4	10	AS-12B (psi)/(cfm)		20	9			
AS-3 (psi)/(cfm)	10	10	AS-13B (psi)/(cfm)		18	10			
AS-4 (psi)/(cfm)	14	4	AS-14 (psi)/(cfm)		19	10			
AS-5 (psi)/(cfm)	14	10	AS-15 (psi)/(cfm)		19	10			
AS-6 (psi)/(cfm)	21	11	AS-16B (psi)/(cfm)		18	10			
AS-7 (psi)/(cfm)	20	9	AS-17 (psi)/(cfm)		19	9			
AS-8 (psi)/(cfm)	17	12	AS-18 (psi)/(cfm)		17	13			
AS-9 (psi)/(cfm)	20	12	AS-19 (psi)/(cfm)		18	15			
AS-10B (psi)/(cfm)	17	10							

Notes, Comments & Observations:

Collected monthly air samples.

System off upon arrival due to high level in storage tank.

Emptied tank, restarted system.

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-Dec
Weather / Temp: Clear / 35 DEG
Technician / Operator: JW

Arrival Time: 9:30
Departure Time: 10:30

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	Drained 120 gallons.
AS Compressor 1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 8/17/21.
-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	

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: 28-Dec
Weather / Temp: Clear / 45 DEG
Technician / Operator: JW

Arrival Time: 8:00
Departure Time: 13:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		OFF		AS Compressor 1 (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		ON		AS Compressor 2 (ON/OFF)	OFF		OFF	
					Air Cooler (ON/OFF)	OFF		ON	
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4200		825		Blower 1 Total Runtime (hrs)	63,827.7			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	64,291.8			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	66				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	4				VGAC-1 Influent PID (ppm)	5.0			
VGAC-1 Influent Vacuum ("H2O)	52				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-1 Effluent Vacuum ("H2O)	60				VGAC-2 Influent PID (ppm)	5.0			
VGAC-2 Influent Vacuum ("H2O)	52				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-2 Effluent Vacuum ("H2O)	52				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Influent Pressure ("H2O)	6				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Effluent Pressure ("H2O)	2				Blower Effluent PID (ppm)	0.0			
VGAC-3 Influent Temp (DegF)	118				Transfer Pump Total Runtime (hrs)	25,046.2			
Blower Effluent Pressure ("H2O)	18				Condensate Storage Tank Level (gal)	500 → 0			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	52	8000	175		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	47	4200	92	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	54	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	55	2800	61	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	46	5400	118		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	52	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	46	4500	98		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	48	3000	65	
Air Sparge System									
Compressor 1 Pressure (psi)	14				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	6,870.9				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	195				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	60				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	19				AS Manifold Temperature (degF)	55			
Air Cooler Outlet Pressure (psi)	20				AS Manifold Pressure	16			
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate			Pressure	Flow Rate			
AS-1 (psi)/(cfm)	7	12	AS-11 (psi)/(cfm)		18	10			
AS-2 (psi)/(cfm)	4	10	AS-12B (psi)/(cfm)		20	9			
AS-3 (psi)/(cfm)	10	10	AS-13B (psi)/(cfm)		18	10			
AS-4 (psi)/(cfm)	14	4	AS-14 (psi)/(cfm)		19	10			
AS-5 (psi)/(cfm)	14	10	AS-15 (psi)/(cfm)		19	10			
AS-6 (psi)/(cfm)	20	10	AS-16B (psi)/(cfm)		18	10			
AS-7 (psi)/(cfm)	20	9	AS-17 (psi)/(cfm)		19	10			
AS-8 (psi)/(cfm)	17	12	AS-18 (psi)/(cfm)		17	12			
AS-9 (psi)/(cfm)	20	12	AS-19 (psi)/(cfm)		18	15			
AS-10B (psi)/(cfm)	17	10							

Notes, Comments & Observations:

Carbon change out oversight, replaced LGAC drum.

Sampled water and drained storage tank.

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: 28-Dec
Weather / Temp: Clear / 45 DEG
Technician / Operator: JW

Arrival Time: 8:00
Departure Time: 13:00

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	Drained 500 gallons.
AS Compressor 1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 8/17/21.
-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	

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



Thursday, December 30, 2021

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

Project ID: ENSAFE-WESTBURY
SDG ID: GCK05846
Sample ID#s: CK05846 - CK05847

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,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



Sample Id Cross Reference

December 30, 2021

SDG I.D.: GCK05846

Project ID: ENSAFE-WESTBURY

Client Id	Lab Id	Matrix
SVE EFFLUENT	CK05846	AIR
SVE INFLUENT	CK05847	AIR



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



Analysis Report

December 30, 2021

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:
Canister Id: 749

Custody Information

Collected by: JW
Received by: SW
Analyzed by: see "By" below

Date Time
12/21/21 10:46
12/27/21 16:22

Laboratory Data

SDG ID: GCK05846
Phoenix ID: CK05846

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	12/29/21	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	12/29/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	12/29/21	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	12/29/21	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	12/29/21	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	12/29/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	12/29/21	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	12/29/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	12/29/21	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	12/29/21	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	12/29/21	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	12/29/21	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	12/29/21	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	12/29/21	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	12/29/21	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	12/29/21	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	12/29/21	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	12/29/21	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	12/29/21	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	12/29/21	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	12/29/21	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	12/29/21	KCA	1
Acetone	19.7	0.421	46.8	1.00	12/29/21	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	12/29/21	KCA	1
Benzene	2.75	0.313	8.78	1.00	12/29/21	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	12/29/21	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	12/29/21	KCA	1	
Bromoform	ND	0.097	ND	1.00	12/29/21	KCA	1	
Bromomethane	ND	0.258	ND	1.00	12/29/21	KCA	1	
Carbon Disulfide	ND	0.321	ND	1.00	12/29/21	KCA	1	
Carbon Tetrachloride	ND	0.032	ND	0.20	12/29/21	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	12/29/21	KCA	1	
Chloroethane	ND	0.379	ND	1.00	12/29/21	KCA	1	
Chloroform	ND	0.205	ND	1.00	12/29/21	KCA	1	
Chloromethane	ND	0.485	ND	1.00	12/29/21	KCA	1	
Cis-1,2-Dichloroethene	64.5	0.252	256	1.00	12/28/21	KCA	5	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	12/29/21	KCA	1	
Cyclohexane	ND	0.291	ND	1.00	12/29/21	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	12/29/21	KCA	1	
Dichlorodifluoromethane	0.407	0.202	2.01	1.00	12/29/21	KCA	1	
Ethanol	3.87	0.531	7.29	1.00	12/29/21	KCA	1	1
Ethyl acetate	ND	0.278	ND	1.00	12/29/21	KCA	1	1
Ethylbenzene	ND	0.230	ND	1.00	12/29/21	KCA	1	
Heptane	ND	0.244	ND	1.00	12/29/21	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	12/29/21	KCA	1	
Hexane	0.494	0.284	1.74	1.00	12/29/21	KCA	1	
Isopropylalcohol	1.35	0.407	3.32	1.00	12/29/21	KCA	1	
Isopropylbenzene	1.77	0.204	8.70	1.00	12/29/21	KCA	1	
m,p-Xylene	ND	0.230	ND	1.00	12/29/21	KCA	1	
Methyl Ethyl Ketone	0.548	0.339	1.62	1.00	12/29/21	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	12/29/21	KCA	1	
Methylene Chloride	1.07	0.864	3.71	3.00	12/29/21	KCA	1	
n-Butylbenzene	ND	0.182	ND	1.00	12/29/21	KCA	1	1
o-Xylene	ND	0.230	ND	1.00	12/29/21	KCA	1	
Propylene	ND	0.581	ND	1.00	12/29/21	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	12/29/21	KCA	1	1
Styrene	ND	0.235	ND	1.00	12/29/21	KCA	1	
Tetrachloroethene	3.13	0.037	21.2	0.25	12/29/21	KCA	1	
Tetrahydrofuran	ND	0.339	ND	1.00	12/29/21	KCA	1	1
Toluene	0.526	0.266	1.98	1.00	12/29/21	KCA	1	
Trans-1,2-Dichloroethene	0.571	0.252	2.26	1.00	12/29/21	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	12/29/21	KCA	1	
Trichloroethene	44.1	0.186	237	1.00	12/28/21	KCA	5	
Trichlorofluoromethane	ND	0.178	ND	1.00	12/29/21	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	12/29/21	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	12/29/21	KCA	1	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene	102	%	102	%	12/29/21	KCA	1	
% IS-1,4-Difluorobenzene	89	%	89	%	12/29/21	KCA	1	
% IS-Bromochloromethane	90	%	90	%	12/29/21	KCA	1	
% IS-Chlorobenzene-d5	87	%	87	%	12/29/21	KCA	1	
% Bromofluorobenzene (5x)	98	%	98	%	12/28/21	KCA	5	
% IS-1,4-Difluorobenzene (5x)	109	%	109	%	12/28/21	KCA	5	
% IS-Bromochloromethane (5x)	108	%	108	%	12/28/21	KCA	5	
% IS-Chlorobenzene-d5 (5x)	111	%	111	%	12/28/21	KCA	5	

Client ID: SVE EFFLUENT

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

December 30, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

December 30, 2021

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:
Canister Id: 719

Custody Information

Collected by: JW
Received by: SW
Analyzed by: see "By" below

Date

12/21/21 10:49
12/27/21 16:22

Time

Project ID: ENSAFE-WESTBURY
Client ID: SVE INFLUENT

Laboratory Data

SDG ID: GCK05846
Phoenix ID: CK05847

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	12/28/21	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	12/28/21	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	12/28/21	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	12/28/21	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	12/28/21	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	12/28/21	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	12/28/21	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	12/28/21	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	12/28/21	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	12/28/21	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	12/28/21	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	12/28/21	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	12/28/21	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	12/28/21	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	12/28/21	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	12/28/21	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	12/28/21	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	12/28/21	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	12/28/21	KCA	5
4-Ethyltoluene	ND	1.02	ND	5.01	12/28/21	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	12/28/21	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	12/28/21	KCA	5
Acetone	3.59	2.11	8.52	5.01	12/28/21	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	12/28/21	KCA	5
Benzene	ND	1.57	ND	5.01	12/28/21	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	12/28/21	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	12/28/21	KCA	5	
Bromoform	ND	0.484	ND	5.00	12/28/21	KCA	5	
Bromomethane	ND	1.29	ND	5.01	12/28/21	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	12/28/21	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	12/28/21	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	12/28/21	KCA	5	
Chloroethane	ND	1.90	ND	5.01	12/28/21	KCA	5	
Chloroform	ND	1.02	ND	4.98	12/28/21	KCA	5	
Chloromethane	ND	2.42	ND	4.99	12/28/21	KCA	5	
Cis-1,2-Dichloroethene	92.5	0.252	367	1.00	12/28/21	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	12/28/21	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	12/28/21	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	12/28/21	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	12/28/21	KCA	5	
Ethanol	11.5	2.66	21.7	5.01	12/28/21	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	12/28/21	KCA	5	1
Ethylbenzene	ND	1.15	ND	4.99	12/28/21	KCA	5	
Heptane	ND	1.22	ND	5.00	12/28/21	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	12/28/21	KCA	5	
Hexane	ND	1.42	ND	5.00	12/28/21	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	12/28/21	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	12/28/21	KCA	5	
m,p-Xylene	ND	1.15	ND	4.99	12/28/21	KCA	5	
Methyl Ethyl Ketone	ND	1.70	ND	5.01	12/28/21	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	12/28/21	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	12/28/21	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	12/28/21	KCA	5	1
o-Xylene	ND	1.15	ND	4.99	12/28/21	KCA	5	
Propylene	ND	2.91	ND	5.01	12/28/21	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	12/28/21	KCA	5	1
Styrene	ND	1.17	ND	4.98	12/28/21	KCA	5	
Tetrachloroethene	4040	4.98	27400	33.8	12/29/21	KCA	135	
Tetrahydrofuran	ND	1.70	ND	5.01	12/28/21	KCA	5	1
Toluene	1.34	1.33	5.05	5.01	12/28/21	KCA	5	
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	12/28/21	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	12/28/21	KCA	5	
Trichloroethene	199	0.186	1070	1.00	12/28/21	KCA	5	
Trichlorofluoromethane	ND	0.891	ND	5.00	12/28/21	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	12/28/21	KCA	5	
Vinyl Chloride	ND	0.391	ND	1.00	12/28/21	KCA	5	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	95	%	95	%	12/28/21	KCA	5	
% IS-1,4-Difluorobenzene (5x)	111	%	111	%	12/28/21	KCA	5	
% IS-Bromochloromethane (5x)	108	%	108	%	12/28/21	KCA	5	
% IS-Chlorobenzene-d5 (5x)	122	%	122	%	12/28/21	KCA	5	
% Bromofluorobenzene (135x)	93	%	93	%	12/29/21	KCA	135	
% IS-1,4-Difluorobenzene (135x)	91	%	91	%	12/29/21	KCA	135	
% IS-Bromochloromethane (135x)	92	%	92	%	12/29/21	KCA	135	
% IS-Chlorobenzene-d5 (135x)	89	%	89	%	12/29/21	KCA	135	

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

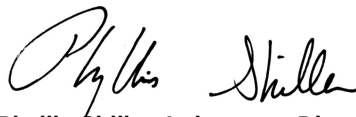
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded 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

December 30, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Canister Sampling Information

December 30, 2021

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

Location Code: ENVIOTR

SDG I.D.: GCK05846

Project ID: ENSAFE-WESTBURY

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
SVE EFFLUENT	CK05846	749	1.4L		12/14/21	-30	-4		B SAM				12/21/21 10:48	12/21/21 10:49
SVE INFLUENT	CK05847	719	1.4L		12/14/21	-30	-5		B SAM				12/21/21 10:45	12/21/21 10:46



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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QA/QC Report

December 30, 2021

QA/QC Data

SDG I.D.: GCK05846

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 606206 (ppbv), QC Sample No: CK05766 (CK05846 (5X) , CK05847 (5X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	110	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	102	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	110	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	107	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	108	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	56	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	107	2.54	2.51	0.516	0.511	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	99	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	107	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	109	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	107	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	103	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	102	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	104	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	80	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	96	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	106	2.24	2.27	0.456	0.463	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	107	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	104	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	92	12.1	12.2	5.10	5.16	1.2	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	106	1.16	1.13	0.362	0.355	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	84	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	115	0.51	0.52	0.081	0.082	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	109	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	113	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	107	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	107	5.06	5.02	1.47	1.46	0.7	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	114	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	110	2.54	2.52	0.514	0.510	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	82	36.0	35.6	19.1	18.9	1.1	70 - 130	25

QA/QC Data

SDG I.D.: GCK05846

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	0.280	ND	1.01	131	7.35	7.42	2.04	2.06	1.0	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	107	1.01	ND	0.233	ND	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	106	2.03	2.09	0.496	0.511	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	66	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	99	3.40	3.30	0.965	0.937	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	110	7.79	7.76	3.17	3.16	0.3	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	107	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	110	3.50	3.44	0.806	0.792	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	100	3.33	3.24	1.13	1.10	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	114	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	93	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	106	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	108	1.29	1.24	0.297	0.285	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	109	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	92	2.52	2.47	0.855	0.839	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	107	6.06	5.88	1.61	1.56	3.2	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	109	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	111	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	109	3.68	3.68	0.655	0.655	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	107	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	94	%	94	%	100	99	98	99	98	NC	70 - 130	25
% IS-1,4-Difluorobenzene	120	%	120	%	113	118	120	118	120	NC	60 - 140	25
% IS-Bromochloromethane	120	%	120	%	113	117	119	117	119	NC	60 - 140	25
% IS-Chlorobenzene-d5	119	%	119	%	114	118	120	118	120	NC	60 - 140	25

QA/QC Batch 606324 (ppbv), QC Sample No: CK05865 (CK05846, CK05847 (135X))

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	96	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	95	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	98	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	93	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	70	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	111	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	100	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	113	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	111	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	94	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	98	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	104	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCK05846

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
Acetone	ND	0.420	ND	1.00	101	2.36	2.49	0.995	1.05	NC	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	104	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	94	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	94	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	108	0.43	0.44	0.068	0.070	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	101	5.32	5.51	1.09	1.13	3.6	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	110	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	98	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	111	2.34	2.47	0.473	0.500	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	86	2.77	2.45	1.47	1.30	NC	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	131	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	62	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	104	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	103	54.3	51.3	22.1	20.9	5.6	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	93	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	111	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	101	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	95	34.1	34.0	5.03	5.01	0.4	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	101	1.05	1.10	0.279	0.293	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	103	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	106	1.43	1.53	0.254	0.272	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	107	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	88	%	88	%	97	98	99	98	99	NC	70 - 130	25
% IS-1,4-Difluorobenzene	102	%	102	%	101	103	98	103	98	NC	60 - 140	25
% IS-Bromochloromethane	103	%	103	%	103	102	99	102	99	NC	60 - 140	25
% IS-Chlorobenzene-d5	98	%	98	%	111	98	95	98	95	NC	60 - 140	25

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

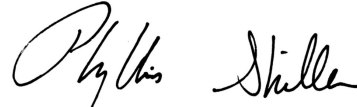
QA/QC Data

SDG I.D.: GCK05846

Parameter	Blk	Blk	Blk	Blk	LCS	Sample	Sample	Sample	Sample	DUP	%	%
	ppbv	RL	ppbv	RL	%	Result	Dup	Result	Dup	RPD	Rec	RPD
			ug/m3	ug/m3		ug/m3	ug/m3	ppbv	ppbv		Limits	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
December 30, 2021

Thursday, December 30, 2021

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCK05846 - 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.
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Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

December 30, 2021

SDG I.D.: GCK05846

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

AIRSIM

CHEM24 12/27/21-1: CK05846, CK05847

The following Continuing Calibration compounds did not meet % deviation criteria: 1,2,4-Trichlorobenzene(sim) 49%L (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: 1,2,4-Trichlorobenzene(sim) 49%L (30%)



Telephone: 860.645.1102 • Fax: 860.645.0823

P.O. #

Page of

Data Delivery:

Fax #:

Email:

Phone #:

800-827-5426

email: greg@phoenixlabs.com

Project Name:

Project Name: EnSafe - Westbury

Invoice to: **EnviroTrace**

Address: 5 Old Deck Road

Sampled by:
Jim Wilkinson

Relinquished by:	Accepted by:	Date:	Time:	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:
		12.27.21	10.44	

Relinquished by:	Accepted by:
------------------	--------------

[illegible]

James W. Thompson

	
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✓

State Where Samples Collected: NY

1

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

 $2(1.46) \text{ grab}$ [illegible]

1

Appendix C
AS/SVE System Water Sample
Laboratory Analytical Results



Thursday, December 30, 2021

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

Project ID: FROST STREET-OU1
SDG ID: GCK06258
Sample ID#s: CK06258

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,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



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Sample Id Cross Reference

December 30, 2021

SDG I.D.: GCK06258

Project ID: FROST STREET-OU1

Client Id	Lab Id	Matrix
SVE DISCHARGE WATER	CK06258	GW DISCHARGE



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

December 30, 2021

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

Sample Information

Matrix: GW DISCHARGE
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time
12/28/21 8:30
12/28/21 15:16

Laboratory Data

SDG ID: GCK06258
Phoenix ID: CK06258

Project ID: FROST STREET-OU1
Client ID: SVE DISCHARGE WATER

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Cadmium	< 0.001	0.001		mg/L	1	12/29/21	TH	E200.7
Chromium	< 0.001	0.001		mg/L	1	12/29/21	TH	E200.7
Copper	< 0.003	0.003		mg/L	1	12/29/21	TH	E200.7
Iron	0.264	0.005		mg/L	1	12/29/21	TH	E200.7
Nickel	0.002	0.001		mg/L	1	12/29/21	TH	E200.7
Zinc	0.587	0.002		mg/L	1	12/29/21	TH	E200.7
Chromium, Hexavalent	< 0.01	0.01		mg/L	1	12/28/21 19:47	MW	SM3500CRB-11
Total Metals Digestion	Completed					12/28/21	P/P	

Volatiles

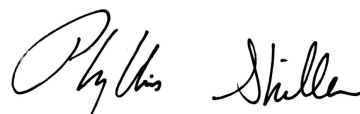
1,1,1-Trichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1-Dichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1-Dichloroethene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	12/28/21	MH	E624.1
Carbon tetrachloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
cis-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/28/21	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	12/28/21	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	12/28/21	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Naphthalene	ND	1.0	1.0	ug/L	1	12/28/21	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	12/28/21	MH	E624.1
Tetrachloroethene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Toluene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/28/21	MH	E624.1
Trichloroethene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	105			%	1	12/28/21	MH	70 - 130 %
% Bromofluorobenzene	91			%	1	12/28/21	MH	70 - 130 %
% Dibromofluoromethane	107			%	1	12/28/21	MH	70 - 130 %
% Toluene-d8	102			%	1	12/28/21	MH	70 - 130 %

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 LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded 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

December 30, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



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



QA/QC Report

December 30, 2021

QA/QC Data

SDG I.D.: GCK06258

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 606243 (mg/L), QC Sample No: CK06145 (CK06258)													
<u>ICP Metals - Aqueous</u>													
Cadmium	BRL	0.0005	<0.001	<0.0005	NC	92.9	93.5	0.6	89.0			80 - 120	20
Chromium	BRL	0.0005	0.004	0.0045	NC	93.2	94.3	1.2	89.3			80 - 120	20
Copper	BRL	0.0025	0.015	0.0156	3.90	92.8	93.6	0.9	94.5			80 - 120	20
Iron	BRL	0.0050	3.05	3.23	5.70	92.7	93.4	0.8	NC			80 - 120	20
Nickel	BRL	0.0005	0.246	0.262	6.30	93.2	94.3	1.2	89.5			80 - 120	20
Zinc	BRL	0.0020	0.043	0.0453	5.20	92.9	93.8	1.0	92.8			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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QA/QC Report

December 30, 2021

QA/QC Data

SDG I.D.: GCK06258

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 606265 (mg/L), QC Sample No: CK06259 (CK06258)													
Chromium, Hexavalent	BRL	0.01	<0.01	<0.01	NC	93.6			108			90 - 110	20
Comment:													
Additional Hexavalent Chromium criteria: LCS acceptance range for waters is 90-110% and MS acceptance range is 85-115%.													



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QA/QC Report

December 30, 2021

QA/QC Data

SDG I.D.: GCK06258

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 606338 (ug/L), QC Sample No: CK06258 (CK06258)										
<u>Volatiles</u>										
1,1,1-Trichloroethane	ND	1.0	99	99	0.0				75 - 125	20
1,1,2,2-Tetrachloroethane	ND	0.50	97	99	2.0				60 - 140	20
1,1,2-Trichloroethane	ND	1.0	93	96	3.2				71 - 129	20
1,1-Dichloroethane	ND	1.0	100	101	1.0				72 - 128	20
1,1-Dichloroethene	ND	1.0	112	111	0.9				50 - 150	20
1,2-Dichlorobenzene	ND	1.0	98	98	0.0				63 - 137	20
1,2-Dichloroethane	ND	1.0	92	96	4.3				68 - 132	20
1,2-Dichloropropane	ND	1.0	96	99	3.1				40 - 160	20
1,3-Dichlorobenzene	ND	1.0	99	98	1.0				73 - 127	20
1,4-Dichlorobenzene	ND	1.0	98	98	0.0				63 - 137	20
Benzene	ND	0.70	98	100	2.0				64 - 136	20
Bromodichloromethane	ND	0.50	97	96	1.0				65 - 135	20
Bromoform	ND	1.0	97	97	0.0				71 - 129	20
Bromomethane	ND	1.0	108	107	0.9				40 - 160	20
Carbon tetrachloride	ND	1.0	118	116	1.7				73 - 127	20
Chlorobenzene	ND	1.0	97	97	0.0				66 - 134	20
Chloroethane	ND	1.0	115	112	2.6				40 - 160	20
Chloroform	ND	1.0	96	97	1.0				67 - 133	20
Chloromethane	ND	1.0	106	105	0.9				40 - 160	20
cis-1,2-Dichloroethene	ND	1.0	98	98	0.0				69 - 131	20
cis-1,3-Dichloropropene	ND	0.40	101	103	2.0				40 - 160	20
Dibromochloromethane	ND	0.50	97	99	2.0				67 - 133	20
Ethylbenzene	ND	1.0	100	100	0.0				59 - 141	20
m&p-Xylene	ND	1.0	104	103	1.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	110	107	2.8				70 - 130	30
Methylene chloride	ND	1.0	103	100	3.0				60 - 140	20
Naphthalene	ND	1.0	110	109	0.9				70 - 130	30
o-Xylene	ND	1.0	103	105	1.9				70 - 130	30
Tetrachloroethene	ND	1.0	92	95	3.2				73 - 127	20
Toluene	ND	1.0	98	99	1.0				74 - 126	20
trans-1,2-Dichloroethene	ND	1.0	114	109	4.5				69 - 131	20
trans-1,3-Dichloropropene	ND	0.40	100	101	1.0				50 - 150	20
Trichloroethene	ND	1.0	96	95	1.0				66 - 134	20
Trichlorofluoromethane	ND	1.0	119	115	3.4				48 - 152	20
Vinyl chloride	ND	1.0	118	113	4.3				40 - 160	20
% 1,2-dichlorobenzene-d4	103	%	99	100	1.0				70 - 130	30
% Bromofluorobenzene	92	%	99	96	3.1				70 - 130	30
% Dibromofluoromethane	107	%	102	100	2.0				70 - 130	30
% Toluene-d8	103	%	101	101	0.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

QA/QC Data

SDG I.D.: GCK06258

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

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

December 30, 2021

Thursday, December 30, 2021

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCK06258 - 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
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

December 30, 2021

SDG I.D.: GCK06258

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



Environmental Laboratories, Inc.
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NY Temperature Narration

December 30, 2021

SDG I.D.: GCK06258

The samples in this delivery group were received at 2.7°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Customer: EnviroTrac
Address: 5 Old Dock Road
Yaphank, NY 11980

Project:	Frost Street - OU1
Report to:	Jim Wilkinson
Invoice to:	EnviroTrac
QUOTE #	

Project P.O.:

Coolant: IPK ☒ ICE ☐
Cooler: Yes ☒ No ☐

Temp 7 C °C Pg of

Data Delivery/Contact Options:

Fax:
Phone:
Email:

Client Sample Information - Identification

Date: 12/23/21
 Sampler's Signature: 

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soll SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid

PHOENIX USE ONLY	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
SAMPLE #				
06258	SVE Discharge Water	GW	12/28	8:30
	SVE Discharge Water	GW		
	SVE Discharge Water	GW		
	SVE Discharge Water	GW		

[illegible]

Comments, Special Requirements or Regulations:

Turnaround:

☐	1 Day*
☐	2 Days*
☐	3 Days*
☒	Standard
☐	Other

*** SURCHARGE APPLIES**

State where samples were collected: NY

*** SURCHARGE APPLIES**

Rolling back by:

Accepted by:

Date: _____ Time: _____

RI

19

MA

Data Format

2017

Very good

11/28/21	10:45
11/28/21	14:25

☐ Direct Exposure
(Residential)
☐ GW

☐ RCP Cert

☐	☐	☐
--------------------------	--------------------------	--------------------------

2 Certification

☒ Excel
☒ PDF
☐ GIS/Key

☐	Data Package
☐	Tier II Checklist
☐	Full Data Package*
☐	Phoenix Std Report
☐	Other

*** SURCHARGE APPLIES**

Appendix D
Groundwater Extraction System Water Samples
Laboratory Analytical Results



Wednesday, January 05, 2022

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

Project ID: FROST STREET-OU2
SDG ID: GCK06260
Sample ID#s: CK06260 - CK06263

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,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



Sample Id Cross Reference

January 05, 2022

SDG I.D.: GCK06260

Project ID: FROST STREET-OU2

Client Id	Lab Id	Matrix
EX-1A	CK06260	GROUND WATER
EX-1B	CK06261	GROUND WATER
EX-1C	CK06262	GROUND WATER
EX-1D	CK06263	GROUND WATER



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



Analysis Report

January 05, 2022

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

Sample Information

Matrix: GROUND WATER
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/28/21
12/28/21

Time

9:30
14:25

Laboratory Data

SDG ID: GCK06260
Phoenix ID: CK06260

Project ID: FROST STREET-OU2
Client ID: EX-1A

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1-Dichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1-Dichloroethene	0.26	J 0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	12/28/21	MH	E624.1
Carbon tetrachloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chloroform	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
cis-1,2-Dichloroethene	2.8	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/28/21	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	12/28/21	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	12/28/21	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	1.0	1.0	ug/L	1	12/28/21	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	12/28/21	MH	E624.1
Tetrachloroethene	38	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Toluene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/28/21	MH	E624.1
Trichloroethene	3.4	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	108			%	1	12/28/21	MH	70 - 130 %
% Bromofluorobenzene	90			%	1	12/28/21	MH	70 - 130 %
% Dibromofluoromethane	110			%	1	12/28/21	MH	70 - 130 %
% Toluene-d8	102			%	1	12/28/21	MH	70 - 130 %

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 J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
 QA/QC Surrogates: Surrogates are compounds (preceded 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

January 05, 2022

Reviewed and Released by: Ethan Lee, Project Manager



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



Analysis Report

January 05, 2022

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

Sample Information

Matrix: GROUND WATER
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/28/21
12/28/21

Time

9:50
14:25

Laboratory Data

SDG ID: GCK06260
Phoenix ID: CK06261

Project ID: FROST STREET-OU2
Client ID: EX-1B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1-Dichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1-Dichloroethene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	12/28/21	MH	E624.1
Carbon tetrachloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chloroform	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
cis-1,2-Dichloroethene	6.4	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/28/21	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	12/28/21	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	12/28/21	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	1.0	1.0	ug/L	1	12/28/21	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	12/28/21	MH	E624.1
Tetrachloroethene	310	5.0	2.5	ug/L	10	01/03/22	MH	E624.1
Toluene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/28/21	MH	E624.1
Trichloroethene	11	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	104			%	1	12/28/21	MH	70 - 130 %
% Bromofluorobenzene	91			%	1	12/28/21	MH	70 - 130 %
% Dibromofluoromethane	106			%	1	12/28/21	MH	70 - 130 %
% Toluene-d8	100			%	1	12/28/21	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (10x)	103			%	10	01/03/22	MH	70 - 130 %
% Bromofluorobenzene (10x)	95			%	10	01/03/22	MH	70 - 130 %
% Dibromofluoromethane (10x)	113			%	10	01/03/22	MH	70 - 130 %
% Toluene-d8 (10x)	103			%	10	01/03/22	MH	70 - 130 %

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 LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded 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

January 05, 2022

Reviewed and Released by: Ethan Lee, Project Manager



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



Analysis Report

January 05, 2022

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

Sample Information

Matrix: GROUND WATER
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/28/21
12/28/21

Time

9:35
14:25

Laboratory Data

SDG ID: GCK06260
Phoenix ID: CK06262

Project ID: FROST STREET-OU2
Client ID: EX-1C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Volatiles								
1,1,1-Trichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1-Dichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,1-Dichloroethene	0.53	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	12/28/21	MH	E624.1
Carbon tetrachloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chloroform	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Chloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
cis-1,2-Dichloroethene	0.88	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/28/21	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	12/28/21	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	12/28/21	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	1.0	1.0	ug/L	1	12/28/21	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	12/28/21	MH	E624.1
Tetrachloroethene	38	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Toluene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/28/21	MH	E624.1
Trichloroethene	3.5	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	12/28/21	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	106			%	1	12/28/21	MH	70 - 130 %
% Bromofluorobenzene	90			%	1	12/28/21	MH	70 - 130 %
% Dibromofluoromethane	109			%	1	12/28/21	MH	70 - 130 %
% Toluene-d8	101			%	1	12/28/21	MH	70 - 130 %

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 LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded 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

January 05, 2022

Reviewed and Released by: Ethan Lee, Project Manager



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



Analysis Report

January 05, 2022

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

Sample Information

Matrix: GROUND WATER
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/28/21
12/28/21

Time

9:45
14:25

Laboratory Data

SDG ID: GCK06260
Phoenix ID: CK06263

Project ID: FROST STREET-OU2
Client ID: EX-1D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>								
1,1,1-Trichloroethane	0.54	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
1,1-Dichloroethane	0.46	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
1,1-Dichloroethene	5.0	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	12/29/21	MH	E624.1
Carbon tetrachloride	0.74	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Chloroform	0.79	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Chloromethane	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
cis-1,2-Dichloroethene	4.1	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/29/21	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	12/29/21	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	12/29/21	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	1.0	1.0	ug/L	1	12/29/21	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	12/29/21	MH	E624.1
Tetrachloroethene	86	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Toluene	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/29/21	MH	E624.1
Trichloroethene	21	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	12/29/21	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	105			%	1	12/29/21	MH	70 - 130 %
% Bromofluorobenzene	93			%	1	12/29/21	MH	70 - 130 %
% Dibromofluoromethane	106			%	1	12/29/21	MH	70 - 130 %
% Toluene-d8	100			%	1	12/29/21	MH	70 - 130 %

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 J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
 QA/QC Surrogates: Surrogates are compounds (preceded 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.
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Phyllis Shiller, Laboratory Director**January 05, 2022****Reviewed and Released by: Ethan Lee, Project Manager**



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Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

January 05, 2022

QA/QC Data

SDG I.D.: GCK06260

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 606338 (ug/L), QC Sample No: CK06258 (CK06260, CK06261, CK06262, CK06263)										
Volatiles - Ground Water										
1,1,1-Trichloroethane	ND	1.0	99	99	0.0				75 - 125	20
1,1,2,2-Tetrachloroethane	ND	0.50	97	99	2.0				60 - 140	20
1,1,2-Trichloroethane	ND	1.0	93	96	3.2				71 - 129	20
1,1-Dichloroethane	ND	1.0	100	101	1.0				72 - 128	20
1,1-Dichloroethene	ND	1.0	112	111	0.9				50 - 150	20
1,2-Dichlorobenzene	ND	1.0	98	98	0.0				63 - 137	20
1,2-Dichloroethane	ND	1.0	92	96	4.3				68 - 132	20
1,2-Dichloropropane	ND	1.0	96	99	3.1				40 - 160	20
1,3-Dichlorobenzene	ND	1.0	99	98	1.0				73 - 127	20
1,4-Dichlorobenzene	ND	1.0	98	98	0.0				63 - 137	20
Benzene	ND	0.70	98	100	2.0				64 - 136	20
Bromodichloromethane	ND	0.50	97	96	1.0				65 - 135	20
Bromoform	ND	1.0	97	97	0.0				71 - 129	20
Bromomethane	ND	1.0	108	107	0.9				40 - 160	20
Carbon tetrachloride	ND	1.0	118	116	1.7				73 - 127	20
Chlorobenzene	ND	1.0	97	97	0.0				66 - 134	20
Chloroethane	ND	1.0	115	112	2.6				40 - 160	20
Chloroform	ND	1.0	96	97	1.0				67 - 133	20
Chloromethane	ND	1.0	106	105	0.9				40 - 160	20
cis-1,2-Dichloroethene	ND	1.0	98	98	0.0				69 - 131	20
cis-1,3-Dichloropropene	ND	0.40	101	103	2.0				40 - 160	20
Dibromochloromethane	ND	0.50	97	99	2.0				67 - 133	20
Ethylbenzene	ND	1.0	100	100	0.0				59 - 141	20
m&p-Xylene	ND	1.0	104	103	1.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	110	107	2.8				70 - 130	30
Methylene chloride	ND	1.0	103	100	3.0				60 - 140	20
Naphthalene	ND	1.0	110	109	0.9				70 - 130	30
o-Xylene	ND	1.0	103	105	1.9				70 - 130	30
Tetrachloroethene	ND	1.0	92	95	3.2				73 - 127	20
Toluene	ND	1.0	98	99	1.0				74 - 126	20
trans-1,2-Dichloroethene	ND	1.0	114	109	4.5				69 - 131	20
trans-1,3-Dichloropropene	ND	0.40	100	101	1.0				50 - 150	20
Trichloroethene	ND	1.0	96	95	1.0				66 - 134	20
Trichlorofluoromethane	ND	1.0	119	115	3.4				48 - 152	20
Vinyl chloride	ND	1.0	118	113	4.3				40 - 160	20
% 1,2-dichlorobenzene-d4	103	%	99	100	1.0				70 - 130	30
% Bromofluorobenzene	92	%	99	96	3.1				70 - 130	30
% Dibromofluoromethane	107	%	102	100	2.0				70 - 130	30
% Toluene-d8	103	%	101	101	0.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

QA/QC Data

SDG I.D.: GCK06260

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

QA/QC Batch 606846 (ug/L), QC Sample No: CK08313 (CK06261 (10X))

Volatiles - Ground Water

Tetrachloroethene	ND	1.0	101	96	5.1	101	99	2.0	73 - 127	20
% 1,2-dichlorobenzene-d4	103	%	100	99	1.0	101	102	1.0	70 - 130	30
% Bromofluorobenzene	98	%	102	102	0.0	102	102	0.0	70 - 130	30
% Dibromofluoromethane	108	%	102	101	1.0	108	105	2.8	70 - 130	30
% Toluene-d8	102	%	101	100	1.0	101	101	0.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

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

January 05, 2022

Wednesday, January 05, 2022

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCK06260 - ENVIROTR

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



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Analysis Comments

January 05, 2022

SDG I.D.: GCK06260

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



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NY Temperature Narration

January 05, 2022

SDG I.D.: GCK06260

The samples in this delivery group were received at 2.9°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Customer: EnviroTrac
Address: 5 Old Dock Road
Yaphank, NY 11980

Project: Frost Street - OU2
Report to: Jim Wilkinson
Invoice to: EnviroTrac

Data Delivery/Contact Options:

☐ Fax: _____
☐ Phone: _____
☐ Email: jamesw@envirotrac.com

Project P.O.:

Client Sample - Information - Identification

Sampler's Signature _____ **Date** _____

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe Oil=Oil
 B=Bulk L=Liquid

PHOENIX USE ONLY	SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
	000260	EX-1A	GW	12/28/01	930
	000261	EX-1B	GW		930
	000262	EX-1C	GW		935
	000263	EX-1D	GW		945

Analysis Request	1,1-dichloroethene
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
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85	85
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94	94
95	95
96	96
97	97
98	98
99	99
100	100

GL Amber 8 oz w/H ₂ O
Soil VOA Vials [methanol] H ₂ O
GL VOA Vial () or
GL Soil container () or
40 ml VOA Vial () or
PL As is [] HCl
PL As is [] HNO ₃
PL H ₂ SO ₄ [] 250ml [] 500ml
PL NaOH 250ml
Bacterial Bottle as is

[illegible]

Relinquished by:	Accepted by:
------------------	--------------

Date: _____ Time: _____

RI

Data Format

10:15	14:25	15:00	15:45	16:30	17:15	18:00	18:45	19:30	20:15	21:00	21:45	22:30	23:15	24:00
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

☐ Direct Exposure
(Residential)
☐ GW
☐ Other:

	RCP Cert	MCP Certification
GW Protection	☒	GW-1
SW Protection	☒	GW-2
GA Mobility	☒	GW-3
GB Mobility	☒	S-1
Residential DEC	☒	S-2
I/C DEC	☒	S-3
Other	☒	MWRA eSMART
		Other

☒	Excel
☒	PDF
☐	GIS/Key
☐	EQUIS
☐	Other

Data Packages

☐	Tier II Che
☐	Full Data P
☐	Phoenix S
☐	Other

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard

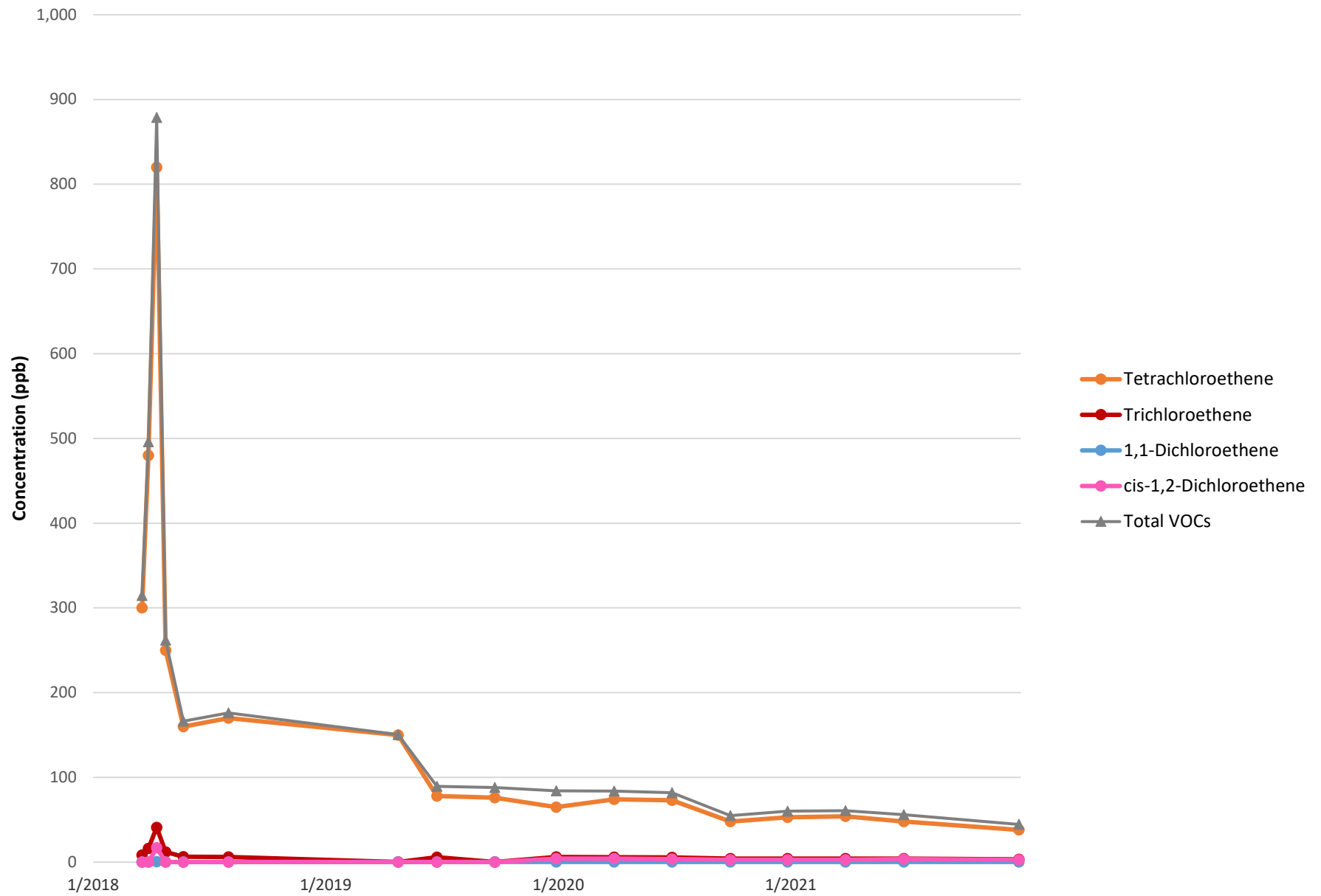
☐ Other

State where samples were collected: NY

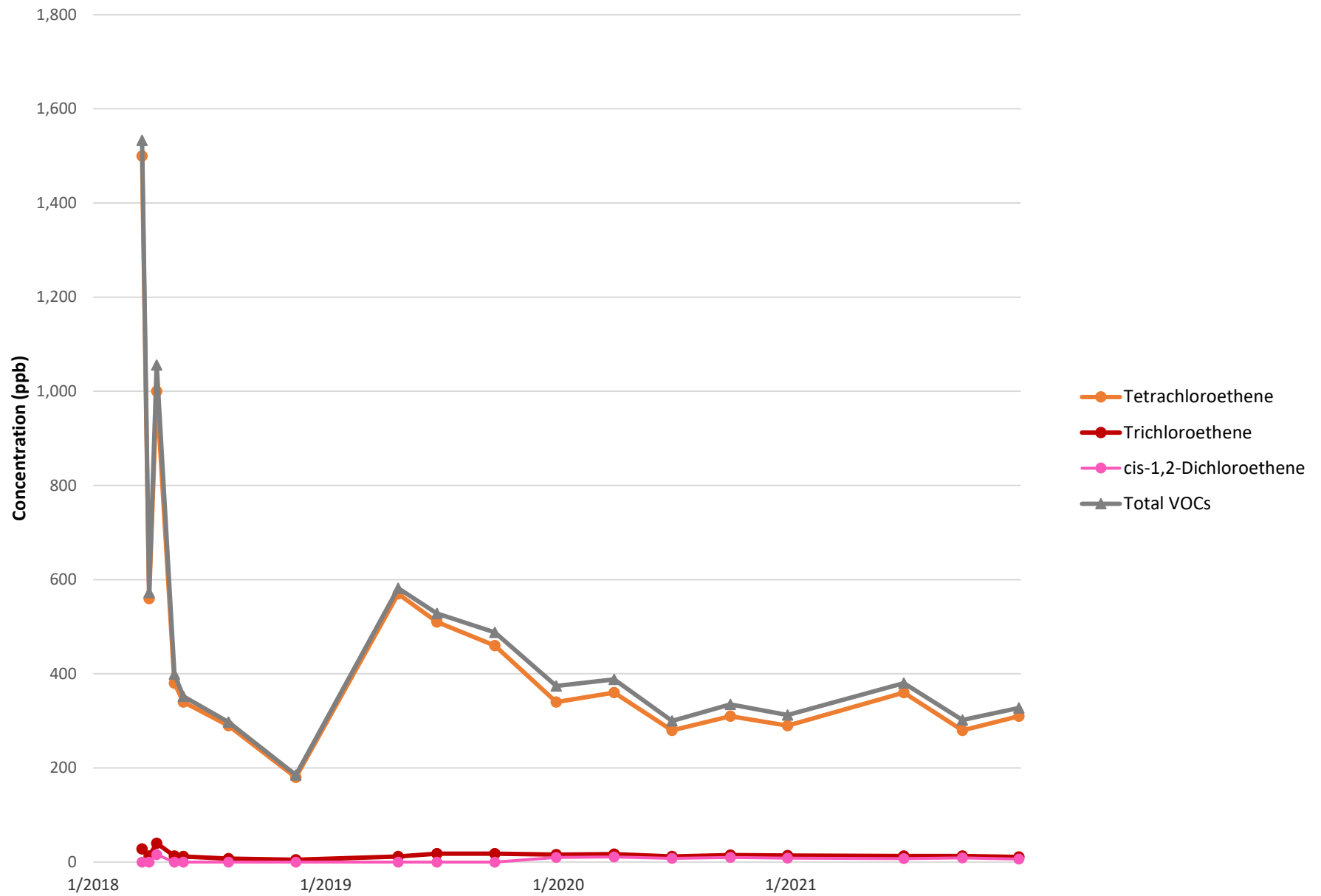
*** SURCHARGE APPLIES**

Appendix E
Groundwater Extraction Well Sampling
Historical Results

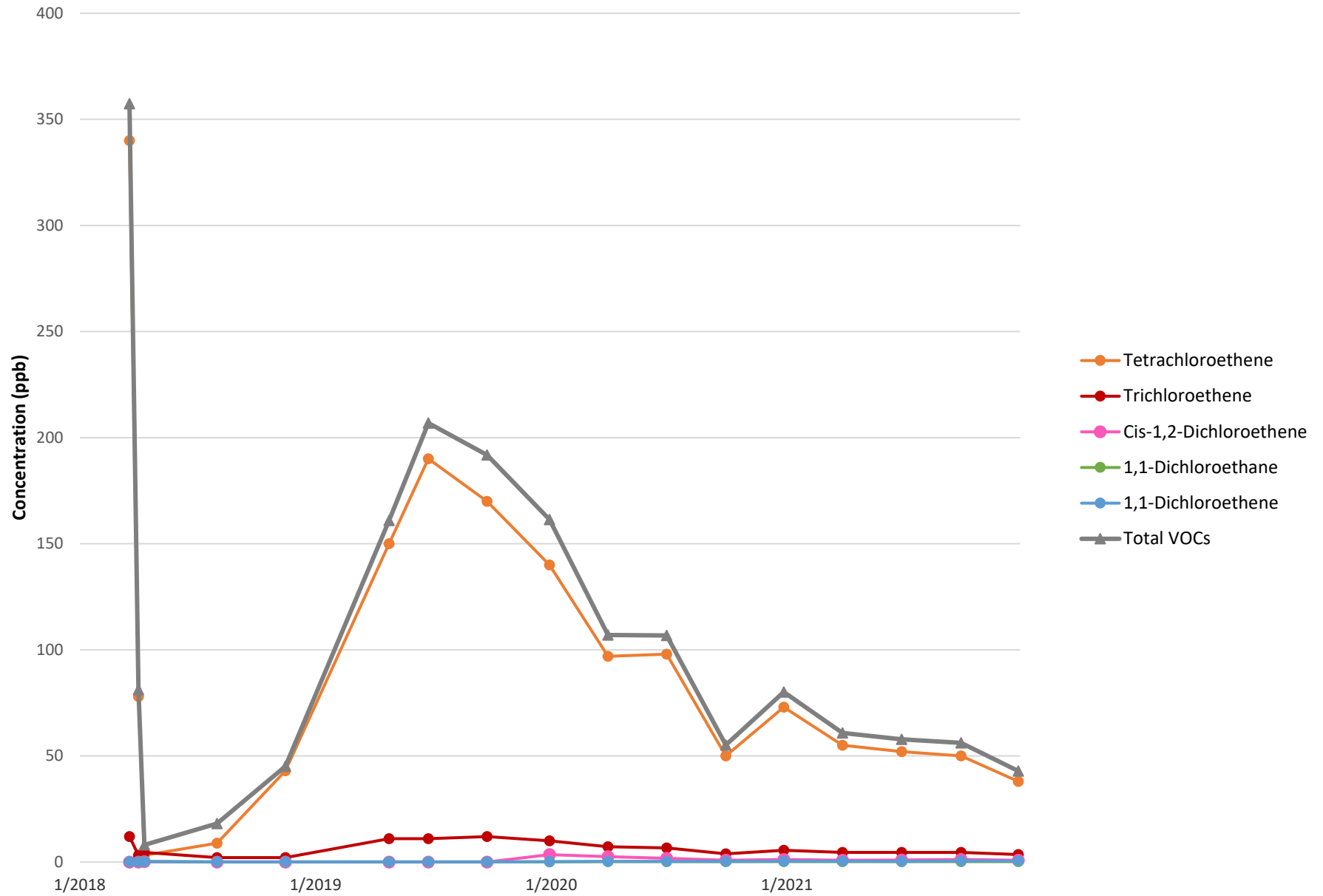
EX-1A



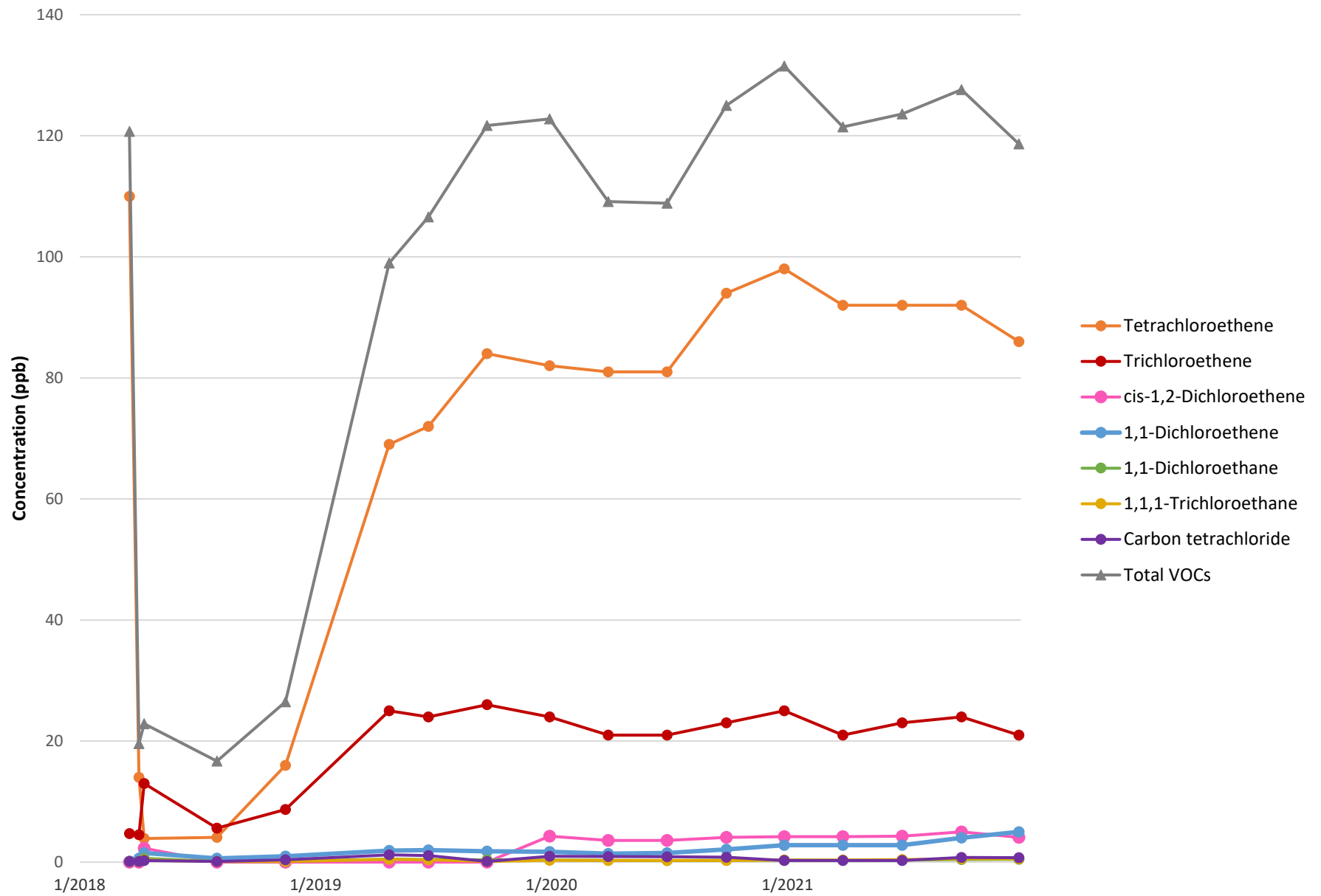
EX-1B



EX-1C



EX-1D



All Wells - Total VOCs

