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

June 10, 2016

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

Re: Progress Report: May 2016
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 May 2016.

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 (GAC) influent and effluent air flow was conducted on May 10, 2016 using a Summa canisters. These samples were obtained by EnviroTrac, submitted to Chemtech, and analyzed by Method TO-15. Results are included in **Appendix B**.

Quarterly/Annual Groundwater Monitoring

- The first quarter 2016 groundwater sampling event was completed during the week of April 4, 2016. 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 regarding this progress report, please do not hesitate to contact me at 860-665-1140 or astark@ensafe.com.

Sincerely,

EnSafe, Inc., by



Alexandra Stark, P.E.

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C. Wise, EnSafe	<i>Via email to cwise@ensafe.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-May
Weather / Temp: Overcast / 54 DEG
Technician / Operator: DW

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)	4400		864		Blower 1 Total Runtime (hrs)	42,385.8			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	43,132.4			
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)	72				VGAC-1 Influent PID (ppm)	23.6			
VGAC-1 Effluent Vacuum ("H2O)	68				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	60				VGAC-2 Influent PID (ppm)	23.6			
VGAC-2 Effluent Vacuum ("H2O)	64				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Pressure ("H2O)	9				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Pressure ("H2O)	3				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temperature (DegF)	134				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	14								
Transfer Pump Total Runtime (hrs)	25,022.5				Condensate Storage Tank Level (gal)	20			
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	24.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	40	4600	100	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	50	4500	98	17.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	42	3200	70	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	42	5200	113	5.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	6500	142	50.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4400	96	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	40	3300	72	0.0
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)	187			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	16,144.0			
Manifold Regulator Pressure (psi)	75								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	15	8			AS-11 (psi)/(cfm)	16	4		
AS-2 (psi)/(cfm)	14	8			AS-12B (psi)/(cfm)	14	8		
AS-3 (psi)/(cfm)	14	8			AS-13B (psi)/(cfm)	14	8		
AS-4 (psi)/(cfm)	14	8			AS-14 (psi)/(cfm)	14	8		
AS-5 (psi)/(cfm)	16	8			AS-15 (psi)/(cfm)	15	8		
AS-6 (psi)/(cfm)	14	8			AS-16B (psi)/(cfm)	14	8		
AS-7 (psi)/(cfm)	15	5			AS-17 (psi)/(cfm)	15	8		
AS-8 (psi)/(cfm)	15	8			AS-18 (psi)/(cfm)	15	8		
AS-9 (psi)/(cfm)	15	8			AS-19 (psi)/(cfm)	15	5		
AS-10B (psi)/(cfm)	14	8							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Operation & Maintenance Data Sheet

Ensaf-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: 10-May
Weather / Temp: Clear / 70 DEG
Technician / Operator: DW

Arrival Time: 19:00
Departure Time: 20:30

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		OFF		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		ON		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	42,462.6			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	43,208.2			
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)	74				VGAC-1 Influent PID (ppm)	18.6			
VGAC-1 Effluent Vacuum ("H2O)	68				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	60				VGAC-2 Influent PID (ppm)	18.6			
VGAC-2 Effluent Vacuum ("H2O)	64				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Pressure ("H2O)	9				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Pressure ("H2O)	2				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temperature (DegF)	134				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	14								
Transfer Pump Total Runtime (hrs)	25,022.6				Condensate Storage Tank Level (gal)	20			
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	24.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	40	4600	100	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	50	4750	104	16.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	42	6500	142	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	42	4200	92	4.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	3200	70	42.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	42	5200	113	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	42	3300	72	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	96			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	183			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	16,265.0			
Manifold Regulator Pressure (psi)	80								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	18	6			AS-11 (psi)/(cfm)	18	8		
AS-2 (psi)/(cfm)	16	8			AS-12B (psi)/(cfm)	17	8		
AS-3 (psi)/(cfm)	15	8			AS-13B (psi)/(cfm)	16	8		
AS-4 (psi)/(cfm)	15	8			AS-14 (psi)/(cfm)	17	8		
AS-5 (psi)/(cfm)	17	8			AS-15 (psi)/(cfm)	17	8		
AS-6 (psi)/(cfm)	17	8			AS-16B (psi)/(cfm)	18	8		
AS-7 (psi)/(cfm)	18	8			AS-17 (psi)/(cfm)	17	4		
AS-8 (psi)/(cfm)	16	8			AS-18 (psi)/(cfm)	16	8		
AS-9 (psi)/(cfm)	17	8			AS-19 (psi)/(cfm)	17	8		
AS-10B (psi)/(cfm)	16	8							

Notes, Comments & Observations:

Compressor 1 off for repairs.

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: 17-May
Weather / Temp: Clear / 60 DEG
Technician / Operator: JW

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

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		OFF		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		ON		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	OFF		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	42,544.6			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	43,286.2			
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)	24.0			
VGAC-1 Effluent Vacuum ("H2O)	68				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	60				VGAC-2 Influent PID (ppm)	24.0			
VGAC-2 Effluent Vacuum ("H2O)	64				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)	3				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temperature (DegF)	134				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	14								
Transfer Pump Total Runtime (hrs)	25,022.6				Condensate Storage Tank Level (gal)	20			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	48	7100	155		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	40	4600	100	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	50	4200	92		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	42	3200	70	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	50	5100	111		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	6500	142	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4500	98		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	40	3300	72	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	84			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	182			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	16,376.0			
Manifold Regulator Pressure (psi)	80								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	15	6			AS-11 (psi)/(cfm)	16	9		
AS-2 (psi)/(cfm)	14	7			AS-12B (psi)/(cfm)	14	6		
AS-3 (psi)/(cfm)	14	8			AS-13B (psi)/(cfm)	14	6		
AS-4 (psi)/(cfm)	14	8			AS-14 (psi)/(cfm)	14	7		
AS-5 (psi)/(cfm)	15	10			AS-15 (psi)/(cfm)	14	6		
AS-6 (psi)/(cfm)	15	8			AS-16B (psi)/(cfm)	15	8		
AS-7 (psi)/(cfm)	15	8			AS-17 (psi)/(cfm)	15	5		
AS-8 (psi)/(cfm)	15	8			AS-18 (psi)/(cfm)	15	8		
AS-9 (psi)/(cfm)	15	10			AS-19 (psi)/(cfm)	15	8		
AS-10B (psi)/(cfm)	15	5							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Compressor 2 off upon due to high temp alarm. Checked oil level, restarted.

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: 23-May
Weather / Temp: Clear / 68 DEG
Technician / Operator: DW

Arrival Time: 13:00
Departure Time: 14:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		OFF		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		ON		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	OFF		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	42,622.3			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	43,353.6			
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)	20.0			
VGAC-1 Effluent Vacuum ("H2O)	74				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	66				VGAC-2 Influent PID (ppm)	20.0			
VGAC-2 Effluent Vacuum ("H2O)	62				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Pressure ("H2O)	9				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Pressure ("H2O)	2				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temperature (DegF)	130				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	12								
Transfer Pump Total Runtime (hrs)	25,022.6				Condensate Storage Tank Level (gal)	20			
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	4400	96	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	50	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	44	3200	70	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	40	5200	113		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	44	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	42	4600	100		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	44	3000	65	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	88			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	189			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	16,451.0			
Manifold Regulator Pressure (psi)	70								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	18	8			AS-11 (psi)/(cfm)	16	6		
AS-2 (psi)/(cfm)	17	6			AS-12B (psi)/(cfm)	15	8		
AS-3 (psi)/(cfm)	16	8			AS-13B (psi)/(cfm)	16	6		
AS-4 (psi)/(cfm)	14	8			AS-14 (psi)/(cfm)	16	8		
AS-5 (psi)/(cfm)	17	8			AS-15 (psi)/(cfm)	16	8		
AS-6 (psi)/(cfm)	16	8			AS-16B (psi)/(cfm)	17	8		
AS-7 (psi)/(cfm)	16	6			AS-17 (psi)/(cfm)	16	4		
AS-8 (psi)/(cfm)	17	8			AS-18 (psi)/(cfm)	16	8		
AS-9 (psi)/(cfm)	16	8			AS-19 (psi)/(cfm)	16	8		
AS-10B (psi)/(cfm)	16	8							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Compressor 2 off upon due to high temp alarm. Added oil, restarted.

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: 31-May
Weather / Temp: Clear / 84 DEG
Technician / Operator: DW

Arrival Time: 12:00
Departure Time: 13:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		OFF		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		ON		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	OFF		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	42,721.0			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	43,446.7			
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)	74				VGAC-1 Influent PID (ppm)	5.0			
VGAC-1 Effluent Vacuum ("H2O)	74				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	64				VGAC-2 Influent PID (ppm)	5.0			
VGAC-2 Effluent Vacuum ("H2O)	60				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Pressure ("H2O)	9				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Pressure ("H2O)	2				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temperature (DegF)	140				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	12								
Transfer Pump Total Runtime (hrs)	25,022.6				Condensate Storage Tank Level (gal)	20			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	4	7500	164		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	40	4400	96	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	50	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	40	3100	68	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	42	5200	113		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	42	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4600	100		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	42	3100	68	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	77			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	185			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	16,477.0			
Manifold Regulator Pressure (psi)	70								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	18	8			AS-11 (psi)/(cfm)	16	6		
AS-2 (psi)/(cfm)	17	6			AS-12B (psi)/(cfm)	14	8		
AS-3 (psi)/(cfm)	17	8			AS-13B (psi)/(cfm)	16	6		
AS-4 (psi)/(cfm)	15	8			AS-14 (psi)/(cfm)	16	8		
AS-5 (psi)/(cfm)	16	8			AS-15 (psi)/(cfm)	16	8		
AS-6 (psi)/(cfm)	16	8			AS-16B (psi)/(cfm)	17	8		
AS-7 (psi)/(cfm)	16	6			AS-17 (psi)/(cfm)	16	4		
AS-8 (psi)/(cfm)	16	8			AS-18 (psi)/(cfm)	16	8		
AS-9 (psi)/(cfm)	16	8			AS-19 (psi)/(cfm)	16	8		
AS-10B (psi)/(cfm)	16	8							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Compressor 2 off upon arrival due to low oil level, added oil and restarted.

Appendix B

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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : FROST STREET SITES / SPGL 100.03

ENVIROTRAC ENVIRONMENTAL SERVICES

5 Old Dock Road

Yaphank, NY - 11980

Phone No: 631-924-3001

ORDER ID : H3094

ATTENTION : James Wilkinson



DoD ELAP

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4

5

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Cover Page

Order ID : H3094

Project ID : Frost Street Sites / SPGL 100.03

Client : Envirotrac Environmental Services

Lab Sample Number

H3094-01
H3094-02

Client Sample Number

EFF
INF

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

APPROVED

Date: 5/26/2016
By Mildred V Reyes, QAQC Supervisor at 12:26 pm, May 27, 2016

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Envirotrac Environmental Services

Project Name: Frost Street Sites / SPGL 100.03

Project # N/A

Chemtech Project # H3094

Test Name: TO-15

A. Number of Samples and Date of Receipt:

2 Air samples were received on 05/13/2016.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD for H3139-02DUP {SV1DUP} with File ID: VL027795.D recoveries met criteria except for Vinyl Chloride[28.6%] .

The Blank Spike met requirements for all samples .

The Blank analysis indicated presence of Acetone[0.17 ppbv]

FileID:VL027779.D{VL0518ABL01}, Methylene Chloride[0.16 ppbv]

FileID:VL027779.D{VL0518ABL01} due to possible lab contamination.

The Initial Calibration met the requirements except for Styrene, Naphthalene have more than 30% RSD in the Initial Calibration with dated 05/12/2016 with L Instrument but as per method two compounds as allowed to be fail .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Samples INF was diluted due to bad matrix.

Samples INF, INFDL were diluted due to high concentrations.

E. Additional Comments:**F. Manual Integration Comments:**

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____ *Mildred V Reyes* _____

APPROVED

By Mildred V Reyes, QAQC Supervisor at 12:26 pm, May 27, 2016

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: H3094

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

1st Level QA Review Signature: ASHA PATEL

Date: 05/26/2016

2nd Level QA Review Signature: Mildred V Reyes

APPROVED

By Mildred V Reyes, QAQC Supervisor at 12:26 pm, May 27, 2016



284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	H3094	OrderDate:	5/13/2016 12:47:00 PM
Client:	Envirotrac Environmental Services	Project:	Frost Street Sites / SPGL 100.03
Contact:	James Wilkinson	Location:	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
H3094-01	EFF	Air	TO-15	TO-15	05/10/16		05/18/16	05/13/16
H3094-02	INF	Air	TO-15	TO-15	05/10/16		05/18/16	05/13/16
H3094-02DL	INFDL	Air	TO-15	TO-15	05/10/16		05/18/16	05/13/16
H3094-02DL 2	INFDL2	Air	TO-15	TO-15	05/10/16		05/18/16	05/13/16

Hit Summary Sheet SW-846

SDG No.: H3094

Client: Envirotrac Environmental Services

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	EFF								
H3094-01	EFF	Air	Dichlorodifluoromethane	1.04	J	0.2	0.49	2.47	ug/m3
H3094-01	EFF	Air	Chloromethane	0.50	J	0.04	0.21	1.03	ug/m3
H3094-01	EFF	Air	Tetrahydrofuran	3.54		0.09	0.29	1.47	ug/m3
H3094-01	EFF	Air	Trichlorofluoromethane	2.75	J	0.11	0.56	2.81	ug/m3
H3094-01	EFF	Air	1,1-Dichloroethene	0.59	J	0.08	0.4	1.98	ug/m3
H3094-01	EFF	Air	Acetone	6.65	B	0.02	0.24	1.19	ug/m3
H3094-01	EFF	Air	Methylene Chloride	2.08	B	0.07	0.35	1.74	ug/m3
H3094-01	EFF	Air	2-Butanone	1.18	J	0.06	0.29	1.47	ug/m3
H3094-01	EFF	Air	cis-1,2-Dichloroethene	3.69		0.08	0.4	1.98	ug/m3
H3094-01	EFF	Air	Toluene	3.24		0.04	0.38	1.88	ug/m3
Total Voc :				25.26					
Total Concentration:				25.26					
Client ID:	INF								
H3094-02	INF	Air	Tetrahydrofuran	38.00		0.88	2.95	14.8	ug/m3
H3094-02	INF	Air	Acetone	15.20	B	0.29	2.38	11.9	ug/m3
H3094-02	INF	Air	cis-1,2-Dichloroethene	352.00		0.71	3.96	19.8	ug/m3
H3094-02	INF	Air	1,1,1-Trichloroethane	2.18		0.65	1.64	1.64	ug/m3
H3094-02	INF	Air	Trichloroethene	1,021.00	E	0.81	1.61	1.61	ug/m3
H3094-02	INF	Air	Tetrachloroethene	17,631.00	E	1.15	2.03	2.03	ug/m3
Total Voc :				19059.38					
Total Concentration:				19059.38					
Client ID:	INFDL								
H3094-02DL	INFDL	Air	Tetrahydrofuran	14.20	JD	3.54	11.8	59.0	ug/m3
H3094-02DL	INFDL	Air	cis-1,2-Dichloroethene	180.00	D	2.85	15.9	79.3	ug/m3
H3094-02DL	INFDL	Air	Trichloroethene	644.00	D	3.28	6.45	6.45	ug/m3
H3094-02DL	INFDL	Air	Tetrachloroethene	16,952.00	ED	4.54	8.14	8.14	ug/m3
Total Voc :				17790.2					
Total Concentration:				17790.2					
Client ID:	INFDL2								
H3094-02DL2	INFDL2	Air	cis-1,2-Dichloroethene	222.00	JD	28.6	158	792	ug/m3
H3094-02DL2	INFDL2	Air	Trichloroethene	698.00	D	32.8	64.5	64.5	ug/m3
H3094-02DL2	INFDL2	Air	Tetrachloroethene	21,699.00	D	45.4	81.4	81.4	ug/m3
Total Voc :				22619					
Total Concentration:				22619					

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 05/10/16

Field Id Number : EFF

Analysis Date : 05/18/16

Laboratory Id Number : H3094-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.21	J	1.04		
Chloromethane	74-87-3	50.49	0.24	J	0.5		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.1	U	0.39		
Chloroethane	75-00-3	64.52	0.1	U	0.26		
Tetrahydrofuran	109-99-9	72.11	1.2		3.54		
Trichlorofluoromethane	75-69-4	137.4	0.49	J	2.75		
Dichlorotetrafluoroethane	76-14-2	170.9	0.1	U	0.7		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.1	U	0.77		
Bromoethene	593-60-2	106.9	0.1	U	0.44		
tert-Butyl alcohol	75-65-0	74.12	0.1	U	0.3		
Heptane	142-82-5	100.2	0.1	U	0.41		
1,1-Dichloroethene	75-35-4	96.94	0.15	J	0.59		
Acetone	67-64-1	58.08	2.8		6.65		
Carbon Disulfide	75-15-0	76.14	0.1	U	0.31		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.1	U	0.36		
Methylene Chloride	75-09-2	84.94	0.6		2.08		
trans-1,2-Dichloroethene	156-60-5	96.94	0.1	U	0.4		
1,1-Dichloroethane	75-34-3	98.96	0.1	U	0.4		
Cyclohexane	110-82-7	84.16	0.1	U	0.34		
2-Butanone	78-93-3	72.11	0.4	J	1.18		
Carbon Tetrachloride	56-23-5	153.8	0.03	U	0.19		
cis-1,2-Dichloroethene	156-59-2	96.94	0.93		3.69		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.1	U	0.32		
1,2-Dichloroethane	107-06-2	98.96	0.1	U	0.4		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.1	U	0.46		
Bromodichloromethane	75-27-4	163.8	0.1	U	0.67		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	0.86		3.24		
t-1,3-Dichloropropene	10061-02-6	111	0.1	U	0.45		
cis-1,3-Dichloropropene	10061-01-5	111	0.1	U	0.45		
1,1,2-Trichloroethane	79-00-5	133.4	0.1	U	0.55		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 05/10/16

Field Id Number : EFF

Analysis Date : 05/18/16

Laboratory Id Number : H3094-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.1	U	0.85		
1,2-Dibromoethane	106-93-4	187.9	0.1	U	0.77		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.1	U	0.46		
Ethyl Benzene	100-41-4	106.2	0.1	U	0.43		
m/p-Xylene	179601-23-1	106.2	0.2	U	0.87		
o-Xylene	95-47-6	106.2	0.1	U	0.43		
Styrene	100-42-5	104.1	0.1	U	0.43		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.1	U	0.69		
2-Chlorotoluene	95-49-8	126.6	0.1	U	0.52		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.1	U	0.49		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.1	U	0.49		
1,3-Dichlorobenzene	541-73-1	147	0.1	U	0.6		
1,4-Dichlorobenzene	106-46-7	147	0.1	U	0.6		
1,2-Dichlorobenzene	95-50-1	147	0.1	U	0.6		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.1	U	0.74		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.1	U	1.07		
Naphthalene	91-20-3	128.17	0.1	U	0.52		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.1	U	0.49		
Hexane	110-54-3	86.17	0.1	U	0.35		
Allyl Chloride	107-05-1	76.53	0.1	U	0.31		
1,4-Dioxane	123-91-1	88.12	0.4	U	1.44		
Methyl Methacrylate	80-62-6	100.117	0.1	U	0.41		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 05/10/16

Field Id Number : INF

Analysis Date : 05/18/16

Laboratory Id Number : H3094-02

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1	U	4.94		
Chloromethane	74-87-3	50.49	1	U	2.07		
Vinyl Chloride	75-01-4	62.5	0.3	U	0.77		
Bromomethane	74-83-9	94.94	1	U	3.88		
Chloroethane	75-00-3	64.52	1	U	2.64		
Tetrahydrofuran	109-99-9	72.11	12.9		38.0		
Trichlorofluoromethane	75-69-4	137.4	1	U	5.62		
Dichlorotetrafluoroethane	76-14-2	170.9	1	U	6.99		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1	U	7.66		
Bromoethene	593-60-2	106.9	1	U	4.37		
tert-Butyl alcohol	75-65-0	74.12	1	U	3.03		
Heptane	142-82-5	100.2	1	U	4.1		
1,1-Dichloroethene	75-35-4	96.94	1	U	3.96		
Acetone	67-64-1	58.08	6.4		15.2		
Carbon Disulfide	75-15-0	76.14	1	U	3.11		
Methyl tert-Butyl Ether	1634-04-4	88.15	1	U	3.61		
Methylene Chloride	75-09-2	84.94	1	U	3.47		
trans-1,2-Dichloroethene	156-60-5	96.94	1	U	3.96		
1,1-Dichloroethane	75-34-3	98.96	1	U	4.05		
Cyclohexane	110-82-7	84.16	1	U	3.44		
2-Butanone	78-93-3	72.11	1	U	2.95		
Carbon Tetrachloride	56-23-5	153.8	0.3	U	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	88.9		352		
Chloroform	67-66-3	119.4	1	U	4.88		
1,1,1-Trichloroethane	71-55-6	133.4	0.4		2.18		
2,2,4-Trimethylpentane	540-84-1	114.2	1	U	4.67		
Benzene	71-43-2	78.11	1	U	3.19		
1,2-Dichloroethane	107-06-2	98.96	1	U	4.05		
Trichloroethene	79-01-6	131.4	190	E	1021		
1,2-Dichloropropane	78-87-5	113	1	U	4.62		
Bromodichloromethane	75-27-4	163.8	1	U	6.7		
4-Methyl-2-Pentanone	108-10-1	100.2	1	U	4.1		
Toluene	108-88-3	92.14	1	U	3.77		
t-1,3-Dichloropropene	10061-02-6	111	1	U	4.54		
cis-1,3-Dichloropropene	10061-01-5	111	1	U	4.54		
1,1,2-Trichloroethane	79-00-5	133.4	1	U	5.46		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 05/10/16

Field Id Number : INF

Analysis Date : 05/18/16

Laboratory Id Number : H3094-02

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	1	U	8.52		
1,2-Dibromoethane	106-93-4	187.9	1	U	7.69		
Tetrachloroethene	127-18-4	165.8	2600	E	17631		
Chlorobenzene	108-90-7	112.6	1	U	4.61		
Ethyl Benzene	100-41-4	106.2	1	U	4.34		
m/p-Xylene	179601-23-1	106.2	2	U	8.69		
o-Xylene	95-47-6	106.2	1	U	4.34		
Styrene	100-42-5	104.1	1	U	4.26		
Bromoform	75-25-2	252.8	1	U	10.3		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	1	U	6.87		
2-Chlorotoluene	95-49-8	126.6	1	U	5.18		
1,3,5-Trimethylbenzene	108-67-8	120.2	1	U	4.92		
1,2,4-Trimethylbenzene	95-63-6	120.2	1	U	4.92		
1,3-Dichlorobenzene	541-73-1	147	1	U	6.01		
1,4-Dichlorobenzene	106-46-7	147	1	U	6.01		
1,2-Dichlorobenzene	95-50-1	147	1	U	6.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	1	U	7.42		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1	U	10.7		
1,3-Butadiene	106-99-0	54.09	1	U	2.21		
Naphthalene	91-20-3	128.17	1	U	5.24		
4-Ethyltoluene	622-96-8	120.2	1	U	4.92		
Hexane	110-54-3	86.17	1	U	3.52		
Allyl Chloride	107-05-1	76.53	1	U	3.13		
1,4-Dioxane	123-91-1	88.12	4	U	14.4		
Methyl Methacrylate	80-62-6	100.117	1	U	4.09		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 05/10/16

Field Id Number : INFDL

Analysis Date : 05/18/16

Laboratory Id Number : H3094-02DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	4	UD	19.8		
Chloromethane	74-87-3	50.49	4	UD	8.26		
Vinyl Chloride	75-01-4	62.5	1.2	UD	3.07		
Bromomethane	74-83-9	94.94	4	UD	15.5		
Chloroethane	75-00-3	64.52	4	UD	10.6		
Tetrahydrofuran	109-99-9	72.11	4.8	JD	14.2		
Trichlorofluoromethane	75-69-4	137.4	4	UD	22.5		
Dichlorotetrafluoroethane	76-14-2	170.9	4	UD	28.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	4	UD	30.7		
Bromoethene	593-60-2	106.9	4	UD	17.5		
tert-Butyl alcohol	75-65-0	74.12	4	UD	12.1		
Heptane	142-82-5	100.2	4	UD	16.4		
1,1-Dichloroethene	75-35-4	96.94	4	UD	15.9		
Acetone	67-64-1	58.08	4	UD	9.5		
Carbon Disulfide	75-15-0	76.14	4	UD	12.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	4	UD	14.4		
Methylene Chloride	75-09-2	84.94	4	UD	13.9		
trans-1,2-Dichloroethene	156-60-5	96.94	4	UD	15.9		
1,1-Dichloroethane	75-34-3	98.96	4	UD	16.2		
Cyclohexane	110-82-7	84.16	4	UD	13.8		
2-Butanone	78-93-3	72.11	4	UD	11.8		
Carbon Tetrachloride	56-23-5	153.8	1.2	UD	7.55		
cis-1,2-Dichloroethene	156-59-2	96.94	45.6	D	180		
Chloroform	67-66-3	119.4	4	UD	19.5		
1,1,1-Trichloroethane	71-55-6	133.4	1.2	UD	6.55		
2,2,4-Trimethylpentane	540-84-1	114.2	4	UD	18.7		
Benzene	71-43-2	78.11	4	UD	12.8		
1,2-Dichloroethane	107-06-2	98.96	4	UD	16.2		
Trichloroethene	79-01-6	131.4	120	D	644		
1,2-Dichloropropane	78-87-5	113	4	UD	18.5		
Bromodichloromethane	75-27-4	163.8	4	UD	26.8		
4-Methyl-2-Pentanone	108-10-1	100.2	4	UD	16.4		
Toluene	108-88-3	92.14	4	UD	15.1		
t-1,3-Dichloropropene	10061-02-6	111	4	UD	18.2		
cis-1,3-Dichloropropene	10061-01-5	111	4	UD	18.2		
1,1,2-Trichloroethane	79-00-5	133.4	4	UD	21.8		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 05/10/16

Field Id Number : INF DL

Analysis Date : 05/18/16

Laboratory Id Number : H3094-02DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	4	UD	34.1		
1,2-Dibromoethane	106-93-4	187.9	4	UD	30.7		
Tetrachloroethene	127-18-4	165.8	2500	ED	16952		
Chlorobenzene	108-90-7	112.6	4	UD	18.4		
Ethyl Benzene	100-41-4	106.2	4	UD	17.4		
m/p-Xylene	179601-23-1	106.2	8	UD	34.8		
o-Xylene	95-47-6	106.2	4	UD	17.4		
Styrene	100-42-5	104.1	4	UD	17.0		
Bromoform	75-25-2	252.8	4	UD	41.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	4	UD	27.5		
2-Chlorotoluene	95-49-8	126.6	4	UD	20.7		
1,3,5-Trimethylbenzene	108-67-8	120.2	4	UD	19.7		
1,2,4-Trimethylbenzene	95-63-6	120.2	4	UD	19.7		
1,3-Dichlorobenzene	541-73-1	147	4	UD	24.0		
1,4-Dichlorobenzene	106-46-7	147	4	UD	24.0		
1,2-Dichlorobenzene	95-50-1	147	4	UD	24.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	4	UD	29.7		
Hexachloro-1,3-Butadiene	87-68-3	260.8	4	UD	42.7		
Naphthalene	91-20-3	128.17	4	UD	21.0		
1,3-Butadiene	106-99-0	54.09	4	UD	8.85		
4-Ethyltoluene	622-96-8	120.2	4	UD	19.7		
Hexane	110-54-3	86.17	4	UD	14.1		
Allyl Chloride	107-05-1	76.53	4	UD	12.5		
1,4-Dioxane	123-91-1	88.12	16	UD	57.7		
Methyl Methacrylate	80-62-6	100.117	4	UD	16.4		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 05/10/16

Field Id Number : INFDL2

Analysis Date : 05/18/16

Laboratory Id Number : H3094-02DL2

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	40	UD	197		
Chloromethane	74-87-3	50.49	40	UD	82.6		
Vinyl Chloride	75-01-4	62.5	12	UD	30.7		
Bromomethane	74-83-9	94.94	40	UD	155		
Chloroethane	75-00-3	64.52	40	UD	105		
Tetrahydrofuran	109-99-9	72.11	40	UD	117		
Trichlorofluoromethane	75-69-4	137.4	40	UD	224		
Dichlorotetrafluoroethane	76-14-2	170.9	40	UD	279		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	40	UD	306		
Bromoethene	593-60-2	106.9	40	UD	174		
tert-Butyl alcohol	75-65-0	74.12	40	UD	121		
Heptane	142-82-5	100.2	40	UD	163		
1,1-Dichloroethene	75-35-4	96.94	40	UD	158		
Acetone	67-64-1	58.08	40	UD	95.0		
Carbon Disulfide	75-15-0	76.14	40	UD	124		
Methyl tert-Butyl Ether	1634-04-4	88.15	40	UD	144		
Methylene Chloride	75-09-2	84.94	40	UD	138		
trans-1,2-Dichloroethene	156-60-5	96.94	40	UD	158		
1,1-Dichloroethane	75-34-3	98.96	40	UD	161		
Cyclohexane	110-82-7	84.16	40	UD	137		
2-Butanone	78-93-3	72.11	40	UD	117		
Carbon Tetrachloride	56-23-5	153.8	12	UD	75.5		
cis-1,2-Dichloroethene	156-59-2	96.94	56	JD	222		
Chloroform	67-66-3	119.4	40	UD	195		
1,1,1-Trichloroethane	71-55-6	133.4	12	UD	65.5		
2,2,4-Trimethylpentane	540-84-1	114.2	40	UD	186		
Benzene	71-43-2	78.11	40	UD	127		
1,2-Dichloroethane	107-06-2	98.96	40	UD	161		
Trichloroethene	79-01-6	131.4	130	D	698		
1,2-Dichloropropane	78-87-5	113	40	UD	184		
Bromodichloromethane	75-27-4	163.8	40	UD	267		
4-Methyl-2-Pentanone	108-10-1	100.2	40	UD	163		
Toluene	108-88-3	92.14	40	UD	150		
t-1,3-Dichloropropene	10061-02-6	111	40	UD	181		
cis-1,3-Dichloropropene	10061-01-5	111	40	UD	181		
1,1,2-Trichloroethane	79-00-5	133.4	40	UD	218		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 05/10/16

Field Id Number : INFDL2

Analysis Date : 05/18/16

Laboratory Id Number : H3094-02DL2

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	40	UD	340		
1,2-Dibromoethane	106-93-4	187.9	40	UD	307		
Tetrachloroethene	127-18-4	165.8	3200	D	21699		
Chlorobenzene	108-90-7	112.6	40	UD	184		
Ethyl Benzene	100-41-4	106.2	40	UD	173		
m/p-Xylene	179601-23-1	106.2	80	UD	347		
o-Xylene	95-47-6	106.2	40	UD	173		
Styrene	100-42-5	104.1	40	UD	170		
Bromoform	75-25-2	252.8	40	UD	413		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	40	UD	274		
2-Chlorotoluene	95-49-8	126.6	40	UD	207		
1,3,5-Trimethylbenzene	108-67-8	120.2	40	UD	196		
1,2,4-Trimethylbenzene	95-63-6	120.2	40	UD	196		
1,3-Dichlorobenzene	541-73-1	147	40	UD	240		
1,4-Dichlorobenzene	106-46-7	147	40	UD	240		
1,2-Dichlorobenzene	95-50-1	147	40	UD	240		
1,2,4-Trichlorobenzene	120-82-1	181.5	40	UD	296		
Hexachloro-1,3-Butadiene	87-68-3	260.8	40	UD	426		
Naphthalene	91-20-3	128.17	40	UD	209		
1,3-Butadiene	106-99-0	54.09	40	UD	88.5		
4-Ethyltoluene	622-96-8	120.2	40	UD	196		
Hexane	110-54-3	86.17	40	UD	140		
Allyl Chloride	107-05-1	76.53	40	UD	125		
1,4-Dioxane	123-91-1	88.12	160	UD	576		
Methyl Methacrylate	80-62-6	100.117	40	UD	163		

Project : Frost Street Sites / SPGL 100.03**Field Id Number :** INFDL2**Laboratory Id Number :** H3094-02DL2**Sampling Date :** 05/10/16**Analysis Date :** 05/18/16**Target Analyts :** Air Results

A

B

C

D

E

F

G

H

SAMPLE DATA

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	05/10/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	05/13/16
Client Sample ID:	EFF	SDG No.:	H3094
Lab Sample ID:	H3094-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027786.D	1		05/18/16 16:53	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.21	1.04	J	0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.24	0.5	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.1	0.39	U	0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.1	0.26	U	0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	1.2	3.54		0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.49	2.75	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.1	0.77	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.1	0.44	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.1	0.3	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.1	0.41	U	0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	J	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	2.8	6.65	B	0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.1	0.31	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.6	2.08	B	0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	U	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.4	1.18	J	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.93	3.69		0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.1	0.49	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.09	0.47	2.34	ug/m3
71-43-2	Benzene	0.1	0.32	U	0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.1	0.67	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.86	3.24		0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.1	0.85	U	0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	05/10/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	05/13/16
Client Sample ID:	EFF	SDG No.:	H3094
Lab Sample ID:	H3094-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027786.D	1		05/18/16 16:53	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.1	0.46	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.1	0.43	U	0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.2	0.87	U	0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.1	0.43	U	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.1	0.43	U	0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	0.1	1.03	U	0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.1	0.69	U	0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.1	0.74	U	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	U	0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.1	0.22	U	0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.1	0.52	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.1	0.35	U	0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.1	0.31	U	0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.4	1.44	U	0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.8			65 - 135		98%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	952902		6.63				
540-36-3	1,4-Difluorobenzene	2127100		8.31				
3114-55-4	Chlorobenzene-d5	2378480		13.72				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	05/10/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	05/13/16
Client Sample ID:	INF	SDG No.:	H3094
Lab Sample ID:	H3094-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027783.D	10		05/18/16 14:54	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1	4.94	U	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	1	2.07	U	0.35	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	U	0.38	0.77	0.77	ug/m3
74-83-9	Bromomethane	1	3.88	U	0.7	3.88	19.4	ug/m3
75-00-3	Chloroethane	1	2.64	U	0.82	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	12.9	38.0		0.88	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1	5.62	U	1.35	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1	7.66	U	1.15	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	1	6.99	U	1.19	6.99	35.0	ug/m3
593-60-2	Bromoethene	1	4.37	U	1.14	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	1	3.03	U	1.3	3.03	15.2	ug/m3
142-82-5	Heptane	1	4.1	U	0.98	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1	3.96	U	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	6.4	15.2	B	0.29	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	1	3.11	U	0.75	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1	3.61	U	0.54	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	1	3.47	U	0.59	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1	3.96	U	0.67	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1	4.05	U	0.49	4.05	20.2	ug/m3
110-82-7	Cyclohexane	1	3.44	U	0.83	3.44	17.2	ug/m3
78-93-3	2-Butanone	1	2.95	U	0.65	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	U	0.94	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	88.9	352		0.71	3.96	19.8	ug/m3
67-66-3	Chloroform	1	4.88	U	0.73	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.4	2.18		0.65	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1	4.67	U	1.03	4.67	23.4	ug/m3
71-43-2	Benzene	1	3.19	U	0.54	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	1	4.05	U	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	190	1021	E	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1	4.62	U	3.93	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	1	6.7	U	1.14	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	1	4.1	U	0.9	4.1	20.5	ug/m3
108-88-3	Toluene	1	3.77	U	0.45	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	1	4.54	U	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1	4.54	U	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	1	5.46	U	1.2	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	1	8.52	U	1.02	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	1	7.69	U	1.15	7.69	38.4	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	05/10/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	05/13/16
Client Sample ID:	INF	SDG No.:	H3094
Lab Sample ID:	H3094-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027783.D	10		05/18/16 14:54	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	2600	17631	E	1.15	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	1	4.61	U	0.69	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	1	4.34	U	0.74	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	2	8.69	U	1.35	8.69	43.4	ug/m3
95-47-6	o-Xylene	1	4.34	U	0.74	4.34	21.7	ug/m3
100-42-5	Styrene	1	4.26	U	0.51	4.26	21.3	ug/m3
75-25-2	Bromoform	1	10.3	U	1.24	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1	6.87	U	1.17	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	1	5.18	U	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1	4.92	U	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1	4.92	U	1.23	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	1	6.01	U	1.02	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1	6.01	U	1.8	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1	6.01	U	1.5	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1	7.42	U	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1	10.7	U	3.31	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	1	2.21	U	0.49	2.21	11.1	ug/m3
91-20-3	Naphthalene	1	5.24	U	2.25	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	1	4.92	U	0.74	4.92	24.6	ug/m3
110-54-3	Hexane	1	3.52	U	0.53	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	1	3.13	U	1.1	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	4	14.4	U	3.53	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	1	4.09	U	0.7	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.7			65 - 135		97%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	926976		6.63				
540-36-3	1,4-Difluorobenzene	1950770		8.31				
3114-55-4	Chlorobenzene-d5	2105030		13.73				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	05/10/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	05/13/16
Client Sample ID:	INFDL	SDG No.:	H3094
Lab Sample ID:	H3094-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027790.D	40		05/18/16 19:33	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	4	19.8	UD	7.91	19.8	98.9	ug/m3
74-87-3	Chloromethane	4	8.26	UD	1.38	8.26	41.3	ug/m3
75-01-4	Vinyl Chloride	1.2	3.07	UD	1.56	3.07	3.07	ug/m3
74-83-9	Bromomethane	4	15.5	UD	2.8	15.5	77.7	ug/m3
75-00-3	Chloroethane	4	10.6	UD	3.17	10.6	52.8	ug/m3
109-99-9	Tetrahydrofuran	4.8	14.2	JD	3.54	11.8	59.0	ug/m3
75-69-4	Trichlorofluoromethane	4	22.5	UD	5.34	22.5	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	4	30.7	UD	4.68	30.7	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	4	28.0	UD	4.68	28.0	139	ug/m3
593-60-2	Bromoethene	4	17.5	UD	4.37	17.5	87.4	ug/m3
75-65-0	tert-Butyl alcohol	4	12.1	UD	5.15	12.1	60.6	ug/m3
142-82-5	Heptane	4	16.4	UD	3.89	16.4	82.0	ug/m3
75-35-4	1,1-Dichloroethene	4	15.9	UD	2.66	15.9	79.3	ug/m3
67-64-1	Acetone	4	9.5	UD	1.14	9.5	47.5	ug/m3
75-15-0	Carbon Disulfide	4	12.5	UD	2.96	12.5	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4	14.4	UD	2.2	14.4	72.1	ug/m3
75-09-2	Methylene Chloride	4	13.9	UD	2.33	13.9	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	4	15.9	UD	2.66	15.9	79.3	ug/m3
75-34-3	1,1-Dichloroethane	4	16.2	UD	1.94	16.2	81.0	ug/m3
110-82-7	Cyclohexane	4	13.8	UD	3.27	13.8	68.8	ug/m3
78-93-3	2-Butanone	4	11.8	UD	2.57	11.8	59.0	ug/m3
56-23-5	Carbon Tetrachloride	1.2	7.55	UD	3.84	7.55	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	45.6	180	D	2.85	15.9	79.3	ug/m3
67-66-3	Chloroform	4	19.5	UD	2.98	19.5	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	1.2	6.55	UD	2.62	6.55	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	4	18.7	UD	4.06	18.7	93.4	ug/m3
71-43-2	Benzene	4	12.8	UD	2.14	12.8	63.9	ug/m3
107-06-2	1,2-Dichloroethane	4	16.2	UD	2.47	16.2	81.0	ug/m3
79-01-6	Trichloroethene	120	644	D	3.28	6.45	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4	18.5	UD	15.7	18.5	92.4	ug/m3
75-27-4	Bromodichloromethane	4	26.8	UD	4.49	26.8	133	ug/m3
108-10-1	4-Methyl-2-Pentanone	4	16.4	UD	3.57	16.4	82.0	ug/m3
108-88-3	Toluene	4	15.1	UD	1.81	15.1	75.4	ug/m3
10061-02-6	t-1,3-Dichloropropene	4	18.2	UD	4.31	18.2	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	4	18.2	UD	2.77	18.2	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	4	21.8	UD	4.75	21.8	109	ug/m3
124-48-1	Dibromochloromethane	4	34.1	UD	4.09	34.1	170	ug/m3
106-93-4	1,2-Dibromoethane	4	30.7	UD	4.69	30.7	153	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	05/10/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	05/13/16
Client Sample ID:	INFDL	SDG No.:	H3094
Lab Sample ID:	H3094-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027790.D	40		05/18/16 19:33	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	2500	16952	ED	4.54	8.14	8.14	ug/m3
108-90-7	Chlorobenzene	4	18.4	UD	2.81	18.4	92.1	ug/m3
100-41-4	Ethyl Benzene	4	17.4	UD	2.91	17.4	86.9	ug/m3
179601-23-1	m/p-Xylene	8	34.8	UD	5.21	34.8	173	ug/m3
95-47-6	o-Xylene	4	17.4	UD	2.91	17.4	86.9	ug/m3
100-42-5	Styrene	4	17.0	UD	2.04	17.0	85.2	ug/m3
75-25-2	Bromoform	4	41.4	UD	4.96	41.4	206	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	4	27.5	UD	4.6	27.5	137	ug/m3
95-49-8	2-Chlorotoluene	4	20.7	UD	3.16	20.7	103	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4	19.7	UD	4.87	19.7	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	4	19.7	UD	4.87	19.7	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	4	24.0	UD	4.03	24.0	120	ug/m3
106-46-7	1,4-Dichlorobenzene	4	24.0	UD	7.21	24.0	120	ug/m3
95-50-1	1,2-Dichlorobenzene	4	24.0	UD	5.95	24.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4	29.7	UD	11.9	29.7	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	4	42.7	UD	12.8	42.7	213	ug/m3
106-99-0	1,3-Butadiene	4	8.85	UD	1.92	8.85	44.2	ug/m3
91-20-3	Naphthalene	4	21.0	UD	8.91	21.0	104	ug/m3
622-96-8	4-Ethyltoluene	4	19.7	UD	3	19.7	98.3	ug/m3
110-54-3	Hexane	4	14.1	UD	2.15	14.1	70.5	ug/m3
107-05-1	Allyl Chloride	4	12.5	UD	4.38	12.5	62.6	ug/m3
123-91-1	1,4-Dioxane	16	57.7	UD	14.1	57.7	72.1	ug/m3
80-62-6	Methyl Methacrylate	4	16.4	UD	2.74	16.4	81.9	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.7			65 - 135		97%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	845862		6.63				
540-36-3	1,4-Difluorobenzene	1781410		8.31				
3114-55-4	Chlorobenzene-d5	1913490		13.72				

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Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	05/10/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	05/13/16
Client Sample ID:	INFDL2	SDG No.:	H3094
Lab Sample ID:	H3094-02DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027791.D	400		05/18/16 20:12	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	40	197	UD	79.1	197	988	ug/m3
74-87-3	Chloromethane	40	82.6	UD	13.8	82.6	413	ug/m3
75-01-4	Vinyl Chloride	12	30.7	UD	15.6	30.7	30.7	ug/m3
74-83-9	Bromomethane	40	155	UD	28.0	155	776	ug/m3
75-00-3	Chloroethane	40	105	UD	32.5	105	527	ug/m3
109-99-9	Tetrahydrofuran	40	117	UD	35.4	117	589	ug/m3
75-69-4	Trichlorofluoromethane	40	224	UD	53.4	224	1123	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	40	306	UD	46.8	306	1532	ug/m3
76-14-2	Dichlorotetrafluoroethane	40	279	UD	46.8	279	1397	ug/m3
593-60-2	Bromoethene	40	174	UD	45.0	174	874	ug/m3
75-65-0	tert-Butyl alcohol	40	121	UD	52.8	121	606	ug/m3
142-82-5	Heptane	40	163	UD	38.9	163	819	ug/m3
75-35-4	1,1-Dichloroethene	40	158	UD	26.6	158	792	ug/m3
67-64-1	Acetone	40	95.0	UD	11.4	95.0	475	ug/m3
75-15-0	Carbon Disulfide	40	124	UD	29.6	124	622	ug/m3
1634-04-4	Methyl tert-Butyl Ether	40	144	UD	22.0	144	721	ug/m3
75-09-2	Methylene Chloride	40	138	UD	23.3	138	694	ug/m3
156-60-5	trans-1,2-Dichloroethene	40	158	UD	26.6	158	792	ug/m3
75-34-3	1,1-Dichloroethane	40	161	UD	19.4	161	809	ug/m3
110-82-7	Cyclohexane	40	137	UD	32.7	137	688	ug/m3
78-93-3	2-Butanone	40	117	UD	25.7	117	589	ug/m3
56-23-5	Carbon Tetrachloride	12	75.5	UD	38.4	75.5	75.5	ug/m3
156-59-2	cis-1,2-Dichloroethene	56	222	JD	28.6	158	792	ug/m3
67-66-3	Chloroform	40	195	UD	29.8	195	976	ug/m3
71-55-6	1,1,1-Trichloroethane	12	65.5	UD	26.2	65.5	65.5	ug/m3
540-84-1	2,2,4-Trimethylpentane	40	186	UD	40.6	186	934	ug/m3
71-43-2	Benzene	40	127	UD	21.4	127	638	ug/m3
107-06-2	1,2-Dichloroethane	40	161	UD	24.7	161	809	ug/m3
79-01-6	Trichloroethene	130	698	D	32.8	64.5	64.5	ug/m3
78-87-5	1,2-Dichloropropane	40	184	UD	157	184	924	ug/m3
75-27-4	Bromodichloromethane	40	267	UD	44.9	267	1339	ug/m3
108-10-1	4-Methyl-2-Pentanone	40	163	UD	35.6	163	819	ug/m3
108-88-3	Toluene	40	150	UD	18.1	150	753	ug/m3
10061-02-6	t-1,3-Dichloropropene	40	181	UD	43.1	181	907	ug/m3
10061-01-5	cis-1,3-Dichloropropene	40	181	UD	27.7	181	907	ug/m3
79-00-5	1,1,2-Trichloroethane	40	218	UD	47.5	218	1091	ug/m3
124-48-1	Dibromochloromethane	40	340	UD	40.9	340	1703	ug/m3
106-93-4	1,2-Dibromoethane	40	307	UD	46.9	307	1537	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	05/10/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	05/13/16
Client Sample ID:	INFDL2	SDG No.:	H3094
Lab Sample ID:	H3094-02DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027791.D	400		05/18/16 20:12	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	3200	21699	D	45.4	81.4	81.4	ug/m3
108-90-7	Chlorobenzene	40	184	UD	28.1	184	921	ug/m3
100-41-4	Ethyl Benzene	40	173	UD	29.1	173	868	ug/m3
179601-23-1	m/p-Xylene	80	347	UD	53.4	347	1737	ug/m3
95-47-6	o-Xylene	40	173	UD	29.1	173	868	ug/m3
100-42-5	Styrene	40	170	UD	20.4	170	851	ug/m3
75-25-2	Bromoform	40	413	UD	49.6	413	2067	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	40	274	UD	46.0	274	1373	ug/m3
95-49-8	2-Chlorotoluene	40	207	UD	31.6	207	1035	ug/m3
108-67-8	1,3,5-Trimethylbenzene	40	196	UD	48.7	196	983	ug/m3
95-63-6	1,2,4-Trimethylbenzene	40	196	UD	48.7	196	983	ug/m3
541-73-1	1,3-Dichlorobenzene	40	240	UD	40.3	240	1202	ug/m3
106-46-7	1,4-Dichlorobenzene	40	240	UD	72.2	240	1202	ug/m3
95-50-1	1,2-Dichlorobenzene	40	240	UD	59.5	240	1202	ug/m3
120-82-1	1,2,4-Trichlorobenzene	40	296	UD	118	296	1484	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	40	426	UD	131	426	2133	ug/m3
106-99-0	1,3-Butadiene	40	88.5	UD	19.2	88.5	442	ug/m3
91-20-3	Naphthalene	40	209	UD	91.2	209	1048	ug/m3
622-96-8	4-Ethyltoluene	40	196	UD	30.0	196	983	ug/m3
110-54-3	Hexane	40	140	UD	21.5	140	704	ug/m3
107-05-1	Allyl Chloride	40	125	UD	43.8	125	626	ug/m3
123-91-1	1,4-Dioxane	160	576	UD	140	576	720	ug/m3
80-62-6	Methyl Methacrylate	40	163	UD	27.4	163	818	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.5			65 - 135		95%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	794031		6.63				
540-36-3	1,4-Difluorobenzene	1688700		8.31				
3114-55-4	Chlorobenzene-d5	1864180		13.72				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

QC SUMMARY

Surrogate Summary

SDG No.: H3094Client: Envirotrac Environmental ServicesAnalytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
H3094-01	EFF	1-Bromo-4-Fluorobenzene	10	9.77	98	65	135
H3094-02	INF	1-Bromo-4-Fluorobenzene	10	9.68	97	65	135
H3094-02DL	INFDL	1-Bromo-4-Fluorobenzene	10	9.71	97	65	135
H3094-02DL2	INFDL2	1-Bromo-4-Fluorobenzene	10	9.47	95	65	135
H3139-02DUP	SV1DUP	1-Bromo-4-Fluorobenzene	10	10.37	104	65	135
VL0518ABL01	VL0518ABL01	1-Bromo-4-Fluorobenzene	10	9.83	98	65	135
VL0518ABS01	VL0518ABS01	1-Bromo-4-Fluorobenzene	10	9.6	96	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: H3094

Client: Envirotrac Environmental Services

Analytical Method: SWTO-15

Datafile : VL027780.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0518ABS01	Dichlorodifluoromethane	10	10.2	ppbv	102			70	130	
	Chloromethane	10	9.3	ppbv	93			70	130	
	Vinyl Chloride	10	8.8	ppbv	88			70	130	
	Bromomethane	10	10	ppbv	100			70	130	
	Chloroethane	10	9.8	ppbv	98			70	130	
	Tetrahydrofuran	10	11.4	ppbv	114			70	130	
	Trichlorofluoromethane	10	10.1	ppbv	101			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.8	ppbv	98			70	130	
	Dichlorotetrafluoroethane	10	9.6	ppbv	96			70	130	
	Bromoethene	10	10.3	ppbv	103			70	130	
	tert-Butyl Alcohol	10	10.3	ppbv	103			70	130	
	Heptane	10	10.5	ppbv	105			70	130	
	1,1-Dichloroethene	10	10.5	ppbv	105			70	130	
	Acetone	10	7.3	ppbv	73			70	130	
	Carbon disulfide	10	10.4	ppbv	104			70	130	
	Methyl tert-butyl Ether	10	11.3	ppbv	113			70	130	
	Methylene Chloride	10	9.1	ppbv	91			70	130	
	trans-1,2-Dichloroethene	10	10.1	ppbv	101			70	130	
	1,1-Dichloroethane	10	9.7	ppbv	97			70	130	
	Cyclohexane	10	10.7	ppbv	107			70	130	
	2-Butanone	10	10.4	ppbv	104			70	130	
	Carbon Tetrachloride	10	9.5	ppbv	95			70	130	
	cis-1,2-Dichloroethene	10	11	ppbv	110			70	130	
	Chloroform	10	10	ppbv	100			70	130	
	1,1,1-Trichloroethane	10	9.2	ppbv	92			70	130	
	2,2,4-Trimethylpentane	10	10.6	ppbv	106			70	130	
	Benzene	10	10.8	ppbv	108			70	130	
	1,2-Dichloroethane	10	10.3	ppbv	103			70	130	
	Trichloroethene	10	9.9	ppbv	99			70	130	
	1,2-Dichloropropane	10	10.4	ppbv	104			70	130	
	Bromodichloromethane	10	10.7	ppbv	107			70	130	
	4-Methyl-2-Pentanone	10	10.9	ppbv	109			70	130	
	Toluene	10	11.5	ppbv	115			70	130	
	t-1,3-Dichloropropene	10	12.1	ppbv	121			70	130	
	cis-1,3-Dichloropropene	10	11.9	ppbv	119			70	130	
	1,1,2-Trichloroethane	10	10	ppbv	100			70	130	
	Dibromochloromethane	10	11.2	ppbv	112			70	130	
	1,2-Dibromoethane	10	11	ppbv	110			70	130	
	Tetrachloroethene	10	10.9	ppbv	109			70	130	
	Chlorobenzene	10	9.4	ppbv	94			70	130	
	Ethyl Benzene	10	10.9	ppbv	109			70	130	
	m/p-Xylene	20	20.5	ppbv	103			70	130	
	o-Xylene	10	10.4	ppbv	104			70	130	
	Styrene	10	12.7	ppbv	127			70	130	
	Bromoform	10	11.5	ppbv	115			70	130	
	1,1,2,2-Tetrachloroethane	10	8.3	ppbv	83			70	130	
	2-Chlorotoluene	10	10.9	ppbv	109			70	130	
	1,3,5-Trimethylbenzene	10	10.8	ppbv	108			70	130	
	1,2,4-Trimethylbenzene	10	10.4	ppbv	104			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: H3094
Client: Envirotrac Environmental Services
Analytical Method: SWTO-15

Datafile : VL027780.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0518ABS01	1,3-Dichlorobenzene	10	10	ppbv	100			70	130	
	1,4-Dichlorobenzene	10	10.3	ppbv	103			70	130	
	1,2-Dichlorobenzene	10	10.2	ppbv	102			70	130	
	1,2,4-Trichlorobenzene	10	11.5	ppbv	115			70	130	
	Hexachloro-1,3-butadiene	10	10.8	ppbv	108			70	130	
	Naphthalene	10	11.4	ppbv	114			70	130	
	1,3-Butadiene	10	9.7	ppbv	97			70	130	
	4-Ethyltoluene	10	11.1	ppbv	111			70	130	
	Hexane	10	10.4	ppbv	104			70	130	
	Allyl Chloride	10	10.1	ppbv	101			70	130	
	1,4-Dioxane	10	11	ppbv	110			70	130	
	Methyl methacrylate	10	11.6	ppbv	116			70	130	

Duplicate Sample Summary

Lab Sample Id :	H3139-02DUP	H3139-02
Client Id :	SV1DUP	SV1
DF :	1	1
Datafile :	VL027795.D	VL027794.D
Anal Date & Time :	05/18/2016 23:34	05/18/2016 22:53

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	1.3	1.3	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0.42	0.43	2.4
1,3,5-Trimethylbenzene	0.4	0.4	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	1.4	1.3	7.4
2-Butanone	22.2	21.5	3.2
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0.49	0.46	6.3
4-Methyl-2-Pentanone	0	0	0
Acetone	0	0	0
Allyl Chloride	0	0	0
Benzene	0.67	0.67	0
Bromodichloromethane	0	0	0
Bromoethene	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	1.2	1.2	0

Duplicate Sample Summary

Lab Sample Id :	H3139-02DUP	H3139-02
Client Id :	SV1DUP	SV1
DF :	1	1
Datafile :	VL027795.D	VL027794.D
Anal Date & Time :	05/18/2016 23:34	05/18/2016 22:53

Parameter	Result	Result	RPD
Carbon Tetrachloride	0.06	0.05	18.2
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	2.1	2.1	0
Chloromethane	0.44	0.45	2.2
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0.57	0.59	3.4
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.3	0.32	6.5
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0.97	0.98	1
Heptane	1.4	1.4	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0	0	0
m/p-Xylene	3.2	3.2	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	2.6	2.6	0
Naphthalene	0.16	0.16	0
o-Xylene	1.2	1.3	8
Styrene	0.13	0.12	8
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	3.2	3.2	0
Tetrachloroethene	47	48.1	2.3
Tetrahydrofuran	0	0	0
Toluene	2.9	2.9	0
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0.25	0.24	4.1
Trichlorofluoromethane	0.23	0.22	4.4
Vinyl Chloride	0.03	0.04	28.6 *

Duplicate Sample Summary

Lab Sample Id :

H3139-02DUP

H3139-02

Client Id :

SV1DUP

SV1

DF :

1

1

Datafile :

VL027795.D

VL027794.D

Anal Date & Time :

05/18/2016

23:34

05/18/2016

22:53

Parameter	Result	Result	RPD

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0518ABL01

Lab Name: CHEMTECH

Contract: ENVI27

Lab Code: CHEM Case No.: H3094

SAS No.: H3094 SDG NO.: H3094

Lab File ID: VL027779.D

Lab Sample ID: VL0518ABL01

Date Analyzed: 05/18/2016

Time Analyzed: 12:14

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0518ABS01	VL0518ABS01	VL027780.D	05/18/2016
INF	H3094-02	VL027783.D	05/18/2016
EFF	H3094-01	VL027786.D	05/18/2016
INFDL	H3094-02DL	VL027790.D	05/18/2016
INFDL2	H3094-02DL2	VL027791.D	05/18/2016
SV1DUP	H3139-02DUP	VL027795.D	05/18/2016

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ENVI27

Lab Code: CHEM Case No.: H3094 SAS No.: H3094 SDG NO.: H3094

Lab File ID: VL027748.D BFB Injection Date: 05/12/2016

Instrument ID: MSVOA_L BFB Injection Time: 12:08

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.8
75	30.0 - 66.0% of mass 95	61.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.5 (0.9) 1
174	50.0 - 120.0% of mass 95	60.5
175	4.0 - 9.0% of mass 174	4.3 (7.1) 1
176	93.0 - 101.0% of mass 174	58.1 (96.1) 1
177	5.0 - 9.0% of mass 176	3.7 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL027749.D	05/12/2016	12:47
VSTDICCC002	VSTDICCC002	VL027750.D	05/12/2016	13:28
VSTDICCC001	VSTDICCC001	VL027751.D	05/12/2016	14:56
VSTDICCC0.1	VSTDICCC0.1	VL027753.D	05/12/2016	16:14
VSTDICCC015	VSTDICCC015	VL027755.D	05/12/2016	17:34
VSTDICCC0.03	VSTDICCC0.03	VL027757.D	05/12/2016	19:32
VSTDICCC0.5	VSTDICCC0.5	VL027758.D	05/12/2016	21:25

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ENVI27
Lab Code: CHEM Case No.: H3094 SAS No.: H3094 SDG NO.: H3094
Lab File ID: VL027777.D BFB Injection Date: 05/18/2016
Instrument ID: MSVOA_L BFB Injection Time: 09:51
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.4
75	30.0 - 66.0% of mass 95	60.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 120.0% of mass 95	61.7
175	4.0 - 9.0% of mass 174	4.4 (7.1) 1
176	93.0 - 101.0% of mass 174	59.6 (96.5) 1
177	5.0 - 9.0% of mass 176	3.8 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL027778.D	05/18/2016	10:30
VL0518ABL01	VL0518ABL01	VL027779.D	05/18/2016	12:14
VL0518ABS01	VL0518ABS01	VL027780.D	05/18/2016	12:53
INF	H3094-02	VL027783.D	05/18/2016	14:54
EFF	H3094-01	VL027786.D	05/18/2016	16:53
INFDL	H3094-02DL	VL027790.D	05/18/2016	19:33
INFDL2	H3094-02DL2	VL027791.D	05/18/2016	20:12
SV1DUP	H3139-02DUP	VL027795.D	05/18/2016	23:34

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H3094 SAS No.: H3094 SDG NO.: H3094
 Lab File ID: VL027778.D Date Analyzed: 05/18/2016
 Instrument ID: MSVOA_L Time Analyzed: 10:30
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1027310	6.63	2384310	8.31	2711610	13.73
UPPER LIMIT	1438240	6.96	3338030	8.64	3796250	14.06
LOWER LIMIT	616387	6.30	1430580	7.98	1626960	13.40
EPA SAMPLE NO.						
EFF	952902	6.63	2127097	8.31	2378483	13.72
INF	926976	6.63	1950769	8.31	2105031	13.73
INFDL	845862	6.63	1781414	8.31	1913487	13.72
INFDL2	794031	6.63	1688699	8.31	1864183	13.72
SV1DUP	1168299	6.64	2723055	8.31	2804737	13.73
VL0518ABL01	947717	6.63	2036486	8.30	2220580	13.72
VL0518ABS01	1025889	6.64	2281324	8.31	2622708	13.73

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
 AREA LOWER LIMIT = -40% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0518ABL01	SDG No.:	H3094
Lab Sample ID:	VL0518ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027779.D	1		05/18/16 12:14	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.1	0.49	U	0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.1	0.21	U	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.1	0.39	U	0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.1	0.26	U	0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.1	0.29	U	0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.1	0.56	U	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.1	0.77	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.1	0.44	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.1	0.3	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.1	0.41	U	0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	0.17	0.4	J	0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.1	0.31	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.16	0.56	J	0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	U	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.1	0.29	U	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.1	0.4	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.1	0.49	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.09	0.47	2.34	ug/m3
71-43-2	Benzene	0.1	0.32	U	0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.1	0.67	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.1	0.38	U	0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.1	0.85	U	0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0518ABL01	SDG No.:	H3094
Lab Sample ID:	VL0518ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027779.D	1		05/18/16 12:14	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.1	0.46	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.1	0.43	U	0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.2	0.87	U	0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.1	0.43	U	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.1	0.43	U	0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	0.1	1.03	U	0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.1	0.69	U	0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.1	0.74	U	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	U	0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.1	0.22	U	0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.1	0.52	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.1	0.35	U	0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.1	0.31	U	0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.4	1.44	U	0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.8			65 - 135		98%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	947717		6.63				
540-36-3	1,4-Difluorobenzene	2036490		8.3				
3114-55-4	Chlorobenzene-d5	2220580		13.72				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0518ABS01	SDG No.:	H3094
Lab Sample ID:	VL0518ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027780.D	1		05/18/16 12:53	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	10.2	50.4		0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	9.3	19.2		0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.8	22.5		0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	10	38.8		0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	9.8	25.9		0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	11.4	33.6		0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	10.1	56.8		0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.8	75.1		0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.6	67.1		0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	10.3	45.0		0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	10.3	31.2		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	10.5	43.0		0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	10.5	41.6		0.08	0.4	1.98	ug/m3
67-64-1	Acetone	7.3	17.3		0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	10.4	32.4		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	11.3	40.7		0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	9.1	31.6		0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	10.1	40.0		0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9.7	39.3		0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	10.7	36.8		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	10.4	30.7		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.5	59.8		0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	11	43.6		0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	10	48.8		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.2	50.2		0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.6	49.5		0.09	0.47	2.34	ug/m3
71-43-2	Benzene	10.8	34.5		0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	10.3	41.7		0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	9.9	53.2		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	10.4	48.1		0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	10.7	71.7		0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	10.9	44.7		0.08	0.41	2.05	ug/m3
108-88-3	Toluene	11.5	43.3		0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	12.1	54.9		0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	11.9	54.0		0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10	54.6		0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	11.2	95.4		0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	11	84.5		0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0518ABS01	SDG No.:	H3094
Lab Sample ID:	VL0518ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027780.D	1		05/18/16 12:53	VL051816

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	10.9	73.9		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	9.4	43.3		0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	10.9	47.3		0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	20.5	89.0		0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	10.4	45.2		0.09	0.43	2.17	ug/m3
100-42-5	Styrene	12.7	54.1		0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	11.5	118		0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	8.3	57		0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	10.9	56.4		0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.8	53.1		0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.4	51.1		0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	10	60.1		0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	10.3	61.9		0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.2	61.3		0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	11.5	85.4		0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	10.8	115		0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	9.7	21.5		0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	11.4	59.8		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	11.1	54.6		0.1	0.49	2.46	ug/m3
110-54-3	Hexane	10.4	36.6		0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	10.1	31.6		0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	11	39.6		0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	11.6	47.5		0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.6			65 - 135		96%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1025890		6.64				
540-36-3	1,4-Difluorobenzene	2281320		8.31				
3114-55-4	Chlorobenzene-d5	2622710		13.73				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H3094 SAS No.: H3094 SDG No.: H3094
 Instrument ID: MSVOA_L Calibration Date(s): 05/12/2016 05/12/2016
 Heated Purge: (Y/N) N Calibration Time(s): 12:47 21:25
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:	RRF010 = VL027749.D	RRF002 = VL027750.D	RRF001 = VL027751.D					
	RRF0.1 = VL027753.D	RRF015 = VL027755.D	RRF.03 = VL027757.D					
COMPOUND	RRF010	RRF002	RRF001	RRF0.1	RRF015	RRF.03	RRF	% RSD
Dichlorodifluoromethane	1.256	1.330	1.570		1.074		1.374	16.9
Chloromethane	0.614	0.702	0.739		0.622		0.685	9.2
Vinyl Chloride	0.619	0.675	0.686	0.764	0.632	1.145	0.749	24.2
Bromomethane	0.414	0.453	0.465		0.421		0.442	5.2
Chloroethane	0.268	0.292	0.302		0.276		0.290	6.2
Tetrahydrofuran	0.418	0.407	0.329		0.425		0.370	18
Trichlorofluoromethane	2.004	2.220	2.261		2.065		2.190	7.2
1,1,2-Trichlorotrifluoroethane	1.257	1.434	1.483		1.296		1.395	8
Dichlorotetrafluoroethane	1.583	1.832	1.880		1.584		1.778	10.7
Bromoethene	0.470	0.513	0.489		0.489		0.492	3.2
tert-Butyl alcohol	1.151	1.230	1.138		1.153		1.159	3.6
Heptane	1.733	1.803	1.665		1.741		1.693	6.4
1,1-Dichloroethene	0.537	0.584	0.593		0.563		0.565	4.1
Acetone	1.302	2.218	2.218		1.353		1.891	27.4
Carbon Disulfide	1.599	1.676	1.657		1.679		1.639	2.8
Methyl tert-Butyl Ether	1.798	1.793	1.582		1.791		1.665	11.6
Methylene Chloride	0.515	0.604	0.636		0.532		0.597	12.7
trans-1,2-Dichloroethene	0.642	0.680	0.655		0.650		0.651	3
1,1-Dichloroethane	1.507	1.628	1.645		1.528		1.595	4.5
Cyclohexane	0.994	1.001	0.895		0.995		0.953	6.3
2-Butanone	0.743	0.812	0.728		0.756		0.742	6.8
Carbon Tetrachloride	0.781	0.827	0.807	0.918	0.789	1.270	0.883	20
cis-1,2-Dichloroethene	1.103	1.095	0.965		1.125		1.032	10.6
Chloroform	1.754	1.896	1.924		1.763		1.852	4.7
1,1,1-Trichloroethane	1.769	1.854	1.829	1.914	1.771	3.245	2.019	26.9
2,2,4-Trimethylpentane	1.780	1.965	1.800		1.748		1.769	8.3
Benzene	1.027	1.088	0.977		1.032		1.005	6.9
1,2-Dichloroethane	0.679	0.733	0.708		0.683		0.701	3.1
Trichloroethene	0.400	0.431	0.395	0.406	0.403	0.572	0.427	15.4
1,2-Dichloropropane	0.380	0.387	0.376		0.384		0.380	1.6
Bromodichloromethane	0.852	0.901	0.832		0.862		0.847	4.9
4-Methyl-2-Pentanone	1.013	1.053	0.909		1.029		0.952	12.8
Toluene	1.304	1.314	1.110		1.306		1.186	15.4

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H3094 SAS No.: H3094 SDG No.: H3094
 Instrument ID: MSVOA_L Calibration Date(s): 05/12/2016 05/12/2016
 Heated Purge: (Y/N) N Calibration Time(s): 12:47 21:25
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:	RRF010 = VL027749.D	RRF002 = VL027750.D	RRF001 = VL027751.D					
	RRF0.1 = VL027753.D	RRF015 = VL027755.D	RRF.03 = VL027757.D					
COMPOUND	RRF010	RRF002	RRF001	RRF0.1	RRF015	RRF.03	RRF	% RSD
t-1,3-Dichloropropene	0.612	0.540	0.427		0.628		0.515	22.3
cis-1,3-Dichloropropene	0.702	0.662	0.531		0.723		0.613	19.5
1,1,2-Trichloroethane	0.444	0.482	0.457		0.452		0.461	3.2
Dibromochloromethane	0.693	0.672	0.601		0.702		0.649	8.7
1,2-Dibromoethane	0.662	0.665	0.590		0.672		0.636	6.5
Tetrachloroethene	0.395	0.386	0.358	0.334	0.400	0.484	0.384	13.6
Chlorobenzene	0.988	1.018	1.015		0.919		0.999	5
Ethyl Benzene	1.753	1.682	1.487		1.629		1.542	15.4
m/p-Xylene	1.418	1.442	1.374		1.319		1.343	8.3
o-Xylene	1.488	1.501	1.395		1.395		1.381	10.9
Styrene	0.477	0.375	0.268		0.459		0.357	32.9
Bromoform	0.525	0.488	0.434		0.558		0.482	13.3
1,1,2,2-Tetrachloroethane	0.974	1.026	1.048	1.049	0.900	1.543	1.084	19.4
2-Chlorotoluene	1.479	1.408	1.255		1.409		1.306	15.4
1,3,5-Trimethylbenzene	1.439	1.389	1.258		1.379		1.301	12.4
1,2,4-Trimethylbenzene	1.562	1.537	1.460		1.476		1.452	9.3
1,3-Dichlorobenzene	0.924	0.906	0.889		0.883		0.876	6.5
1,4-Dichlorobenzene	0.946	0.900	0.874		0.906		0.874	8.9
1,2-Dichlorobenzene	0.892	0.879	0.820		0.864		0.835	8.3
1,2,4-Trichlorobenzene	0.489	0.386	0.293		0.510		0.387	29.3
Hexachloro-1,3-Butadiene	0.376	0.287	0.270		0.409		0.323	20.1
1,3-Butadiene	0.617	0.712	0.712		0.635		0.679	7.2
Naphthalene	1.027	0.839	0.622		1.039		0.795	32.5
4-Ethyltoluene	1.568	1.477	1.333		1.492		1.368	17.5
1-Bromo-4-Fluorobenzene	0.791	0.741	0.768	0.748	0.750	0.747	0.760	2.4
Hexane	1.193	1.287	1.201		1.195		1.190	6.4
Allyl Chloride	0.908	0.996	0.928		0.961		0.953	3.7
1,4-Dioxane	45.465	49.455	29.060		46.057		42.597	18.6
Methyl Methacrylate	0.433	0.412	0.352		0.447		0.388	16.2

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : W:\HPCHEM1\MSVOA_L\METHODS\

Method File : VL051216AIR.M

Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu May 12 22:15:48 2016

Last Update : Thu May 12 22:15:48 2016

Response Via : Initial Calibration

Calibration Files

0.03=VL027757.D 0.1 =VL027753.D 0.5 =VL027758.D 1 =VL027751.D 2 =VL027750.D 10 =VL027749.D 15 =VL027755.D

	Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...		1.640	1.570	1.330	1.256	1.074	1.374	16.87	
3)	Chlorodifluoro...		1.657	1.534	1.416	1.209	1.203	1.404	14.20	
4)	Chloromethane		0.746	0.739	0.702	0.614	0.622	0.685	9.23	
5) T	Vinyl Chloride	1.145	0.764	0.721	0.686	0.675	0.619	0.632	0.749	24.25
6) T	Bromomethane		0.458	0.465	0.453	0.414	0.421	0.442	5.23	
7)	Chloroethane		0.312	0.302	0.292	0.268	0.276	0.290	6.24	
8) T	Dichlorotetra...		2.012	1.880	1.832	1.583	1.584	1.778	10.67	
9) T	Propene		0.511	0.506	0.526	0.494	0.494	0.506	2.64	
10) T	Heptane		1.520	1.665	1.803	1.733	1.741	1.693	6.39	
11) T	Trichlorofluor...		2.398	2.261	2.220	2.004	2.065	2.190	7.21	
12) T	1,1,2-Trichlor...		1.505	1.483	1.434	1.257	1.296	1.395	8.04	
13)	Ethanol		0.074	0.068	0.056	0.051	0.045	0.059	20.27	
14) T	Bromoethene		0.501	0.489	0.513	0.470	0.489	0.492	3.24	
15) T	Acetone		2.364	2.218	2.218	1.302	1.353	1.891	27.41	
16) T	1,3-Butadiene		0.721	0.712	0.712	0.617	0.635	0.679	7.24	
17)	tert-Butyl alc...		1.122	1.138	1.230	1.151	1.153	1.159	3.61	
18) T	1,1-Dichloroet...		0.550	0.593	0.584	0.537	0.563	0.565	4.09	
19) T	Isopropyl Alcohol		0.569	0.524	0.551	0.510	0.508	0.532	5.03	
20) T	Methylene Chlo...		0.699	0.636	0.604	0.515	0.532	0.597	12.69	
21) T	Allyl Chloride		0.971	0.928	0.996	0.908	0.961	0.953	3.67	
22) T	trans-1,2-Dich...		0.627	0.655	0.680	0.642	0.650	0.651	2.95	
23) T	Vinyl Acetate		1.995	2.213	2.541	2.365	2.346	2.292	8.86	
24) T	1,1-Dichloroet...		1.665	1.645	1.628	1.507	1.528	1.595	4.52	
25) T	Ethyl Acetate		2.618	2.703	2.827	2.653	2.616	2.684	3.26	
26) T	Hexane		1.073	1.201	1.287	1.193	1.195	1.190	6.42	
27) T	Carbon Disulfide		1.581	1.657	1.676	1.599	1.679	1.639	2.76	
28) T	Methyl tert-Bu...		1.362	1.582	1.793	1.798	1.791	1.665	11.60	
29) T	Chloroform		1.923	1.924	1.896	1.754	1.763	1.852	4.65	
30) T	Cyclohexane		0.880	0.895	1.001	0.994	0.995	0.953	6.30	
31) T	cis-1,2-Dichlo...		0.871	0.965	1.095	1.103	1.125	1.032	10.62	
32) T	1,1,1-Trichlor...	3.245	1.914	1.753	1.829	1.854	1.769	1.771	2.019	26.92
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone		0.671	0.728	0.812	0.743	0.756	0.742	6.83	
35) T	Carbon Tetrach...	1.270	0.918	0.792	0.807	0.827	0.781	0.789	0.883	19.99
36) T	Benzene		0.902	0.977	1.088	1.027	1.032	1.005	6.94	
37) T	1,2-Dichloroet...		0.701	0.708	0.733	0.679	0.683	0.701	3.08	

Method	Path : W:\HPCHEM1\MSVOA_L\METHODS\
Method	File : VL051216AIR.M
38) T	Trichloroethene 0.572 0.406 0.381 0.395 0.431 0.400 0.403 0.427 15.42
39) T	1,2-Dichloropr... 0.372 0.376 0.387 0.380 0.384 0.380 1.61
40) T	1,4-Dioxane 0.043 0.029 0.049 0.045 0.046 0.043# 18.58
41) T	Tetrahydrofuran 0.273 0.329 0.407 0.418 0.425 0.370 17.96
42) T	Bromodichlorom... 0.787 0.832 0.901 0.852 0.862 0.847 4.94
43) T	Methyl Methacr... 0.297 0.352 0.412 0.433 0.447 0.388 16.19
44) T	2,2,4-Trimethy... 1.553 1.800 1.965 1.780 1.748 1.769 8.32
45) T	t-1,3-Dichloro... 0.366 0.427 0.540 0.612 0.628 0.515 22.28
46) T	cis-1,3-Dichlo... 0.445 0.531 0.662 0.702 0.723 0.613 19.52
47) T	1,1,2-Trichlor... 0.469 0.457 0.482 0.444 0.452 0.461 3.24
48) T	Dibromochlorom... 0.578 0.601 0.672 0.693 0.702 0.649 8.67
49) T	Bromoform 0.402 0.434 0.488 0.525 0.558 0.482 13.25
50) T	4-Methyl-2-Pen... 0.758 0.909 1.053 1.013 1.029 0.952 12.78
51) T	2-Hexanone 0.578 0.753 0.929 0.974 0.974 0.841 20.60
52) T	Tetrachloroethene 0.484 0.334 0.332 0.358 0.386 0.395 0.400 0.384 13.61
53) T	Toluene 0.897 1.110 1.314 1.304 1.306 1.186 15.42
54) T	1,2-Dibromoethane 0.592 0.590 0.665 0.662 0.672 0.636 6.49
55) I	Chlorobenzene-d5 -----ISTD-----
56) T	1,1,1,2-Tetrac... 0.510 0.516 0.513 0.513 0.481 0.507 2.84
57) T	Chlorobenzene 1.053 1.015 1.018 0.988 0.919 0.999 5.04
58) T	Ethyl Benzene 1.155 1.487 1.682 1.753 1.629 1.541 15.36
59) T	m/p-Xylene 1.161 1.374 1.442 1.418 1.319 1.343 8.34
60) T	o-Xylene 1.128 1.395 1.501 1.488 1.395 1.381 10.88
61) T	Styrene 0.208 0.268 0.375 0.477 0.459 0.357 32.95
62) T	Isopropylbenzene 1.546 1.796 1.884 1.908 1.806 1.788 8.04
63) T	1,1,2,2-Tetrac... 1.543 1.049 1.048 1.048 1.026 0.974 0.900 1.084 19.35
64) T	n-propylbenzene 0.388 0.464 0.500 0.496 0.479 0.465 9.80
65) T	tert-Butylbenzene 1.198 1.520 1.641 1.710 1.617 1.537 13.11
66) T	Benzyl Chloride 0.253 0.288 0.355 0.479 0.477 0.370 28.29
67) T	sec-Butylbenzene 1.859 2.272 2.413 2.405 2.244 2.239 10.07
68) S	1-Bromo-4-Fluo... 0.747 0.748 0.775 0.768 0.741 0.791 0.750 0.760 2.43
69) T	p-Isopropyltol... 1.271 1.699 1.921 1.993 1.886 1.754 16.60
70) T	n-Butylbenzene 1.436 1.851 2.067 2.102 1.981 1.887 14.31
71) T	2-Chlorotoluene 0.978 1.255 1.408 1.479 1.409 1.306 15.37
72) T	4-Ethyltoluene 0.969 1.333 1.477 1.568 1.492 1.368 17.45
73) T	1,3,5-Trimethy... 1.037 1.258 1.389 1.439 1.379 1.301 12.42
74) T	1,2,4-Trimethy... 1.222 1.460 1.537 1.562 1.476 1.452 9.29
75) T	1,3-Dichlorobe... 0.778 0.889 0.906 0.924 0.883 0.876 6.51
76) T	1,4-Dichlorobe... 0.743 0.874 0.900 0.946 0.906 0.874 8.88
77) T	1,2-Dichlorobe... 0.722 0.820 0.879 0.892 0.864 0.835 8.28
78) T	Hexachloro-1,3... 0.273 0.270 0.287 0.376 0.409 0.323 20.07
79) T	Naphthalene 0.446 0.622 0.839 1.027 1.039 0.795 32.52
80) T	Naphthalene,2-... 0.084 0.274 0.301 0.291 0.285 0.247 37.10
81) T	1,2,4-Trichlor... 0.257 0.293 0.386 0.489 0.510 0.387 29.28

(#) = Out of Range

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H3094 SAS No.: H3094 SDG No.: H3094
 Instrument ID: MSVOA_L Calibration Date/Time: 05/18/2016 10:30
 Lab File ID: VL027778.D Init. Calib. Date(s): 05/12/2016 05/12/2016
 Heated Purge: (Y/N) N Init. Calib. Time(s): 12:47 21:25
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.374	1.205		-12.28	30
Chloromethane	0.685	0.632		-7.71	30
Vinyl Chloride	0.749	0.652		-12.94	30
Bromomethane	0.442	0.439		-0.66	30
Chloroethane	0.290	0.285		-1.62	30
Tetrahydrofuran	0.370	0.419		13.21	30
Trichlorofluoromethane	2.190	2.129		-2.78	30
1,1,2-Trichlorotrifluoroethane	1.395	1.351		-3.18	30
Dichlorotetrafluoroethane	1.778	1.661		-6.61	30
Bromoethene	0.492	0.504		2.42	30
tert-Butyl alcohol	1.159	1.261		8.81	30
Heptane	1.693	1.782		5.28	30
1,1-Dichloroethene	0.565	0.588		3.96	30
Acetone	1.891	1.349		-28.66	30
Carbon Disulfide	1.639	1.722		5.11	30
Methyl tert-Butyl Ether	1.665	1.921		15.36	30
Methylene Chloride	0.597	0.555		-7.08	30
trans-1,2-Dichloroethene	0.651	0.681		4.73	30
1,1-Dichloroethane	1.595	1.563		-1.95	30
Cyclohexane	0.953	1.048		9.93	30
2-Butanone	0.742	0.753		1.43	30
Carbon Tetrachloride	0.883	0.833		-5.67	30
cis-1,2-Dichloroethene	1.032	1.164		12.83	30
Chloroform	1.852	1.835		-0.91	30
1,1,1-Trichloroethane	2.019	1.906		-5.6	30
2,2,4-Trimethylpentane	1.769	1.822		3	30
Benzene	1.005	1.064		5.84	30
1,2-Dichloroethane	0.701	0.704		0.5	30
Trichloroethene	0.427	0.424		-0.61	30
1,2-Dichloropropane	0.380	0.387		1.87	30
Bromodichloromethane	0.847	0.896		5.79	30
4-Methyl-2-Pentanone	0.952	1.042		9.45	30
Toluene	1.186	1.338		12.77	30
t-1,3-Dichloropropene	0.515	0.647		25.78	30
cis-1,3-Dichloropropene	0.613	0.744		21.4	30
1,1,2-Trichloroethane	0.461	0.460		-0.24	30
Dibromochloromethane	0.649	0.735		13.15	30
1,2-Dibromoethane	0.636	0.693		8.98	30
Tetrachloroethene	0.384	0.418		8.82	30

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

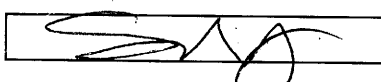
Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H3094 SAS No.: H3094 SDG No.: H3094
 Instrument ID: MSVOA_L Calibration Date/Time: 05/18/2016 10:30
 Lab File ID: VL027778.D Init. Calib. Date(s): 05/12/2016 05/12/2016
 Heated Purge: (Y/N) N Init. Calib. Time(s): 12:47 21:25
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.999	0.944		-5.5	30
Ethyl Benzene	1.542	1.689		9.54	30
m/p-Xylene	1.343	1.376		2.49	30
o-Xylene	1.381	1.427		3.27	30
Styrene	0.357	0.456		27.61	30
Bromoform	0.482	0.573		19.09	30
1,1,2,2-Tetrachloroethane	1.084	0.922		-14.96	30
2-Chlorotoluene	1.306	1.447		10.8	30
1,3,5-Trimethylbenzene	1.301	1.392		7.05	30
1,2,4-Trimethylbenzene	1.452	1.526		5.13	30
1,3-Dichlorobenzene	0.876	0.911		3.95	30
1,4-Dichlorobenzene	0.874	0.917		4.98	30
1,2-Dichlorobenzene	0.835	0.873		4.49	30
1,2,4-Trichlorobenzene	0.387	0.494		27.71	30
Hexachloro-1,3-Butadiene	0.323	0.382		18.28	30
1,3-Butadiene	0.679	0.643		-5.28	30
Naphthalene	0.795	1.021		28.49	30
4-Ethyltoluene	1.368	1.522		11.31	30
1-Bromo-4-Fluorobenzene	0.760	0.746		-1.86	30
Hexane	1.190	1.233		3.67	30
Allyl Chloride	0.953	0.965		1.29	30
1,4-Dioxane	42.597	50.801		19.26	30
Methyl Methacrylate	0.388	0.455		17.18	30

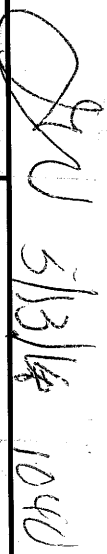
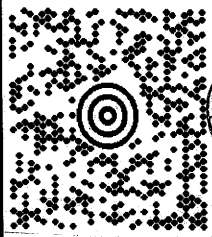
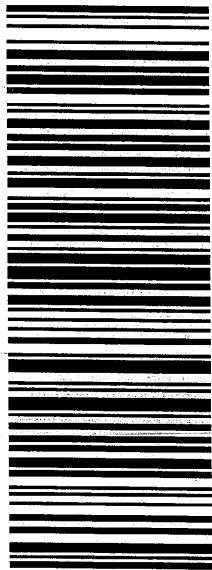
All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B1605027				Courier :				_____ of _____ COCs																										
Client ID : ENVI27 Project ID : Frost Street Sites / SPGL 100.03				Sampler Name(s) :				Analysis				Matrix																										
Customer Name : Envirotrac Environmental Services Address : 5 Old Dock Road City : Yaphank State : NY Zip Code : 11980 Country :				Project Manager JAMES WILKINSON				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				TO-15 Indoor/Ambient Air Soil Gas																										
				Phone Number : 631-924-3001																																		
				Fax Number : 6319245001																																		
				Site Details:																																		
Analysis Turnaround Time				Data Package Type :				EDD Type :																														
Standard : 15 business days OR				Rush (Specify): _____ Days																																		
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID																								
EFF	5/10/16/2000							-30	-7.5	NR	10757	1.4 L	NA	VL026487.D																								
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> Pressure (Inches of Hg) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop					Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15)				
	Ambient	Maximum	Minimum																																			
Start																																						
Stop																																						
	Ambient	Maximum	Minimum																																			
Start																																						
Stop																																						
** Submittal of this COC indicates approval of the analysis based on existing condition										Please follow the instructions on the back of this CO																												
Special Instructions/QC Requirements & Comments :																																						
Suspected Contamination: High Medium Low PID Readings:																																						
Sampling site (State):																																						
Quick Connector required : <u>yes</u>																																						
Canisters Shipped by: <u>SC</u>				Date/Time: <u>5/15/16</u>				Canisters Received by:				Date/Time:																										
Samples Relinquished by: <u>SC</u>				Date/Time: <u>5/16/2020</u>				Received by: <u>SC</u>				Date/Time:																										
Relinquished by: <u>WPS</u>				Date/Time: <u>5/17/16 1040</u>				Received by: <u>SC</u>				Date/Time: <u>5/17/16 1040</u>																										
B1605027 - 2																																						

Client Contact Information				Bottle Order ID : B1605027				Courier :				_____ of _____ COCs																			
Client ID : ENV127				Project ID : Frost Street Sites / SPGL 100.03				Sampler Name(s) :				Analysis																			
Customer Name : Envirotrac Environmental Services Address : 5 Old Dock Road City : Yaphank State : NY Zip Code : 11980 Country :				Project Manager JAMES WILKINSON				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				Indoor/Ambient Air Soil Gas																			
				Phone Number : 631-924-3001																											
				Fax Number : 6319245001																											
				Site Details:																											
Analysis Turnaround Time				Standard : 15 business days OR				Data Package Type :				EDD Type :																			
Rush (Specify): _____ Days																															
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15																
INF	5/10/16	2005						-30	75	NR	10046	1.4 L	NA	VL026487.D																	
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 									
	Ambient	Maximum	Minimum																												
Start																															
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	Ambient	Maximum	Minimum																												
Start																															
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Special Instructions/QC Requirements & Comments :																															
Suspected Contamination: High Medium Low PID Readings:																															
Sampling site (State):																															
Quick Connector required : Yes																															
Canisters Shipped by: UPC					Date/Time: 5/5/16					Canisters Received by:					Date/Time:																
Samples Relinquished by: UPC					Date/Time: 5/13/16 2020					Received by:					Date/Time:																
Relinquished by: UPC					Date/Time: 5/13/16 10:40					Received by: [Signature]					Date/Time: 5/13/16 10:40																
B1605027 - 1																															

1130014

ENVIROTRAC - NY 631-924-3001 5 OLD DOCK ROAD YAPHANK NY 11980	5 LBS	1 OF 1
SHIP TO: ATTN: SAMPLE MANAGEMENT 908-789-8900 CHEMTECH 284 SHEFFIELD STREET MOUNTAINSIDE NJ 07092-2319		
		
NJ 078 9-61		
UPS GROUND		
TRACKING #: 1Z 12X 822 03 9684 0158		
		
BILLING: P/P		
Reference#: 01.990969.00/72.0000 UPS 18.1.15. WNTNVS0 75.04 04/2016		
		

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Louisiana	05035
Maine	2012025
Maryland	296
Massachusetts	M-NJ503
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: Chemtech		Location: 284 Sheffield Street, Mountainside, NJ 7092	
NAHSA		Title: Sample Custodian	
Field Sample Seal No.: H3094		Date Broken 5/13/2016	
Case No.: Frost Street Sites / SPGL 1		Analytical Parameter/Fraction: TO-15	
		Military Time Seal Broken: 10:40:00	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
H3094-01	EFF		
H3094-02	INF		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
5/13	1400	Signature	<i>[Signature]</i>	Signature	<i>[Signature]</i>	A-112 CAB
		Printed Name	LORIANA D	Printed Name	J THOMAS	
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		

Distribution: White - Original (Sent With Report) Yellow - Contractor Archive Pink - Sample Custodian - Interim Copy