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

Via email to rob.decandia@dec.ny.gov

December 10, 2018

Mr. Robert D. DeCandia Jr. P.E
NYSDEC, Division of Environmental Remediation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Re: Progress Report: November 2018
Frost Street Sites: Site ID #s 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. DeCandia:

EnSafe Inc. is pleased to submit this Progress Report for the Frost Street Sites (Site ID #s 1-30043 I, L, M) for work completed in November 2018.

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 Frost Street Parties submitted a proposal for system reconfiguration/optimization to support site redevelopment efforts on September 27, 2018.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on November 1, 2018, using Summa canisters. These samples were obtained by EnviroTrac, submitted to Phoenix Environmental Laboratories, and analyzed by Method TO-15. Results are included in **Appendix B**.
    - Photoionization detector readings and influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride [42,950 µg/m^3]) continue to indicate significant mass extraction.
    - Effluent concentrations are below the carbon exchange indicator concentration, with the exception of cis-1,2-dichloroethene, as shown in the table below. Because the cis-1,2-dichloroethene concentration exceeds the concentration, a carbon exchanged is scheduled for early January 2019.

Frost Street Sites
Effluent Compliance

System Flow Rate = 800 ft^3/m

Compound	Annual Mass Emission Limit (lbs/year)	Carbon Exchange Required Indicator Concentration ($\mu g/m^3$)[2]	November 2018 Effluent Concentration ($\mu g/m^3$)
Trichloroethene	500	19,000	1
Tetrachloroethene	1,000	38,000	8.81
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene[1]	100	3,800	**4,680**

Notes:

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

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

2 These limits were calculated based on Frost Street-specific system operations (i.e., flow rate) in order to remain below the annual HTAC emissions listed in Part 212-2.2 Table 2. Remaining below these concentrations ensures that annual emissions will not exceed the limit which demonstrates compliance with Part 212 without having to perform compound-specific analyses.

Groundwater Extraction/Hydraulic Containment System Installation (OU2)

Discharge permit compliance samples were collected on November 16, 2018; results were within permit limits and will be submitted to Nassau County in a forthcoming semi-annual compliance report. At this time, individual samples were also collected from each extraction well and analyzed for VOCs; a summary of the detected values is provided below, full results are provided in **Appendix C**.

Groundwater Extraction System
Individual Extraction Well Data – Volatile Organic Compounds – November 16, 2018 (ppb)

Analyte	EX-1A	EX-1B	EX-1C	EX-1D	
1,1-Dichloroethene	No sample; pump off.		ND	ND	**0.97 J**
Carbon Tetrachloride			ND	ND	**0.37 J**
Chloroform			ND	ND	**0.46 J**
Tetrachloroethene			**180 D**	**43**	**16**
Trichloroethene			**5**	**2.1**	**8.7**
Total VOCs		**NA**	**185**	**45.1**	**26.5**

Currently, the pumps in EX-1B, EX-1C, and EX-1D are operating near design flow rates. The pump in EX-1A malfunctioned in August; the repair and/or replacement of this pump will be determined pending NYSDEC approval of the *Expanded Pumping Test Summary, Findings, and Recommendations*, submitted on August 10, 2018.

Groundwater Monitoring

- The third quarter 2018 groundwater sampling event was performed the week of September 24, 2018; this sampling event included collection of quarterly samples for routine VOC analysis as well as emerging contaminant analysis from select wells in accordance with the NYSDEC

approved work plan. The data was submitted to NYSDEC on December 6, 2018; the report will be submitted once complete.

- The fourth quarter 2018 sampling event is scheduled for the week of December 10, 2018.

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 M. J. Stark

Alexandra Stark, P.E.

Attachments

Copies:

A. Tamuno, Esq., NYSDEC	*Via email to amtamuno@gw.dec.state.ny.us*
C. Bethoney, NYSDOH	*Via email to charlotte.bethoney@health.ny.gov*
J. Nealon, NYSDOH	*Via email to jacquelyn.nealon@health.ny.gov*
R. Putnam, NCDOH	*Via email to rputnam@nassaucountyny.gov*
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P. Coop, EnSafe	*Via email to pcoop@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: 1-Nov
Weather / Temp: Clear / 60 DEG
Technician / Operator: JW

Arrival Time: 13:00
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)	4700	923	Blower 1 Total Runtime (hrs)	52,400.8
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	52,113.3
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0
Moisture Separator Vacuum ("Hg)	3.5		Blower 2 Air Filter Differential Pressure ("H2O)	0
VGAC-1 Influent Vacuum ("H2O)	40		VGAC-1 Influent PID (ppm)	2.1
VGAC-1 Effluent Vacuum ("H2O)	45		VGAC-1 Effluent PID (ppm)	0.0
VGAC-2 Influent Vacuum ("H2O)	40		VGAC-2 Influent PID (ppm)	2.1
VGAC-2 Effluent Vacuum ("H2O)	45		VGAC-2 Effluent PID (ppm)	0.0
VGAC-3 Influent Pressure ("H2O)	50		VGAC-3 Influent PID (ppm)	0.0
VGAC-3 Effluent Pressure ("H2O)	60		VGAC-3 Effluent PID (ppm)	0.0
VGAC-3 Influent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0
Blower Effluent Pressure ("H2O)	10			
Transfer Pump Total Runtime (hrs)	25,033.0		Condensate Storage Tank Level (gal)	0

SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	48	7000	153	6.5	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	40	4500	98	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	50	4500	98	0.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	40	2800	61	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	42	5200	113	0.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	6500	142	0.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4200	92	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	42	3000	65	0.0

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)	196
Compressor 1 Runtime (hrs)	27,317	Compressor 2 Runtime (hrs)	29,701
Manifold Regulator Pressure (psi)	75		

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

Notes, Comments & Observations:

Collected monthly samples.

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: 6-Nov
Weather / Temp: Clear / 60 DEG
Technician / Operator: JW

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)	ON	ON			

Soil Vapor Extraction System				
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4700	923	Blower 1 Total Runtime (hrs)	52,463.5
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	52,166.4
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0
Moisture Separator Vacuum ("Hg)	3.5		Blower 2 Air Filter Differential Pressure ("H2O)	0
VGAC-1 Influent Vacuum ("H2O)	40		VGAC-1 Influent PID (ppm)	2.4
VGAC-1 Effluent Vacuum ("H2O)	45		VGAC-1 Effluent PID (ppm)	0.0
VGAC-2 Influent Vacuum ("H2O)	40		VGAC-2 Influent PID (ppm)	2.4
VGAC-2 Effluent Vacuum ("H2O)	45		VGAC-2 Effluent PID (ppm)	0.0
VGAC-3 Influent Pressure ("H2O)	50		VGAC-3 Influent PID (ppm)	0.0
VGAC-3 Effluent Pressure ("H2O)	60		VGAC-3 Effluent PID (ppm)	0.0
VGAC-3 Influent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0
Blower Effluent Pressure ("H2O)	10			
Transfer Pump Total Runtime (hrs)	25,033.0		Condensate Storage Tank Level (gal)	0

SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	50	7000	153		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	40	4500	98	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	50	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	40	2800	61	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	42	5200	113		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	6500	142	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4200	92		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	40	3000	65	

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)	196
Compressor 1 Runtime (hrs)	27,317	Compressor 2 Runtime (hrs)	29,816
Manifold Regulator Pressure (psi)	75		

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

Notes, Comments & Observations:

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

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

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

Arrival Time: 10:00
Departure Time: 11:00

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)	4700	923	Blower 1 Total Runtime (hrs)	52,563.9
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	52,251.3
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0
Moisture Separator Vacuum ("Hg)	3.5		Blower 2 Air Filter Differential Pressure ("H2O)	0
VGAC-1 Influent Vacuum ("H2O)	40		VGAC-1 Influent PID (ppm)	2.0
VGAC-1 Effluent Vacuum ("H2O)	45		VGAC-1 Effluent PID (ppm)	0.0
VGAC-2 Influent Vacuum ("H2O)	40		VGAC-2 Influent PID (ppm)	2.0
VGAC-2 Effluent Vacuum ("H2O)	45		VGAC-2 Effluent PID (ppm)	0.0
VGAC-3 Influent Pressure ("H2O)	50		VGAC-3 Influent PID (ppm)	0.0
VGAC-3 Effluent Pressure ("H2O)	60		VGAC-3 Effluent PID (ppm)	0.0
VGAC-3 Influent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0
Blower Effluent Pressure ("H2O)	10			
Transfer Pump Total Runtime (hrs)	25,033.0		Condensate Storage Tank Level (gal)	0

SVE Manifold Legs - Vacuum/Flow Rate/PID

	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	50	7500	164		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	42	4100	89	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	52	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	43	2900	63	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	44	5200	113		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	42	6500	142	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	42	4300	94		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	44	2900	63	

Air Sparge System

Compressor 1 Pressure (psi)	Off for repairs	Compressor 2 Pressure (psi)	95
Compressor 1 Temperature (degF)	Off for repairs	Compressor 2 Temperature (degF)	181
Compressor 1 Runtime (hrs)	27,317	Compressor 2 Runtime (hrs)	30,002
Manifold Regulator Pressure (psi)	80		

AS Manifold Legs - Pressure/Flow Rate

	Pressure	Flow Rate		Pressure	Flow Rate
AS-1 (psi)/(cfm)	16	10	AS-11 (psi)/(cfm)	15	4
AS-2 (psi)/(cfm)	15	6	AS-12B (psi)/(cfm)	15	7
AS-3 (psi)/(cfm)	15	5	AS-13B (psi)/(cfm)	13	10
AS-4 (psi)/(cfm)	13	8	AS-14 (psi)/(cfm)	14	9
AS-5 (psi)/(cfm)	15	5	AS-15 (psi)/(cfm)	15	9
AS-6 (psi)/(cfm)	15	7	AS-16B (psi)/(cfm)	13	9
AS-7 (psi)/(cfm)	15	4	AS-17 (psi)/(cfm)	14	4
AS-8 (psi)/(cfm)	15	9	AS-18 (psi)/(cfm)	13	5
AS-9 (psi)/(cfm)	15	5	AS-19 (psi)/(cfm)	13	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: 19-Nov
Weather / Temp: Clear / 50 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 11:00

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)	4650	913	Blower 1 Total Runtime (hrs)	52,625.2
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	52,257.5
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0
Moisture Separator Vacuum ("Hg)	3.5		Blower 2 Air Filter Differential Pressure ("H2O)	0
VGAC-1 Influent Vacuum ("H2O)	40		VGAC-1 Influent PID (ppm)	2.0
VGAC-1 Effluent Vacuum ("H2O)	45		VGAC-1 Effluent PID (ppm)	0.0
VGAC-2 Influent Vacuum ("H2O)	40		VGAC-2 Influent PID (ppm)	2.0
VGAC-2 Effluent Vacuum ("H2O)	45		VGAC-2 Effluent PID (ppm)	0.0
VGAC-3 Influent Pressure ("H2O)	50		VGAC-3 Influent PID (ppm)	0.0
VGAC-3 Effluent Pressure ("H2O)	60		VGAC-3 Effluent PID (ppm)	0.0
VGAC-3 Influent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0
Blower Effluent Pressure ("H2O)	10			
Transfer Pump Total Runtime (hrs)	25,033.0		Condensate Storage Tank Level (gal)	0

SVE Manifold Legs - Vacuum/Flow Rate/PID

	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	50	7500	164		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	42	4100	89	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	52	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	43	2900	63	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	44	5200	113		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	42	6500	142	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	42	4300	94		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	44	2900	63	

Air Sparge System

Compressor 1 Pressure (psi)	Off for repairs	Compressor 2 Pressure (psi)	93
Compressor 1 Temperature (degF)	Off for repairs	Compressor 2 Temperature (degF)	198
Compressor 1 Runtime (hrs)	27,317	Compressor 2 Runtime (hrs)	30,070
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)	15	4
AS-2 (psi)/(cfm)	15	6	AS-12B (psi)/(cfm)	15	7
AS-3 (psi)/(cfm)	14	9	AS-13B (psi)/(cfm)	13	10
AS-4 (psi)/(cfm)	15	8	AS-14 (psi)/(cfm)	14	10
AS-5 (psi)/(cfm)	15	8	AS-15 (psi)/(cfm)	15	10
AS-6 (psi)/(cfm)	15	10	AS-16B (psi)/(cfm)	13	10
AS-7 (psi)/(cfm)	15	4	AS-17 (psi)/(cfm)	14	5
AS-8 (psi)/(cfm)	15	9	AS-18 (psi)/(cfm)	13	5
AS-9 (psi)/(cfm)	15	5	AS-19 (psi)/(cfm)	13	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: 30-Nov
Weather / Temp: Clear / 45 DEG
Technician / Operator: JW

Arrival Time: 9:00
Departure Time: 12:00

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)	4600	903	Blower 1 Total Runtime (hrs)	52,757.6
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	52,259.3
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0
Moisture Separator Vacuum ("Hg)	4		Blower 2 Air Filter Differential Pressure ("H2O)	0
VGAC-1 Influent Vacuum ("H2O)	58		VGAC-1 Influent PID (ppm)	5.9
VGAC-1 Effluent Vacuum ("H2O)	52		VGAC-1 Effluent PID (ppm)	0.0
VGAC-2 Influent Vacuum ("H2O)	55		VGAC-2 Influent PID (ppm)	5.9
VGAC-2 Effluent Vacuum ("H2O)	47		VGAC-2 Effluent PID (ppm)	0.0
VGAC-3 Influent Pressure ("H2O)	10		VGAC-3 Influent PID (ppm)	0.0
VGAC-3 Effluent Pressure ("H2O)	5		VGAC-3 Effluent PID (ppm)	0.0
VGAC-3 Influent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0
Blower Effluent Pressure ("H2O)	20			
Transfer Pump Total Runtime (hrs)	25,033.0		Condensate Storage Tank Level (gal)	200

SVE Manifold Legs - Vacuum/Flow Rate/PID

	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	55	7500	164		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	46	4200	92	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	56	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	46	3200	70	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	48	5500	120		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	44	7000	153	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	46	4600	100		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	46	3200	70	

Air Sparge System

Compressor 1 Pressure (psi)	Off for repairs	Compressor 2 Pressure (psi)	93
Compressor 1 Temperature (degF)	Off for repairs	Compressor 2 Temperature (degF)	188
Compressor 1 Runtime (hrs)	27,317	Compressor 2 Runtime (hrs)	30,204
Manifold Regulator Pressure (psi)	80		

AS Manifold Legs - Pressure/Flow Rate

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

Notes, Comments & Observations:

Moved GAC-3 to pressure side of blower, performed semi-annual blower maintenance.

Appendix B

SVE System Influent/Effluent Sampling (TO-15)

Laboratory Analytical Results

Saturday, November 10, 2018

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

Project ID: ENSAFE-WESTBURY
Sample ID#s: CB88487 - CB88488

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,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 10, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	JW	11/01/18	13:46
Location Code:	ENVIROTR	Received by:	SW	11/05/18	16:35
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	739				

Laboratory Data

SDG ID: GCB88487
Phoenix ID: CB88487

Project ID: ENSAFE-WESTBURY
Client ID: SVE INFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	11/06/18	KCA	1	1
1,1,1-Trichloroethane	1.16	*0.183*	6.33	*1.00*	11/06/18	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	11/06/18	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	11/06/18	KCA	1	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	11/06/18	KCA	1	
1,1-Dichloroethene	0.136	*0.051*	0.54	*0.20*	11/06/18	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	11/06/18	KCA	1	
1,2,4-Trimethylbenzene	ND	*0.204*	ND	*1.00*	11/06/18	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	11/06/18	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	11/06/18	KCA	1	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	11/06/18	KCA	1	
1,2-dichloropropane	ND	*0.217*	ND	*1.00*	11/06/18	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	11/06/18	KCA	1	
1,3,5-Trimethylbenzene	ND	*0.204*	ND	*1.00*	11/06/18	KCA	1	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	11/06/18	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	11/06/18	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	11/06/18	KCA	1	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	11/06/18	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	11/06/18	KCA	1	1
4-Ethyltoluene	ND	*0.204*	ND	*1.00*	11/06/18	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	11/06/18	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	11/06/18	KCA	1	
Acetone	6.11	*0.421*	14.5	*1.00*	11/06/18	KCA	1	
Acrylonitrile	ND	*0.461*	ND	*1.00*	11/06/18	KCA	1	
Benzene	ND	*0.313*	ND	*1.00*	11/06/18	KCA	1	
Benzyl chloride	ND	*0.193*	ND	*1.00*	11/06/18	KCA	1	

Project ID: ENSAFE-WESTBURY
Client ID: SVE INFLUENT

Phoenix I.D.: CB88487

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	11/06/18	KCA	1	
Bromoform	ND	*0.097*	ND	*1.00*	11/06/18	KCA	1	
Bromomethane	ND	*0.258*	ND	*1.00*	11/06/18	KCA	1	
Carbon Disulfide	ND	*0.321*	ND	*1.00*	11/06/18	KCA	1	
Carbon Tetrachloride	0.076	*0.032*	0.48	*0.20*	11/06/18	KCA	1	
Chlorobenzene	0.329	*0.217*	1.51	*1.00*	11/06/18	KCA	1	
Chloroethane	ND	*0.379*	ND	*1.00*	11/06/18	KCA	1	
Chloroform	ND	*0.205*	ND	*1.00*	11/06/18	KCA	1	
Chloromethane	ND	*0.485*	ND	*1.00*	11/06/18	KCA	1	
Cis-1,2-Dichloroethene	294	*3.79*	1160	*15.0*	11/07/18	KCA	75	
cis-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	11/06/18	KCA	1	
Cyclohexane	ND	*0.291*	ND	*1.00*	11/06/18	KCA	1	
Dibromochloromethane	ND	*0.118*	ND	*1.00*	11/06/18	KCA	1	
Dichlorodifluoromethane	0.558	*0.202*	2.76	*1.00*	11/06/18	KCA	1	
Ethanol	1.86	*0.531*	3.50	*1.00*	11/06/18	KCA	1	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	11/06/18	KCA	1	1
Ethylbenzene	ND	*0.230*	ND	*1.00*	11/06/18	KCA	1	
Heptane	ND	*0.244*	ND	*1.00*	11/06/18	KCA	1	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	11/06/18	KCA	1	
Hexane	ND	*0.284*	ND	*1.00*	11/06/18	KCA	1	
Isopropylalcohol	1.01	*0.407*	2.48	*1.00*	11/06/18	KCA	1	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	11/06/18	KCA	1	
m,p-Xylene	ND	*0.230*	ND	*1.00*	11/06/18	KCA	1	
Methyl Ethyl Ketone	2.46	*0.339*	7.25	*1.00*	11/06/18	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	11/06/18	KCA	1	
Methylene Chloride	ND	*0.864*	ND	*3.00*	11/06/18	KCA	1	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	11/06/18	KCA	1	1
o-Xylene	ND	*0.230*	ND	*1.00*	11/06/18	KCA	1	
Propylene	ND	*0.581*	ND	*1.00*	11/06/18	KCA	1	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	11/06/18	KCA	1	1
Styrene	ND	*0.235*	ND	*1.00*	11/06/18	KCA	1	
Tetrachloroethene	5820	*5.53*	39400	*37.5*	11/08/18	KCA	150	
Tetrahydrofuran	0.734	*0.339*	2.16	*1.00*	11/06/18	KCA	1	1
Toluene	ND	*0.266*	ND	*1.00*	11/06/18	KCA	1	
Trans-1,2-Dichloroethene	4.96	*0.252*	19.7	*1.00*	11/06/18	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	11/06/18	KCA	1	
Trichloroethene	445	*2.79*	2390	*15.0*	11/07/18	KCA	75	
Trichlorofluoromethane	0.453	*0.178*	2.54	*1.00*	11/06/18	KCA	1	
Trichlorotrifluoroethane	ND	*0.131*	ND	*1.00*	11/06/18	KCA	1	
Vinyl Chloride	ND	*0.078*	ND	*0.20*	11/06/18	KCA	1	
QA/QC Surrogates								
% Bromofluorobenzene	107	*%*	107	*%*	11/06/18	KCA	1	

Ver 1

Project ID: ENSAFE-WESTBURY
Client ID: SVE INFLUENT

Phoenix I.D.: CB88487

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

November 10, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 10, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	JW	11/01/18	13:41
Location Code:	ENVIROTR	Received by:	SW	11/05/18	16:35
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	774				

Laboratory Data

SDG ID: GCB88487
Phoenix ID: CB88488

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	11/06/18	KCA	1	1
1,1,1-Trichloroethane	0.231	*0.183*	1.26	*1.00*	11/06/18	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	11/06/18	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	11/06/18	KCA	1	
1,1-Dichloroethane	0.305	*0.247*	1.23	*1.00*	11/06/18	KCA	1	
1,1-Dichloroethene	0.498	*0.051*	1.97	*0.20*	11/06/18	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	11/06/18	KCA	1	
1,2,4-Trimethylbenzene	ND	*0.204*	ND	*1.00*	11/06/18	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	11/06/18	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	11/06/18	KCA	1	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	11/06/18	KCA	1	
1,2-dichloropropane	ND	*0.217*	ND	*1.00*	11/06/18	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	11/06/18	KCA	1	
1,3,5-Trimethylbenzene	ND	*0.204*	ND	*1.00*	11/06/18	KCA	1	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	11/06/18	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	11/06/18	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	11/06/18	KCA	1	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	11/06/18	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	11/06/18	KCA	1	1
4-Ethyltoluene	ND	*0.204*	ND	*1.00*	11/06/18	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	11/06/18	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	11/06/18	KCA	1	
Acetone	5.02	*0.421*	11.9	*1.00*	11/06/18	KCA	1	
Acrylonitrile	ND	*0.461*	ND	*1.00*	11/06/18	KCA	1	
Benzene	ND	*0.313*	ND	*1.00*	11/06/18	KCA	1	
Benzyl chloride	ND	*0.193*	ND	*1.00*	11/06/18	KCA	1	

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Phoenix I.D.: CB88488

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	11/06/18	KCA	1	
Bromoform	ND	*0.097*	ND	*1.00*	11/06/18	KCA	1	
Bromomethane	ND	*0.258*	ND	*1.00*	11/06/18	KCA	1	
Carbon Disulfide	ND	*0.321*	ND	*1.00*	11/06/18	KCA	1	
Carbon Tetrachloride	ND	*0.032*	ND	*0.20*	11/06/18	KCA	1	
Chlorobenzene	ND	*0.217*	ND	*1.00*	11/06/18	KCA	1	
Chloroethane	ND	*0.379*	ND	*1.00*	11/06/18	KCA	1	
Chloroform	1.69	*0.205*	8.25	*1.00*	11/06/18	KCA	1	
Chloromethane	ND	*0.485*	ND	*1.00*	11/06/18	KCA	1	
Cis-1,2-Dichloroethene	1180	*3.79*	4680	*15.0*	11/07/18	KCA	75	
cis-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	11/06/18	KCA	1	
Cyclohexane	ND	*0.291*	ND	*1.00*	11/06/18	KCA	1	
Dibromochloromethane	ND	*0.118*	ND	*1.00*	11/06/18	KCA	1	
Dichlorodifluoromethane	0.554	*0.202*	2.74	*1.00*	11/06/18	KCA	1	
Ethanol	1.89	*0.531*	3.56	*1.00*	11/06/18	KCA	1	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	11/06/18	KCA	1	1
Ethylbenzene	ND	*0.230*	ND	*1.00*	11/06/18	KCA	1	
Heptane	ND	*0.244*	ND	*1.00*	11/06/18	KCA	1	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	11/06/18	KCA	1	
Hexane	ND	*0.284*	ND	*1.00*	11/06/18	KCA	1	
Isopropylalcohol	2.94	*0.407*	7.22	*1.00*	11/06/18	KCA	1	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	11/06/18	KCA	1	
m,p-Xylene	ND	*0.230*	ND	*1.00*	11/06/18	KCA	1	
Methyl Ethyl Ketone	1.11	*0.339*	3.27	*1.00*	11/06/18	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	11/06/18	KCA	1	
Methylene Chloride	ND	*0.864*	ND	*3.00*	11/06/18	KCA	1	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	11/06/18	KCA	1	1
o-Xylene	ND	*0.230*	ND	*1.00*	11/06/18	KCA	1	
Propylene	ND	*0.581*	ND	*1.00*	11/06/18	KCA	1	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	11/06/18	KCA	1	1
Styrene	ND	*0.235*	ND	*1.00*	11/06/18	KCA	1	
Tetrachloroethene	1.30	*0.037*	8.81	*0.25*	11/06/18	KCA	1	
Tetrahydrofuran	5.74	*0.339*	16.9	*1.00*	11/06/18	KCA	1	1
Toluene	ND	*0.266*	ND	*1.00*	11/06/18	KCA	1	
Trans-1,2-Dichloroethene	13.2	*0.252*	52.3	*1.00*	11/06/18	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	11/06/18	KCA	1	
Trichloroethene	0.187	*0.037*	1.00	*0.20*	11/06/18	KCA	1	
Trichlorofluoromethane	1.36	*0.178*	7.64	*1.00*	11/06/18	KCA	1	
Trichlorotrifluoroethane	14.7	*0.131*	113	*1.00*	11/06/18	KCA	1	
Vinyl Chloride	ND	*0.078*	ND	*0.20*	11/06/18	KCA	1	
QA/QC Surrogates								
% Bromofluorobenzene	92	*%*	92	*%*	11/06/18	KCA	1	

Ver 1

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Phoenix I.D.: CB88488

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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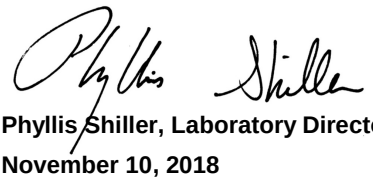

Phyllis Shiller, Laboratory Director
November 10, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

November 10, 2018

QA/QC Data

SDG I.D.: GCB88487

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 455271 (ppbv), QC Sample No: CB88060 (CB88487, CB88488)												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.055	ND	0.38	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.500	ND	2.73	105	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.031	ND	0.21	107	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.033	ND	0.18	103	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.450	ND	1.82	103	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.500	ND	1.98	105	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.280	ND	2.08	118	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46	113	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.050	ND	0.38	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.500	ND	3.00	115	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.050	ND	0.20	107	0.55	0.51	0.135	0.127	NC	70 - 130	25
1,2-dichloropropane	ND	0.061	ND	0.28	125	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.500	ND	3.49	106	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46	111	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.043	ND	0.10	105	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.500	ND	3.00	110	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.043	ND	0.26	110	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.160	ND	0.58	121	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.500	ND	2.05	116	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.500	ND	2.46	112	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.500	ND	2.74	111	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.500	ND	2.05	116	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	1.00	ND	2.37	101	8.31 S	7.81 S	3.50 S	3.29 S	NC	70 - 130	25
Acrylonitrile	ND	0.500	ND	1.08	104	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.041	ND	0.13	103	0.52	ND	0.164	ND	NC	70 - 130	25
Benzyl chloride	ND	0.048	ND	0.25	120	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.037	ND	0.25	125	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.500	ND	5.17	108	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.500	ND	1.94	99	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.500	ND	1.56	103	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.008	ND	0.05	105	0.54	0.54	0.086	0.086	0.0	70 - 130	25
Chlorobenzene	ND	0.500	ND	2.30	111	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.500	ND	1.32	113	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.051	ND	0.25	109	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.500	ND	1.03	97	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.150	ND	0.68	129	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.500	ND	1.72	110	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.500	ND	4.26	106	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.500	ND	2.47	114	33.8	33.5	6.83	6.77	0.9	70 - 130	25
Ethanol	ND	0.500	ND	0.94	121	7.42	6.53	3.94	3.47	12.7	70 - 130	25
Ethyl acetate	ND	0.500	ND	1.80	101	ND	ND	ND	ND	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCB88487

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
Ethylbenzene	ND	0.250	ND	1.08	110	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.500	ND	2.05	119	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.035	ND	0.37	108	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.500	ND	1.76	120	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.500	ND	1.23	102	ND	ND	ND	ND	NC	70 - 130	25
Isopropylbenzene	ND	0.500	ND	2.46	110	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	1.00	ND	4.34	110	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.500	ND	1.47	104	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.500	ND	1.80	109	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.500	ND	1.74	98	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.500	ND	2.74	104	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.500	ND	2.17	110	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.500	ND	0.86	104	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.500	ND	2.74	106	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.500	ND	2.13	108	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.093	ND	0.63	102	ND	ND	ND	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.500	ND	1.47	98	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.500	ND	1.88	118	ND	ND	ND	ND	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.500	ND	1.98	104	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.150	ND	0.68	112	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	111	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.500	ND	2.81	106	ND	ND	ND	ND	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.500	ND	3.83	100	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.043	ND	0.11	105	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	98		98		94	105	87	105	87	NC	70 - 130	25
QA/QC Batch 455282 (ppbv), QC Sample No: CB89493 (CB88487 (75X) , CB88488 (75X))												
Volatiles												
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	115	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	103	ND	ND	ND	ND	NC	70 - 130	25
QA/QC Batch 455632 (ppbv), QC Sample No: CB90610 (CB88487 (150X))												
Volatiles												
Tetrachloroethene	ND	0.500	ND	3.39	100	46.0	46.2	6.78	6.82	0.6	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
November 10, 2018

Saturday, November 10, 2018

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCB88487 - ENVIROTR

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

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

November 10, 2018 SDG I.D.: GCB88487

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

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:
☐ Phone #:

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

Invoice to: ENVIROTRAC

Sampled by: JIM WILKINSON

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)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
88487	SVE INFLUENT	739	1.4	-30		NA	NA	1:45	1:46	11/1					G		X
88488	SVE EFFLUENT	774	1.4	-30		NA	NA	1:40	1:41	11/1					G		X

Relinquished by:	Accepted by:	Date:	Time:
		11-5-18	11:45
		11-6-18	1035

Data Format:
Excel ☑ Equis ☐ Other ☑ (PDF)

Turnaround Time:
☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☑ Standard

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION: (2)(1.4)(GRAB)

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:

Appendix C

Groundwater Extraction System Analytical Data

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

November 21, 2018

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

RE: Frost Street OU2; 101 Frost Street, Westbur Order No.: 1811115

Dear Jim Wilkinson:

American Analytical Laboratories, LLC. received 3 sample(s) on 11/16/2018 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#: **1811115**

21-Nov-18

CLIENT: Envirotrac

Project: Frost Street OU2; 101 Frost Street, Westbury, N

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1811115-001A	EX-1B		11/16/2018 9:00:00 AM	11/16/2018 1:01:57 PM	Liquid
1811115-002A	EX-1C		11/16/2018 9:00:00 AM	11/16/2018 1:01:57 PM	Liquid
1811115-003A	EX-1D		11/16/2018 9:00:00 AM	11/16/2018 1:01:57 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 OU2	
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:	
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	Total # of bottles	Number of Each Preserved Bottle: NONE	HCl	NaOH	HNO3	H2SO4	NaHSO4	MeOH	OTHER	Analytical Information
18111[illegible]001	EX-1B	G	L	11/16	9:00	GL	3		3							VOCS - EPA 624
002	EX-1C	G	L	↓	↓	GL	3		3							VOCS - EPA 624
003	EX-1D	G	L			GL	3		3							VOCS - EPA 624
	Combined Effluent	C	L			P	2	1			1					Total Cadmium, Copper, Chromium, Nickel, Iron, Zinc, Hex Chromium
	Combined Effluent	C	L			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
S = Soil
O = Oil
W = Wipe
PC = Paint Chip
SL = Sludge
SD = Solid
M = Miscellaneous

Comments / Remarks

Cooler Temp: 4/10C

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

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
[signature]	11/16 1235	Joe Ostrander	[signature]	11/16/18 1235	[signature]
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: **1811115** RcptNo: **1**

Logged by:	**Lori Beyer**	**11/16/2018 1:01:57 PM**	Lori Beyer
Completed By:	**Lori Beyer**	**11/16/2018 1:04:12 PM**	Lori Beyer
Reviewed By:	**Phyllis Masi**	**11/16/2018**	Phyllis Masi

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#: **1811115**
Date: **11/21/2018**

CLIENT: Envirotrac
Project: Frost Street OU2; 101 Frost Street, Westbury, N

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional EPA methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion.

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#: **1811115**
Date: **11/21/2018**

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: *21-Nov-18*

ELAP ID : 11418

CLIENT:	Envirotrac	**Client Sample ID:**	EX-1B
Lab Order:	1811115	**Collection Date:**	11/16/2018 9:00:00 AM
Project:	Frost Street OU2; 101 Frost Street, Westbury, N	**Matrix:**	LIQUID
Lab ID:	1811115-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			**E624.1**		**E624.1**		Analyst: **LA**
1,1,1-Trichloroethane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
1,1,2,2-Tetrachloroethane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
1,1,2-Trichloroethane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
1,1-Dichloroethane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
1,1-Dichloroethene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
1,2-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
1,2-Dichloroethane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
1,2-Dichloropropane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
1,3-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
1,4-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
2-Chloroethyl vinyl ether	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Benzene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Bromodichloromethane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Bromoform	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Bromomethane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Carbon tetrachloride	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Chlorobenzene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Chloroethane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Chloroform	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Chloromethane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
cis-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Dibromochloromethane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Ethylbenzene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Methylene chloride	ND	5.0	5.0	U	µg/L	1	11/21/2018 12:15:00 AM
Tetrachloroethene	180	2.5	20	D	µg/L	10	11/21/2018 12:45:00 AM
Toluene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
trans-1,2-Dichloroethene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
trans-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Trichloroethene	5.0	0.25	2.0		µg/L	1	11/21/2018 12:15:00 AM
Trichlorofluoromethane	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Vinyl chloride	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
Xylenes, Total	ND	0.60	6.0	U	µg/L	1	11/21/2018 12:15:00 AM
Acetone	ND	5.0	5.0	U	µg/L	1	11/21/2018 12:15:00 AM

American Analytical Laboratories, LLC.

Date: *21-Nov-18*

ELAP ID : 11418

CLIENT:	Envirotrac	**Client Sample ID:**	EX-1B
Lab Order:	1811115	**Collection Date:**	11/16/2018 9:00:00 AM
Project:	Frost Street OU2; 101 Frost Street, Westbury, N	**Matrix:**	LIQUID
Lab ID:	1811115-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			**E624.1**		**E624.1**		Analyst: **LA**
m,p-Xylene	ND	0.40	4.0	U	µg/L	1	11/21/2018 12:15:00 AM
Methyl tert-butyl ether	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM
o-Xylene	ND	0.25	2.0	U	µg/L	1	11/21/2018 12:15:00 AM

American Analytical Laboratories, LLC.

Date: *21-Nov-18*

ELAP ID : 11418

CLIENT: Envirotrac
Client Sample ID: EX-1C
Lab Order: 1811115
Collection Date: 11/16/2018 9:00:00 AM
Project: Frost Street OU2; 101 Frost Street, Westbury, N
Matrix: LIQUID
Lab ID: 1811115-002A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			**E624.1**		**E624.1**		Analyst: **LA**
1,1,1-Trichloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
1,1,2,2-Tetrachloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
1,1,2-Trichloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
1,1-Dichloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
1,1-Dichloroethene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
1,2-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
1,2-Dichloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
1,2-Dichloropropane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
1,3-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
1,4-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
2-Chloroethyl vinyl ether	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Benzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Bromodichloromethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Bromoform	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Bromomethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Carbon tetrachloride	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Chlorobenzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Chloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Chloroform	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Chloromethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
cis-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Dibromochloromethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Ethylbenzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Methylene chloride	ND	5.0	5.0	U	µg/L	1	11/20/2018 11:15:00 PM
Tetrachloroethene	43	0.25	2.0		µg/L	1	11/20/2018 11:15:00 PM
Toluene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
trans-1,2-Dichloroethene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
trans-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Trichloroethene	2.1	0.25	2.0		µg/L	1	11/20/2018 11:15:00 PM
Trichlorofluoromethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Vinyl chloride	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
Xylenes, Total	ND	0.60	6.0	U	µg/L	1	11/20/2018 11:15:00 PM
Acetone	ND	5.0	5.0	U	µg/L	1	11/20/2018 11:15:00 PM

Original

American Analytical Laboratories, LLC.

Date: *21-Nov-18*

ELAP ID : 11418

CLIENT:	Envirotrac	**Client Sample ID:**	EX-1C
Lab Order:	1811115	**Collection Date:**	11/16/2018 9:00:00 AM
Project:	Frost Street OU2; 101 Frost Street, Westbury, N	**Matrix:**	LIQUID
Lab ID:	1811115-002A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			**E624.1**		**E624.1**		Analyst: **LA**
m,p-Xylene	ND	0.40	4.0	U	µg/L	1	11/20/2018 11:15:00 PM
Methyl tert-butyl ether	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM
o-Xylene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:15:00 PM

American Analytical Laboratories, LLC.

Date: *21-Nov-18*

ELAP ID : 11418

CLIENT: Envirotrac
Client Sample ID: EX-1D
Lab Order: 1811115
Collection Date: 11/16/2018 9:00:00 AM
Project: Frost Street OU2; 101 Frost Street, Westbury, N
Matrix: LIQUID
Lab ID: 1811115-003A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			**E624.1**		**E624.1**		Analyst: **LA**
1,1,1-Trichloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
1,1,2,2-Tetrachloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
1,1,2-Trichloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
1,1-Dichloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
1,1-Dichloroethene	0.97	0.25	2.0	J	µg/L	1	11/20/2018 11:45:00 PM
1,2-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
1,2-Dichloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
1,2-Dichloropropane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
1,3-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
1,4-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
2-Chloroethyl vinyl ether	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Benzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Bromodichloromethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Bromoform	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Bromomethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Carbon tetrachloride	0.37	0.25	2.0	J	µg/L	1	11/20/2018 11:45:00 PM
Chlorobenzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Chloroethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Chloroform	0.46	0.25	2.0	J	µg/L	1	11/20/2018 11:45:00 PM
Chloromethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
cis-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Dibromochloromethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Ethylbenzene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Methylene chloride	ND	5.0	5.0	U	µg/L	1	11/20/2018 11:45:00 PM
Tetrachloroethene	16	0.25	2.0		µg/L	1	11/20/2018 11:45:00 PM
Toluene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
trans-1,2-Dichloroethene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
trans-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Trichloroethene	8.7	0.25	2.0		µg/L	1	11/20/2018 11:45:00 PM
Trichlorofluoromethane	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Vinyl chloride	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
Xylenes, Total	ND	0.60	6.0	U	µg/L	1	11/20/2018 11:45:00 PM
Acetone	ND	5.0	5.0	U	µg/L	1	11/20/2018 11:45:00 PM

Original

American Analytical Laboratories, LLC.

Date: *21-Nov-18*

ELAP ID : 11418

CLIENT:	Envirotrac	**Client Sample ID:**	EX-1D
Lab Order:	1811115	**Collection Date:**	11/16/2018 9:00:00 AM
Project:	Frost Street OU2; 101 Frost Street, Westbury, N	**Matrix:**	LIQUID
Lab ID:	1811115-003A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			**E624.1**		**E624.1**		Analyst: **LA**
m,p-Xylene	ND	0.40	4.0	U	µg/L	1	11/20/2018 11:45:00 PM
Methyl tert-butyl ether	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM
o-Xylene	ND	0.25	2.0	U	µg/L	1	11/20/2018 11:45:00 PM