

April 12, 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: March 2021
Frost Street Sites: Site ID#s 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 March 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 related to the soft start for SVE Blower 2. The soft start will be replaced the week of April 12. SVE Blower 1 and the new claw pump ran full time.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on March 30, 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 [32,626 µg/m³]) continue to indicate significant mass extraction.

- Effluent concentrations are below the carbon exchange indicator concentrations, as shown below.

Frost Street Sites Effluent Compliance			
System Flow Rate =		800 ft ³ /min	
Compound	Annual Mass Emission Limit ¹ (lbs/year)	Carbon Exchange Required Indicator Concentration (µg/m ³) ²	March 2021 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	ND
Tetrachloroethene	1,000	38,000	1.13
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ³	100	3,800	0.36

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 (March 30 – 550 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 most of March, until midday on March 23 when the EX-1B pump alarmed and would not restart. A repair is expected in early May.

Quarterly samples were collected from each operational extraction well on March 30 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	NS	ND	0.34
1,1-Dichloroethane	ND	NS	ND	0.32
1,1-Dichloroethene	ND	NS	0.37	2.8
Carbon Tetrachloride	ND	NS	ND	0.85
Chloroform	ND	NS	ND	0.75
cis-1,2-Dichloroethene	2.7	NS	0.84	3.4
Tetrachloroethene	54	NS	55	92
Trichloroethene	4.1	NS	4.6	21
Total VOCs	60.8	NS	60.81	121.46

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 first quarter 2021 groundwater sampling event was performed the week of February 8. The electronic data deliverable was submitted to NYDSEC on April 2; full results will be submitted in a forthcoming report.

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>
	K. Maldonado, Esq.	<i>Via email to kevinmaldonado64@yahoo.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
 Ensae-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: 18-Mar
Weather / Temp: Rain / 40 DEG
Technician / Operator: JW

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

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	OFF		OFF		AS Compressor 1 (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	ON		ON		AS Compressor 2 (ON/OFF)	OFF		OFF	
					Air Cooler (ON/OFF)	ON		ON	
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4100		805		Blower 1 Total Runtime (hrs)	60,648.5			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	61,339.6			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	60				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	4				VGAC-1 Influent PID (ppm)	7.0			
VGAC-1 Influent Vacuum ("H2O)	50				VGAC-1 Effluent PID (ppm)	1.0			
VGAC-1 Effluent Vacuum ("H2O)	56				VGAC-2 Influent PID (ppm)	7.0			
VGAC-2 Influent Vacuum ("H2O)	50				VGAC-2 Effluent PID (ppm)	1.0			
VGAC-2 Effluent Vacuum ("H2O)	50				VGAC-3 Influent PID (ppm)	1.0			
VGAC-3 Influent Pressure ("H2O)	6				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Effluent Prerssure ("H2O)	2				Blower Effluent PID (ppm)	1.0			
VGAC-3 Influent Temp (DegF)	138				Transfer Pump Total Runtime (hrs)	25,044.4			
Blower Effluent Pressure ("H2O)	20				Condensate Storage Tank Level (gal)	500 -> 50			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	50	7800	170	6.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	44	4200	92	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	53	4200	92	15.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	44	3000	65	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	45	4800	105	2.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	43	6500	142	24.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	44	4200	92	1.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	47	3000	65	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	12				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	530.7				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)	15				AS Manifold Temperature (degF)	56			
Air Cooler Outlet Pressure (psi)	14				AS Manifold Pressure	12			
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	15		10		AS-11 (psi)/(cfm)	16		4	
AS-2 (psi)/(cfm)	11		12		AS-12B (psi)/(cfm)	17		11	
AS-3 (psi)/(cfm)	13		10		AS-13B (psi)/(cfm)	15		10	
AS-4 (psi)/(cfm)	14		4		AS-14 (psi)/(cfm)	15		13	
AS-5 (psi)/(cfm)	12		10		AS-15 (psi)/(cfm)	15		11	
AS-6 (psi)/(cfm)	17		12		AS-16B (psi)/(cfm)	15		11	
AS-7 (psi)/(cfm)	17		8		AS-17 (psi)/(cfm)	15		8	
AS-8 (psi)/(cfm)	15		10		AS-18 (psi)/(cfm)	15		10	
AS-9 (psi)/(cfm)	17		10		AS-19 (psi)/(cfm)	15		5	
AS-10B (psi)/(cfm)	15		12						

Notes, Comments & Observations:

Collected monthly air samples.

Discharged 550 gallons of water on 3/30 and collected sample.

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: 18-Mar
Weather / Temp: Rain / 40 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	Y	26.8 A
-Inspect Belts	Weekly	Y	
SVE Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
Phase Separator/Storage Tank			
-Inspect	Weekly	Y	
-Check Level Switches	As Required	Y	
-Inspect water storage tank	Weekly	Y	
-Pump water to sewer drain	As Required	Y	
AS Compressor 1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	Y	27.0 A
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**

[illegible]

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



Wednesday, March 24, 2021

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

Project ID: ENSAFE WESTBURY
SDG ID: GCH83107
Sample ID#s: CH83107 - CH83108

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

March 24, 2021

SDG I.D.: GCH83107

Project ID: ENSAFE WESTBURY

Client Id	Lab Id	Matrix
SVE EFFLUENT	CH83107	AIR
SVE INFLUENT	CH83108	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

March 24, 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: 831

Custody Information

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

Date

03/18/21
03/22/21

Time

9:59
14:57

Laboratory Data

SDG ID: GCH83107
Phoenix ID: CH83107

Project ID: ENSAFE WESTBURY
Client ID: SVE EFFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	03/22/21	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	03/22/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	03/22/21	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	03/22/21	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	03/22/21	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	03/22/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	03/22/21	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	03/22/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	03/22/21	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	03/22/21	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	03/22/21	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	03/22/21	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	03/22/21	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	03/22/21	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	03/22/21	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	03/22/21	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	03/22/21	KCA	1
1,4-Dioxane	0.357	0.278	1.29	1.00	03/22/21	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	03/22/21	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	03/22/21	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	03/22/21	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	03/22/21	KCA	1
Acetone	11.5	0.421	27.3	1.00	03/22/21	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	03/22/21	KCA	1
Benzene	0.338	0.313	1.08	1.00	03/22/21	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	03/22/21	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	03/22/21	KCA	1	
Bromoform	ND	0.097	ND	1.00	03/22/21	KCA	1	
Bromomethane	ND	0.258	ND	1.00	03/22/21	KCA	1	
Carbon Disulfide	ND	0.321	ND	1.00	03/22/21	KCA	1	
Carbon Tetrachloride	ND	0.032	ND	0.20	03/22/21	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	03/22/21	KCA	1	
Chloroethane	ND	0.379	ND	1.00	03/22/21	KCA	1	
Chloroform	ND	0.205	ND	1.00	03/22/21	KCA	1	
Chloromethane	ND	0.485	ND	1.00	03/22/21	KCA	1	
Cis-1,2-Dichloroethene	0.092	0.051	0.36	0.20	03/22/21	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	03/22/21	KCA	1	
Cyclohexane	ND	0.291	ND	1.00	03/22/21	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	03/22/21	KCA	1	
Dichlorodifluoromethane	0.405	0.202	2.00	1.00	03/22/21	KCA	1	
Ethanol	210	E 2.66	395	5.01	03/22/21	KCA	5	1
Ethyl acetate	ND	0.278	ND	1.00	03/22/21	KCA	1	1
Ethylbenzene	ND	0.230	ND	1.00	03/22/21	KCA	1	
Heptane	ND	0.244	ND	1.00	03/22/21	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	03/22/21	KCA	1	
Hexane	ND	0.284	ND	1.00	03/22/21	KCA	1	
Isopropylalcohol	5.50	0.407	13.5	1.00	03/22/21	KCA	1	
Isopropylbenzene	0.386	0.204	1.90	1.00	03/22/21	KCA	1	
m,p-Xylene	ND	0.230	ND	1.00	03/22/21	KCA	1	
Methyl Ethyl Ketone	3.25	0.339	9.6	1.00	03/22/21	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	03/22/21	KCA	1	
Methylene Chloride	ND	0.864	ND	3.00	03/22/21	KCA	1	
n-Butylbenzene	ND	0.182	ND	1.00	03/22/21	KCA	1	1
o-Xylene	ND	0.230	ND	1.00	03/22/21	KCA	1	
Propylene	ND	0.581	ND	1.00	03/22/21	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	03/22/21	KCA	1	1
Styrene	ND	0.235	ND	1.00	03/22/21	KCA	1	
Tetrachloroethene	0.167	0.037	1.13	0.25	03/22/21	KCA	1	
Tetrahydrofuran	0.849	0.339	2.50	1.00	03/22/21	KCA	1	1
Toluene	0.307	0.266	1.16	1.00	03/22/21	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	03/22/21	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	03/22/21	KCA	1	
Trichloroethene	ND	0.037	ND	0.20	03/22/21	KCA	1	
Trichlorofluoromethane	ND	0.178	ND	1.00	03/22/21	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	03/22/21	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	03/22/21	KCA	1	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene	99	%	99	%	03/22/21	KCA	1	
% IS-1,4-Difluorobenzene	90	%	90	%	03/22/21	KCA	1	
% IS-Bromochloromethane	91	%	91	%	03/22/21	KCA	1	
% IS-Chlorobenzene-d5	90	%	90	%	03/22/21	KCA	1	
% Bromofluorobenzene (5x)	96	%	96	%	03/22/21	KCA	5	
% IS-1,4-Difluorobenzene (5x)	106	%	106	%	03/22/21	KCA	5	
% IS-Bromochloromethane (5x)	105	%	105	%	03/22/21	KCA	5	
% IS-Chlorobenzene-d5 (5x)	103	%	103	%	03/22/21	KCA	5	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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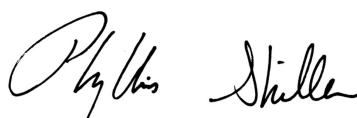
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

March 24, 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

March 24, 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: 706

Custody Information

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

Date

03/18/21 10:03
03/22/21 14:57

Time

Project ID: ENSAFE WESTBURY
Client ID: SVE INFLUENT

Laboratory Data

SDG ID: GCH83107
Phoenix ID: CH83108

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.729	ND	5.00	03/22/21	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	03/22/21	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	03/22/21	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	03/22/21	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	03/22/21	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	03/22/21	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	03/22/21	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	03/22/21	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	03/22/21	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	03/22/21	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	03/22/21	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	03/22/21	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	03/22/21	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	03/22/21	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	03/22/21	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	03/22/21	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	03/22/21	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	03/22/21	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	03/22/21	KCA	5
4-Ethyltoluene	ND	1.02	ND	5.01	03/22/21	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	03/22/21	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	03/22/21	KCA	5
Acetone	2.71	2.11	6.43	5.01	03/22/21	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	03/22/21	KCA	5
Benzene	ND	1.57	ND	5.01	03/22/21	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	03/22/21	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	03/22/21	KCA	5	
Bromoform	ND	0.484	ND	5.00	03/22/21	KCA	5	
Bromomethane	ND	1.29	ND	5.01	03/22/21	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	03/22/21	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	03/22/21	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	03/22/21	KCA	5	
Chloroethane	ND	1.90	ND	5.01	03/22/21	KCA	5	
Chloroform	ND	1.02	ND	4.98	03/22/21	KCA	5	
Chloromethane	ND	2.42	ND	4.99	03/22/21	KCA	5	
Cis-1,2-Dichloroethene	173	0.252	686	1.00	03/22/21	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	03/22/21	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	03/22/21	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	03/22/21	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	03/22/21	KCA	5	
Ethanol	10.9	2.66	20.5	5.01	03/22/21	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	03/22/21	KCA	5	1
Ethylbenzene	ND	1.15	ND	4.99	03/22/21	KCA	5	
Heptane	ND	1.22	ND	5.00	03/22/21	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	03/22/21	KCA	5	
Hexane	ND	1.42	ND	5.00	03/22/21	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	03/22/21	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	03/22/21	KCA	5	
m,p-Xylene	ND	1.15	ND	4.99	03/22/21	KCA	5	
Methyl Ethyl Ketone	ND	1.70	ND	5.01	03/22/21	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	03/22/21	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	03/22/21	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	03/22/21	KCA	5	1
o-Xylene	ND	1.15	ND	4.99	03/22/21	KCA	5	
Propylene	ND	2.91	ND	5.01	03/22/21	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	03/22/21	KCA	5	1
Styrene	ND	1.17	ND	4.98	03/22/21	KCA	5	
Tetrachloroethene	4510	5.53	30600	37.5	03/23/21	KCA	150	
Tetrahydrofuran	ND	1.70	ND	5.01	03/22/21	KCA	5	1
Toluene	ND	1.33	ND	5.01	03/22/21	KCA	5	
Trans-1,2-Dichloroethene	1.37	1.26	5.43	4.99	03/22/21	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	03/22/21	KCA	5	
Trichloroethene	249	5.59	1340	30.0	03/23/21	KCA	150	
Trichlorofluoromethane	ND	0.891	ND	5.00	03/22/21	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	03/22/21	KCA	5	
Vinyl Chloride	ND	0.391	ND	1.00	03/22/21	KCA	5	
<u>QA/OC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	96	%	96	%	03/22/21	KCA	5	
% IS-1,4-Difluorobenzene (5x)	105	%	105	%	03/22/21	KCA	5	
% IS-Bromochloromethane (5x)	107	%	107	%	03/22/21	KCA	5	
% IS-Chlorobenzene-d5 (5x)	108	%	108	%	03/22/21	KCA	5	
% Bromofluorobenzene (150x)	95	%	95	%	03/23/21	KCA	150	
% IS-1,4-Difluorobenzene (150x)	91	%	91	%	03/23/21	KCA	150	
% IS-Bromochloromethane (150x)	92	%	92	%	03/23/21	KCA	150	
% IS-Chlorobenzene-d5 (150x)	91	%	91	%	03/23/21	KCA	150	

Client ID: SVE INFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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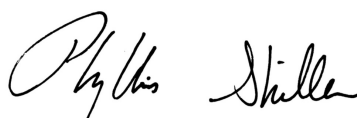
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

March 24, 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

March 24, 2021

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

Location Code: ENVIOTR

SDG I.D.: GCH83107

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	CH83107	831	1.4L		03/15/21	-30	-3		B SAM				03/18/21 09:58	03/18/21 09:59
SVE INFLUENT	CH83108	706	1.4L		03/15/21	-30	-4		B SAM				03/18/21 10:02	03/18/21 10:03



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QA/QC Report

March 24, 2021

QA/QC Data

SDG I.D.: GCH83107

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 567953 (ppbv), QC Sample No: CH82110 (CH83107 (1X, 5X) , CH83108 (5X, 150X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	94	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	96	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	106	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	101	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	82	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	113	20.4	20.4	4.15	4.15	0.0	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	97	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	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	109	4.46	4.64	0.907	0.944	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	99	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	103	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	91	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	109	21.0	21.0	4.28	4.28	0.0	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	106	1.03	1.03	0.188	0.187	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	107	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	92	29.7	31.8	12.5	13.4	6.9	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	109	6.64	6.77	2.08	2.12	1.9	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	92	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	97	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	100	1.97	1.96	0.632	0.629	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	100	0.26	0.28	0.042	0.045	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	99	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	102	1.75	1.76	0.358	0.360	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	108	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	113	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	113	4.88	4.95	1.42	1.44	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	101	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	82	1.94	1.94	0.393	0.392	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	119	121 E	119	64.3 E	63.2	1.7	70 - 130	25

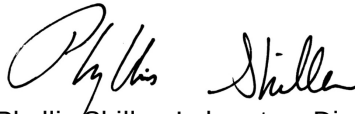
QA/QC Data

SDG I.D.: GCH83107

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	119	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	104	186	192	42.9	44.3	3.2	70 - 130	25
Heptane	ND	0.240	ND	0.98	108	12.4	12.5	3.02	3.06	1.3	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	85	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	116	12.7	13.0	3.60	3.70	2.7	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	103	4.81	4.72	1.96	1.92	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	105	5.01	5.16	1.02	1.05	2.9	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	109	634	634	146	146	0.0	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	107	20.2	20.5	6.86	6.94	1.2	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	110	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	104	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	106	3.14	3.19	0.573	0.581	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	110	240	244	55.4	56.2	1.4	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	104	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	115	ND	0.98	ND	0.230	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	98	20.4	20.5	3.01	3.02	0.3	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	107	50.8	52.4	13.5	13.9	2.9	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	107	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	101	0.20	ND	0.037	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	96	1.72	1.74	0.306	0.310	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	104	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	96	%	96	%	99	89	88	89	88	NC	70 - 130	25
% IS-1,4-Difluorobenzene	102	%	102	%	106	102	106	102	106	NC	60 - 140	25
% IS-Bromochloromethane	102	%	102	%	104	101	105	101	105	NC	60 - 140	25
% IS-Chlorobenzene-d5	100	%	100	%	106	121	123	121	123	NC	60 - 140	25

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
 March 24, 2021

Wednesday, March 24, 2021

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCH83107 - 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.



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



Analysis Comments

March 24, 2021

SDG I.D.: GCH83107

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

Appendix C
AS/SVE System Water Sample
Laboratory Analytical Results



Monday, April 05, 2021

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

Project ID: FROST STREET OU1
SDG ID: GCH88565
Sample ID#s: CH88565

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



Sample Id Cross Reference

April 05, 2021

SDG I.D.: GCH88565

Project ID: FROST STREET OU1

Client Id	Lab Id	Matrix
SVE DISCHARGE WATER	CH88565	GW DISCHARGE



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



Analysis Report

April 05, 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: B
Analyzed by: see "By" below

Date

03/30/21
03/30/21

Time

10:00
15:40

Laboratory Data

SDG ID: GCH88565
Phoenix ID: CH88565

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	04/01/21	TH	E200.7
Chromium	< 0.001	0.001		mg/L	1	04/01/21	TH	E200.7
Copper	< 0.003	0.003		mg/L	1	04/01/21	TH	E200.7
Iron	0.090	0.005		mg/L	1	04/01/21	TH	E200.7
Nickel	0.003	0.001		mg/L	1	04/01/21	TH	E200.7
Zinc	0.924	0.002		mg/L	1	04/01/21	TH	E200.7
Chromium, Hexavalent	< 0.01	0.01		mg/L	1	03/30/21 17:13	MW	SM3500CRB-11
PCB Extraction	Completed					03/31/21	AT/AT	E608.3
Total Metals Digestion	Completed					03/31/21	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.047	0.047	ug/L	1	04/02/21	SC	E608.3	
PCB-1221	ND	0.047	0.047	ug/L	1	04/02/21	SC	E608.3	
PCB-1232	ND	0.047	0.047	ug/L	1	04/02/21	SC	E608.3	
PCB-1242	ND	0.047	0.047	ug/L	1	04/02/21	SC	E608.3	
PCB-1248	ND	0.047	0.047	ug/L	1	04/02/21	SC	E608.3	
PCB-1254	ND	0.047	0.047	ug/L	1	04/02/21	SC	E608.3	
PCB-1260	ND	0.047	0.047	ug/L	1	04/02/21	SC	E608.3	
PCB-1262	ND	0.047	0.047	ug/L	1	04/02/21	SC	E608.3	1
PCB-1268	ND	0.047	0.047	ug/L	1	04/02/21	SC	E608.3	1

QA/QC Surrogates

% DCBP	46			%	1	04/02/21	SC	30 - 150 %	
% DCBP (Confirmation)	41			%	1	04/02/21	SC	30 - 150 %	
% TCMX	84			%	1	04/02/21	SC	30 - 150 %	
% TCMX (Confirmation)	71			%	1	04/02/21	SC	30 - 150 %	

Volatiles

1,1,1-Trichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1	
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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1-Dichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1-Dichloroethene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	03/30/21	MH	E624.1
Carbon tetrachloride	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloroform	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
cis-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/30/21	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	03/30/21	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	03/30/21	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Naphthalene	ND	1.0	1.0	ug/L	1	03/30/21	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	03/30/21	MH	E624.1
Tetrachloroethene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Toluene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/30/21	MH	E624.1
Trichloroethene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	103			%	1	03/30/21	MH	70 - 130 %
% Bromofluorobenzene	102			%	1	03/30/21	MH	70 - 130 %
% Dibromofluoromethane	103			%	1	03/30/21	MH	70 - 130 %
% Toluene-d8	98			%	1	03/30/21	MH	70 - 130 %

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

Phoenix I.D.: CH88565

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
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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 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

April 05, 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

April 05, 2021

QA/QC Data

SDG I.D.: GCH88565

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 569149 (mg/L), QC Sample No: CH88631 (CH88565)													
<u>ICP Metals - Aqueous</u>													
Cadmium	BRL	0.0005	<0.001	<0.0005	NC	101	99.4	1.6	98.2			80 - 120	20
Chromium	BRL	0.0005	<0.001	0.0006	NC	102	99.7	2.3	100			80 - 120	20
Copper	BRL	0.0025	0.006	0.0066	NC	99.9	98.6	1.3	107			80 - 120	20
Iron	BRL	0.0050	0.153	0.155	1.30	106	105	0.9	105			80 - 120	20
Nickel	BRL	0.0005	0.002	0.0034	NC	101	99.2	1.8	97.6			80 - 120	20
Zinc	BRL	0.0020	0.031	0.0328	5.60	99.2	97.5	1.7	102			80 - 120	20

Comment:

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



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QA/QC Report

April 05, 2021

QA/QC Data

SDG I.D.: GCH88565

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 568980 (mg/L), QC Sample No: CH88549 (CH88565)													
Chromium, Hexavalent	BRL	0.01	<0.01	<0.01	NC	95.0			94.6			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

April 05, 2021

QA/QC Data

SDG I.D.: GCH88565

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 569133 (ug/L), QC Sample No: CH87641 (CH88565)										
<u>Polychlorinated Biphenyls</u>										
PCB-1016	ND	0.050	70	76	8.2				50 - 140	20
PCB-1221	ND	0.050							40 - 140	20
PCB-1232	ND	0.050							40 - 140	20
PCB-1242	ND	0.050							40 - 140	20
PCB-1248	ND	0.050							40 - 140	20
PCB-1254	ND	0.050							40 - 140	20
PCB-1260	ND	0.050	84	86	2.4				30 - 140	20
PCB-1262	ND	0.050							40 - 140	20
PCB-1268	ND	0.050							40 - 140	20
% DCBP (Surrogate Rec)	76	%	82	83	1.2				30 - 150	20
% DCBP (Surrogate Rec) (Confirm)	75	%	81	76	6.4				30 - 150	20
% TCMX (Surrogate Rec)	60	%	58	69	17.3				30 - 150	20
% TCMX (Surrogate Rec) (Confirm)	57	%	61	58	5.0				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 569114 (ug/L), QC Sample No: CH88564 (CH88565)

Volatiles

1,1,1-Trichloroethane	ND	1.0	110	108	1.8	109	104	4.7	75 - 125	20
1,1,2,2-Tetrachloroethane	ND	0.50	99	97	2.0	106	105	0.9	60 - 140	20
1,1,2-Trichloroethane	ND	1.0	101	97	4.0	101	101	0.0	71 - 129	20
1,1-Dichloroethane	ND	1.0	102	100	2.0	102	96	6.1	72 - 128	20
1,1-Dichloroethene	ND	1.0	103	104	1.0	102	100	2.0	50 - 150	20
1,2-Dichlorobenzene	ND	1.0	102	98	4.0	99	97	2.0	63 - 137	20
1,2-Dichloroethane	ND	1.0	109	108	0.9	113	106	6.4	68 - 132	20
1,2-Dichloropropane	ND	1.0	99	97	2.0	93	90	3.3	40 - 160	20
1,3-Dichlorobenzene	ND	1.0	99	96	3.1	96	93	3.2	73 - 127	20
1,4-Dichlorobenzene	ND	1.0	100	98	2.0	97	91	6.4	63 - 137	20
Benzene	ND	0.70	97	96	1.0	94	90	4.3	64 - 136	20
Bromodichloromethane	ND	0.50	107	102	4.8	105	99	5.9	65 - 135	20
Bromoform	ND	1.0	100	99	1.0	104	107	2.8	71 - 129	20
Bromomethane	ND	1.0	107	105	1.9	99	100	1.0	40 - 160	20
Carbon tetrachloride	ND	1.0	107	105	1.9	107	102	4.8	73 - 127	20
Chlorobenzene	ND	1.0	101	98	3.0	96	96	0.0	66 - 134	20
Chloroethane	ND	1.0	105	102	2.9	106	98	7.8	40 - 160	20
Chloroform	ND	1.0	101	98	3.0	104	98	5.9	67 - 133	20
Chloromethane	ND	1.0	98	96	2.1	91	91	0.0	40 - 160	20
cis-1,2-Dichloroethene	ND	1.0	91	88	3.4	89	86	3.4	69 - 131	20
cis-1,3-Dichloropropene	ND	0.40	100	98	2.0	96	92	4.3	40 - 160	20
Dibromochloromethane	ND	0.50	107	106	0.9	109	107	1.9	67 - 133	20
Ethylbenzene	ND	1.0	100	99	1.0	97	98	1.0	59 - 141	20

QA/QC Data

SDG I.D.: GCH88565

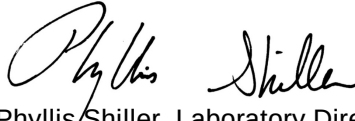
Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
m&p-Xylene	ND	1.0	102	99	3.0	97	98	1.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	102	100	2.0	107	104	2.8	70 - 130	30
Methylene chloride	ND	1.0	104	102	1.9	106	101	4.8	60 - 140	20
Naphthalene	ND	1.0	91	87	4.5	101	96	5.1	70 - 130	30
o-Xylene	ND	1.0	101	101	0.0	97	97	0.0	70 - 130	30
Tetrachloroethene	ND	1.0	97	96	1.0	92	89	3.3	73 - 127	20
Toluene	ND	1.0	100	97	3.0	94	90	4.3	74 - 126	20
trans-1,2-Dichloroethene	ND	1.0	108	103	4.7	108	102	5.7	69 - 131	20
trans-1,3-Dichloropropene	ND	0.40	103	100	3.0	100	98	2.0	50 - 150	20
Trichloroethene	ND	1.0	99	99	0.0	97	92	5.3	66 - 134	20
Trichlorofluoromethane	ND	1.0	118	113	4.3	114	107	6.3	48 - 152	20
Vinyl chloride	ND	1.0	104	102	1.9	98	98	0.0	40 - 160	20
% 1,2-dichlorobenzene-d4	104	%	99	101	2.0	101	102	1.0	70 - 130	30
% Bromofluorobenzene	99	%	100	103	3.0	103	106	2.9	70 - 130	30
% Dibromofluoromethane	103	%	101	98	3.0	100	100	0.0	70 - 130	30
% Toluene-d8	100	%	99	99	0.0	98	98	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
 April 05, 2021

Monday, April 05, 2021

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCH88565 - 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

April 05, 2021

SDG I.D.: GCH88565

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

April 05, 2021

SDG I.D.: GCH88565

The samples in this delivery group were received at 1.5°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

CHAIN OF CUSTODY RECORD



PHOENIX

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

Client Services (860) 645-8726

Customer: EnviroTrac

Project: Frost Street - QU1

Address: 5 Old Dock Road

Report to: Jim Wilkinson

Yaphank, NY 11980

Invoice to: EnviroTrac

QUOTE #

Project P.O.:

1.

Client Sample - Information - Identification

Sampler's Signature	Date:
<i>[Signature]</i>	3/30/21

Analysis Request

Analysis Request	Hexavalent Chromium	1,2-dichloroethene
	Copper, from Nickel Zpc	
	total Cadmium	
	VOCs EPA 624.1 + dis	
	GL Amber 8 oz. w/H3PO4	
	GL VOA Vials	
	GL Soil container	
	GL Amber 1000ml	
	GL H2SO4	
	GL As is	
	GL Amber 250ml	
	GL HNO3 250ml	
	GL NaOH 250ml	
	Saccharin bottles with no	

Matrix Code:
 DDW=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
88505	SVE Discharge Water	GW	3/30/2021	1000
	SVE Discharge Water	GW	3/30/2021	1000
	SVE Discharge Water	GW	3/30/2021	1000
	SVE Discharge Water	GW	3/30/2021	1000

[illegible]

Relinquished by: Jill O. Hughes	Accepted by: Jill O. Hughes
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Additional, Special Requirements or Regulations:

Date:	Time:	☐ Direct Exposure (Residential) ☐ GW ☐ Other		☐ RCP Cert ☐ GW Protection ☐ SW Protection ☐ GA Mobility ☐ GB Mobility ☐ Residential DEC ☐ I/C DEC ☐ Other	☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☒ S-2 ☐ S-3 ☐ MVRSA 604-447	☐ Other	Data Format ☒ Excel ☐ PDF ☐ GIS/Key ☐ EquiS ☐ Other Data Package ☐ Tier II Checklist ☐ Full Data Package* ☐ Phoenix Std Report ☐ Other	* SURCHARGE APPLIES
Turnaround: ☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard ☐ Other		State where samples were collected: <u>NY</u>						

*** SURCHARGE APPLIES**

Appendix D
Groundwater Extraction System Water Samples
Laboratory Analytical Results



Thursday, April 01, 2021

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

Project ID: FROST STREET OU2
SDG ID: GCH88566
Sample ID#s: CH88566 - CH88568

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



Sample Id Cross Reference

April 01, 2021

SDG I.D.: GCH88566

Project ID: FROST STREET OU2

Client Id	Lab Id	Matrix
EX-1A	CH88566	GROUND WATER
EX-1C	CH88567	GROUND WATER
EX-1D	CH88568	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

April 01, 2021

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: B
Analyzed by: see "By" below

Date

03/30/21
03/30/21

Time

9:30
15:40

Laboratory Data

SDG ID: GCH88566
Phoenix ID: CH88566

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	03/30/21	MH	E624.1
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1-Dichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1-Dichloroethene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	03/30/21	MH	E624.1
Carbon tetrachloride	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloroform	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
cis-1,2-Dichloroethene	2.7	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/30/21	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	03/30/21	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	03/30/21	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	1.0	1.0	ug/L	1	03/30/21	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	03/30/21	MH	E624.1
Tetrachloroethene	54	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Toluene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/30/21	MH	E624.1
Trichloroethene	4.1	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	104			%	1	03/30/21	MH	70 - 130 %
% Bromofluorobenzene	99			%	1	03/30/21	MH	70 - 130 %
% Dibromofluoromethane	104			%	1	03/30/21	MH	70 - 130 %
% Toluene-d8	97			%	1	03/30/21	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

April 01, 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



Analysis Report

April 01, 2021

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: B
Analyzed by: see "By" below

Date

03/30/21
03/30/21

Time

9:30
15:40

Laboratory Data

SDG ID: GCH88566
Phoenix ID: CH88567

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

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	03/30/21	MH	E624.1
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1-Dichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1-Dichloroethene	0.37	J 0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	03/30/21	MH	E624.1
Carbon tetrachloride	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloroform	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
cis-1,2-Dichloroethene	0.84	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/30/21	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	03/30/21	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	03/30/21	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	1.0	1.0	ug/L	1	03/30/21	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	03/30/21	MH	E624.1
Tetrachloroethene	55	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Toluene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/30/21	MH	E624.1
Trichloroethene	4.6	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	103			%	1	03/30/21	MH	70 - 130 %
% Bromofluorobenzene	99			%	1	03/30/21	MH	70 - 130 %
% Dibromofluoromethane	102			%	1	03/30/21	MH	70 - 130 %
% Toluene-d8	98			%	1	03/30/21	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 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.
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Phyllis Shiller, Laboratory Director

April 01, 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



Analysis Report

April 01, 2021

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: B
Analyzed by: see "By" below

Date

03/30/21
03/30/21

Time

9:30
15:40

Laboratory Data

SDG ID: GCH88566
Phoenix ID: CH88568

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	0.34	J 0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1-Dichloroethane	0.32	J 0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,1-Dichloroethene	2.8	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	03/30/21	MH	E624.1
Carbon tetrachloride	0.85	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloroform	0.75	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Chloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
cis-1,2-Dichloroethene	3.4	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/30/21	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	03/30/21	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	03/30/21	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	1.0	1.0	ug/L	1	03/30/21	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	03/30/21	MH	E624.1
Tetrachloroethene	92	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Toluene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/30/21	MH	E624.1
Trichloroethene	21	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	03/30/21	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	103			%	1	03/30/21	MH	70 - 130 %
% Bromofluorobenzene	100			%	1	03/30/21	MH	70 - 130 %
% Dibromofluoromethane	99			%	1	03/30/21	MH	70 - 130 %
% Toluene-d8	97			%	1	03/30/21	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 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:

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Phyllis Shiller, Laboratory Director

April 01, 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

April 01, 2021

QA/QC Data

SDG I.D.: GCH88566

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 569114 (ug/L), QC Sample No: CH88564 (CH88566, CH88567, CH88568)										
Volatiles - Ground Water										
1,1,1-Trichloroethane	ND	1.0	110	108	1.8	109	104	4.7	75 - 125	20
1,1,2,2-Tetrachloroethane	ND	0.50	99	97	2.0	106	105	0.9	60 - 140	20
1,1,2-Trichloroethane	ND	1.0	101	97	4.0	101	101	0.0	71 - 129	20
1,1-Dichloroethane	ND	1.0	102	100	2.0	102	96	6.1	72 - 128	20
1,1-Dichloroethene	ND	1.0	103	104	1.0	102	100	2.0	50 - 150	20
1,2-Dichlorobenzene	ND	1.0	102	98	4.0	99	97	2.0	63 - 137	20
1,2-Dichloroethane	ND	1.0	109	108	0.9	113	106	6.4	68 - 132	20
1,2-Dichloropropane	ND	1.0	99	97	2.0	93	90	3.3	40 - 160	20
1,3-Dichlorobenzene	ND	1.0	99	96	3.1	96	93	3.2	73 - 127	20
1,4-Dichlorobenzene	ND	1.0	100	98	2.0	97	91	6.4	63 - 137	20
Benzene	ND	0.70	97	96	1.0	94	90	4.3	64 - 136	20
Bromodichloromethane	ND	0.50	107	102	4.8	105	99	5.9	65 - 135	20
Bromoform	ND	1.0	100	99	1.0	104	107	2.8	71 - 129	20
Bromomethane	ND	1.0	107	105	1.9	99	100	1.0	40 - 160	20
Carbon tetrachloride	ND	1.0	107	105	1.9	107	102	4.8	73 - 127	20
Chlorobenzene	ND	1.0	101	98	3.0	96	96	0.0	66 - 134	20
Chloroethane	ND	1.0	105	102	2.9	106	98	7.8	40 - 160	20
Chloroform	ND	1.0	101	98	3.0	104	98	5.9	67 - 133	20
Chloromethane	ND	1.0	98	96	2.1	91	91	0.0	40 - 160	20
cis-1,2-Dichloroethene	ND	1.0	91	88	3.4	89	86	3.4	69 - 131	20
cis-1,3-Dichloropropene	ND	0.40	100	98	2.0	96	92	4.3	40 - 160	20
Dibromochloromethane	ND	0.50	107	106	0.9	109	107	1.9	67 - 133	20
Ethylbenzene	ND	1.0	100	99	1.0	97	98	1.0	59 - 141	20
m&p-Xylene	ND	1.0	102	99	3.0	97	98	1.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	102	100	2.0	107	104	2.8	70 - 130	30
Methylene chloride	ND	1.0	104	102	1.9	106	101	4.8	60 - 140	20
Naphthalene	ND	1.0	91	87	4.5	101	96	5.1	70 - 130	30
o-Xylene	ND	1.0	101	101	0.0	97	97	0.0	70 - 130	30
Tetrachloroethene	ND	1.0	97	96	1.0	92	89	3.3	73 - 127	20
Toluene	ND	1.0	100	97	3.0	94	90	4.3	74 - 126	20
trans-1,2-Dichloroethene	ND	1.0	108	103	4.7	108	102	5.7	69 - 131	20
trans-1,3-Dichloropropene	ND	0.40	103	100	3.0	100	98	2.0	50 - 150	20
Trichloroethene	ND	1.0	99	99	0.0	97	92	5.3	66 - 134	20
Trichlorofluoromethane	ND	1.0	118	113	4.3	114	107	6.3	48 - 152	20
Vinyl chloride	ND	1.0	104	102	1.9	98	98	0.0	40 - 160	20
% 1,2-dichlorobenzene-d4	104	%	99	101	2.0	101	102	1.0	70 - 130	30
% Bromofluorobenzene	99	%	100	103	3.0	103	106	2.9	70 - 130	30
% Dibromofluoromethane	103	%	101	98	3.0	100	100	0.0	70 - 130	30
% Toluene-d8	100	%	99	99	0.0	98	98	0.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Data

SDG I.D.: GCH88566

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
		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
April 01, 2021

Thursday, April 01, 2021

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCH88566 - 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

April 01, 2021

SDG I.D.: GCH88566

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



NY Temperature Narration

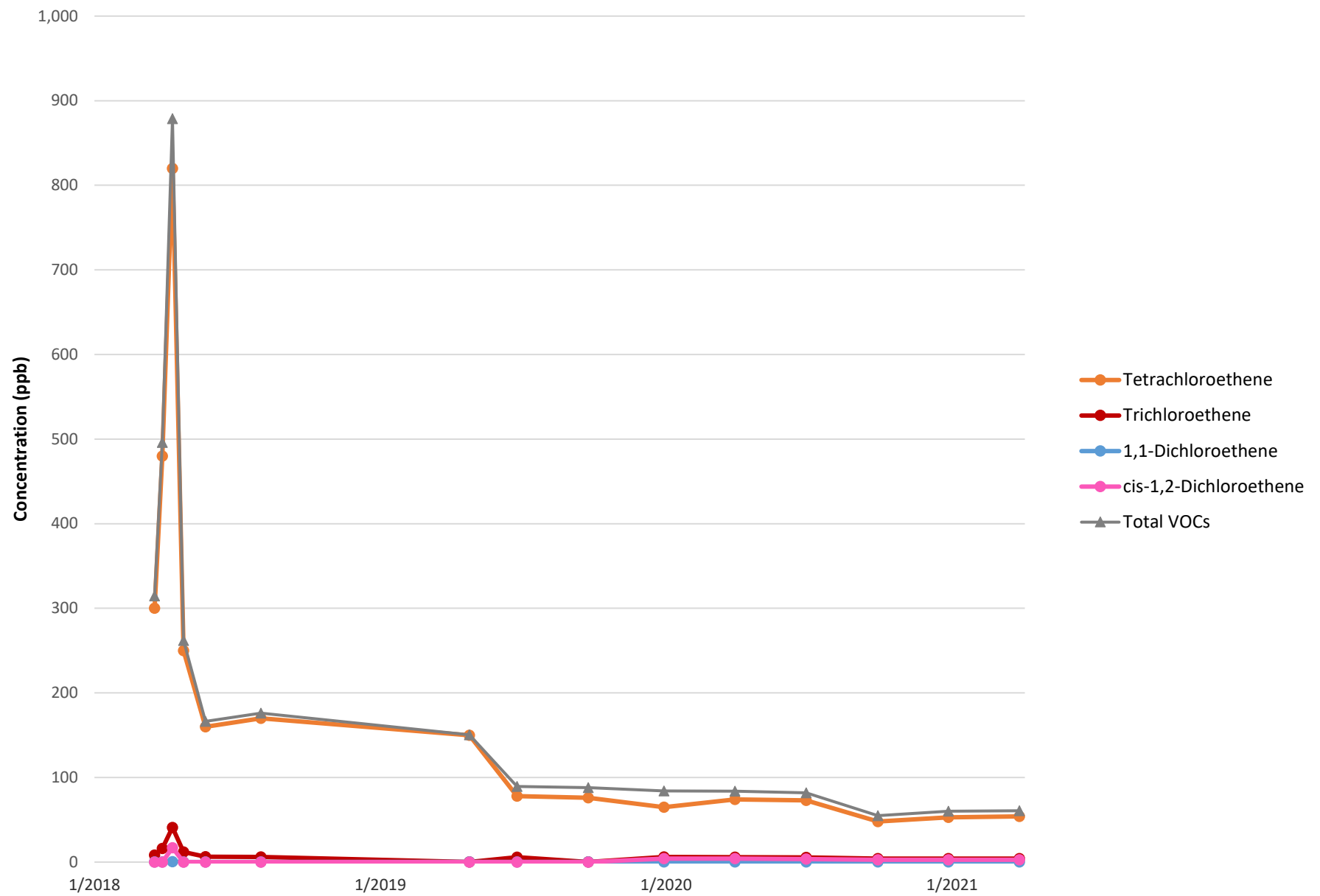
April 01, 2021

SDG I.D.: GCH88566

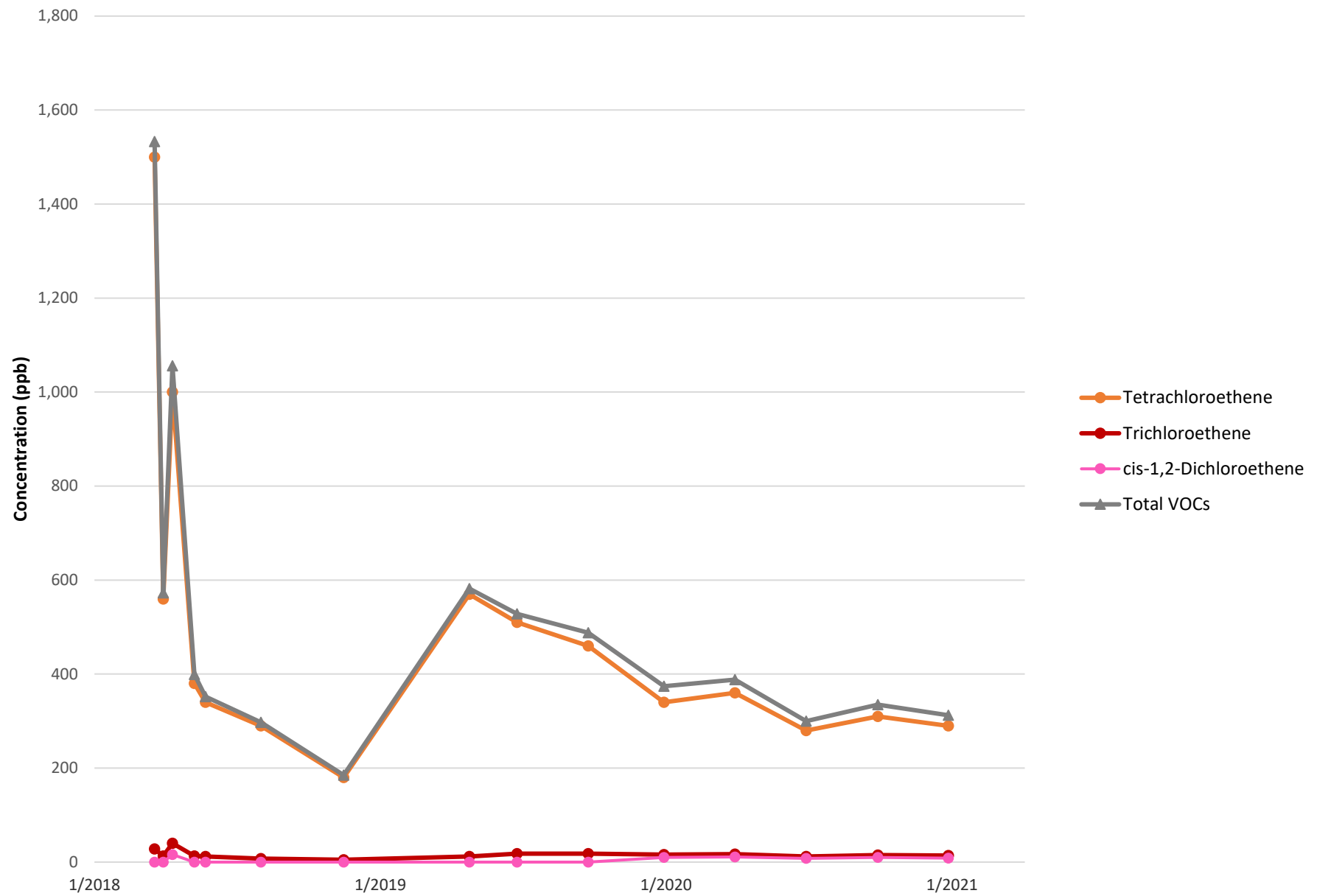
The samples in this delivery group were received at 1.5°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Appendix E
Groundwater Extraction Well Sampling
Historical Results

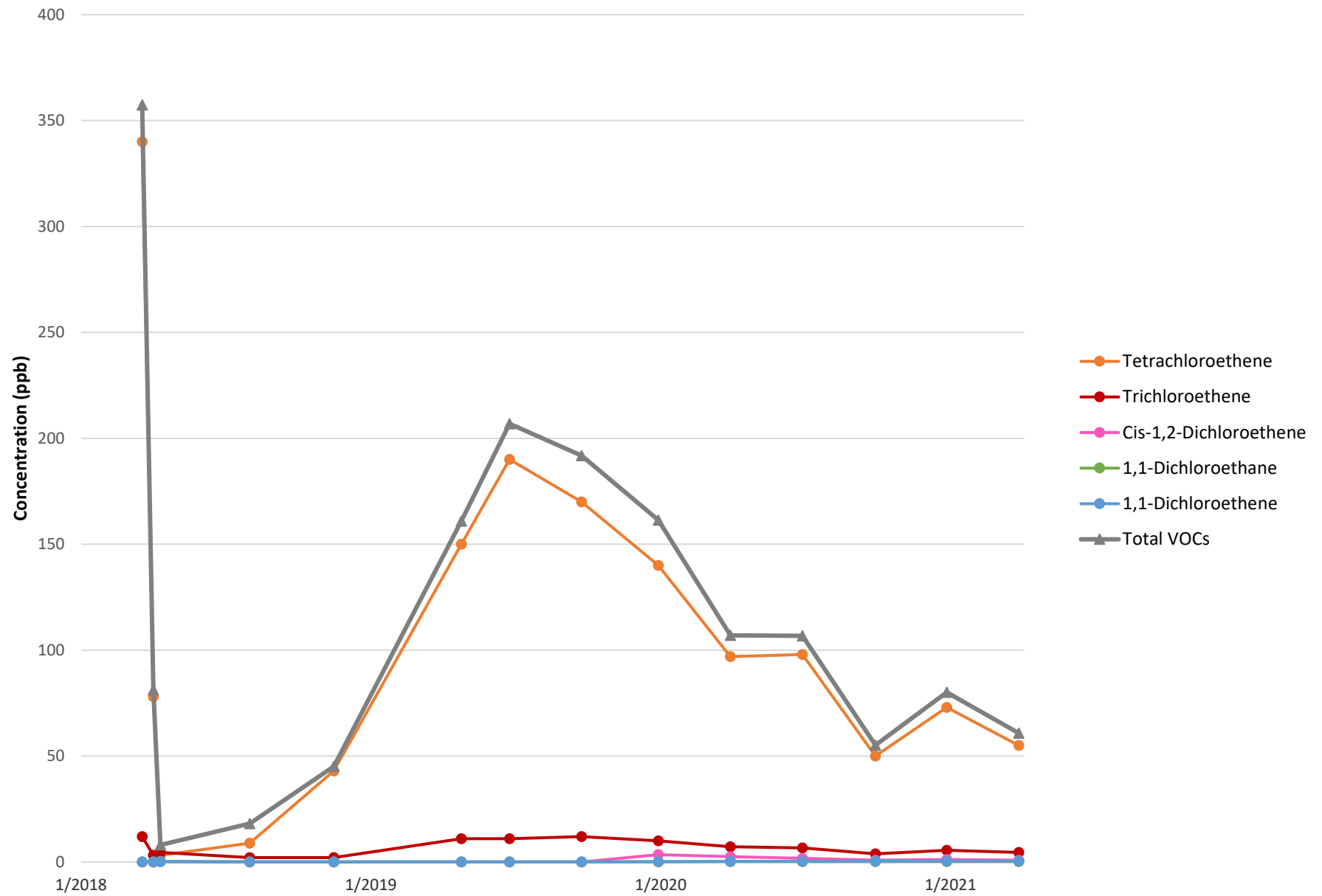
EX-1A



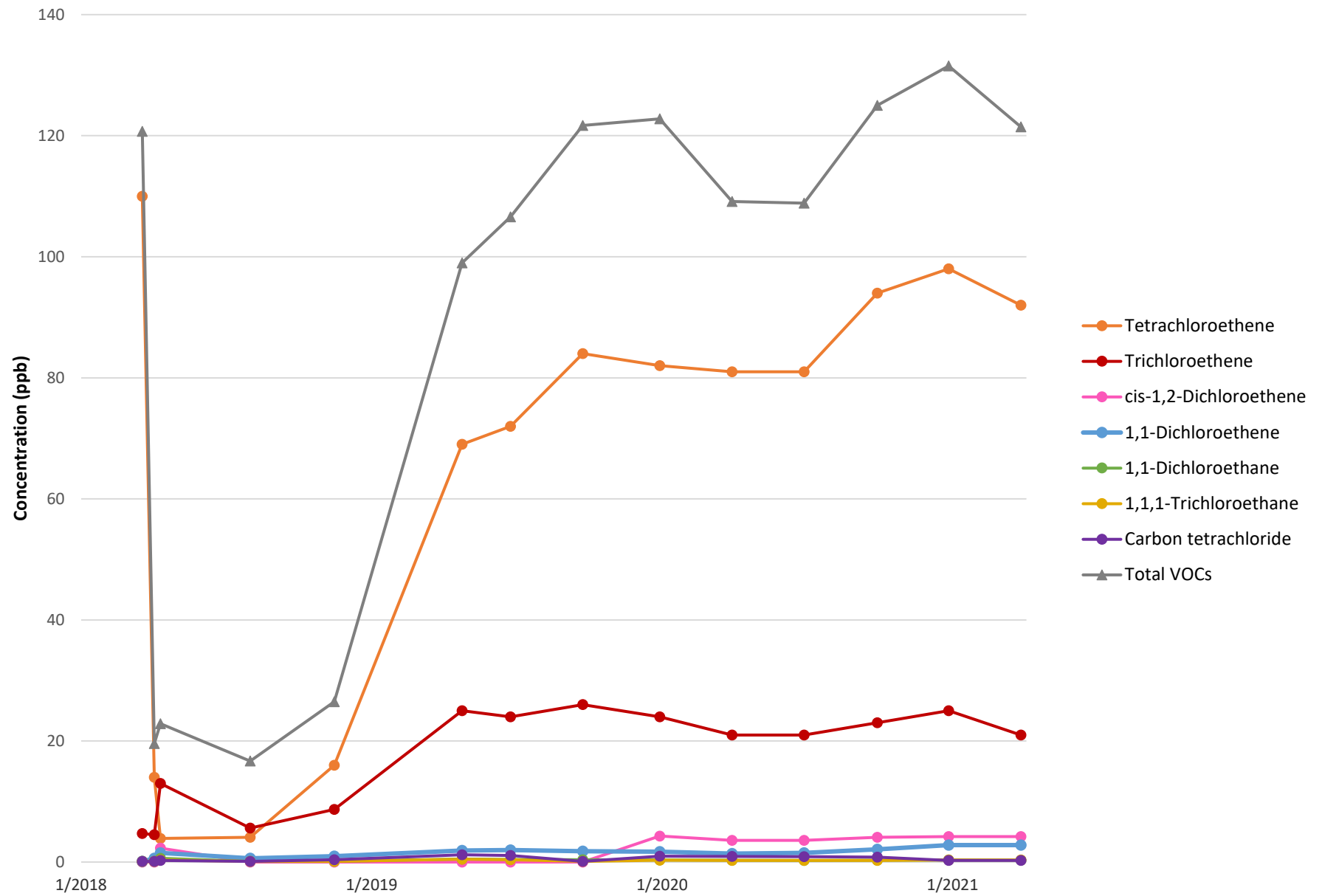
EX-1B



EX-1C



EX-1D



All Wells - Total VOCs

