

December 10, 2019

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: November 2019
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#s 1-30043 I, L, M) for operation, maintenance, and monitoring (OM&M) activities completed in November 2019 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 in November 2019 due to SVE blower thermal overload, the low-level switch being broken, and high temperature of the AS compressor. Replacement of the low-level switch and semi-annual maintenance of the AS compressor rectified the alarm condition.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on November 22, 2019, 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 readings and influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene [14,286 µg/m³]) continue to indicate significant mass extraction.
 - Effluent concentrations remain below the carbon exchange indicator concentrations; the cis-1,2-dichloroethene concentration has dropped from November 2019 values, but system PID readings this month indicate breakthrough has occurred. A carbon exchange is scheduled for the week of January 6, 2020.

Frost Street Sites Effluent Compliance			
System Flow Rate =		800 ft ³ /m	
Compound	Annual Mass Emission Limit (lbs/year)	Carbon Exchange Required Indicator Concentration (µg/m ³) ²	November 2019 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	55.3
Tetrachloroethene	1,000	38,000	115
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ¹	100	3,800	133

Notes:

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

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

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.

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 November except November 1 (4:00 am to 3:15 pm) and November 10 (10:00 am) to November 11 (8:45 am) due to weather (high winds and subsequent power outage).

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 2019 groundwater monitoring report was submitted on November 22, 2019. The fourth quarter 2019 groundwater sampling event was completed the week of December 2, 2019. The data will be submitted in a forthcoming report, once available.

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 privitera@mltw.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: 6-Nov
 Weather / Temp: Clear / 50 DEG
 Technician / Operator: JW

Arrival Time: 9:30
 Departure Time: 10:00

System Status									
	Arrival	Departure			Arrival	Departure			
SVE Blower 1 (ON/OFF)	ON	ON		Sensaphone (ON/OFF)	ON	ON			
SVE Blower 2 (ON/OFF)	OFF	OFF		Surge Protection (ON/OFF)	ON	ON			
AS Compressor 1 (ON/OFF)	OFF	OFF		Lightning Protection (White/Black)	White	White			
AS Compressor 2 (ON/OFF)	ON	ON							
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4800	942		Blower 1 Total Runtime (hrs)	56,776.2				
Blower 1 Fresh Air Valve Open (%)	0			Blower 2 Total Runtime (hrs)	54,954.6				
Blower 2 Fresh Air Valve Open (%)	0			Blower 1 Air Filter Differential Pressure ("H2O)	0				
Moisture Separator Vacuum ("Hg)	3			Blower 2 Air Filter Differential Pressure ("H2O)	0				
VGAC-1 Influent Vacuum ("H2O)	34			VGAC-1 Influent PID (ppm)	2.5				
VGAC-1 Effluent Vacuum ("H2O)	35			VGAC-1 Effluent PID (ppm)	0.0				
VGAC-2 Influent Vacuum ("H2O)	30			VGAC-2 Influent PID (ppm)	2.5				
VGAC-2 Effluent Vacuum ("H2O)	35			VGAC-2 Effluent PID (ppm)	0.0				
VGAC-3 Influent Vacuum ("H2O)	40			VGAC-3 Influent PID (ppm)	0.0				
VGAC-3 Effluent Vacuum ("H2O)	45			VGAC-3 Effluent PID (ppm)	0.0				
VGAC-3 Influent Temp (DegF)	NA			Blower Effluent PID (ppm)	0.0				
Blower Effluent Pressure ("H2O)	15								
Transfer Pump Total Runtime (hrs)	25,035.9			Condensate Storage Tank Level (gal)	100				
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	42	6500	142		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	35	4100	89	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	44	4000	87		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	36	2900	63	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	36	4700	103		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	34	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	34	4200	92		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	36	3000	65	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	90				
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	186				
Compressor 1 Runtime (hrs)	27,317			Compressor 2 Runtime (hrs)	35,934				
Manifold Regulator Pressure (psi)	75								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate			Pressure	Flow Rate			
AS-1 (psi)/(cfm)	16	10		AS-11 (psi)/(cfm)	16	4			
AS-2 (psi)/(cfm)	16	4		AS-12B (psi)/(cfm)	17	8			
AS-3 (psi)/(cfm)	17	8		AS-13B (psi)/(cfm)	15	9			
AS-4 (psi)/(cfm)	15	8		AS-14 (psi)/(cfm)	16	9			
AS-5 (psi)/(cfm)	17	10		AS-15 (psi)/(cfm)	17	10			
AS-6 (psi)/(cfm)	17	7		AS-16B (psi)/(cfm)	15	9			
AS-7 (psi)/(cfm)	17	7		AS-17 (psi)/(cfm)	16	4			
AS-8 (psi)/(cfm)	17	9		AS-18 (psi)/(cfm)	15	4			
AS-9 (psi)/(cfm)	17	12		AS-19 (psi)/(cfm)	15	4			
AS-10B (psi)/(cfm)	15	10							

Notes, Comments & Observations:

Operation & Maintenance Data Sheet
 Ensafe-Frost Street
 101 Frost Street
 Westbury, NY

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

Date: 14-Nov
 Weather / Temp: Clear / 40 DEG
 Technician / Operator: JW

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

System Status									
	Arrival	Departure			Arrival	Departure			
SVE Blower 1 (ON/OFF)	ON	ON		Sensaphone (ON/OFF)	ON	ON			
SVE Blower 2 (ON/OFF)	OFF	OFF		Surge Protection (ON/OFF)	ON	ON			
AS Compressor 1 (ON/OFF)	OFF	OFF		Lightning Protection (White/Black)	White	White			
AS Compressor 2 (ON/OFF)	OFF	ON							
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4800	942		Blower 1 Total Runtime (hrs)	56,872.6				
Blower 1 Fresh Air Valve Open (%)	0			Blower 2 Total Runtime (hrs)	54,954.6				
Blower 2 Fresh Air Valve Open (%)	0			Blower 1 Air Filter Differential Pressure ("H2O)	0				
Moisture Separator Vacuum ("Hg)	3			Blower 2 Air Filter Differential Pressure ("H2O)	0				
VGAC-1 Influent Vacuum ("H2O)	34			VGAC-1 Influent PID (ppm)	2.8				
VGAC-1 Effluent Vacuum ("H2O)	35			VGAC-1 Effluent PID (ppm)	0.0				
VGAC-2 Influent Vacuum ("H2O)	30			VGAC-2 Influent PID (ppm)	2.8				
VGAC-2 Effluent Vacuum ("H2O)	35			VGAC-2 Effluent PID (ppm)	0.0				
VGAC-3 Influent Vacuum ("H2O)	40			VGAC-3 Influent PID (ppm)	0.0				
VGAC-3 Effluent Vacuum ("H2O)	45			VGAC-3 Effluent PID (ppm)	0.0				
VGAC-3 Influent Temp (DegF)	NA			Blower Effluent PID (ppm)	0.0				
Blower Effluent Pressure ("H2O)	15								
Transfer Pump Total Runtime (hrs)	25,035.9			Condensate Storage Tank Level (gal)	100				
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	44	6500	142		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	35	4100	89	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	44	4000	87		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	35	2700	59	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	38	4800	105		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	34	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	34	4000	87		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	36	3000	65	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	87				
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	175				
Compressor 1 Runtime (hrs)	27,317			Compressor 2 Runtime (hrs)	35,955				
Manifold Regulator Pressure (psi)	75								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate			Pressure	Flow Rate			
AS-1 (psi)/(cfm)	16	10		AS-11 (psi)/(cfm)	17	8			
AS-2 (psi)/(cfm)	16	4		AS-12B (psi)/(cfm)	17	8			
AS-3 (psi)/(cfm)	17	8		AS-13B (psi)/(cfm)	15	7			
AS-4 (psi)/(cfm)	15	8		AS-14 (psi)/(cfm)	17	9			
AS-5 (psi)/(cfm)	17	10		AS-15 (psi)/(cfm)	17	10			
AS-6 (psi)/(cfm)	17	7		AS-16B (psi)/(cfm)	17	9			
AS-7 (psi)/(cfm)	17	7		AS-17 (psi)/(cfm)	16	6			
AS-8 (psi)/(cfm)	17	9		AS-18 (psi)/(cfm)	15	4			
AS-9 (psi)/(cfm)	17	12		AS-19 (psi)/(cfm)	15	4			
AS-10B (psi)/(cfm)	17	10							

Notes, Comments & Observations:

AS compressor off upon arrival, added oil and restarted,

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: 22-Nov
Weather / Temp: Cloudy / 45 DEG
Technician / Operator: JW

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

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/cfm)	4800		942		Blower 1 Total Runtime (hrs)	56,945.9			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	54,954.7			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	34				VGAC-1 Influent PID (ppm)	2.1			
VGAC-1 Effluent Vacuum ("H2O)	35				VGAC-1 Effluent PID (ppm)	7.0			
VGAC-2 Influent Vacuum ("H2O)	30				VGAC-2 Influent PID (ppm)	2.1			
VGAC-2 Effluent Vacuum ("H2O)	35				VGAC-2 Effluent PID (ppm)	7.0			
VGAC-3 Influent Vacuum ("H2O)	40				VGAC-3 Influent PID (ppm)	7.0			
VGAC-3 Effluent Vacuum ("H2O)	45				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temp (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	15								
Transfer Pump Total Runtime (hrs)	25,035.9				Condensate Storage Tank Level (gal)	250			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	44	6500	142	0.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	35	4100	89	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	44	4000	87	0.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	35	2700	59	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	38	4800	105	0.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	34	6000	131	7.4
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	34	4000	87	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	36	3000	65	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	90			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	223			
Compressor 1 Runtime (hrs)	27,317				Compressor 2 Runtime (hrs)	35,974			
Manifold Regulator Pressure (psi)	80								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/cfm)	20		10		AS-11 (psi)/cfm)	19		8	
AS-2 (psi)/cfm)	18		4		AS-12B (psi)/cfm)	19		8	
AS-3 (psi)/cfm)	18		8		AS-13B (psi)/cfm)	15		8	
AS-4 (psi)/cfm)	17		8		AS-14 (psi)/cfm)	19		8	
AS-5 (psi)/cfm)	19		10		AS-15 (psi)/cfm)	19		10	
AS-6 (psi)/cfm)	19		7		AS-16B (psi)/cfm)	19		7	
AS-7 (psi)/cfm)	19		7		AS-17 (psi)/cfm)	16		6	
AS-8 (psi)/cfm)	17		9		AS-18 (psi)/cfm)	17		5	
AS-9 (psi)/cfm)	19		12		AS-19 (psi)/cfm)	15		4	
AS-10B (psi)/cfm)	17		10						

Notes, Comments & Observations: Collected monthly samples.

AS compressor maintenance performed on 11/21.

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: 25-Nov
Weather / Temp: Clear / 45 DEG
Technician / Operator: JW, MS

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

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		OFF		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		ON		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/cfm)	4600		903		Blower 1 Total Runtime (hrs)	57,008.1			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	55,008.6			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	34				VGAC-1 Influent PID (ppm)	7.5			
VGAC-1 Effluent Vacuum ("H2O)	35				VGAC-1 Effluent PID (ppm)	11.9			
VGAC-2 Influent Vacuum ("H2O)	30				VGAC-2 Influent PID (ppm)	7.5			
VGAC-2 Effluent Vacuum ("H2O)	35				VGAC-2 Effluent PID (ppm)	11.9			
VGAC-3 Influent Pressure ("H2O)	18				VGAC-3 Influent PID (ppm)	11.9			
VGAC-3 Effluent Pressure ("H2O)	4				VGAC-3 Effluent PID (ppm)	2.9			
VGAC-3 Influent Temp (DegF)	135				Blower Effluent PID (ppm)	11.9			
Blower Effluent Pressure ("H2O)	20								
Transfer Pump Total Runtime (hrs)	25,036.0				Condensate Storage Tank Level (gal)	300			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	50	7500	164		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	43	4200	92	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	52	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	43	3000	65	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	44	5200	113		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	42	6500	142	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	42	4300	94		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	44	2900	63	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	75			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	158			
Compressor 1 Runtime (hrs)	27,317				Compressor 2 Runtime (hrs)	36,063			
Manifold Regulator Pressure (psi)	60								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/cfm)	19		8		AS-11 (psi)/cfm)	18		6	
AS-2 (psi)/cfm)	18		4		AS-12B (psi)/cfm)	19		5	
AS-3 (psi)/cfm)	17		7		AS-13B (psi)/cfm)	16		6	
AS-4 (psi)/cfm)	16		4		AS-14 (psi)/cfm)	17		9	
AS-5 (psi)/cfm)	19		9		AS-15 (psi)/cfm)	19		14	
AS-6 (psi)/cfm)	19		7		AS-16B (psi)/cfm)	16		7	
AS-7 (psi)/cfm)	19		7		AS-17 (psi)/cfm)	17		4	
AS-8 (psi)/cfm)	18		8		AS-18 (psi)/cfm)	17		7	
AS-9 (psi)/cfm)	19		12		AS-19 (psi)/cfm)	18		7	
AS-10B (psi)/cfm)	17		7						

Notes, Comments & Observations:

Switched GAC-3 to pressure side of blower.

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

[illegible]

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



Thursday, December 05, 2019

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

Project ID: ENSAFE WESTBURY
SDG ID: GCE69776
Sample ID#s: CE69776 - CE69777

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 05, 2019

SDG I.D.: GCE69776

Project ID: ENSAFE WESTBURY

Client Id	Lab Id	Matrix
SVE EFFLUENT	CE69776	AIR
SVE INFLUENT	CE69777	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 05, 2019

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: 787

Custody Information

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

Date Time
11/22/19 10:01
12/02/19 15:22

Laboratory Data

SDG ID: GCE69776
Phoenix ID: CE69776

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	12/02/19	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	12/02/19	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	12/02/19	KCA	1	
1,1,2-Trichloroethane	ND	0.183	ND	1.00	12/02/19	KCA	1	
1,1-Dichloroethane	ND	0.247	ND	1.00	12/02/19	KCA	1	
1,1-Dichloroethene	ND	0.051	ND	0.20	12/02/19	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	12/02/19	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	12/02/19	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	12/02/19	KCA	1	
1,2-Dichlorobenzene	ND	0.166	ND	1.00	12/02/19	KCA	1	
1,2-Dichloroethane	ND	0.247	ND	1.00	12/02/19	KCA	1	
1,2-dichloropropane	ND	0.217	ND	1.00	12/02/19	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	12/02/19	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	12/02/19	KCA	1	
1,3-Butadiene	ND	0.452	ND	1.00	12/02/19	KCA	1	
1,3-Dichlorobenzene	ND	0.166	ND	1.00	12/02/19	KCA	1	
1,4-Dichlorobenzene	ND	0.166	ND	1.00	12/02/19	KCA	1	
1,4-Dioxane	ND	0.278	ND	1.00	12/02/19	KCA	1	
2-Hexanone(MBK)	ND	0.244	ND	1.00	12/02/19	KCA	1	1
4-Ethyltoluene	ND	0.204	ND	1.00	12/02/19	KCA	1	1
4-Isopropyltoluene	ND	0.182	ND	1.00	12/02/19	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	12/02/19	KCA	1	
Acetone	2.57	0.421	6.10	1.00	12/02/19	KCA	1	
Acrylonitrile	ND	0.461	ND	1.00	12/02/19	KCA	1	
Benzene	ND	0.313	ND	1.00	12/02/19	KCA	1	
Benzyl chloride	ND	0.193	ND	1.00	12/02/19	KCA	1	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	12/02/19	KCA	1
Bromoform	ND	0.097	ND	1.00	12/02/19	KCA	1
Bromomethane	ND	0.258	ND	1.00	12/02/19	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	12/02/19	KCA	1
Carbon Tetrachloride	0.112	0.032	0.70	0.20	12/02/19	KCA	1
Chlorobenzene	ND	0.217	ND	1.00	12/02/19	KCA	1
Chloroethane	ND	0.379	ND	1.00	12/02/19	KCA	1
Chloroform	ND	0.205	ND	1.00	12/02/19	KCA	1
Chloromethane	0.800	0.485	1.65	1.00	12/02/19	KCA	1
Cis-1,2-Dichloroethene	33.5	0.051	133	0.20	12/02/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	12/02/19	KCA	1
Cyclohexane	ND	0.291	ND	1.00	12/02/19	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	12/02/19	KCA	1
Dichlorodifluoromethane	ND	0.202	ND	1.00	12/02/19	KCA	1
Ethanol	8.40	0.531	15.8	1.00	12/02/19	KCA	1 1
Ethyl acetate	ND	0.278	ND	1.00	12/02/19	KCA	1 1
Ethylbenzene	ND	0.230	ND	1.00	12/02/19	KCA	1
Heptane	ND	0.244	ND	1.00	12/02/19	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	12/02/19	KCA	1
Hexane	0.959	0.284	3.38	1.00	12/02/19	KCA	1
Isopropylalcohol	0.508	0.407	1.25	1.00	12/02/19	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	12/02/19	KCA	1
m,p-Xylene	ND	0.230	ND	1.00	12/02/19	KCA	1
Methyl Ethyl Ketone	ND	0.339	ND	1.00	12/02/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	12/02/19	KCA	1
Methylene Chloride	3.99	0.864	13.9	3.00	12/02/19	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	12/02/19	KCA	1 1
o-Xylene	ND	0.230	ND	1.00	12/02/19	KCA	1
Propylene	ND	0.581	ND	1.00	12/02/19	KCA	1 1
sec-Butylbenzene	ND	0.182	ND	1.00	12/02/19	KCA	1 1
Styrene	ND	0.235	ND	1.00	12/02/19	KCA	1
Tetrachloroethene	16.9	0.037	115	0.25	12/02/19	KCA	1
Tetrahydrofuran	ND	0.339	ND	1.00	12/02/19	KCA	1 1
Toluene	ND	0.266	ND	1.00	12/02/19	KCA	1
Trans-1,2-Dichloroethene	0.362	0.252	1.43	1.00	12/02/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	12/02/19	KCA	1
Trichloroethene	10.3	0.037	55.3	0.20	12/02/19	KCA	1
Trichlorofluoromethane	0.421	0.178	2.36	1.00	12/02/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	12/02/19	KCA	1
Vinyl Chloride	ND	0.078	ND	0.20	12/02/19	KCA	1
<u>QA/OC Surrogates/Internals</u>							
% Bromofluorobenzene	102	%	102	%	12/02/19	KCA	1
% IS-1,4-Difluorobenzene	72	%	72	%	12/02/19	KCA	1
% IS-Bromochloromethane	69	%	69	%	12/02/19	KCA	1
% IS-Chlorobenzene-d5	83	%	83	%	12/02/19	KCA	1

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

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Phyllis Shiller, Laboratory Director

December 05, 2019

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 05, 2019

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: 811

Custody Information

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

Date Time
11/22/19 10:06
12/02/19 15:22

Laboratory Data

SDG ID: GCE69776
Phoenix ID: CE69777

Project ID: ENSAFE WESTBURY
Client ID: SVE INFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.729	ND	5.00	12/02/19	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	12/02/19	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	12/02/19	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	12/02/19	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	12/02/19	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	12/02/19	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	12/02/19	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	12/02/19	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	12/02/19	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	12/02/19	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	12/02/19	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	12/02/19	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	12/02/19	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	12/02/19	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	12/02/19	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	12/02/19	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	12/02/19	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	12/02/19	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	12/02/19	KCA	5
4-Ethyltoluene	ND	1.02	ND	5.01	12/02/19	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	12/02/19	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	12/02/19	KCA	5
Acetone	5.77	2.11	13.7	5.01	12/02/19	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	12/02/19	KCA	5
Benzene	ND	1.57	ND	5.01	12/02/19	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	12/02/19	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	12/02/19	KCA	5	
Bromoform	ND	0.484	ND	5.00	12/02/19	KCA	5	
Bromomethane	ND	1.29	ND	5.01	12/02/19	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	12/02/19	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	12/02/19	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	12/02/19	KCA	5	
Chloroethane	ND	1.90	ND	5.01	12/02/19	KCA	5	
Chloroform	ND	1.02	ND	4.98	12/02/19	KCA	5	
Chloromethane	ND	2.42	ND	4.99	12/02/19	KCA	5	
Cis-1,2-Dichloroethene	101	0.252	400	1.00	12/02/19	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	12/02/19	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	12/02/19	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	12/02/19	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	12/02/19	KCA	5	
Ethanol	3.81	2.66	7.17	5.01	12/02/19	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	12/02/19	KCA	5	1
Ethylbenzene	ND	1.15	ND	4.99	12/02/19	KCA	5	
Heptane	ND	1.22	ND	5.00	12/02/19	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	12/02/19	KCA	5	
Hexane	ND	1.42	ND	5.00	12/02/19	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	12/02/19	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	12/02/19	KCA	5	
m,p-Xylene	ND	1.15	ND	4.99	12/02/19	KCA	5	
Methyl Ethyl Ketone	ND	1.70	ND	5.01	12/02/19	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	12/02/19	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	12/02/19	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	12/02/19	KCA	5	1
o-Xylene	ND	1.15	ND	4.99	12/02/19	KCA	5	
Propylene	ND	2.91	ND	5.01	12/02/19	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	12/02/19	KCA	5	1
Styrene	ND	1.17	ND	4.98	12/02/19	KCA	5	
Tetrachloroethene	1920	2.77	13000	18.8	12/04/19	KCA	75	
Tetrahydrofuran	ND	1.70	ND	5.01	12/02/19	KCA	5	1
Toluene	ND	1.33	ND	5.01	12/02/19	KCA	5	
Trans-1,2-Dichloroethene	1.99	1.26	7.89	4.99	12/02/19	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	12/02/19	KCA	5	
Trichloroethene	165	0.186	886	1.00	12/02/19	KCA	5	
Trichlorofluoromethane	ND	0.891	ND	5.00	12/02/19	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	12/02/19	KCA	5	
Vinyl Chloride	ND	0.391	ND	1.00	12/02/19	KCA	5	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	104	%	104	%	12/02/19	KCA	5	
% IS-1,4-Difluorobenzene (5x)	64	%	64	%	12/02/19	KCA	5	
% IS-Bromochloromethane (5x)	77	%	77	%	12/02/19	KCA	5	
% IS-Chlorobenzene-d5 (5x)	87	%	87	%	12/02/19	KCA	5	
% Bromofluorobenzene (75x)	103	%	103	%	12/04/19	KCA	75	
% IS-1,4-Difluorobenzene (75x)	75	%	75	%	12/04/19	KCA	75	
% IS-Bromochloromethane (75x)	85	%	85	%	12/04/19	KCA	75	
% IS-Chlorobenzene-d5 (75x)	66	%	66	%	12/04/19	KCA	75	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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Phyllis Shiller, Laboratory Director

December 05, 2019

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



QA/QC Report

December 05, 2019

QA/QC Data

SDG I.D.: GCE69776

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 508390 (ppbv), QC Sample No: CE68149 (CE69776, CE69777 (5X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	95	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	95	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	93	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	94	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	98	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	94	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	61	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	99	1.06	0.99	0.215	0.202	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	94	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	107	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	86	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	85	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	88	1.80	1.72	0.300	0.286	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	94	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	109	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	94	1.04	ND	0.212	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	98	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	96	1.67	1.88	0.409	0.460	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	128	90.9	86.4	38.3	36.4	5.1	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	86	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	96	1.48	1.44	0.462	0.451	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	113	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	93	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	NR	0.32	NR	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	102	0.26	0.25	0.042	0.039	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	103	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	90	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	70	1.97	1.94	0.954	0.939	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	103	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	101	2.30	2.19	0.669	0.636	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	102	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	91	ND	ND	ND	ND	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	97	25.4	23.9	13.5	12.7	6.1	70 - 130	25

QA/QC Data

SDG I.D.: GCE69776

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	102	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	101	5.45	5.65	1.33	1.38	3.7	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	77	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	127	5.14	4.93	1.46	1.40	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	117	3.56	3.34	1.45	1.36	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	104	3.20	3.06	0.738	0.704	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	95	5.51	5.22	1.87	1.77	5.5	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	94	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	110	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	93	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	109	1.02	ND	0.235	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	111	3.13	3.03	1.82	1.76	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	95	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	100	0.94	0.71	0.138	0.105	NC	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	105	3.46	3.39	0.918	0.900	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	100	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	102	0.25	ND	0.046	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	88	22.1	20.5	3.93	3.65	7.4	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	91	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	83	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	87	%	87	%	99	98	96	98	96	NC	70 - 130	25
% IS-1,4-Difluorobenzene	146	%	146	%	89	107	114	107	114	NC	60 - 140	25 s
% IS-Bromochloromethane	160	%	160	%	82	101	108	101	108	NC	60 - 140	25 s
% IS-Chlorobenzene-d5	136	%	136	%	95	119	127	119	127	NC	60 - 140	25

QA/QC Batch 508789 (ppbv), QC Sample No: CE70278 (CE69777 (75X))

Volatiles

Tetrachloroethene	ND	0.037	ND	0.25	106	10.2	9.8	1.51	1.44	4.7	70 - 130	25
% Bromofluorobenzene	91	%	91	%	104	112	111	112	111	NC	70 - 130	25
% IS-1,4-Difluorobenzene	119	%	119	%	68	63	67	63	67	NC	60 - 140	25
% IS-Bromochloromethane	134	%	134	%	63	64	67	64	67	NC	60 - 140	25
% IS-Chlorobenzene-d5	113	%	113	%	74	62	66	62	66	NC	60 - 140	25

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

s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

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

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


Phyllis Shiller, Laboratory Director
December 05, 2019

Thursday, December 05, 2019

Criteria: None

State: NY

Sample Criteria Exceedances Report
GCE69776 - 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

December 05, 2019

SDG I.D.: GCE69776

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

