ENSAFE
a global professional services company
creative thinking. **custom solutions.®**

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

January 10, 2018

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

Re: Progress Report: December 2017
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 December 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**).
  - The air compressor remains down: repairs were attempted on December 11, 2017, but were unsuccessful. It was determined that the previous electrical issue caused damage to the controller; a replacement was ordered and repairs should be completed by January 12, 2018.
  - Procurement of estimates for replacement of the backup compressor is in progress.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on December 18, 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**.
  - Despite the air sparging portion of the system being down, influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride) continue to indicate significant mass extraction.
  - Due to effluent concentrations exhibiting breakthrough (December/November PID readings and November analytical data), a carbon exchange was performed on January 8, 2018.

Frost Street Sites Effluent Compliance			
System Flow Rate =		800	ft^3/m
Compound	**Annual Mass Emission Limit (lbs/year)**	**Allowable Continuous Annual Concentration ($\mu g/m^3$)**	**December 2017 Effluent Concentration ($\mu g/m^3$)**
Trichloroethene	500	19,000	6.98
Tetrachloroethene	1,000	38,000	24.1
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene	100	3,800	36.0

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.

- On December 18, 2017, approximately 500 gallons of system condensate water was discharged from the holding tank to the sewer via the onsite connection. All water is treated via activate carbon adsorption prior to discharge. Groundwater concentrations did not exceed applicable permit limits, as shown in **Appendix C.**

Groundwater Extraction/Hydraulic Containment System Installation (OU2)

- No site work was performed in December 2017.
- Removal of sediment from the extraction wells and select monitoring wells was performed the week of January 2, 2018; detailed results and documentation of this work will be provided in the January 2018 monthly report.
- Preparation for system startup is ongoing; work in January is expected to included hanging extraction well pumps, procuring aqueous carbon, and preparing for the post-construction monitoring (i.e., pump test).

Quarterly/Annual Groundwater Monitoring

- The fourth quarter 2017 groundwater sampling event was completed the week of December 18, 2017.

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	*Via email to amtamuno@gw.dec.state.ny.us*
G. Bobersky, NYSDEC	*Via email to gtbobers@gw.dec.state.ny.us*
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J. Nealon, NYSDOH	*Via email to jacquelyn.nealon@health.ny.gov*
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J. LaPoma, U.S. EPA	*Via email to lapoma.jennifer@epa.gov*
J. Heaney, Walden Associates	*Via email to jheaney@walden-associates.com*
P. Coop, EnSafe	*Via email to pcoop@ensafe.com*
J. Parillo, EnSafe	*Via email to jparillo@ensafe.com*
J. Wilkinson, Envirotrac	*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: 8-Dec
Weather / Temp: Clear / 38 DEG
Technician / Operator: DW

Arrival Time: 13:00
Departure Time: 15:30

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	OFF			

Soil Vapor Extraction System				
Blower Air Velocity/Flow Rate (fpm)/(cfm)	3600	707	Blower 1 Total Runtime (hrs)	49,010.7
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	48,848.0
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)	62		VGAC-1 Influent PID (ppm)	9.3
VGAC-1 Effluent Vacuum ("H2O)	54		VGAC-1 Effluent PID (ppm)	0.0
VGAC-2 Influent Vacuum ("H2O)	50		VGAC-2 Influent PID (ppm)	9.3
VGAC-2 Effluent Vacuum ("H2O)	50		VGAC-2 Effluent PID (ppm)	1.1
VGAC-3 Influent Pressure ("H2O)	7		VGAC-3 Influent PID (ppm)	0.0
VGAC-3 Effluent Pressure ("H2O)	3		VGAC-3 Effluent PID (ppm)	0.0
VGAC-2 Influent Temp (DegF)	120		Blower Effluent PID (ppm)	0.0
Blower Effluent Pressure ("H2O)	20			
Transfer Pump Total Runtime (hrs)	25,026.3		Condensate Storage Tank Level (gal)	333

SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	40	6500	142		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	44	3500	76	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	44	3500	76		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	44	2500	55	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	46	4400	96		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	44	5500	120	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	44	3600	79		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	44	2500	55	

Air Sparge System			
Compressor 1 Pressure (psi)	Off for repairs	Compressor 2 Pressure (psi)	
Compressor 1 Temperature (degF)	Off for repairs	Compressor 2 Temperature (degF)	
Compressor 1 Runtime (hrs)	27,317	Compressor 2 Runtime (hrs)	25,116
Manifold Regulator Pressure (psi)			

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

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: 15-Dec
Weather / Temp: Clear / 28 DEG
Technician / Operator: DW

Arrival Time: 14:30
Departure Time: 15:30

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	OFF			

Soil Vapor Extraction System

Blower Air Velocity/Flow Rate (fpm)/(cfm)	3400	668	Blower 1 Total Runtime (hrs)	49,092.5
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	48,925.6
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)	60		VGAC-1 Influent PID (ppm)	10.0
VGAC-1 Effluent Vacuum ("H2O)	52		VGAC-1 Effluent PID (ppm)	0.0
VGAC-2 Influent Vacuum ("H2O)	48		VGAC-2 Influent PID (ppm)	10.0
VGAC-2 Effluent Vacuum ("H2O)	48		VGAC-2 Effluent PID (ppm)	0.1
VGAC-3 Influent Pressure ("H2O)	5.8		VGAC-3 Influent PID (ppm)	0.0
VGAC-3 Effluent Pressure ("H2O)	2.5		VGAC-3 Effluent PID (ppm)	0.0
VGAC-2 Influent Temp (DegF)	120		Blower Effluent PID (ppm)	0.0
Blower Effluent Pressure ("H2O)	20			
Transfer Pump Total Runtime (hrs)	25,026.4		Condensate Storage Tank Level (gal)	500 → 0

SVE Manifold Legs - Vacuum/Flow Rate/PID

	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	38	6000	131		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	30	3300	72	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	40	3000	65		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	30	2300	50	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	32	4100	89		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	30	5000	109	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	32	3400	74		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	32	2200	48	

Air Sparge System

Compressor 1 Pressure (psi)	Off for repairs	Compressor 2 Pressure (psi)	
Compressor 1 Temperature (degF)	Off for repairs	Compressor 2 Temperature (degF)	
Compressor 1 Runtime (hrs)	27,317	Compressor 2 Runtime (hrs)	25,116
Manifold Regulator Pressure (psi)			

AS Manifold Legs - Pressure/Flow Rate

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

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: 18-Dec
Weather / Temp: Clear / 30 DEG
Technician / Operator: DW, JW

Arrival Time: 5:30
Departure Time: 6:30

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	OFF			

Soil Vapor Extraction System

Blower Air Velocity/Flow Rate (fpm)/(cfm)	3500	687	Blower 1 Total Runtime (hrs)	49,102.1
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	48,931.6
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)	60		VGAC-1 Influent PID (ppm)	4.9
VGAC-1 Effluent Vacuum ("H2O)	50		VGAC-1 Effluent PID (ppm)	0.0
VGAC-2 Influent Vacuum ("H2O)	50		VGAC-2 Influent PID (ppm)	4.9
VGAC-2 Effluent Vacuum ("H2O)	50		VGAC-2 Effluent PID (ppm)	0.0
VGAC-3 Influent Pressure ("H2O)	6		VGAC-3 Influent PID (ppm)	0.0
VGAC-3 Effluent Pressure ("H2O)	3		VGAC-3 Effluent PID (ppm)	0.0
VGAC-2 Influent Temp (DegF)	120		Blower Effluent PID (ppm)	0.0
Blower Effluent Pressure ("H2O)	20			
Transfer Pump Total Runtime (hrs)	25,026.5		Condensate Storage Tank Level (gal)	500 → 0

SVE Manifold Legs - Vacuum/Flow Rate/PID

	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	38	6000	131	2.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	31	3400	74	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	40	3000	65	2.3	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	32	2300	50	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	32	4000	87	4.2	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	30	5250	115	10.5
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	30	3400	74	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	33	2200	48	0.0

Air Sparge System

Compressor 1 Pressure (psi)	Off for repairs	Compressor 2 Pressure (psi)	
Compressor 1 Temperature (degF)	Off for repairs	Compressor 2 Temperature (degF)	
Compressor 1 Runtime (hrs)	27,317	Compressor 2 Runtime (hrs)	25,116
Manifold Regulator Pressure (psi)			

AS Manifold Legs - Pressure/Flow Rate

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

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: 28-Dec
Weather / Temp: Clear / 20 DEG
Technician / Operator: DW

Arrival Time: 14:00
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)	OFF	OFF			

Soil Vapor Extraction System				
Blower Air Velocity/Flow Rate (fpm)/(cfm)	3600	707	Blower 1 Total Runtime (hrs)	49,116.5
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	48,946.5
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)	64		VGAC-1 Influent PID (ppm)	4.9
VGAC-1 Effluent Vacuum ("H2O)	58		VGAC-1 Effluent PID (ppm)	0.0
VGAC-2 Influent Vacuum ("H2O)	52		VGAC-2 Influent PID (ppm)	4.9
VGAC-2 Effluent Vacuum ("H2O)	52		VGAC-2 Effluent PID (ppm)	0.0
VGAC-3 Influent Pressure ("H2O)	5		VGAC-3 Influent PID (ppm)	0.0
VGAC-3 Effluent Pressure ("H2O)	3		VGAC-3 Effluent PID (ppm)	0.0
VGAC-2 Influent Temp (DegF)	108		Blower Effluent PID (ppm)	0.0
Blower Effluent Pressure ("H2O)	9			
Transfer Pump Total Runtime (hrs)	25,026.5		Condensate Storage Tank Level (gal)	180

SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	40	6500	142		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	34	3400	74	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	42	3500	76		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	34	2500	55	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	34	3600	79		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	34	5500	120	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	34	4300	94		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	34	2300	50	

Air Sparge System			
Compressor 1 Pressure (psi)	Off for repairs	Compressor 2 Pressure (psi)	
Compressor 1 Temperature (degF)	Off for repairs	Compressor 2 Temperature (degF)	
Compressor 1 Runtime (hrs)	27,317	Compressor 2 Runtime (hrs)	25,116
Manifold Regulator Pressure (psi)			

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

Notes, Comments & Observations:

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

Alarm Date	Site Visit Date	Personnel	ALARM DESCRIPTION	Corrective Action	SVE Status Upon Departure	AS Status Upon Departure
11/30/2017	12/1/2017	JW	Compressor Failure	Wiring, contactor and new thermal overload replaced in December. Hydrovane control module to be replaced in January.	ON	OFF

Appendix B

SVE System Influent/Effluent Sampling (TO-15)

Laboratory Analytical Results

PHOENIX
Environmental Laboratories, Inc.

Wednesday, December 27, 2017

Attn:
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Project ID: ENSAFE-WESTBURY
Sample ID#s: BZ62417 - BZ62418

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 27, 2017

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DW	12/18/17	
Location Code:	ENVIROTR	Received by:	LB	12/19/17	13:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	792				

Laboratory Data

SDG ID: GBZ62417
Phoenix ID: BZ62417

Project ID: ENSAFE-WESTBURY
Client ID: INFLUENT

Parameter	ppbv Result		ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND		*0.146*	ND	*1.00*	12/19/17	KCA	1	1
1,1,1-Trichloroethane	1.18		*0.183*	6.43	*1.00*	12/19/17	KCA	1	
1,1,2,2-Tetrachloroethane	ND		*0.146*	ND	*1.00*	12/19/17	KCA	1	
1,1,2-Trichloroethane	ND		*0.183*	ND	*1.00*	12/19/17	KCA	1	
1,1-Dichloroethane	ND		*0.247*	ND	*1.00*	12/19/17	KCA	1	
1,1-Dichloroethene	ND		*0.051*	ND	*0.20*	12/19/17	KCA	1	
1,2,4-Trichlorobenzene	ND		*0.135*	ND	*1.00*	12/19/17	KCA	1	
1,2,4-Trimethylbenzene	ND		*0.204*	ND	*1.00*	12/19/17	KCA	1	
1,2-Dibromoethane(EDB)	ND		*0.130*	ND	*1.00*	12/19/17	KCA	1	
1,2-Dichlorobenzene	ND		*0.166*	ND	*1.00*	12/19/17	KCA	1	
1,2-Dichloroethane	ND		*0.247*	ND	*1.00*	12/19/17	KCA	1	
1,2-dichloropropane	ND		*0.217*	ND	*1.00*	12/19/17	KCA	1	
1,2-Dichlorotetrafluoroethane	ND		*0.143*	ND	*1.00*	12/19/17	KCA	1	
1,3,5-Trimethylbenzene	ND		*0.204*	ND	*1.00*	12/19/17	KCA	1	
1,3-Butadiene	ND		*0.452*	ND	*1.00*	12/19/17	KCA	1	
1,3-Dichlorobenzene	ND		*0.166*	ND	*1.00*	12/19/17	KCA	1	
1,4-Dichlorobenzene	ND		*0.166*	ND	*1.00*	12/19/17	KCA	1	
1,4-Dioxane	ND		*0.278*	ND	*1.00*	12/19/17	KCA	1	
2-Hexanone(MBK)	ND		*0.244*	ND	*1.00*	12/19/17	KCA	1	1
4-Ethyltoluene	ND		*0.204*	ND	*1.00*	12/19/17	KCA	1	1
4-Isopropyltoluene	ND		*0.182*	ND	*1.00*	12/19/17	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND		*0.244*	ND	*1.00*	12/19/17	KCA	1	
Acetone	1.59	S	*0.421*	3.77	*1.00*	12/19/17	KCA	1	
Acrylonitrile	ND		*0.461*	ND	*1.00*	12/19/17	KCA	1	
Benzene	ND		*0.313*	ND	*1.00*	12/19/17	KCA	1	
Benzyl chloride	ND		*0.193*	ND	*1.00*	12/19/17	KCA	1	

Project ID: ENSAFE-WESTBURY
Client ID: INFLUENT

Phoenix I.D.: BZ62417

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	12/19/17	KCA	1	
Bromoform	ND	*0.097*	ND	*1.00*	12/19/17	KCA	1	
Bromomethane	ND	*0.258*	ND	*1.00*	12/19/17	KCA	1	
Carbon Disulfide	ND	*0.321*	ND	*1.00*	12/19/17	KCA	1	
Carbon Tetrachloride	0.115	*0.032*	0.72	*0.20*	12/19/17	KCA	1	
Chlorobenzene	0.284	*0.217*	1.31	*1.00*	12/19/17	KCA	1	
Chloroethane	ND	*0.379*	ND	*1.00*	12/19/17	KCA	1	
Chloroform	0.229	*0.205*	1.12	*1.00*	12/19/17	KCA	1	
Chloromethane	ND	*0.485*	ND	*1.00*	12/19/17	KCA	1	
Cis-1,2-Dichloroethene	135	*7.57*	535	*30.0*	12/20/17	KCA	150	
cis-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	12/19/17	KCA	1	
Cyclohexane	ND	*0.291*	ND	*1.00*	12/19/17	KCA	1	
Dibromochloromethane	ND	*0.118*	ND	*1.00*	12/19/17	KCA	1	
Dichlorodifluoromethane	0.758	*0.202*	3.75	*1.00*	12/19/17	KCA	1	
Ethanol	1.67	*0.531*	3.14	*1.00*	12/19/17	KCA	1	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	12/19/17	KCA	1	1
Ethylbenzene	ND	*0.230*	ND	*1.00*	12/19/17	KCA	1	
Heptane	ND	*0.244*	ND	*1.00*	12/19/17	KCA	1	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	12/19/17	KCA	1	
Hexane	ND	*0.284*	ND	*1.00*	12/19/17	KCA	1	
Isopropylalcohol	0.413	*0.407*	1.01	*1.00*	12/19/17	KCA	1	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	12/19/17	KCA	1	
m,p-Xylene	0.373	*0.230*	1.62	*1.00*	12/19/17	KCA	1	
Methyl Ethyl Ketone	1.70	*0.339*	5.01	*1.00*	12/19/17	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	12/19/17	KCA	1	
Methylene Chloride	ND	*0.864*	ND	*3.00*	12/19/17	KCA	1	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	12/19/17	KCA	1	1
o-Xylene	ND	*0.230*	ND	*1.00*	12/19/17	KCA	1	
Propylene	1.42	*0.581*	2.44	*1.00*	12/19/17	KCA	1	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	12/19/17	KCA	1	1
Styrene	ND	*0.235*	ND	*1.00*	12/19/17	KCA	1	
Tetrachloroethene	1620	*5.53*	11000	*37.5*	12/20/17	KCA	150	
Tetrahydrofuran	3.79	*0.339*	11.2	*1.00*	12/19/17	KCA	1	1
Toluene	ND	*0.266*	ND	*1.00*	12/19/17	KCA	1	
Trans-1,2-Dichloroethene	4.30	*0.252*	17.0	*1.00*	12/19/17	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	12/19/17	KCA	1	
Trichloroethene	475	*5.59*	2550	*30.0*	12/20/17	KCA	150	
Trichlorofluoromethane	0.420	*0.178*	2.36	*1.00*	12/19/17	KCA	1	
Trichlorotrifluoroethane	ND	*0.131*	ND	*1.00*	12/19/17	KCA	1	
Vinyl Chloride	ND	*0.078*	ND	*0.20*	12/19/17	KCA	1	
QA/QC Surrogates								
% Bromofluorobenzene	120	*%*	120	*%*	12/19/17	KCA	1	

Ver 2

Project ID: ENSAFE-WESTBURY
Client ID: INFLUENT

Phoenix I.D.: BZ62417

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

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 (preceeded 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

December 27, 2017

Reviewed and Released by: Sarah Bell, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 27, 2017

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DW	12/18/17	
Location Code:	ENVIROTR	Received by:	LB	12/19/17	13:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	703				

Laboratory Data

SDG ID: GBZ62417
Phoenix ID: BZ62418

Project ID: ENSAFE-WESTBURY
Client ID: 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*	12/20/17	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	12/20/17	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/20/17	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	12/20/17	KCA	1	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	12/20/17	KCA	1	
1,1-Dichloroethene	ND	*0.051*	ND	*0.20*	12/20/17	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	12/20/17	KCA	1	
1,2,4-Trimethylbenzene	ND	*0.204*	ND	*1.00*	12/20/17	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	12/20/17	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/20/17	KCA	1	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	12/20/17	KCA	1	
1,2-dichloropropane	ND	*0.217*	ND	*1.00*	12/20/17	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	12/20/17	KCA	1	
1,3,5-Trimethylbenzene	ND	*0.204*	ND	*1.00*	12/20/17	KCA	1	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	12/20/17	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/20/17	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/20/17	KCA	1	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	12/20/17	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	12/20/17	KCA	1	1
4-Ethyltoluene	ND	*0.204*	ND	*1.00*	12/20/17	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	12/20/17	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	12/20/17	KCA	1	
Acetone	8.57	*0.421*	20.3	*1.00*	12/20/17	KCA	1	
Acrylonitrile	ND	*0.461*	ND	*1.00*	12/20/17	KCA	1	
Benzene	ND	*0.313*	ND	*1.00*	12/20/17	KCA	1	
Benzyl chloride	ND	*0.193*	ND	*1.00*	12/20/17	KCA	1	

Project ID: ENSAFE-WESTBURY
Client ID: EFFLUENT

Phoenix I.D.: BZ62418

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	12/20/17	KCA	1	
Bromoform	ND	*0.097*	ND	*1.00*	12/20/17	KCA	1	
Bromomethane	ND	*0.258*	ND	*1.00*	12/20/17	KCA	1	
Carbon Disulfide	ND	*0.321*	ND	*1.00*	12/20/17	KCA	1	
Carbon Tetrachloride	ND	*0.032*	ND	*0.20*	12/20/17	KCA	1	
Chlorobenzene	ND	*0.217*	ND	*1.00*	12/20/17	KCA	1	
Chloroethane	ND	*0.379*	ND	*1.00*	12/20/17	KCA	1	
Chloroform	ND	*0.205*	ND	*1.00*	12/20/17	KCA	1	
Chloromethane	ND	*0.485*	ND	*1.00*	12/20/17	KCA	1	
Cis-1,2-Dichloroethene	9.08	*0.051*	36.0	*0.20*	12/20/17	KCA	1	
cis-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	12/20/17	KCA	1	
Cyclohexane	ND	*0.291*	ND	*1.00*	12/20/17	KCA	1	
Dibromochloromethane	ND	*0.118*	ND	*1.00*	12/20/17	KCA	1	
Dichlorodifluoromethane	ND	*0.202*	ND	*1.00*	12/20/17	KCA	1	
Ethanol	0.735	*0.531*	1.38	*1.00*	12/20/17	KCA	1	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	12/20/17	KCA	1	1
Ethylbenzene	ND	*0.230*	ND	*1.00*	12/20/17	KCA	1	
Heptane	ND	*0.244*	ND	*1.00*	12/20/17	KCA	1	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	12/20/17	KCA	1	
Hexane	ND	*0.284*	ND	*1.00*	12/20/17	KCA	1	
Isopropylalcohol	1.78	*0.407*	4.37	*1.00*	12/20/17	KCA	1	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	12/20/17	KCA	1	
m,p-Xylene	ND	*0.230*	ND	*1.00*	12/20/17	KCA	1	
Methyl Ethyl Ketone	0.456	*0.339*	1.34	*1.00*	12/20/17	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	12/20/17	KCA	1	
Methylene Chloride	ND	*0.864*	ND	*3.00*	12/20/17	KCA	1	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	12/20/17	KCA	1	1
o-Xylene	ND	*0.230*	ND	*1.00*	12/20/17	KCA	1	
Propylene	3.30	*0.581*	5.68	*1.00*	12/20/17	KCA	1	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	12/20/17	KCA	1	1
Styrene	ND	*0.235*	ND	*1.00*	12/20/17	KCA	1	
Tetrachloroethene	3.55	*0.037*	24.1	*0.25*	12/20/17	KCA	1	
Tetrahydrofuran	ND	*0.339*	ND	*1.00*	12/20/17	KCA	1	1
Toluene	ND	*0.266*	ND	*1.00*	12/20/17	KCA	1	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/20/17	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	12/20/17	KCA	1	
Trichloroethene	1.30	*0.037*	6.98	*0.20*	12/20/17	KCA	1	
Trichlorofluoromethane	ND	*0.178*	ND	*1.00*	12/20/17	KCA	1	
Trichlorotrifluoroethane	ND	*0.131*	ND	*1.00*	12/20/17	KCA	1	
Vinyl Chloride	ND	*0.078*	ND	*0.20*	12/20/17	KCA	1	
QA/QC Surrogates								
% Bromofluorobenzene	108	*%*	108	*%*	12/20/17	KCA	1	

Ver 2

Project ID: ENSAFE-WESTBURY
Client ID: EFFLUENT

Phoenix I.D.: BZ62418

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

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
December 27, 2017
Reviewed and Released by: Sarah Bell, Project Manager

PHOENIX

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

December 27, 2017

QA/QC Data

SDG I.D.: GBZ62417

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 413747 (ppbv), QC Sample No: BZ61671 (BZ62417 (1X, 150X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	97	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	101	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	104	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	103	0.29	0.26	0.074	0.065	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	85	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	106	2.16	1.92	0.439	0.390	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	99	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	107	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	100	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	102	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	102	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	105	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	108	2.31	2.21	0.384	0.367	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	112	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	102	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	104	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	91	36.6	30.6	15.4	12.9	17.7	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	102	2.39	2.02	0.748	0.634	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	104	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	95	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	106	0.84	0.74	0.134	0.118	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	101	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	102	2.56	2.36	0.525	0.484	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	103	1.97	1.67	0.953	0.807	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	102	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	104	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	106	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	104	2.99	2.62	0.604	0.530	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	94	966	838	513	445	14.2	70 - 130	25

QA/QC Data

SDG I.D.: GBZ62417

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	99	13.6	12.0	3.77	3.34	12.1	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	107	1.31	1.08	0.303	0.248	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	109	1.78	1.54	0.435	0.377	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	78	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	106	2.43 S	1.91 S	0.691 S	0.543 S	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	88	368	310	150	126	17.4	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	107	3.74	3.06	0.861	0.705	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	102	1.54	1.36	0.524	0.462	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	103	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	107	3.40 S	3.18 S	0.978 S	0.916 S	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	103	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	105	1.36	ND	0.313	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	99	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	111	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	98	1130	935	166	138	18.4	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	104	7.87	6.82	2.09	1.81	14.4	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	104	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	101	3.63	2.98	0.675	0.554	19.7	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	101	1.76	1.40	0.314	0.250	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	101	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	103		103		99	122	112	122	112	NC	70 - 130	25
QA/QC Batch 413948 (ppbv), QC Sample No: BZ63471 (BZ62418)												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	97	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	100	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	99	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	104	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	84	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	106	8.84	8.75	1.80	1.78	1.1	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	100	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	109	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	98	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	105	2.21	2.19	0.449	0.446	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	101	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	104	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	105	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	104	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	111	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	106	3.34	3.17	0.679	0.646	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	100	1.16	1.11	0.211	0.203	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	93	32.8	32.3	13.8	13.6	1.5	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25

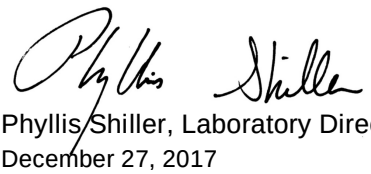
QA/QC Data

SDG I.D.: GBZ62417

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
Benzene	ND	0.310	ND	0.99	100	ND	ND	ND	ND	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	105	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	108	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	ND	0.320	ND	1.00	91	5.97	6.01	1.92	1.93	0.5	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	109	0.24	0.23	0.038	0.036	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	98	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	102	11.4	11.2	2.34	2.30	1.7	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	99	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	104	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	107	5.95	5.50	1.73	1.60	7.8	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	109	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	105	2.43	2.37	0.491	0.479	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	96	7.23	7.25	3.84	3.85	0.3	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	103	3.66	3.76	0.844	0.867	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	105	1.71	1.76	0.418	0.430	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	78	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	106	1.41 S	1.56 S	0.399 S	0.443 S	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	93	ND	ND	ND	ND	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	107	17.5	17.4	4.03	4.02	0.2	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	103	6.60	6.51	2.24	2.21	1.3	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	104	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	96	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	100	1.18	1.21	0.216	0.220	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	103	5.16	4.95	1.19	1.14	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	101	2.06	1.84	1.20	1.07	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	97	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	107	2.48	2.43	0.582	0.571	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	99	3.08	2.85	0.454	0.421	7.5	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	102	8.21	8.66	2.18	2.30	5.4	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	105	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	100	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	104	1.30	1.35	0.231	0.241	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	99	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	101		101		100	105	104	105	104	NC	70 - 130	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
December 27, 2017

Wednesday, December 27, 2017

Criteria: None

State: NY

Sample Criteria Exceedances Report

GBZ62417 - ENVIROTR

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

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

December 27, 2017 SDG I.D.: GBZ62417

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

CHAIN OF CUSTODY RECORD
AIR ANALYSES

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823
800-827-5426
email: greg@phoenixlabs.com

P.O. # Page of

Data Delivery:
☐ Fax #:
☐ Email:
☐ Phone #:

Report to:	Invoice to:	Project Name:
Customer: EnviroTrac		Requested Deliverable: RCP ☐ ASP CAT B ☐
Address: 5 Old Dock Road		MCP ☐ NJ Deliverables ☐
Yaphank, NY 11980	Sampled by: D. Weber	State where samples collected:

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
62417	INFLUENT	792	1.4L	-30.0		NA	NA	0550	—	12/1/17	—	—			X		X
62418	EFFLUENT	703	1.4L	-30.0		NA	NA	0545	—	↓	—	—			X		X
	② 1.4L GRAB																

Relinquished by:	Accepted by:	Date:	Time:
		12/1/17	0600
	T Downs	12-1-17	13:30

Data Format:
Excel ☐ Equis ☐ GISKey ☐
PDF ☐ Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Requested Criteria

Quote Number:

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

Signature: Date:

PHOENIX Environmental Laboratories, Inc.

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

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. #

Page 1 of 1

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

Report to: Jim Wilkinson
Customer: EnviroTrac
Address: 5 Old Dock Road
Yaphank, NY 11980

Invoice to: EnviroTrac

Sampled by: D. Warren

Project Name: ENSAFE - WESTBURY

Requested Deliverable: RCP ☐ ASP CAT B ☐ MCP ☐ NJ Deliverables ☐

State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	MATRIX: Ambient/Indoor Air	MATRIX: Soil Gas	MATRIX: Grab (G) Composite (C)	ANALYSES: TO-14	ANALYSES: TO-15
		THIS SECTION FOR LAB USE ONLY															
	INFLUENT	747	1.4L	-30.0		NA	NA	0550	—	12/8/17	—				X		X
	EFFLUENT	703	1.4L	-30.0		NA	NA	0545	—	↓	—				X		X

(2) 1.4L GRAB

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	12/8/17	0600

Data Format: Excel ☑ PDF ☑ Equis ☐ Other: ☐ GIS

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Requested Criteria

I attest that all media released by Phoenix Env... received in good working condition and as... back of this document:

Client Services

From: James Wilkinson, PE <jamesw@envirotrac.com>
Sent: Tuesday, December 26, 2017 12:00 PM
To: Client Services
Subject: RE: Phoenix Labs - GBZ62417, - Report Ready
Attachments: DOC122617-006.pdf

Please update the report with the attached COC.
Project ID: EnSafe-Westbury
State Collected: NY

Thanks,
Jim

From: clientservices@phoenixlabs.com [mailto:clientservices@phoenixlabs.com]
Sent: Thursday, December 21, 2017 2:21 PM
To: James Wilkinson, PE <jamesw@envirotrac.com>
Subject: Phoenix Labs - GBZ62417, - Report Ready

Delivery group GBZ62417 for the following samples:

BZ62417 - INFLUENT
BZ62418 - EFFLUENT

is available for review. Please click the following link to view report data.

www.PhoenixLabs.com

Note: The default password is your email address. You may change it after logging in.

Please take a moment to give us some feedback on your experience with Phoenix Environmental Laboratories, Inc. Your input is valuable to us!
www.phoenixlabs.com/CustomerSurvey

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.
cc' d:jamesw@envirotrac.com

James Wilkinson, PE | Senior Engineer | EnviroTrac Ltd. | 5 Old Dock Road, Yaphank NY 11980
631.924.3001 (Office) | 631.924.5001 (Fax) | jamesw@envirotrac.com

Solutions in Action - http://www.envirotrac.com

Appendix C

Water Sample

Laboratory Analytical Results

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

December 19, 2017

Jim Wilkinson
Envirotrac
5 Old Dock Road
Yaphank, NY 11980
TEL: (631) 924-3001
FAX (631) 924-5001

RE: Frost Street, 101 Frost St, Westbury, NY Order No.: 1712086

Dear Jim Wilkinson:

American Analytical Laboratories, LLC. received 1 sample(s) on 12/15/2017 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer

Lori Beyer
Lab Director
American Analytical Laboratories, LLC.

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Workorder Sample Summary

WO#: **1712086**

19-Dec-17

CLIENT: Envirotrac

Project: Frost Street, 101 Frost St, Westbury, NY

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1712086-001A	Discharge Water		12/15/2017 11:30:00 AM	12/15/2017 12:05:00 PM	Liquid

CHAIN OF CUSTODY

AMERICAN ANALYTICAL LABORATORIES

56 Toledo Street, Farmingdale NY 11735
(T) 631-454-6100 (F) 631-454-8027
www.american-analytical.com

CERTIFICATIONS
NY ELAP - 11418 PA DEP - 68-00573
NJ DEP - NY050 CT DOH - PH-0205

Client Information		Project Information		Analytical Information
Company Name EnviroTrac		**Project Name** Frost Street		
Address 5 Old Dock Road		**Street** 101 Frost Street		
City Yaphank	**State** NY **Zip** 11980	**City** Westbury	**State** NY **Zip**	
Project Contact Jim Wilkinson		**Project #**		
Phone # 631-924-3001		**Sampler's Name / Company** D.WEBER/ETN		
E-mail jamesw@envirotrac.com		**Sampler's Signature**		

LAB SAMPLE # (LAB USE ONLY)	Sample Information: Client Sample ID	Sample Type	Matrix Code	Sample Collection: Date	Time	Glass / Plastic	Sample Containers: Total # of bottles	Number of Each Preserved Bottle: NONE	HCl	NaOH	HNO_3	H_2SO_4	$NaHSO_4$	MeOH	OTHER	Analytical Information
1712086-001A	**Discharge Water**	Grab	L	12/5/17	1130	GL	3		3							**VOCS - EPA 624**

Turnaround Time (Business Days)

- [✓] Standard 7-10 Business Days
- [ ] 3 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 1 Day *RUSH*

SAMPLE TYPE

G = Grab
C = Composite
B = Blank

MATRIX CODES

L = Liquid PC = Paint Chip
S = Soil SL = Sludge
O = Oil SD = Solid
W = Wipe M = Miscellaneous

Comments / Remarks

Cooler Temp: 2.1°C

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

RELINQUISHED BY (SIGNATURE)	DATE 12/5/17 TIME 1705	PRINTED NAME D.WEBER	RECEIVED BY LAB (SIGNATURE) Karen Kelly	DATE 12/5/17 TIME 12:05	PRINTED NAME K.Kelly
RELINQUISHED BY (SIGNATURE)	DATE TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE TIME	PRINTED NAME

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Sample Log-In Check List

Client Name: **ENVIROTRAC** Work Order Number: **1712086** RcptNo: **1**

Logged by:	**Jenny Mullady**	**12/15/2017 12:05:00 PM**	Jennifer Mullady
Completed By:	**Jenny Mullady**	**12/15/2017**	Jennifer Mullady
Reviewed By:	**Karen Kelly**	**12/15/2017**	Karen Kelly

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
	No. Seal Date:	Signed By:		
5.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☑	No ☐	No VOA Vials ☐
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Case Narrative

WO#: **1712086**
Date: **12/19/2017**

CLIENT: Envirotrac
Project: Frost Street, 101 Frost St, Westbury, NY

Sample Discharge Water was analyzed using EPA Method 624.

Volatile LCS are analyzed with preservatives - HCL/NaHSO4/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Definition Only

WO#: **1712086**
Date: **12/19/2017**

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports
ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <5x the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.
LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.
LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
PQL - Practical Quantitation Limit; the lowest level that can be reliably achieved within the specific limits of Precision and accuracy. Listed on the QC Summary Forms.
m - Analyte was manually integrated for GC/MS.
+ - Concentration exceeds regulatory level for TCLP

American Analytical Laboratories, LLC.

Date: *19-Dec-17*

ELAP ID : 11418

CLIENT: Envirotrac
Client Sample ID: Discharge Water
Lab Order: 1712086
Collection Date: 12/15/2017 11:30:00 AM
Project: Frost Street, 101 Frost St, Westbury, NY
Matrix: LIQUID
Lab ID: 1712086-001A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624			**E624**		**E624**		Analyst: **LA**
1,1,1-Trichloroethane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
1,1,2,2-Tetrachloroethane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
1,1,2-Trichloroethane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
1,1-Dichloroethane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
1,1-Dichloroethene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
1,2-Dichlorobenzene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
1,2-Dichloroethane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
1,2-Dichloropropane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
1,3-Dichlorobenzene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
1,4-Dichlorobenzene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
2-Chloroethyl vinyl ether	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Benzene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Bromodichloromethane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Bromoform	0.12	0.20	2.0	J	µg/L	1	12/19/2017 4:38:00 AM
Bromomethane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Carbon tetrachloride	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Chlorobenzene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Chloroethane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Chloroform	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Chloromethane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
cis-1,3-Dichloropropene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Dibromochloromethane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Ethylbenzene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Methylene chloride	ND	5.0	5.0	U	µg/L	1	12/19/2017 4:38:00 AM
Tetrachloroethene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Toluene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
trans-1,2-Dichloroethene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
trans-1,3-Dichloropropene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Trichloroethene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Trichlorofluoromethane	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Vinyl chloride	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
Xylenes, Total	ND	0.60	6.0	U	µg/L	1	12/19/2017 4:38:00 AM
Acetone	ND	5.0	5.0	U	µg/L	1	12/19/2017 4:38:00 AM

American Analytical Laboratories, LLC.

Date: *19-Dec-17*

ELAP ID : 11418

CLIENT:	Envirotrac	**Client Sample ID:**	Discharge Water
Lab Order:	1712086	**Collection Date:**	12/15/2017 11:30:00 AM
Project:	Frost Street, 101 Frost St, Westbury, NY	**Matrix:**	LIQUID
Lab ID:	1712086-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624			**E624**		**E624**		Analyst: **LA**
m,p-Xylene	ND	0.40	4.0	U	µg/L	1	12/19/2017 4:38:00 AM
Methyl tert-butyl ether	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM
o-Xylene	ND	0.20	2.0	U	µg/L	1	12/19/2017 4:38:00 AM