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

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

May 10, 2017

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

Re: Progress Report: April 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 the Progress Report for the Frost Street Sites (Site ID #s 1-30043 I, L, M) for work completed in April 2017.

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

- 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**).
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted after the carbon exchange, on April 21, 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**.
 - o Influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride) continue to indicate significant mass extraction. Photoionization detector readings between the lead and lag activated carbon media vessels and in the effluent air stream exhibit 0.0 parts per million total volatile organic compounds.
 - o Effluent concentrations are well below the allowable limits, as shown in the table below.

Frost Street Sites Effluent Compliance			
System Flow Rate =		800	ft ³ /m
Compound	Annual Mass Emission Limit (lbs/year)	Allowable Continuous Annual Concentration (µg/m ³)	April 2017 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	6.07
Tetrachloroethene	1,000	38,000	1.99
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene	100	3,800	18.4

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.

Quarterly/Annual Groundwater Monitoring

- The first quarter 2017 groundwater sampling event was completed during the week of March 27, 2017. The samples are being analyzed and will be validated by a third party data validator. Results will be included in a forthcoming report, when available.

If you have any questions or require additional information, please do not hesitate to contact me at 860-665-1140 or astark@ensafe.com or Jeff Parillo at 860-920-5889 or jparillo@ensafe.com.

Sincerely,

EnSafe, Inc., by



Alexandra Stark, P.E.

Copies: A. Tamuno, Esq., NYSDEC
G. Bobersky, NYSDEC
C. Bethoney, NYSDOH
J. Nealon, NYSDOH
J. DeFranco, NCDOH
T. Pupilla, Sanders Equities
K. Maldonado, Esq.
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J. LaPoma, U.S. EPA
J. Heaney, Walden Associates

Via email to amtamuno@gw.dec.state.ny.us
Via email to gtbobers@gw.dec.state.ny.us
Via email to charlotte.bethoney@health.ny.gov
Via email to jacquelyn.nealon@health.ny.gov
Via email to jdefranco@nassaucountyny.gov
Via email to tpupilla@sandersequities.com
Via email to kevinmaldonado64@yahoo.com
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Via email to lapoma.jennifer@epa.gov
Via email to jheaney@walden-associates.com



P. Coop, EnSafe	<i>Via email to pcoop@ensafe.com</i>
J. Parillo, EnSafe	<i>Via email to jparillo@ensafe.com</i>
J. Wilkinson, Envirotrac	<i>Via email to jamesw@envirotrac.com</i>

Appendix A
SVE/AS System O&M Logs

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

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

Date: 4-Apr
Weather / Temp: Clear / 45 DEG
Technician / Operator: DW

Arrival Time: 11:00
Departure Time: 13:00

System Status									
	Arrival	Departure		Arrival	Departure				
SVE Blower 1 (ON/OFF)	OFF	OFF	Sensaphone (ON/OFF)	ON	ON				
SVE Blower 2 (ON/OFF)	ON	ON	Surge Protection (ON/OFF)	ON	ON				
AS Compressor 1 (ON/OFF)	OFF	OFF	Lightning Protection (White/Black)	White	White				
AS Compressor 2 (ON/OFF)	ON	ON							
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/cfm)	4400	864	Blower 1 Total Runtime (hrs)	46,162.3					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	46,795.1					
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)	70		VGAC-1 Influent PID (ppm)	6.9					
VGAC-1 Effluent Vacuum ("H2O)	66		VGAC-1 Effluent PID (ppm)	0.0					
VGAC-2 Influent Vacuum ("H2O)	64		VGAC-2 Influent PID (ppm)	6.9					
VGAC-2 Effluent Vacuum ("H2O)	64		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)	2.6		VGAC-3 Effluent PID (ppm)	0.0					
Blower Effluent Temp (DegF)	128		Blower Effluent PID (ppm)	0.0					
Blower Effluent Pressure ("H2O)	12.5								
Transfer Pump Total Runtime (hrs)	25,025.9		Condensate Storage Tank Level (gal)	50					
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	48	7500	164		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	42	4000	87	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	50	4250	93		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	42	2900	63	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	45	4900	107		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	42	6500	142	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4200	92		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	45	2900	63	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	86			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	170			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	20,289.0			
Manifold Regulator Pressure (psi)	75								
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)	14	7		
AS-3 (psi)/cfm)	14	5			AS-13B (psi)/cfm)	13	17		
AS-4 (psi)/cfm)	14	10			AS-14 (psi)/cfm)	15	10		
AS-5 (psi)/cfm)	14	6			AS-15 (psi)/cfm)	15	12		
AS-6 (psi)/cfm)	14	6			AS-16B (psi)/cfm)	13	9		
AS-7 (psi)/cfm)	14	4			AS-17 (psi)/cfm)	14	4		
AS-8 (psi)/cfm)	14	12			AS-18 (psi)/cfm)	14	5		
AS-9 (psi)/cfm)	14	10			AS-19 (psi)/cfm)	14	4		
AS-10B (psi)/cfm)	14	13							

Notes, Comments & Observations:

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

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

Date: 13-Apr
Weather / Temp: Clear / 60 DEG
Technician / Operator: JW

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

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	OFF		OFF		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	ON		ON		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	46,270.2			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	46,903.1			
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)	64				VGAC-1 Influent PID (ppm)	2.0			
VGAC-1 Effluent Vacuum ("H2O)	74				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	58				VGAC-2 Influent PID (ppm)	2.0			
VGAC-2 Effluent Vacuum ("H2O)	66				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			
Blower Effluent Temp (DegF)	130				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	12.5								
Transfer Pump Total Runtime (hrs)	25,026.0				Condensate Storage Tank Level (gal)	100			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	48	7500	164		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	42	4300	94	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	51	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	42	3100	68	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	43	4900	107		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	42	6500	142	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	42	4200	92		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	44	3250	71	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	90			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	171			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	20,505.0			
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)	14.5	8		
AS-3 (psi)/(cfm)	13	5			AS-13B (psi)/(cfm)	13	10		
AS-4 (psi)/(cfm)	13	10			AS-14 (psi)/(cfm)	15	10		
AS-5 (psi)/(cfm)	15	6			AS-15 (psi)/(cfm)	15	12		
AS-6 (psi)/(cfm)	14	6			AS-16B (psi)/(cfm)	13	10		
AS-7 (psi)/(cfm)	14	4			AS-17 (psi)/(cfm)	13.5	4		
AS-8 (psi)/(cfm)	14	13			AS-18 (psi)/(cfm)	14.5	5		
AS-9 (psi)/(cfm)	15	11			AS-19 (psi)/(cfm)	13.5	4		
AS-10B (psi)/(cfm)	13	13							

Notes, Comments & Observations:

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

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

Date: 21-Apr
Weather / Temp: Rain / 50 DEG
Technician / Operator: DW

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

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	46,366.2			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	47,000.0			
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)	72				VGAC-1 Influent PID (ppm)	6.5			
VGAC-1 Effluent Vacuum ("H2O)	64				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	64				VGAC-2 Influent PID (ppm)	6.2			
VGAC-2 Effluent Vacuum ("H2O)	64				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)	2.5				VGAC-3 Effluent PID (ppm)	0.0			
Blower Effluent Temp (DegF)	130				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	12.5								
Transfer Pump Total Runtime (hrs)	25,026.0				Condensate Storage Tank Level (gal)	100			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	46	7500	164	21.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	40	4500	98	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	50	4500	98	4.6	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	40	3200	70	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	40	5000	109	4.2	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	6500	142	14.9
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4200	92	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	42	3200	70	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	91			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	175			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	20,698.0			
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)	14		8	
AS-3 (psi)/(cfm)	14		5		AS-13B (psi)/(cfm)	13		8	
AS-4 (psi)/(cfm)	13		10		AS-14 (psi)/(cfm)	15		11	
AS-5 (psi)/(cfm)	15		7		AS-15 (psi)/(cfm)	15		12	
AS-6 (psi)/(cfm)	15		7		AS-16B (psi)/(cfm)	14		10	
AS-7 (psi)/(cfm)	14		4		AS-17 (psi)/(cfm)	14		4	
AS-8 (psi)/(cfm)	14		12		AS-18 (psi)/(cfm)	14		5	
AS-9 (psi)/(cfm)	15		12		AS-19 (psi)/(cfm)	14		4	
AS-10B (psi)/(cfm)	14		13						

Notes, Comments & Observations: _____

Collected monthly air samples. _____

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

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

Date: 27-Apr
Weather / Temp: Clear / 67 DEG
Technician / Operator: DW

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

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4400		864		Blower 1 Total Runtime (hrs)	46,439.4			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	47,038.3			
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)	70				VGAC-1 Influent PID (ppm)	7.2			
VGAC-1 Effluent Vacuum ("H2O)	66				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	64				VGAC-2 Influent PID (ppm)	7.2			
VGAC-2 Effluent Vacuum ("H2O)	64				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)	2.5				VGAC-3 Effluent PID (ppm)	0.0			
Blower Effluent Temp (DegF)	130				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	12.5								
Transfer Pump Total Runtime (hrs)	25,026.0				Condensate Storage Tank Level (gal)	100			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	46	7250	158		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	40	4300	94	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	48	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	40	3000	65	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	40	4800	105		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	6250	136	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4000	87		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	42	3100	68	
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)	195			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	20,843.0			
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)	13	4		
AS-2 (psi)/(cfm)	15	6			AS-12B (psi)/(cfm)	13	7		
AS-3 (psi)/(cfm)	13	5			AS-13B (psi)/(cfm)	13	7		
AS-4 (psi)/(cfm)	13	10			AS-14 (psi)/(cfm)	15	10		
AS-5 (psi)/(cfm)	14	6			AS-15 (psi)/(cfm)	14	12		
AS-6 (psi)/(cfm)	13	6			AS-16B (psi)/(cfm)	14	10		
AS-7 (psi)/(cfm)	14	4			AS-17 (psi)/(cfm)	14	4		
AS-8 (psi)/(cfm)	13	13			AS-18 (psi)/(cfm)	14	5		
AS-9 (psi)/(cfm)	14	12			AS-19 (psi)/(cfm)	13	4		
AS-10B (psi)/(cfm)	13	10							

Notes, Comments & Observations: _____

Collected monthly air samples. _____

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



Friday, May 05, 2017

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

Project ID: ENSAFE-WESTBURY
Sample ID#s: BY09653 - BY09654

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

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

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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



Analysis Report

May 05, 2017

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: 72 Hour
P.O.#:
Canister Id: 784

Custody Information

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

Date Time

04/21/17
04/25/17 16:24

Laboratory Data

SDG ID: GBY09653
Phoenix ID: BY09653

Project ID: ENSAFE-WESTBURY
Client ID: INFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
<u>Volatiles (TO15)</u>								
1,1,1,2-Tetrachloroethane	ND	0.729	ND	5.00	04/25/17	KCA	5	1
1,1,1-Trichloroethane	ND	0.917	ND	5.00	04/25/17	KCA	5	
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	04/25/17	KCA	5	
1,1,2-Trichloroethane	ND	0.917	ND	5.00	04/25/17	KCA	5	
1,1-Dichloroethane	ND	1.24	ND	5.02	04/25/17	KCA	5	
1,1-Dichloroethene	ND	1.26	ND	4.99	04/25/17	KCA	5	
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	04/25/17	KCA	5	
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	04/25/17	KCA	5	
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	04/25/17	KCA	5	
1,2-Dichlorobenzene	ND	0.832	ND	5.00	04/25/17	KCA	5	
1,2-Dichloroethane	ND	1.24	ND	5.02	04/25/17	KCA	5	
1,2-dichloropropane	ND	1.08	ND	4.99	04/25/17	KCA	5	
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	04/25/17	KCA	5	
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	04/25/17	KCA	5	
1,3-Butadiene	ND	2.26	ND	5.00	04/25/17	KCA	5	
1,3-Dichlorobenzene	ND	0.832	ND	5.00	04/25/17	KCA	5	
1,4-Dichlorobenzene	ND	0.832	ND	5.00	04/25/17	KCA	5	
1,4-Dioxane	ND	1.39	ND	5.01	04/25/17	KCA	5	
2-Hexanone(MBK)	ND	1.22	ND	4.99	04/25/17	KCA	5	1
4-Ethyltoluene	ND	1.02	ND	5.01	04/25/17	KCA	5	1
4-Isopropyltoluene	ND	0.911	ND	5.00	04/25/17	KCA	5	1
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	04/25/17	KCA	5	
Acetone	2.29	S 2.11	5.44	5.01	04/25/17	KCA	5	
Acrylonitrile	ND	2.31	ND	5.01	04/25/17	KCA	5	
Benzene	ND	1.57	ND	5.01	04/25/17	KCA	5	
Benzyl chloride	ND	0.966	ND	5.00	04/25/17	KCA	5	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.747	ND	5.00	04/25/17	KCA	5
Bromoform	ND	0.484	ND	5.00	04/25/17	KCA	5
Bromomethane	ND	1.29	ND	5.01	04/25/17	KCA	5
Carbon Disulfide	ND	1.61	ND	5.01	04/25/17	KCA	5
Carbon Tetrachloride	ND	0.198	ND	1.24	04/25/17	KCA	5
Chlorobenzene	ND	1.09	ND	5.01	04/25/17	KCA	5
Chloroethane	ND	1.90	ND	5.01	04/25/17	KCA	5
Chloroform	ND	1.02	ND	4.98	04/25/17	KCA	5
Chloromethane	ND	2.42	ND	4.99	04/25/17	KCA	5
Cis-1,2-Dichloroethene	104	1.26	412	4.99	04/25/17	KCA	5
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	04/25/17	KCA	5
Cyclohexane	ND	1.45	ND	4.99	04/25/17	KCA	5
Dibromochloromethane	ND	0.587	ND	5.00	04/25/17	KCA	5
Dichlorodifluoromethane	ND	1.01	ND	4.99	04/25/17	KCA	5
Ethanol	ND	2.66	ND	5.01	04/25/17	KCA	5
Ethyl acetate	ND	1.39	ND	5.01	04/25/17	KCA	5
Ethylbenzene	ND	1.15	ND	4.99	04/25/17	KCA	5
Heptane	ND	1.22	ND	5.00	04/25/17	KCA	5
Hexachlorobutadiene	ND	0.469	ND	5.00	04/25/17	KCA	5
Hexane	ND	1.42	ND	5.00	04/25/17	KCA	5
Isopropylalcohol	ND	2.04	ND	5.01	04/25/17	KCA	5
Isopropylbenzene	ND	1.02	ND	5.01	04/25/17	KCA	5
m,p-Xylene	ND	1.15	ND	4.99	04/25/17	KCA	5
Methyl Ethyl Ketone	ND	1.70	ND	5.01	04/25/17	KCA	5
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	04/25/17	KCA	5
Methylene Chloride	ND	1.44	ND	5.00	04/25/17	KCA	5
n-Butylbenzene	ND	0.911	ND	5.00	04/25/17	KCA	5
o-Xylene	ND	1.15	ND	4.99	04/25/17	KCA	5
Propylene	ND	2.91	ND	5.01	04/25/17	KCA	5
sec-Butylbenzene	ND	0.911	ND	5.00	04/25/17	KCA	5
Styrene	ND	1.17	ND	4.98	04/25/17	KCA	5
Tetrachloroethene	3710	7.38	25100	50.0	04/26/17	KCA	200
Tetrahydrofuran	ND	1.70	ND	5.01	04/25/17	KCA	5
Toluene	ND	1.33	ND	5.01	04/25/17	KCA	5
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	04/25/17	KCA	5
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	04/25/17	KCA	5
Trichloroethene	188	0.233	1010	1.25	04/25/17	KCA	5
Trichlorofluoromethane	ND	0.891	ND	5.00	04/25/17	KCA	5
Trichlorotrifluoroethane	ND	0.653	ND	5.00	04/25/17	KCA	5
Vinyl Chloride	ND	0.489	ND	1.25	04/25/17	KCA	5
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	103	%	103	%	04/25/17	KCA	5

Client ID: INFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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1 = This parameter is not certified by 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

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

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

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Phyllis Shiller, Laboratory Director

May 05, 2017

Reviewed and Released by: Ethan Lee, Project Manager



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



Analysis Report

May 05, 2017

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: 72 Hour
P.O.#:
Canister Id: 837

Custody Information

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

Date Time

04/21/17
04/25/17 16:24

Laboratory Data

SDG ID: GBY09653
Phoenix ID: BY09654

Project ID: ENSAFE-WESTBURY
Client ID: EFFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	04/26/17	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	04/26/17	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	04/26/17	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	04/26/17	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	04/26/17	KCA	1
1,1-Dichloroethene	ND	0.252	ND	1.00	04/26/17	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	04/26/17	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	04/26/17	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	04/26/17	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	04/26/17	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	04/26/17	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	04/26/17	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	04/26/17	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	04/26/17	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	04/26/17	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	04/26/17	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	04/26/17	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	04/26/17	KCA	1
2-Hexanone(MBK)	0.339	0.244	1.39	1.00	04/26/17	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	04/26/17	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	04/26/17	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	04/26/17	KCA	1
Acetone	12.2	0.421	29.0	1.00	04/26/17	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	04/26/17	KCA	1
Benzene	ND	0.313	ND	1.00	04/26/17	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	04/26/17	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	04/26/17	KCA	1
Bromoform	ND	0.097	ND	1.00	04/26/17	KCA	1
Bromomethane	ND	0.258	ND	1.00	04/26/17	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	04/26/17	KCA	1
Carbon Tetrachloride	ND	0.040	ND	0.25	04/26/17	KCA	1
Chlorobenzene	ND	0.217	ND	1.00	04/26/17	KCA	1
Chloroethane	ND	0.379	ND	1.00	04/26/17	KCA	1
Chloroform	ND	0.205	ND	1.00	04/26/17	KCA	1
Chloromethane	ND	0.485	ND	1.00	04/26/17	KCA	1
Cis-1,2-Dichloroethene	4.64	0.252	18.4	1.00	04/26/17	KCA	1
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	04/26/17	KCA	1
Cyclohexane	ND	0.291	ND	1.00	04/26/17	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	04/26/17	KCA	1
Dichlorodifluoromethane	0.405	0.202	2.00	1.00	04/26/17	KCA	1
Ethanol	ND	0.531	ND	1.00	04/26/17	KCA	1
Ethyl acetate	ND	0.278	ND	1.00	04/26/17	KCA	1
Ethylbenzene	ND	0.230	ND	1.00	04/26/17	KCA	1
Heptane	ND	0.244	ND	1.00	04/26/17	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	04/26/17	KCA	1
Hexane	ND	0.284	ND	1.00	04/26/17	KCA	1
Isopropylalcohol	0.597	0.407	1.47	1.00	04/26/17	KCA	1
Isopropylbenzene	0.260	0.204	1.28	1.00	04/26/17	KCA	1
m,p-Xylene	ND	0.230	ND	1.00	04/26/17	KCA	1
Methyl Ethyl Ketone	2.32	0.339	6.84	1.00	04/26/17	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	04/26/17	KCA	1
Methylene Chloride	ND	0.288	ND	1.00	04/26/17	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	04/26/17	KCA	1
o-Xylene	ND	0.230	ND	1.00	04/26/17	KCA	1
Propylene	ND	0.581	ND	1.00	04/26/17	KCA	1
sec-Butylbenzene	ND	0.182	ND	1.00	04/26/17	KCA	1
Styrene	ND	0.235	ND	1.00	04/26/17	KCA	1
Tetrachloroethene	0.294	0.037	1.99	0.25	04/26/17	KCA	1
Tetrahydrofuran	ND	0.339	ND	1.00	04/26/17	KCA	1
Toluene	ND	0.266	ND	1.00	04/26/17	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	04/26/17	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	04/26/17	KCA	1
Trichloroethene	1.13	0.047	6.07	0.25	04/26/17	KCA	1
Trichlorofluoromethane	0.475	0.178	2.67	1.00	04/26/17	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	04/26/17	KCA	1
Vinyl Chloride	ND	0.098	ND	0.25	04/26/17	KCA	1
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	102	%	102	%	04/26/17	KCA	1

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL

BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

May 05, 2017

Reviewed and Released by: Ethan Lee, Project Manager



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



QA/QC Report

May 05, 2017

QA/QC Data

SDG I.D.: GBY09653

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 384217 (ppbv), QC Sample No: BY08431 (BY09653 (5X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.183	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.183	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.247	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.252	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	122	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	97	5.21	5.50	1.06	1.12	5.5	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.166	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.247	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.216	ND	1.00	73	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	97	1.39	1.37	0.282	0.279	NC	70 - 130	25
1,3-Butadiene	ND	0.452	ND	1.00	91	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.166	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.166	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.278	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.244	ND	1.00	118	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.204	ND	1.00	102	1.11	1.18	0.226	0.240	NC	70 - 130	25
4-Isopropyltoluene	ND	0.182	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.421	ND	1.00	96	33.5 S	32.8 S	14.1 S	13.8 S	NC	70 - 130	25
Acrylonitrile	ND	0.461	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.313	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.193	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.149	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.257	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.321	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.040	ND	0.25	100	ND	ND	ND	ND	NC	70 - 130	25
Chlorobenzene	ND	0.217	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.379	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.205	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.484	ND	1.00	102	1.09	1.19	0.527	0.578	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	95	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.291	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.117	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.202	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Ethanol	ND	0.531	ND	1.00	105	331	331	176	176	0.0	70 - 130	25

QA/QC Data

SDG I.D.: GBY09653

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.278	ND	1.00	145	8.25	8.79	2.29	2.44	6.3	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	101	3.15	3.15	0.727	0.726	NC	70 - 130	25
Heptane	ND	0.244	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.284	ND	1.00	98	0.76 S	0.81 S	0.215 S	0.230 S	NC	70 - 130	25
Isopropylalcohol	ND	0.407	ND	1.00	93	29.0	28.7	11.8	11.7	NC	70 - 130	25
Isopropylbenzene	ND	0.204	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	99	15.8	16.3	3.64	3.76	3.2	70 - 130	25
Methyl Ethyl Ketone	ND	0.339	ND	1.00	100	8.31	8.34	2.82	2.83	0.4	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.277	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.288	ND	1.00	89	7.53 S	7.67 S	2.17 S	2.21 S	NC	70 - 130	25
n-Butylbenzene	ND	0.182	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	97	7.90	7.81	1.82	1.80	1.1	70 - 130	25
Propylene	ND	0.581	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.182	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.235	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.339	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.266	ND	1.00	102	10.4	10.4	2.77	2.77	0.0	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.047	ND	0.25	99	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.178	ND	1.00	99	1.57	1.50	0.280	0.267	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.131	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.098	ND	0.25	94	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	122	%	122	%	97	102	102	102	102	NC	70 - 130	25

QA/QC Batch 384402 (ppbv), QC Sample No: BY09654 (BY09653 (200X) , BY09654)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.183	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.183	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.247	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.252	ND	1.00	91	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	135	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.166	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.247	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.216	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.452	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.166	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.166	ND	1.00	115	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.278	ND	1.00	116	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.244	ND	1.00	116	1.39	1.36	0.339	0.331	NC	70 - 130	25
4-Ethyltoluene	ND	0.204	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.182	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.421	ND	1.00	92	29.0	29.4	12.2	12.4	1.6	70 - 130	25
Acrylonitrile	ND	0.461	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.313	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25

QA/QC Data

SDG I.D.: GBY09653

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
Benzyl chloride	ND	0.193	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.149	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.257	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.321	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.040	ND	0.25	94	ND	ND	ND	ND	NC	70 - 130	25
Chlorobenzene	ND	0.217	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.379	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.205	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.484	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	91	18.4	18.9	4.64	4.76	2.6	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.291	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.117	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.202	ND	1.00	100	2.00	1.97	0.405	0.398	NC	70 - 130	25
Ethanol	ND	0.531	ND	1.00	109	ND	1.15	ND	0.611	NC	70 - 130	25
Ethyl acetate	ND	0.278	ND	1.00	136	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.244	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.284	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.407	ND	1.00	92	1.47	1.55	0.597	0.631	NC	70 - 130	25
Isopropylbenzene	ND	0.204	ND	1.00	108	1.28	1.26	0.260	0.257	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.339	ND	1.00	95	6.84	6.93	2.32	2.35	1.3	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.277	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.288	ND	1.00	83	ND	1.38 S	ND S	0.397 S	NC	70 - 130	25
n-Butylbenzene	ND	0.182	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.581	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.182	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.235	ND	1.00	119	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	105	1.99	2.20	0.294	0.325	10.0	70 - 130	25
Tetrahydrofuran	ND	0.339	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.266	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.047	ND	0.25	104	6.07	6.07	1.13	1.13	0.0	70 - 130	25
Trichlorofluoromethane	ND	0.178	ND	1.00	94	2.67	2.68	0.475	0.478	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.131	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.098	ND	0.25	99	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	117	%	117	%	98	102	98	102	98	NC	70 - 130	25

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

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

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director
May 05, 2017

Friday, May 05, 2017

Criteria: None

State: NY

Sample Criteria Exceedances Report
GBY09653 - ENVIROTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

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



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Analysis Comments

May 05, 2017

SDG I.D.: GBY09653

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

AIRSIM

CHEM24 04/25/17-1: BY09653

The following Initial Calibration compounds did not meet RSD% criteria: 1,2,4-Trichlorobenzene(sim) 37% (30%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: 1,2,4-Trichlorobenzene(sim) 37% (30%)

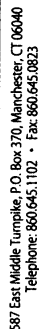
CHEM24 04/26/17-1: BY09653, BY09654

The following Initial Calibration compounds did not meet RSD% criteria: 1,2,4-Trichlorobenzene(sim) 37% (30%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: 1,2,4-Trichlorobenzene(sim) 37% (30%)

The following Continuing Calibration compounds did not meet % deviation criteria: 1,2,4-Trichlorobenzene(sim) 33%H (30%), 1,2-dichloropropane(sim) 35%L (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: 1,2,4-Trichlorobenzene(sim) 33%H (30%), 1,2-dichloropropane(sim) 35%L (30%)

Phone #:

State where samples collected: