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1233 Silas Deane Highway | Wethersfield, Connecticut 06109 | Telephone 860-665-1140 | Fax 860-665-9445 | www.ensafe.com

Via email to Jeffrey.dyber@dec.ny.gov

November 14, 2017

Mr. Jeffrey Dyber, P.E.
NYSDEC, Remedial Bureau A
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Re: Progress Report: October 2017 – Revised
Frost Street Sites: Site ID #s 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Dyber:

EnSafe Inc. is pleased to submit this revised Progress Report for the Frost Street Sites (Site ID #s 1-30043 I, L, M) for work completed in October 2017.

Soil Vapor Extraction (SVE)/Air Sparge (AS) System Operation and Maintenance (O&M) (OU1)

- Operations continued this month, per the O&M Manual. During periodic O&M visits, system parameters were logged on dedicated O&M forms (**Appendix A** [revised]). The system was down for approximately 3 days due to a power failure.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted after the carbon exchange, on October 13, 2017, 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**.
 - Influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride) continue to indicate significant mass extraction. Photoionization detector readings between the lead and lag activated carbon media vessels and in the effluent air stream exhibit 0.0 parts per million total volatile organic compounds.
 - Effluent concentrations are well below the allowable limits, as shown in the table below.

Frost Street Sites Effluent Compliance			
System Flow Rate =		800	ft ³ /m
Compound	Annual Mass Emission Limit (lbs/year)	Allowable Continuous Annual Concentration (µg/m ³)	October 2017 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	44.1
Tetrachloroethene	1,000	38,000	84.1
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene	100	3,800	1,100

Notes:

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

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

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/Hydraulic Containment System Installation (OU2)

- Construction continued on the groundwater extraction/hydraulic contaminant system. Activities this month included:
 - System vault and electrical service installation
 - Additional extraction well development
- Additional details and photographs regarding these activities can be found in the previously submitted daily summary reports, included as **Appendix C**.
- The Frost Street Parties acknowledge receipt of NYSDEC disapproval of the letter work plan *Groundwater Extraction/Hydraulic Containment – Additional Sampling, Review, and Schedule Implications* submitted by EnSafe to NYSDEC on November 1, 2017. A formal response to the NYSDEC disapproval letter is forthcoming.
 - That said, sampling began as described in the letter work plan (FSMW-8A/B, FSMW-19A/B/C/D, and EX-1A/B/C/D) on November 6, 2017 based on verbal approval on the sampling portion of the letter work plan received from NYSDEC during a telephone call on November 1, 2017.
 - During sampling activities on November 10, 2017 in EX-1B, there were difficulties dropping the 1-inch sampling pump down the extraction well (it was caught at approximately 112 feet bgs) and sediment was being pumped out of the well near the bottom of the well screen.
 - As a result of these difficulties, additional reconnaissance (video and driller inspection) will be performed on this and the other three extraction wells on Monday, November 13, 2017.

Quarterly/Annual Groundwater Monitoring

- The third quarter 2017 groundwater sampling event was completed the week of September 25, 2017. Results will be submitted in forthcoming report, when 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.

Copies: A. Tamuno, Esq., NYSDEC

G. Bobersky, NYSDEC

C. Bethoney, NYSDOH

J. Nealon, NYSDOH

R. Putnam, NCDOH

T. Pupilla, Sanders Equities

K. Maldonado, Esq.

J. Privitera, Esq.

J. LaPoma, U.S. EPA

J. Heaney, Walden Associates

P. Coop, EnSafe

J. Parillo, EnSafe

J. Wilkinson, Envirotrac

Via email to amtamuno@gw.dec.state.ny.us

Via email to gtbobers@gw.dec.state.ny.us

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Via email to jheaney@walden-associates.com

Via email to pcoop@ensafe.com

Via email to jparillo@ensafe.com

Via email to jamesw@envirotrac.com

Appendix A
SVE/AS System O&M Logs

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

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

Date: 4-Oct
Weather / Temp: Clear / 70 DEG
Technician / Operator: DW

Arrival Time: 13:00
Departure Time: 15:00

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)	4000	785	Blower 1 Total Runtime (hrs)	48,352.5					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	48,204.5					
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0					
Moisture Separator Vacuum ("Hg)	2.5		Blower 2 Air Filter Differential Pressure ("H2O)	0					
VGAC-1 Influent Vacuum ("H2O)	58		VGAC-1 Influent PID (ppm)	5.3					
VGAC-1 Effluent Vacuum ("H2O)	48		VGAC-1 Effluent PID (ppm)	0.0					
VGAC-2 Influent Vacuum ("H2O)	42		VGAC-2 Influent PID (ppm)	5.3					
VGAC-2 Effluent Vacuum ("H2O)	42		VGAC-2 Effluent PID (ppm)	0.0					
VGAC-3 Influent Vacuum ("H2O)	42		VGAC-3 Influent PID (ppm)	0.0					
VGAC-3 Effluent Vacuum ("H2O)	48		VGAC-3 Effluent PID (ppm)	0.0					
Blower Effluent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0					
Blower Effluent Pressure ("H2O)	4.5								
Transfer Pump Total Runtime (hrs)	25,026.0		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)	36	6000	131		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	28	3600	79	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	38	2400	52		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	28	2500	55	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	29	4200	92		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	28	5000	109	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	26	3600	79		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	30	2600	57	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	84			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	180			
Compressor 1 Runtime (hrs)	27,317				Compressor 2 Runtime (hrs)	24,073			
Manifold Regulator Pressure (psi)	80								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	15		9		AS-11 (psi)/(cfm)	14		4	
AS-2 (psi)/(cfm)	13		6		AS-12B (psi)/(cfm)	14		8	
AS-3 (psi)/(cfm)	13		5		AS-13B (psi)/(cfm)	12		9	
AS-4 (psi)/(cfm)	13		9		AS-14 (psi)/(cfm)	14		9	
AS-5 (psi)/(cfm)	14		7		AS-15 (psi)/(cfm)	14		10	
AS-6 (psi)/(cfm)	14		7		AS-16B (psi)/(cfm)	12		9	
AS-7 (psi)/(cfm)	14		4		AS-17 (psi)/(cfm)	14		4	
AS-8 (psi)/(cfm)	14		9		AS-18 (psi)/(cfm)	11		5	
AS-9 (psi)/(cfm)	15		9		AS-19 (psi)/(cfm)	12		4	
AS-10B (psi)/(cfm)	13		9						

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: 13-Oct
Weather / Temp: Clear / 60 DEG
Technician / Operator: DW

Arrival Time: 13:00
Departure Time: 15:00

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)	4200	825	Blower 1 Total Runtime (hrs)	48,460.7					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	48,312.3					
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0					
Moisture Separator Vacuum ("Hg)	2.5		Blower 2 Air Filter Differential Pressure ("H2O)	0					
VGAC-1 Influent Vacuum ("H2O)	58		VGAC-1 Influent PID (ppb)	7850					
VGAC-1 Effluent Vacuum ("H2O)	48		VGAC-1 Effluent PID (ppb)	240					
VGAC-2 Influent Vacuum ("H2O)	42		VGAC-2 Influent PID (ppb)	7850					
VGAC-2 Effluent Vacuum ("H2O)	42		VGAC-2 Effluent PID (ppb)	500					
VGAC-3 Influent Vacuum ("H2O)	42		VGAC-3 Influent PID (ppb)	100					
VGAC-3 Effluent Vacuum ("H2O)	46		VGAC-3 Effluent PID (ppb)	260					
Blower Effluent Temp (DegF)	NA		Blower Effluent PID (ppb)	270					
Blower Effluent Pressure ("H2O)	4.5								
Transfer Pump Total Runtime (hrs)	25,026.0		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)/(ppb)	36	6000	131	1,500	SVE-4 ("H2O)/(FPM)/(cfm)/(ppb)	28	3600	79	400
SVE-2 ("H2O)/(FPM)/(cfm)/(ppb)	38	2500	55	8,120	SVE-5 ("H2O)/(FPM)/(cfm)/(ppb)	28	2500	55	416
SVE-3 ("H2O)/(FPM)/(cfm)/(ppb)	30	4200	92	3,780	SVE-6B ("H2O)/(FPM)/(cfm)/(ppb)	28	5000	109	20,300
SVE-3A ("H2O)/(FPM)/(cfm)/(ppb)	28	3600	79	300	SVE-7 ("H2O)/(FPM)/(cfm)/(ppb)	30	2600	57	80
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	89			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	176			
Compressor 1 Runtime (hrs)	27,317				Compressor 2 Runtime (hrs)	24,282			
Manifold Regulator Pressure (psi)	85								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	15		11		AS-11 (psi)/(cfm)	14		4	
AS-2 (psi)/(cfm)	14		8		AS-12B (psi)/(cfm)	14		9	
AS-3 (psi)/(cfm)	14		6		AS-13B (psi)/(cfm)	12		10	
AS-4 (psi)/(cfm)	14		10		AS-14 (psi)/(cfm)	14		10	
AS-5 (psi)/(cfm)	15		8		AS-15 (psi)/(cfm)	14		11	
AS-6 (psi)/(cfm)	14		8		AS-16B (psi)/(cfm)	13		10	
AS-7 (psi)/(cfm)	15		4		AS-17 (psi)/(cfm)	14		5	
AS-8 (psi)/(cfm)	15		10		AS-18 (psi)/(cfm)	12		6	
AS-9 (psi)/(cfm)	15		10		AS-19 (psi)/(cfm)	13		4	
AS-10B (psi)/(cfm)	12		10						

Notes, Comments & Observations:

All PID measurements recorded in ppb.

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: 19-Oct
Weather / Temp: Clear / 70 DEG
Technician / Operator: DW

Arrival Time: 12:30
Departure Time: 14:00

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)	4400	864	Blower 1 Total Runtime (hrs)	48,533.4	
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	48,386.0	
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)	44		VGAC-1 Influent PID (ppm)	6	
VGAC-1 Effluent Vacuum ("H2O)	44		VGAC-1 Effluent PID (ppm)	0	
VGAC-2 Influent Vacuum ("H2O)	48		VGAC-2 Influent PID (ppm)	6	
VGAC-2 Effluent Vacuum ("H2O)	48		VGAC-2 Effluent PID (ppm)	0	
VGAC-3 Influent Vacuum ("H2O)	42		VGAC-3 Influent PID (ppm)	0	
VGAC-3 Effluent Vacuum ("H2O)	46		VGAC-3 Effluent PID (ppm)	0	
Blower Effluent Temp (DegF)	NA		Blower Effluent PID (ppm)	0	
Blower Effluent Pressure ("H2O)	4.5				
Transfer Pump Total Runtime (hrs)	25,026.0		Condensate Storage Tank Level (gal)	100	
SVE Manifold Legs - Vacuum/Flow Rate/PID					
	Vacuum	Velocity	Flow Rate	PID	
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	36	6000	131		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	38	3500	76		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	30	4200	92		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	28	3600	79		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)
Air Sparge System					
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	92
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	187
Compressor 1 Runtime (hrs)	27,317			Compressor 2 Runtime (hrs)	24,435
Manifold Regulator Pressure (psi)	85				
AS Manifold Legs - Pressure/Flow Rate					
	Pressure	Flow Rate		Pressure	Flow Rate
AS-1 (psi)/(cfm)	15	11	AS-11 (psi)/(cfm)	13	4
AS-2 (psi)/(cfm)	13	7	AS-12B (psi)/(cfm)	13	9
AS-3 (psi)/(cfm)	13	6	AS-13B (psi)/(cfm)	13	10
AS-4 (psi)/(cfm)	13	10	AS-14 (psi)/(cfm)	13	10
AS-5 (psi)/(cfm)	14	8	AS-15 (psi)/(cfm)	13	11
AS-6 (psi)/(cfm)	14	8	AS-16B (psi)/(cfm)	13	10
AS-7 (psi)/(cfm)	15	4	AS-17 (psi)/(cfm)	13	5
AS-8 (psi)/(cfm)	14	10	AS-18 (psi)/(cfm)	11	6
AS-9 (psi)/(cfm)	15	10	AS-19 (psi)/(cfm)	13	4
AS-10B (psi)/(cfm)	13	10			

Notes, Comments & Observations:

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: 26-Oct
 Weather / Temp: Clear / 70 DEG
 Technician / Operator: DW

Arrival Time: 12:30
 Departure Time: 14:00

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)	4200	825	Blower 1 Total Runtime (hrs)	48,617.3					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	48,469.2					
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0					
Moisture Separator Vacuum ("Hg)	2.5		Blower 2 Air Filter Differential Pressure ("H2O)	0					
VGAC-1 Influent Vacuum ("H2O)	58		VGAC-1 Effluent PID (ppm)	5.4					
VGAC-1 Effluent Vacuum ("H2O)	50		VGAC-1 Effluent PID (ppm)	0					
VGAC-2 Influent Vacuum ("H2O)	44		VGAC-2 Influent PID (ppm)	5.4					
VGAC-2 Effluent Vacuum ("H2O)	42		VGAC-2 Effluent PID (ppm)	0					
VGAC-3 Influent Vacuum ("H2O)	45		VGAC-3 Influent PID (ppm)	0					
VGAC-3 Effluent Vacuum ("H2O)	48		VGAC-3 Effluent PID (ppm)	0					
Blower Effluent Temp (DegF)	NA		Blower Effluent PID (ppm)	0					
Blower Effluent Pressure ("H2O)	4.5								
Transfer Pump Total Runtime (hrs)	25,026.0		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)	36	6000	131		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	28	3600	79	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	28	2600	57	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	30	4200	92		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	28	5000	109	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	26	3600	79		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	30	2600	57	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	89				
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	175				
Compressor 1 Runtime (hrs)	27,317			Compressor 2 Runtime (hrs)	24,529				
Manifold Regulator Pressure (psi)	85								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate		Pressure	Flow Rate				
AS-1 (psi)/(cfm)	15	10	AS-11 (psi)/(cfm)	14	4				
AS-2 (psi)/(cfm)	15	7	AS-12B (psi)/(cfm)	14	9				
AS-3 (psi)/(cfm)	13	6	AS-13B (psi)/(cfm)	1	9				
AS-4 (psi)/(cfm)	13	7	AS-14 (psi)/(cfm)	14	10				
AS-5 (psi)/(cfm)	14	8	AS-15 (psi)/(cfm)	14	11				
AS-6 (psi)/(cfm)	15	8	AS-16B (psi)/(cfm)	13	10				
AS-7 (psi)/(cfm)	14	4	AS-17 (psi)/(cfm)	14	5				
AS-8 (psi)/(cfm)	14	10	AS-18 (psi)/(cfm)	12	6				
AS-9 (psi)/(cfm)	15	10	AS-19 (psi)/(cfm)	13	4				
AS-10B (psi)/(cfm)	13	10							

Notes, Comments & Observations:

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

[illegible]

Appendix B
SVE System Influent/Effluent Sampling (TO-15)
Laboratory Analytical Results



Friday, October 20, 2017

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

Project ID: ENSAFE-WESTBURY
Sample ID#s: BZ22465 - BZ22466

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 have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

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
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



Analysis Report

October 20, 2017

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: 72 Hour
P.O.#:
Canister Id: 745

Custody Information

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

Date

10/13/17 11:06
10/17/17 16:30

Time

Project ID: ENSAFE-WESTBURY
Client ID: INFLUENT

Laboratory Data

SDG ID: GBZ22465
Phoenix ID: BZ22465

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	10/17/17	KCA	1
1,1,1-Trichloroethane	1.00	0.183	5.45	1.00	10/17/17	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	10/17/17	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	10/17/17	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	10/17/17	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	10/17/17	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	10/17/17	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	10/17/17	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	10/17/17	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	10/17/17	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	10/17/17	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	10/17/17	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	10/17/17	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	10/17/17	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	10/17/17	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	10/17/17	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	10/17/17	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	10/17/17	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	10/17/17	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	10/17/17	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	10/17/17	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	10/17/17	KCA	1
Acetone	1.87	S 0.421	4.44	1.00	10/17/17	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	10/17/17	KCA	1
Benzene	ND	0.313	ND	1.00	10/17/17	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	10/17/17	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	10/17/17	KCA	1
Bromoform	ND	0.097	ND	1.00	10/17/17	KCA	1
Bromomethane	ND	0.258	ND	1.00	10/17/17	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	10/17/17	KCA	1
Carbon Tetrachloride	0.082	0.032	0.52	0.20	10/17/17	KCA	1
Chlorobenzene	0.392	0.217	1.80	1.00	10/17/17	KCA	1
Chloroethane	ND	0.379	ND	1.00	10/17/17	KCA	1
Chloroform	ND	0.205	ND	1.00	10/17/17	KCA	1
Chloromethane	ND	0.485	ND	1.00	10/17/17	KCA	1
Cis-1,2-Dichloroethene	195	0.505	773	2.00	10/18/17	KCA	10
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	10/17/17	KCA	1
Cyclohexane	ND	0.291	ND	1.00	10/17/17	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	10/17/17	KCA	1
Dichlorodifluoromethane	0.589	0.202	2.91	1.00	10/17/17	KCA	1
Ethanol	0.793	0.531	1.49	1.00	10/17/17	KCA	1
Ethyl acetate	ND	0.278	ND	1.00	10/17/17	KCA	1
Ethylbenzene	ND	0.230	ND	1.00	10/17/17	KCA	1
Heptane	ND	0.244	ND	1.00	10/17/17	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	10/17/17	KCA	1
Hexane	ND	0.284	ND	1.00	10/17/17	KCA	1
Isopropylalcohol	0.495	0.407	1.22	1.00	10/17/17	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	10/17/17	KCA	1
m,p-Xylene	ND	0.230	ND	1.00	10/17/17	KCA	1
Methyl Ethyl Ketone	ND	0.339	ND	1.00	10/17/17	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	10/17/17	KCA	1
Methylene Chloride	ND	0.864	ND	3.00	10/17/17	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	10/17/17	KCA	1
o-Xylene	ND	0.230	ND	1.00	10/17/17	KCA	1
Propylene	ND	0.581	ND	1.00	10/17/17	KCA	1
sec-Butylbenzene	ND	0.182	ND	1.00	10/17/17	KCA	1
Styrene	ND	0.235	ND	1.00	10/17/17	KCA	1
Tetrachloroethene	3530	4.61	23900	31.2	10/18/17	KCA	125
Tetrahydrofuran	ND	0.339	ND	1.00	10/17/17	KCA	1
Toluene	ND	0.266	ND	1.00	10/17/17	KCA	1
Trans-1,2-Dichloroethene	2.93	0.252	11.6	1.00	10/17/17	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	10/17/17	KCA	1
Trichloroethene	300	0.372	1610	2.00	10/18/17	KCA	10
Trichlorofluoromethane	0.319	0.178	1.79	1.00	10/17/17	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	10/17/17	KCA	1
Vinyl Chloride	ND	0.078	ND	0.20	10/17/17	KCA	1
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	110	%	110	%	10/17/17	KCA	1

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 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:

S - Laboratory solvent, contamination is possible.

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

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Phyllis Shiller, Laboratory Director

October 20, 2017

Reviewed and Released by: Ethan Lee, Project Manager



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



Analysis Report

October 20, 2017

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: 72 Hour
P.O.#:
Canister Id: 841

Custody Information

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

Date

10/13/17
10/17/17

Time

11:01
16:30

Laboratory Data

SDG ID: GBZ22465
Phoenix ID: BZ22466

Project ID: ENSAFE-WESTBURY
Client ID: 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	10/17/17	KCA	1
1,1,1-Trichloroethane	0.281	0.183	1.53	1.00	10/17/17	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	10/17/17	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	10/17/17	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	10/17/17	KCA	1
1,1-Dichloroethene	0.284	0.051	1.13	0.20	10/17/17	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	10/17/17	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	10/17/17	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	10/17/17	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	10/17/17	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	10/17/17	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	10/17/17	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	10/17/17	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	10/17/17	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	10/17/17	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	10/17/17	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	10/17/17	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	10/17/17	KCA	1
2-Hexanone(MBK)	0.339	0.244	1.39	1.00	10/17/17	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	10/17/17	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	10/17/17	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	10/17/17	KCA	1
Acetone	3.67	S 0.421	8.71	1.00	10/17/17	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	10/17/17	KCA	1
Benzene	ND	0.313	ND	1.00	10/17/17	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	10/17/17	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	10/17/17	KCA	1
Bromoform	ND	0.097	ND	1.00	10/17/17	KCA	1
Bromomethane	ND	0.258	ND	1.00	10/17/17	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	10/17/17	KCA	1
Carbon Tetrachloride	ND	0.032	ND	0.20	10/17/17	KCA	1
Chlorobenzene	ND	0.217	ND	1.00	10/17/17	KCA	1
Chloroethane	ND	0.379	ND	1.00	10/17/17	KCA	1
Chloroform	0.345	0.205	1.68	1.00	10/17/17	KCA	1
Chloromethane	ND	0.485	ND	1.00	10/17/17	KCA	1
Cis-1,2-Dichloroethene	278	0.505	1100	2.00	10/17/17	KCA	10
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	10/17/17	KCA	1
Cyclohexane	ND	0.291	ND	1.00	10/17/17	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	10/17/17	KCA	1
Dichlorodifluoromethane	0.676	0.202	3.34	1.00	10/17/17	KCA	1
Ethanol	0.969	0.531	1.82	1.00	10/17/17	KCA	1
Ethyl acetate	ND	0.278	ND	1.00	10/17/17	KCA	1
Ethylbenzene	ND	0.230	ND	1.00	10/17/17	KCA	1
Heptane	ND	0.244	ND	1.00	10/17/17	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	10/17/17	KCA	1
Hexane	ND	0.284	ND	1.00	10/17/17	KCA	1
Isopropylalcohol	0.939	0.407	2.31	1.00	10/17/17	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	10/17/17	KCA	1
m,p-Xylene	0.272	0.230	1.18	1.00	10/17/17	KCA	1
Methyl Ethyl Ketone	0.735	0.339	2.17	1.00	10/17/17	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	10/17/17	KCA	1
Methylene Chloride	ND	0.864	ND	3.00	10/17/17	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	10/17/17	KCA	1
o-Xylene	ND	0.230	ND	1.00	10/17/17	KCA	1
Propylene	0.720	0.581	1.24	1.00	10/17/17	KCA	1
sec-Butylbenzene	ND	0.182	ND	1.00	10/17/17	KCA	1
Styrene	ND	0.235	ND	1.00	10/17/17	KCA	1
Tetrachloroethene	12.4	0.037	84.1	0.25	10/17/17	KCA	1
Tetrahydrofuran	ND	0.339	ND	1.00	10/17/17	KCA	1
Toluene	ND	0.266	ND	1.00	10/17/17	KCA	1
Trans-1,2-Dichloroethene	4.33	0.252	17.2	1.00	10/17/17	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	10/17/17	KCA	1
Trichloroethene	8.21	0.037	44.1	0.20	10/17/17	KCA	1
Trichlorofluoromethane	0.664	0.178	3.73	1.00	10/17/17	KCA	1
Trichlorotrifluoroethane	0.144	0.131	1.10	1.00	10/17/17	KCA	1
Vinyl Chloride	ND	0.078	ND	0.20	10/17/17	KCA	1
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	107	%	107	%	10/17/17	KCA	1

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 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:

S - Laboratory solvent, contamination is possible.

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

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Phyllis Shiller, Laboratory Director

October 20, 2017

Reviewed and Released by: Ethan Lee, Project Manager



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



QA/QC Report

October 20, 2017

QA/QC Data

SDG I.D.: GBZ22465

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 406095 (ppbv), QC Sample No: BZ22465 (BZ22465 (1X, 10X, 125X) , BZ22466 (1X, 10X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	123	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.183	ND	1.00	103	5.45	5.56	1.00	1.02	2.0	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.183	ND	1.00	119	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.247	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.252	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	130	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	116	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.166	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.247	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.216	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	115	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.452	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.166	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.166	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.278	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.244	ND	1.00	120	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.204	ND	1.00	116	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.182	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	127	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.421	ND	1.00	101	4.44 S	4.51 S	1.87 S	1.90 S	NC	70 - 130	25
Acrylonitrile	ND	0.461	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.313	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.193	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.149	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.257	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.321	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.040	ND	0.25	101	0.52	0.52	0.082	0.082	NC	70 - 130	25
Chlorobenzene	ND	0.217	ND	1.00	112	1.80	1.80	0.392	0.391	NC	70 - 130	25
Chloroethane	ND	0.379	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.205	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.484	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	101	769	800	194	202	4.0	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.291	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.117	ND	1.00	116	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.202	ND	1.00	113	2.91	2.76	0.589	0.558	NC	70 - 130	25
Ethanol	ND	0.531	ND	1.00	92	1.49	1.61	0.793	0.853	NC	70 - 130	25

QA/QC Data

SDG I.D.: GBZ22465

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	0.278	ND	1.00	121	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	124	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.244	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.284	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.407	ND	1.00	97	1.22	1.28	0.495	0.521	NC	70 - 130	25
Isopropylbenzene	ND	0.204	ND	1.00	125	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	119	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.339	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.277	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.288	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.182	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	121	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.581	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.182	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.235	ND	1.00	121	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	114	2260	2490	334	368	9.7	70 - 130	25
Tetrahydrofuran	ND	0.339	ND	1.00	124	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.266	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	99	11.6	12.1	2.93	3.06	4.3	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.047	ND	0.25	104	1250	1360	233	254	8.6	70 - 130	25
Trichlorofluoromethane	ND	0.178	ND	1.00	100	1.79	1.81	0.319	0.323	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.131	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.098	ND	0.25	105	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	136	%	136	%	101	110	116	110	116	NC	70 - 130	25

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
October 20, 2017

Friday, October 20, 2017

Criteria: None

State: NY

Sample Criteria Exceedances Report
GBZ22465 - 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 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

October 20, 2017

SDG I.D.: GBZ22465

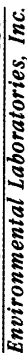
The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

AIRSIM

CHEM24 10/17/17-1: BZ22465, BZ22466

The following Initial Calibration compounds did not meet RSD% criteria: 1,1,1,2-Tetrachloroethane(sim) 34% (30%), Ethyl acetate 31% (30%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: 1,1,1,2-Tetrachloroethane(sim) 34% (30%), Ethyl acetate 31% (30%)



at Middle Tumpike, P.O. Box 370, Manchester, CT
Telephone: 860.645.1102 • Fax: 860.645.0823

AIR ANALYSES

email: greg@phoenixlabs.com

Yaphank NY 11980

Invoice to: EnviroTree

Project Name: EnSafe - Westbury

Requested Deliverable: ☐ RCP ☐

MCP ☐ NJ Deliverables ☐

State where samples collected: NY

Client Sample ID

22465 INFLOUENT

22466 EFFLUENT

1,4L Grab

Relinquished by:

Accent & hw.

10-10-10

[illegible]

L i

Data Format:

Excel	<input type="checkbox"/>	Equis	<input type="checkbox"/>	GISKey	<input type="checkbox"/>
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Character

1150
11030

10-17-17

PDF ☐ Other: ☐

SPECIAL INSTRUCTIONS, REQUIREMENTS, REGULATORY INFORMATION:

Requested Criteria

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

Quote Number:

Signature: _____

Date: _____

Appendix C
Groundwater Extraction/Hydraulic Containment System Installation
Daily Summary Reports

Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Week of October 2nd, 2017

The site contractor and electrician installed the system vaults and stand for the electrical service and system control panel throughout the week.



Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Monday, October 16, 2017

Summit mobilized to the site for further development activities.

- Approximately 16,000 gallons discharged from the frac tank. Will complete the discharge of the remaining 3,000 gallons tomorrow.
- Water jetted a bentonite mud reducer fluid into EX-1C well screen, then surged well screen for 1 hour.

System vaults and control panel mount completed prior to arrival on-site.



Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Tuesday, October 17, 2017

Development activities continued.

- The remaining 3,000 gallons was discharged from the frac tank.
- EX-1C was surged for 3 more hours. Then ~2,000 gallons was pumped from the well at 50 gpm.



Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Wednesday, October 18, 2017

Development activities continued.

- EX-1C surged for 8 hours.



Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Thursday, October 19, 2017

Development activities continued.

- Development was completed at EX-1C after pumping 1,000 gallons at 50 gpm.
- Development began at EX-1A, mud reducing fluid was added and the well was surged for 3 hours



Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Friday, October 20, 2017

Development activities continued.

- Development continued at EX-1A, the well was surged for 7 hours.



Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Monday, October 23, 2017

Development activities continued.

- EX-1A: development was completed after surging for 1 hour, and pumping 1,000 gallons at 20 GPM and 1,000 gallons at 30 GPM (2,000 gallons total).
- EX-1B: development began, mud reducing fluid was added and was surged for 1 hour.



Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Tuesday, October 24, 2017

Development activities continued.

- EX-1B: development began, well was surged for 8 hours.



Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Wednesday, October 25, 2017

Development activities continued.

- EX-1B: development was completed after pumping 2,000 gallons at 30 GPM.
- EX-1D: development began, mud reducing fluid was added and the well was surged for 2.5 hours.



Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Thursday, October 26, 2017

Development activities continued.

- EX-1D: well was surged for 9 hours.



Frost Street Sites
Groundwater Extraction Hydraulic Containment
Daily Summary
Friday, October 27, 2017

Development activities were completed.

- EX-1D: well was surged for 1 hours. 2,000 gallons were removed at 50 gpm.
- Drillers demobilized from the site.

