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

May 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: April 2016
Frost Street Sites: Site ID #s 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Dyber:

EnSafe, Inc. (EnSafe) is pleased to submit the Progress Report for the Frost Street Sites (Site ID #s 1-30043 I, L, M) for work completed in April 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 April 6, 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.

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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J. Heaney, Walden Associates	<i>Via email to jheaney@walden-associates.com</i>
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: 1-Apr
Weather / Temp: Rain / 60 DEG
Technician / Operator: DW

Arrival Time: 6:30
Departure Time: 8:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	42,030.1			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	42,787.2			
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)	72				VGAC-1 Influent PID (ppm)	20.0			
VGAC-1 Effluent Vacuum ("H2O)	68				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	60				VGAC-2 Influent PID (ppm)	20.0			
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)	141				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	13								
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)	50	7750	169		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	42	4200	92	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	52	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	42	3000	65	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	44	5000	109		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	42	6500	142	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	44	4400	96		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	46	3100	68	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	89			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	200			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	15,697.0			
Manifold Regulator Pressure (psi)	70								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	15	8			AS-11 (psi)/(cfm)	15	8		
AS-2 (psi)/(cfm)	14	8			AS-12B (psi)/(cfm)	14	8		
AS-3 (psi)/(cfm)	13	8			AS-13B (psi)/(cfm)	15	8		
AS-4 (psi)/(cfm)	14	8			AS-14 (psi)/(cfm)	15	8		
AS-5 (psi)/(cfm)	15	8			AS-15 (psi)/(cfm)	15	8		
AS-6 (psi)/(cfm)	14	8			AS-16B (psi)/(cfm)	14	8		
AS-7 (psi)/(cfm)	15	8			AS-17 (psi)/(cfm)	15	6		
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: 6-Apr
Weather / Temp: Clear / 40 DEG
Technician / Operator: DW

Arrival Time: 10:00
Departure Time: 11:30

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	OFF		OFF		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	ON		ON		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	42,092.6			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	42,848.2			
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)	78				VGAC-1 Influent PID (ppm)	12.0			
VGAC-1 Effluent Vacuum ("H2O)	70				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	64				VGAC-2 Influent PID (ppm)	12.0			
VGAC-2 Effluent Vacuum ("H2O)	68				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)	132				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	13								
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)	50	8000	175	21.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	44	4300	94	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	54	4500	98	15.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	44	3100	68	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	44	5200	113	2.5	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	44	7000	153	40.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	44	4400	96	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	46	3000	65	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	97			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	205			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	15,821.0			
Manifold Regulator Pressure (psi)	85								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	15	8			AS-11 (psi)/(cfm)	15	4		
AS-2 (psi)/(cfm)	15	8			AS-12B (psi)/(cfm)	15	8		
AS-3 (psi)/(cfm)	14	8			AS-13B (psi)/(cfm)	14	8		
AS-4 (psi)/(cfm)	14	8			AS-14 (psi)/(cfm)	15	8		
AS-5 (psi)/(cfm)	15	8			AS-15 (psi)/(cfm)	15	8		
AS-6 (psi)/(cfm)	15	8			AS-16B (psi)/(cfm)	15	8		
AS-7 (psi)/(cfm)	15	8			AS-17 (psi)/(cfm)	15	6		
AS-8 (psi)/(cfm)	15	8			AS-18 (psi)/(cfm)	15	8		
AS-9 (psi)/(cfm)	15	8			AS-19 (psi)/(cfm)	15	4		
AS-10B (psi)/(cfm)	14	8							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Collected monthly samples.

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: 15-Apr
Weather / Temp: Clear / 50 DEG
Technician / Operator: DW

Arrival Time: 6:30
Departure Time: 8:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	42,154.1			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	42,906.6			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	4				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	70				VGAC-1 Influent PID (ppm)	23.0			
VGAC-1 Effluent Vacuum ("H2O)	74				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	66				VGAC-2 Influent PID (ppm)	23.0			
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)	132				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	12.5								
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)	50	8000	175		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	44	4200	92	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	54	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	44	3000	65	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	44	5000	109		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	44	6400	140	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	42	4400	96		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	46	3100	68	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	94			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	193			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	15,941.0			
Manifold Regulator Pressure (psi)	80								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	18	8			AS-11 (psi)/(cfm)	17	8		
AS-2 (psi)/(cfm)	16	4			AS-12B (psi)/(cfm)	15	8		
AS-3 (psi)/(cfm)	16	8			AS-13B (psi)/(cfm)	15	8		
AS-4 (psi)/(cfm)	14	8			AS-14 (psi)/(cfm)	15	8		
AS-5 (psi)/(cfm)	16	8			AS-15 (psi)/(cfm)	17	8		
AS-6 (psi)/(cfm)	16	8			AS-16B (psi)/(cfm)	16	8		
AS-7 (psi)/(cfm)	17	5			AS-17 (psi)/(cfm)	16	4		
AS-8 (psi)/(cfm)	17	8			AS-18 (psi)/(cfm)	16	8		
AS-9 (psi)/(cfm)	17	8			AS-19 (psi)/(cfm)	16	8		
AS-10B (psi)/(cfm)	16	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: 19-Apr
Weather / Temp: Clear / 50 DEG
Technician / Operator: DW

Arrival Time: 13:00
Departure Time: 14:30

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	OFF		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	42,204.5			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	42,957.2			
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)	70				VGAC-1 Influent PID (ppm)	18.0			
VGAC-1 Effluent Vacuum ("H2O)	74				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	68				VGAC-2 Influent PID (ppm)	18.0			
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)	132				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	8000	175		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	42	4200	92	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	54	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	44	3000	65	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	44	5000	109		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	44	6500	142	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	44	4200	92		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	46	3100	68	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	99			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	188			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	15,996.0			
Manifold Regulator Pressure (psi)	80								
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)	16	5			AS-12B (psi)/(cfm)	15	8		
AS-3 (psi)/(cfm)	15	8			AS-13B (psi)/(cfm)	15	6		
AS-4 (psi)/(cfm)	15	8			AS-14 (psi)/(cfm)	16	8		
AS-5 (psi)/(cfm)	17	8			AS-15 (psi)/(cfm)	17	8		
AS-6 (psi)/(cfm)	16	8			AS-16B (psi)/(cfm)	17	8		
AS-7 (psi)/(cfm)	17	5			AS-17 (psi)/(cfm)	17	5		
AS-8 (psi)/(cfm)	17	8			AS-18 (psi)/(cfm)	17	8		
AS-9 (psi)/(cfm)	17	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. Refilled oil and restarted.

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: 29-Apr
Weather / Temp: Clear / 58 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)	OFF		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	42,324.4			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	43,072.4			
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)	72				VGAC-1 Influent PID (ppm)	18.4			
VGAC-1 Effluent Vacuum ("H2O)	74				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	64				VGAC-2 Influent PID (ppm)	18.4			
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)	128				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	12								
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	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)	42	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	3100	68	
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)	141			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	16,023.0			
Manifold Regulator Pressure (psi)	80								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	18	8			AS-11 (psi)/(cfm)	17	6		
AS-2 (psi)/(cfm)	17	6			AS-12B (psi)/(cfm)	15	8		
AS-3 (psi)/(cfm)	15	8			AS-13B (psi)/(cfm)	16	6		
AS-4 (psi)/(cfm)	13.5	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)	16	8		
AS-7 (psi)/(cfm)	17	6			AS-17 (psi)/(cfm)	16	4		
AS-8 (psi)/(cfm)	17	8			AS-18 (psi)/(cfm)	16	8		
AS-9 (psi)/(cfm)	17	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 unknown reason, 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 : H2506

ATTENTION : James Wilkinson



DoD ELAP

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Cover Page

Order ID : H2506

Project ID : Frost Street Sites / SPGL 100.03

Client : Envirotrac Environmental Services

Lab Sample Number

H2506-01
H2506-02

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 : — 

APPROVED

Date: 4/23/2016
By Mildred V Reyes, QAQC Supervisor at 3:38 pm, Apr 25, 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 # H2506

Test Name: TO-15

A. Number of Samples and Date of Receipt:

2 Air samples were received on 04/12/2016.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SUMMA Canister Rental and 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 {H2538-06DUP} with File ID: VL027538.D recoveries met criteria except for Tetrachloroethene[28.6%] .

The Blank Spike for {VL0414ABS01} with File ID: VL027523.D met requirements for all samples except for 1,2,4-Trichlorobenzene[63%], Hexachloro-1,3-butadiene[60%] and Naphthalene[61%] .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

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 3:38 pm, Apr 25, 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 #: H2506

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: 04/23/2016

2nd Level QA Review Signature: _____

Mildred V Reyes

APPROVED

Date:
By Mildred V Reyes, QAQC Supervisor at 3:38 pm, Apr 25, 2016



284 Sheffield Street, Mountainside, New Jersey - 07092

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

LAB CHRONICLE

OrderID: H2506
Client: Envirotrac Environmental Services
Contact: James Wilkinson

OrderDate: 4/12/2016 5:21:00 PM
Project: Frost Street Sites / SPGL 100.03
Location: Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
H2506-01	EFF	Air	TO-15	TO-15	04/06/16		04/14/16	04/12/16
H2506-02	INF	Air	TO-15	TO-15	04/06/16		04/14/16	04/12/16
H2506-02DL	INFDL	Air	TO-15	TO-15	04/06/16		04/14/16	04/12/16
H2506-02DL 2	INFDL2	Air	TO-15	TO-15	04/06/16		04/15/16	04/12/16

Hit Summary Sheet SW-846

SDG No.: H2506

Client: Envirotrac Environmental Services

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	EFF								
H2506-01	EFF	Air	Dichlorodifluoromethane	1.24	J	0.2	0.49	2.47	ug/m3
H2506-01	EFF	Air	Trichlorofluoromethane	1.29	J	0.11	0.56	2.81	ug/m3
H2506-01	EFF	Air	Acetone	1.09	J	0.02	0.24	1.19	ug/m3
H2506-01	EFF	Air	1,1-Dichloroethane	0.65	J	0.04	0.4	2.02	ug/m3
H2506-01	EFF	Air	Tetrachloroethene	0.41		0.14	0.2	0.2	ug/m3
H2506-01	EFF	Air	m/p-Xylene	0.17	J	0.13	0.87	4.34	ug/m3
			Total Voc :	4.85					
			Total Concentration:	4.85					
Client ID:	INF								
H2506-02	INF	Air	trans-1,2-Dichloroethene	7.14	J	0.67	3.96	19.8	ug/m3
H2506-02	INF	Air	Cyclohexane	43.70		0.83	3.44	17.2	ug/m3
H2506-02	INF	Air	cis-1,2-Dichloroethene	753.00	E	0.71	3.96	19.8	ug/m3
H2506-02	INF	Air	2,2,4-Trimethylpentane	195.00		1.03	4.67	23.4	ug/m3
H2506-02	INF	Air	Benzene	11.20	J	0.54	3.19	16.0	ug/m3
H2506-02	INF	Air	Trichloroethene	1,827.00	E	0.81	1.61	1.61	ug/m3
H2506-02	INF	Air	Toluene	3.01	J	0.45	3.77	18.8	ug/m3
H2506-02	INF	Air	Tetrachloroethene	16,952.00	E	1.15	2.03	2.03	ug/m3
			Total Voc :	19792.05					
			Total Concentration:	19792.05					
Client ID:	INFDL								
H2506-02DL	INFDL	Air	Cyclohexane	37.20	JD	3.27	13.8	68.8	ug/m3
H2506-02DL	INFDL	Air	cis-1,2-Dichloroethene	674.00	D	2.85	15.9	79.3	ug/m3
H2506-02DL	INFDL	Air	2,2,4-Trimethylpentane	184.00	D	4.06	18.7	93.4	ug/m3
H2506-02DL	INFDL	Air	Benzene	10.20	JD	2.14	12.8	63.9	ug/m3
H2506-02DL	INFDL	Air	Trichloroethene	1,719.00	D	3.28	6.45	6.45	ug/m3
H2506-02DL	INFDL	Air	Tetrachloroethene	27,124.00	ED	4.54	8.14	8.14	ug/m3
			Total Voc :	29748.4					
			Total Concentration:	29748.4					
Client ID:	INFDL2								
H2506-02DL2	INFDL2	Air	cis-1,2-Dichloroethene	1,189.00	JD	86.0	475	2378	ug/m3
H2506-02DL2	INFDL2	Air	Trichloroethene	3,009.00	D	98.9	193	193	ug/m3
H2506-02DL2	INFDL2	Air	Tetrachloroethene	74,593.00	D	136	244	244	ug/m3
			Total Voc :	78791					
			Total Concentration:	78791					

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 04/06/16

Field Id Number : EFF

Analysis Date : 04/14/16

Laboratory Id Number : H2506-01

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	0.25	J	1.24		
Chloromethane	74-87-3	50.49	0.1	U	0.21		
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	0.1	U	0.29		
Trichlorofluoromethane	75-69-4	137.4	0.23	J	1.29		
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	0.1	U	0.4		
Acetone	67-64-1	58.08	0.46	J	1.09		
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	0.1	U	0.35		
trans-1,2-Dichloroethene	156-60-5	96.94	0.1	U	0.4		
1,1-Dichloroethane	75-34-3	98.96	0.16	J	0.65		
Cyclohexane	110-82-7	84.16	0.1	U	0.34		
2-Butanone	78-93-3	72.11	0.1	U	0.29		
Carbon Tetrachloride	56-23-5	153.8	0.03	U	0.19		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
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	0.1	U	0.38		
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 : 04/06/16

Field Id Number : EFF

Analysis Date : 04/14/16

Laboratory Id Number : H2506-01

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	0.06		0.41		
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	0.04	J	0.17		
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 : 04/06/16

Field Id Number : INF

Analysis Date : 04/14/16

Laboratory Id Number : H2506-02

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	1	U	2.95		
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	1	U	2.38		
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	1.8	J	7.14		
1,1-Dichloroethane	75-34-3	98.96	1	U	4.05		
Cyclohexane	110-82-7	84.16	12.7		43.7		
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	190	E	753		
Chloroform	67-66-3	119.4	1	U	4.88		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	U	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	41.9		195		
Benzene	71-43-2	78.11	3.5	J	11.2		
1,2-Dichloroethane	107-06-2	98.96	1	U	4.05		
Trichloroethene	79-01-6	131.4	340	E	1827		
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	0.8	J	3.01		
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 : 04/06/16

Field Id Number : INF

Analysis Date : 04/14/16

Laboratory Id Number : H2506-02

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	2500	E	16952		
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 : 04/06/16

Field Id Number : INFDL

Analysis Date : 04/14/16

Laboratory Id Number : H2506-02DL

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	UD	11.8		
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	10.8	JD	37.2		
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	170	D	674		
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	39.6	D	184		
Benzene	71-43-2	78.11	3.2	JD	10.2		
1,2-Dichloroethane	107-06-2	98.96	4	UD	16.2		
Trichloroethene	79-01-6	131.4	320	D	1719		
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 : 04/06/16

Field Id Number : INFDL

Analysis Date : 04/14/16

Laboratory Id Number : H2506-02DL

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	4000	ED	27124		
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 : 04/06/16

Field Id Number : INFDL2

Analysis Date : 04/15/16

Laboratory Id Number : H2506-02DL2

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	120	UD	593		
Chloromethane	74-87-3	50.49	120	UD	247		
Vinyl Chloride	75-01-4	62.5	36	UD	92.0		
Bromomethane	74-83-9	94.94	120	UD	465		
Chloroethane	75-00-3	64.52	120	UD	316		
Tetrahydrofuran	109-99-9	72.11	120	UD	353		
Trichlorofluoromethane	75-69-4	137.4	120	UD	674		
Dichlorotetrafluoroethane	76-14-2	170.9	120	UD	838		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	120	UD	919		
Bromoethene	593-60-2	106.9	120	UD	524		
tert-Butyl alcohol	75-65-0	74.12	120	UD	363		
Heptane	142-82-5	100.2	120	UD	491		
1,1-Dichloroethene	75-35-4	96.94	120	UD	475		
Acetone	67-64-1	58.08	120	UD	285		
Carbon Disulfide	75-15-0	76.14	120	UD	373		
Methyl tert-Butyl Ether	1634-04-4	88.15	120	UD	432		
Methylene Chloride	75-09-2	84.94	120	UD	416		
trans-1,2-Dichloroethene	156-60-5	96.94	120	UD	475		
1,1-Dichloroethane	75-34-3	98.96	120	UD	485		
Cyclohexane	110-82-7	84.16	120	UD	413		
2-Butanone	78-93-3	72.11	120	UD	353		
Carbon Tetrachloride	56-23-5	153.8	36	UD	226		
cis-1,2-Dichloroethene	156-59-2	96.94	300	JD	1189		
Chloroform	67-66-3	119.4	120	UD	586		
1,1,1-Trichloroethane	71-55-6	133.4	36	UD	196		
2,2,4-Trimethylpentane	540-84-1	114.2	120	UD	560		
Benzene	71-43-2	78.11	120	UD	383		
1,2-Dichloroethane	107-06-2	98.96	120	UD	485		
Trichloroethene	79-01-6	131.4	560	D	3009		
1,2-Dichloropropane	78-87-5	113	120	UD	554		
Bromodichloromethane	75-27-4	163.8	120	UD	803		
4-Methyl-2-Pentanone	108-10-1	100.2	120	UD	491		
Toluene	108-88-3	92.14	120	UD	452		
t-1,3-Dichloropropene	10061-02-6	111	120	UD	544		
cis-1,3-Dichloropropene	10061-01-5	111	120	UD	544		
1,1,2-Trichloroethane	79-00-5	133.4	120	UD	654		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 04/06/16

Field Id Number : INFDL2

Analysis Date : 04/15/16

Laboratory Id Number : H2506-02DL2

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	120	UD	1022		
1,2-Dibromoethane	106-93-4	187.9	120	UD	922		
Tetrachloroethene	127-18-4	165.8	11000	D	74593		
Chlorobenzene	108-90-7	112.6	120	UD	552		
Ethyl Benzene	100-41-4	106.2	120	UD	521		
m/p-Xylene	179601-23-1	106.2	240	UD	1042		
o-Xylene	95-47-6	106.2	120	UD	521		
Styrene	100-42-5	104.1	120	UD	510		
Bromoform	75-25-2	252.8	120	UD	1240		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	120	UD	824		
2-Chlorotoluene	95-49-8	126.6	120	UD	621		
1,3,5-Trimethylbenzene	108-67-8	120.2	120	UD	589		
1,2,4-Trimethylbenzene	95-63-6	120.2	120	UD	589		
1,3-Dichlorobenzene	541-73-1	147	120	UD	721		
1,4-Dichlorobenzene	106-46-7	147	120	UD	721		
1,2-Dichlorobenzene	95-50-1	147	120	UD	721		
1,2,4-Trichlorobenzene	120-82-1	181.5	120	UD	890		
Hexachloro-1,3-Butadiene	87-68-3	260.8	120	UD	1280		
Naphthalene	91-20-3	128.17	120	UD	629		
1,3-Butadiene	106-99-0	54.09	120	UD	265		
4-Ethyltoluene	622-96-8	120.2	120	UD	589		
Hexane	110-54-3	86.17	120	UD	422		
Allyl Chloride	107-05-1	76.53	120	UD	375		
1,4-Dioxane	123-91-1	88.12	480	UD	1729		
Methyl Methacrylate	80-62-6	100.117	120	UD	491		

Project : Frost Street Sites / SPGL 100.03**Field Id Number :** INFDL2**Laboratory Id Number :** H2506-02DL2**Sampling Date :** 04/06/16**Analysis Date :** 04/15/16**Target Analyts :** Air Results

SAMPLE DATA

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	04/06/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	04/12/16
Client Sample ID:	EFF	SDG No.:	H2506
Lab Sample ID:	H2506-01	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
VL027525.D	1		04/14/16 17:03	VL041416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.25	1.24	J	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	0.23	1.29	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	0.1	0.4	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	0.46	1.09	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	0.1	0.35	U	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	0.16	0.65	J	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:	04/06/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	04/12/16
Client Sample ID:	EFF	SDG No.:	H2506
Lab Sample ID:	H2506-01	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
VL027525.D	1		04/14/16 17:03	VL041416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.06	0.41		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	0.04	0.17	J	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	UQ	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	UQ	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	UQ	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	9.6			65 - 135		96%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1180360		6.62				
540-36-3	1,4-Difluorobenzene	2793690		8.29				
3114-55-4	Chlorobenzene-d5	2955310		13.7				

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:	04/06/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	04/12/16
Client Sample ID:	INF	SDG No.:	H2506
Lab Sample ID:	H2506-02	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
VL027534.D	10		04/14/16 22:54	VL041416

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	1	2.95	U	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	1	2.38	U	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	1.8	7.14	J	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	12.7	43.7		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	190	753	E	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	0.3	1.64	U	0.65	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	41.9	195		1.03	4.67	23.4	ug/m3
71-43-2	Benzene	3.5	11.2	J	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	340	1827	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	0.8	3.01	J	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:	04/06/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	04/12/16
Client Sample ID:	INF	SDG No.:	H2506
Lab Sample ID:	H2506-02	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
VL027534.D	10		04/14/16 22:54	VL041416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	2500	16952	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	UQ	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1	10.7	UQ	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	UQ	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	9.9			65 - 135		99%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1121440		6.6				
540-36-3	1,4-Difluorobenzene	2690450		8.27				
3114-55-4	Chlorobenzene-d5	2729580		13.71				

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:	04/06/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	04/12/16
Client Sample ID:	INFDL	SDG No.:	H2506
Lab Sample ID:	H2506-02DL	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
VL027535.D	40		04/14/16 23:32	VL041416

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	11.8	UD	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	10.8	37.2	JD	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	170	674	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	39.6	184	D	4.06	18.7	93.4	ug/m3
71-43-2	Benzene	3.2	10.2	JD	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	320	1719	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:	04/06/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	04/12/16
Client Sample ID:	INFDL	SDG No.:	H2506
Lab Sample ID:	H2506-02DL	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
VL027535.D	40		04/14/16 23:32	VL041416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	4000	27124	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	UDQ	11.9	29.7	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	4	42.7	UDQ	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	UDQ	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	9.8			65 - 135		98%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1075750		6.6				
540-36-3	1,4-Difluorobenzene	2546930		8.27				
3114-55-4	Chlorobenzene-d5	2605150		13.69				

U = Not Detected

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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:	04/06/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	04/12/16
Client Sample ID:	INFDL2	SDG No.:	H2506
Lab Sample ID:	H2506-02DL2	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
VL027536.D	1200		04/15/16 00:10	VL041416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	120	593	UD	237	593	2966	ug/m3
74-87-3	Chloromethane	120	247	UD	41.7	247	1239	ug/m3
75-01-4	Vinyl Chloride	36	92.0	UD	47.0	92.0	92.0	ug/m3
74-83-9	Bromomethane	120	465	UD	84.3	465	2329	ug/m3
75-00-3	Chloroethane	120	316	UD	97.1	316	1583	ug/m3
109-99-9	Tetrahydrofuran	120	353	UD	105	353	1769	ug/m3
75-69-4	Trichlorofluoromethane	120	674	UD	160	674	3371	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	120	919	UD	141	919	4598	ug/m3
76-14-2	Dichlorotetrafluoroethane	120	838	UD	141	838	4193	ug/m3
593-60-2	Bromoethene	120	524	UD	134	524	2623	ug/m3
75-65-0	tert-Butyl alcohol	120	363	UD	157	363	1818	ug/m3
142-82-5	Heptane	120	491	UD	117	491	2458	ug/m3
75-35-4	1,1-Dichloroethene	120	475	UD	80.1	475	2378	ug/m3
67-64-1	Acetone	120	285	UD	34.0	285	1425	ug/m3
75-15-0	Carbon Disulfide	120	373	UD	89.1	373	1868	ug/m3
1634-04-4	Methyl tert-Butyl Ether	120	432	UD	66.3	432	2163	ug/m3
75-09-2	Methylene Chloride	120	416	UD	70.2	416	2084	ug/m3
156-60-5	trans-1,2-Dichloroethene	120	475	UD	80.1	475	2378	ug/m3
75-34-3	1,1-Dichloroethane	120	485	UD	57.9	485	2428	ug/m3
110-82-7	Cyclohexane	120	413	UD	98.4	413	2065	ug/m3
78-93-3	2-Butanone	120	353	UD	76.7	353	1769	ug/m3
56-23-5	Carbon Tetrachloride	36	226	UD	115	226	226	ug/m3
156-59-2	cis-1,2-Dichloroethene	300	1189	JD	86.0	475	2378	ug/m3
67-66-3	Chloroform	120	586	UD	89.9	586	2930	ug/m3
71-55-6	1,1,1-Trichloroethane	36	196	UD	78.0	196	196	ug/m3
540-84-1	2,2,4-Trimethylpentane	120	560	UD	121	560	2802	ug/m3
71-43-2	Benzene	120	383	UD	64.5	383	1916	ug/m3
107-06-2	1,2-Dichloroethane	120	485	UD	74.5	485	2428	ug/m3
79-01-6	Trichloroethene	560	3009	D	98.9	193	193	ug/m3
78-87-5	1,2-Dichloropropane	120	554	UD	462	554	2773	ug/m3
75-27-4	Bromodichloromethane	120	803	UD	135	803	4019	ug/m3
108-10-1	4-Methyl-2-Pentanone	120	491	UD	106	491	2458	ug/m3
108-88-3	Toluene	120	452	UD	53.9	452	2261	ug/m3
10061-02-6	t-1,3-Dichloropropene	120	544	UD	129	544	2723	ug/m3
10061-01-5	cis-1,3-Dichloropropene	120	544	UD	83.5	544	2723	ug/m3
79-00-5	1,1,2-Trichloroethane	120	654	UD	141	654	3273	ug/m3
124-48-1	Dibromochloromethane	120	1022	UD	121	1022	5111	ug/m3
106-93-4	1,2-Dibromoethane	120	922	UD	141	922	4611	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	04/06/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	04/12/16
Client Sample ID:	INFDL2	SDG No.:	H2506
Lab Sample ID:	H2506-02DL2	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
VL027536.D	1200		04/15/16 00:10	VL041416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	11000	74593	D	136	244	244	ug/m3
108-90-7	Chlorobenzene	120	552	UD	84.7	552	2763	ug/m3
100-41-4	Ethyl Benzene	120	521	UD	87.7	521	2606	ug/m3
179601-23-1	m/p-Xylene	240	1042	UD	159	1042	5212	ug/m3
95-47-6	o-Xylene	120	521	UD	87.7	521	2606	ug/m3
100-42-5	Styrene	120	510	UD	60.9	510	2554	ug/m3
75-25-2	Bromoform	120	1240	UD	147	1240	6203	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	120	824	UD	138	824	4120	ug/m3
95-49-8	2-Chlorotoluene	120	621	UD	95.3	621	3106	ug/m3
108-67-8	1,3,5-Trimethylbenzene	120	589	UD	145	589	2949	ug/m3
95-63-6	1,2,4-Trimethylbenzene	120	589	UD	145	589	2949	ug/m3
541-73-1	1,3-Dichlorobenzene	120	721	UD	121	721	3607	ug/m3
106-46-7	1,4-Dichlorobenzene	120	721	UD	215	721	3607	ug/m3
95-50-1	1,2-Dichlorobenzene	120	721	UD	177	721	3607	ug/m3
120-82-1	1,2,4-Trichlorobenzene	120	890	UDQ	356	890	4453	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	120	1280	UDQ	392	1280	6400	ug/m3
106-99-0	1,3-Butadiene	120	265	UD	57.5	265	1327	ug/m3
91-20-3	Naphthalene	120	629	UDQ	273	629	3145	ug/m3
622-96-8	4-Ethyltoluene	120	589	UD	90.5	589	2949	ug/m3
110-54-3	Hexane	120	422	UD	64.8	422	2114	ug/m3
107-05-1	Allyl Chloride	120	375	UD	131	375	1878	ug/m3
123-91-1	1,4-Dioxane	480	1729	UD	432	1729	2162	ug/m3
80-62-6	Methyl Methacrylate	120	491	UD	82.7	491	2456	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10			65 - 135		100%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1049860		6.6				
540-36-3	1,4-Difluorobenzene	2400190		8.27				
3114-55-4	Chlorobenzene-d5	2480660		13.68				

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.: H2506Client: Envirotrac Environmental ServicesAnalytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
H2506-01	EFF	1-Bromo-4-Fluorobenzene	10	9.57	96	65	135
H2506-02	INF	1-Bromo-4-Fluorobenzene	10	9.9	99	65	135
H2506-02DL	INFDL	1-Bromo-4-Fluorobenzene	10	9.83	98	65	135
H2506-02DL2	INFDL2	1-Bromo-4-Fluorobenzene	10	9.96	100	65	135
H2538-06DUP	OA1DUP	1-Bromo-4-Fluorobenzene	10	9.97	100	65	135
VL0414ABL01	VL0414ABL01	1-Bromo-4-Fluorobenzene	10	10.04	100	65	135
VL0414ABS01	VL0414ABS01	1-Bromo-4-Fluorobenzene	10	9.09	91	65	135

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

SDG No.: H2506

Client: Envirotrac Environmental Services

Analytical Method: SWTO-15 Datafile : VL027523.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0414ABS01	Dichlorodifluoromethane	10	10.5	ppbv	105			70	130	
	Chloromethane	10	9.2	ppbv	92			70	130	
	Vinyl Chloride	10	9.2	ppbv	92			70	130	
	Bromomethane	10	10.3	ppbv	103			70	130	
	Chloroethane	10	9.4	ppbv	94			70	130	
	Tetrahydrofuran	10	9.1	ppbv	91			70	130	
	Trichlorofluoromethane	10	10.7	ppbv	107			70	130	
	1,1,2-Trichlorotrifluoroethane	10	10.4	ppbv	104			70	130	
	Dichlorotetrafluoroethane	10	9.9	ppbv	99			70	130	
	Bromoethene	10	9.6	ppbv	96			70	130	
	tert-Butyl Alcohol	10	9.1	ppbv	91			70	130	
	Heptane	10	9.1	ppbv	91			70	130	
	1,1-Dichloroethene	10	10	ppbv	100			70	130	
	Acetone	10	8.3	ppbv	83			70	130	
	Carbon disulfide	10	9.9	ppbv	99			70	130	
	Methyl tert-butyl Ether	10	9	ppbv	90			70	130	
	Methylene Chloride	10	9.7	ppbv	97			70	130	
	trans-1,2-Dichloroethene	10	9.9	ppbv	99			70	130	
	1,1-Dichloroethane	10	9.7	ppbv	97			70	130	
	Cyclohexane	10	9	ppbv	90			70	130	
	2-Butanone	10	9.3	ppbv	93			70	130	
	Carbon Tetrachloride	10	9.7	ppbv	97			70	130	
	cis-1,2-Dichloroethene	10	9.7	ppbv	97			70	130	
	Chloroform	10	10.1	ppbv	101			70	130	
	1,1,1-Trichloroethane	10	9.8	ppbv	98			70	130	
	2,2,4-Trimethylpentane	10	8.9	ppbv	89			70	130	
	Benzene	10	9.1	ppbv	91			70	130	
	1,2-Dichloroethane	10	10.3	ppbv	103			70	130	
	Trichloroethene	10	9	ppbv	90			70	130	
	1,2-Dichloropropane	10	8.9	ppbv	89			70	130	
	Bromodichloromethane	10	9.8	ppbv	98			70	130	
	4-Methyl-2-Pentanone	10	9.2	ppbv	92			70	130	
	Toluene	10	9	ppbv	90			70	130	
	t-1,3-Dichloropropene	10	9.5	ppbv	95			70	130	
	cis-1,3-Dichloropropene	10	9.2	ppbv	92			70	130	
	1,1,2-Trichloroethane	10	9.3	ppbv	93			70	130	
	Dibromochloromethane	10	9.8	ppbv	98			70	130	
	1,2-Dibromoethane	10	9.5	ppbv	95			70	130	
	Tetrachloroethene	10	8.8	ppbv	88			70	130	
	Chlorobenzene	10	8.5	ppbv	85			70	130	
	Ethyl Benzene	10	8.5	ppbv	85			70	130	
	m/p-Xylene	20	17.1	ppbv	86			70	130	
	o-Xylene	10	8.6	ppbv	86			70	130	
	Styrene	10	8.7	ppbv	87			70	130	
	Bromoform	10	9.9	ppbv	99			70	130	
	1,1,2,2-Tetrachloroethane	10	8.2	ppbv	82			70	130	
	2-Chlorotoluene	10	8.6	ppbv	86			70	130	
	1,3,5-Trimethylbenzene	10	8.6	ppbv	86			70	130	
	1,2,4-Trimethylbenzene	10	8.7	ppbv	87			70	130	

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

SDG No.: H2506
Client: Envirotrac Environmental Services
Analytical Method: SWTO-15

Datafile : VL027523.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0414ABS01	1,3-Dichlorobenzene	10	8.9	ppbv	89			70	130	
	1,4-Dichlorobenzene	10	8.8	ppbv	88			70	130	
	1,2-Dichlorobenzene	10	8.8	ppbv	88			70	130	
	1,2,4-Trichlorobenzene	10	6.3	ppbv	63		*	70	130	
	Hexachloro-1,3-butadiene	10	6	ppbv	60		*	70	130	
	Naphthalene	10	6.1	ppbv	61		*	70	130	
	1,3-Butadiene	10	8.8	ppbv	88			70	130	
	4-Ethyltoluene	10	8.6	ppbv	86			70	130	
	Hexane	10	9.2	ppbv	92			70	130	
	Allyl Chloride	10	9.4	ppbv	94			70	130	
	1,4-Dioxane	10	9.3	ppbv	93			70	130	
	Methyl methacrylate	10	9.2	ppbv	92			70	130	

Duplicate Sample Summary

Lab Sample Id :	H2538-06DUP	H2538-06
Client Id :	OA1DUP	OA1
DF :	1	1
Datafile :	VL027538.D	VL027537.D
Anal Date & Time :	04/15/2016 01:32	04/15/2016 00:51

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	0	0	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	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	0.13	0.13	0
2-Butanone	0.17	0.17	0
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	2.9	3	3.4
Allyl Chloride	0	0	0
Benzene	0.23	0.23	0
Bromodichloromethane	0	0	0
Bromoethene	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0

Duplicate Sample Summary

Lab Sample Id :	H2538-06DUP	H2538-06
Client Id :	OA1DUP	OA1
DF :	1	1
Datafile :	VL027538.D	VL027537.D
Anal Date & Time :	04/15/2016 01:32	04/15/2016 00:51

Parameter	Result	Result	RPD
Carbon Tetrachloride	0.06	0.06	0
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.53	0.53	0
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.34	0.39	13.7
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0.12	0.12	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0	0	0
m/p-Xylene	0.29	0.28	3.5
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0.65	0.64	1.6
Naphthalene	0	0	0
o-Xylene	0.1	0.1	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.06	0.08	28.6 *
Tetrahydrofuran	0	0	0
Toluene	0.72	0.73	1.4
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.25	0.24	4.1
Vinyl Chloride	0	0	0

Duplicate Sample Summary

Lab Sample Id :

H2538-06DUP

H2538-06

Client Id :

OA1DUP

OA1

DF :

1

1

Datafile :

VL027538.D

VL027537.D

Anal Date & Time :

04/15/2016

01:32

04/15/2016

00:51

Parameter	Result	Result	RPD

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0414ABL01

Lab Name: CHEMTECH

Contract: ENVI27

Lab Code: CHEM Case No.: H2506

SAS No.: H2506 SDG NO.: H2506

Lab File ID: VL027522.D

Lab Sample ID: VL0414ABL01

Date Analyzed: 04/14/2016

Time Analyzed: 15:03

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
VL0414ABS01	VL0414ABS01	VL027523.D	04/14/2016
EFF	H2506-01	VL027525.D	04/14/2016
INF	H2506-02	VL027534.D	04/14/2016
INFDL	H2506-02DL	VL027535.D	04/14/2016
INFDL2	H2506-02DL2	VL027536.D	04/15/2016
OA1DUP	H2538-06DUP	VL027538.D	04/15/2016

COMMENTS:

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>ENVI27</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>H2506</u>
Lab File ID:	<u>VL027452.D</u>	SAS No.:	<u>H2506</u>
Instrument ID:	<u>MSVOA_L</u>	SDG NO.:	<u>H2506</u>
GC Column:	<u>RTX-1</u>	BFB Injection Date:	<u>04/07/2016</u>
ID:	<u>0.32</u> (mm)	BFB Injection Time:	<u>17:31</u>
		Heated Purge:	<u>Y/N</u>
			<u>N</u>

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.2
75	30.0 - 66.0% of mass 95	54.6
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	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	64.4
175	4.0 - 9.0% of mass 174	4.9 (7.6) 1
176	93.0 - 101.0% of mass 174	62.6 (97.2) 1
177	5.0 - 9.0% of mass 176	4 (6.5) 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	VL027453.D	04/07/2016	18:10
VSTDICCC002	VSTDICCC002	VL027454.D	04/07/2016	18:52
VSTDICCC001	VSTDICCC001	VL027455.D	04/07/2016	19:30
VSTDICCC0.5	VSTDICCC0.5	VL027456.D	04/07/2016	20:09
VSTDICCC0.1	VSTDICCC0.1	VL027457.D	04/07/2016	20:47
VSTDICCC0.03	VSTDICCC0.03	VL027458.D	04/07/2016	21:26
VSTDICCC015	VSTDICCC015	VL027459.D	04/07/2016	22:07

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ENVI27
Lab Code: CHEM Case No.: H2506 SAS No.: H2506 SDG NO.: H2506
Lab File ID: VL027520.D BFB Injection Date: 04/14/2016
Instrument ID: MSVOA_L BFB Injection Time: 11:54
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	23.2
75	30.0 - 66.0% of mass 95	56.2
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	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	64.3
175	4.0 - 9.0% of mass 174	4.7 (7.3) 1
176	93.0 - 101.0% of mass 174	61.5 (95.7) 1
177	5.0 - 9.0% of mass 176	4.1 (6.6) 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	VL027521.D	04/14/2016	13:24
VL0414ABL01	VL0414ABL01	VL027522.D	04/14/2016	15:03
VL0414ABS01	VL0414ABS01	VL027523.D	04/14/2016	15:42
EFF	H2506-01	VL027525.D	04/14/2016	17:03
INF	H2506-02	VL027534.D	04/14/2016	22:54
INFDL	H2506-02DL	VL027535.D	04/14/2016	23:32
INFDL2	H2506-02DL2	VL027536.D	04/15/2016	00:10
OA1DUP	H2538-06DUP	VL027538.D	04/15/2016	01:32

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H2506 SAS No.: H2506 SDG NO.: H2506
 Lab File ID: VL027521.D Date Analyzed: 04/14/2016
 Instrument ID: MSVOA_L Time Analyzed: 13:24
 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	1276930	6.62	3293570	8.29	3726500	13.70
UPPER LIMIT	1787710	6.95	4610990	8.62	5217100	14.03
LOWER LIMIT	766160	6.29	1976140	7.96	2235900	13.37
EPA SAMPLE NO.						
EFF	1180359	6.62	2793687	8.29	2955306	13.70
INF	1121444	6.60	2690449	8.27	2729583	13.71
INFDL	1075752	6.60	2546934	8.27	2605153	13.69
INFDL2	1049864	6.60	2400185	8.27	2480664	13.68
OA1DUP	1008613	6.60	2338279	8.27	2376986	13.68
VL0414ABL01	1258893	6.62	3013794	8.28	3140527	13.69
VL0414ABS01	1202951	6.62	3029182	8.29	3589044	13.71

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:	VL0414ABL01	SDG No.:	H2506
Lab Sample ID:	VL0414ABL01	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
VL027522.D	1		04/14/16 15:03	VL041416

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	0.1	0.24	U	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	0.1	0.35	U	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:	VL0414ABL01	SDG No.:	H2506
Lab Sample ID:	VL0414ABL01	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
VL027522.D	1		04/14/16 15:03	VL041416

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	10			65 - 135		100%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1258890		6.62				
540-36-3	1,4-Difluorobenzene	3013790		8.28				
3114-55-4	Chlorobenzene-d5	3140530		13.69				

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:	VL0414ABS01	SDG No.:	H2506
Lab Sample ID:	VL0414ABS01	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
VL027523.D	1		04/14/16 15:42	VL041416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	10.5	51.9		0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	9.2	19		0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9.2	23.5		0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	10.3	40		0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	9.4	24.8		0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.1	26.8		0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	10.7	60.1		0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	10.4	79.7		0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.9	69.2		0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	9.6	42.0		0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	9.1	27.6		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	9.1	37.3		0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	10	39.6		0.08	0.4	1.98	ug/m3
67-64-1	Acetone	8.3	19.7		0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	9.9	30.8		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9	32.4		0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	9.7	33.7		0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.9	39.2		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	9	31.0		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	9.3	27.4		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.7	61.0		0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.7	38.5		0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	10.1	49.3		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.8	53.5		0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	8.9	41.6		0.09	0.47	2.34	ug/m3
71-43-2	Benzene	9.1	29.1		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	48.4		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	8.9	41.1		0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	9.8	65.6		0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.2	37.7		0.08	0.41	2.05	ug/m3
108-88-3	Toluene	9	33.9		0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.5	43.1		0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	9.2	41.8		0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	9.3	50.7		0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	9.8	83.5		0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.5	73.0		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:	VL0414ABS01	SDG No.:	H2506
Lab Sample ID:	VL0414ABS01	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
VL027523.D	1		04/14/16 15:42	VL041416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	8.8	59.7		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	8.5	39.2		0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	8.5	36.9		0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	17.1	74.3		0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	8.6	37.4		0.09	0.43	2.17	ug/m3
100-42-5	Styrene	8.7	37.0		0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	9.9	102		0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	8.2	56.3		0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	8.6	44.5		0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	8.6	42.3		0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	8.7	42.8		0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	8.9	53.5		0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	8.8	52.9		0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	8.8	52.9		0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	6.3	46.8		0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	6	64		0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	8.8	19.5		0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	6.1	32.0		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	8.6	42.3		0.1	0.49	2.46	ug/m3
110-54-3	Hexane	9.2	32.4		0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	9.4	29.4		0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	9.3	33.5		0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	9.2	37.7		0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.1			65 - 135		91%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1202950		6.62				
540-36-3	1,4-Difluorobenzene	3029180		8.29				
3114-55-4	Chlorobenzene-d5	3589040		13.71				

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.: H2506 SAS No.: H2506 SDG No.: H2506
 Instrument ID: MSVOA_L Calibration Date(s): 04/07/2016 04/07/2016
 Heated Purge: (Y/N) N Calibration Time(s): 18:10 22:07
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:	RRF010 = VL027453.D	RRF002 = VL027454.D	RRF001 = VL027455.D					
	RRF0.5 = VL027456.D	RRF0.1 = VL027457.D	RRF.03 = VL027458.D					
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Dichlorodifluoromethane	1.198	1.055	1.271	1.388			1.183	13.2
Chloromethane	0.694	0.650	0.708	0.677			0.679	3.4
Vinyl Chloride	0.703	0.645	0.689	0.670	0.717	0.824	0.701	8.5
Bromomethane	0.454	0.430	0.454	0.451			0.445	2.5
Chloroethane	0.305	0.290	0.292	0.293			0.293	2.4
Tetrahydrofuran	0.405	0.421	0.424	0.414			0.409	4.3
Trichlorofluoromethane	1.739	1.666	1.739	1.719			1.702	2.5
1,1,2-Trichlorotrifluoroethane	1.151	1.150	1.190	1.174			1.148	3.8
Dichlorotetrafluoroethane	1.544	1.525	1.613	1.607			1.547	4.5
Bromoethene	0.489	0.485	0.501	0.514			0.491	3.4
tert-Butyl alcohol	1.222	1.134	1.066	1.070			1.117	5.8
Heptane	1.981	2.060	2.090	2.061			2.015	4.2
1,1-Dichloroethene	0.554	0.554	0.550	0.537			0.542	2.9
Acetone	1.173	1.454	1.513	1.485			1.348	13.9
Carbon Disulfide	1.621	1.563	1.554	1.477			1.548	3.4
Methyl tert-Butyl Ether	2.203	2.191	2.232	2.148			2.169	2.9
Methylene Chloride	0.509	0.530	0.528	0.566			0.521	6.6
trans-1,2-Dichloroethene	0.721	0.721	0.708	0.666			0.702	3.2
1,1-Dichloroethane	1.601	1.625	1.642	1.558			1.589	3.2
Cyclohexane	1.214	1.221	1.263	1.282			1.226	4.1
2-Butanone	0.665	0.711	0.718	0.704			0.683	6.3
Carbon Tetrachloride	0.664	0.696	0.684	0.691	0.694	0.857	0.702	10.3
cis-1,2-Dichloroethene	1.197	1.188	1.189	1.176			1.182	1.3
Chloroform	1.718	1.718	1.734	1.747			1.721	1.3
1,1,1-Trichloroethane	1.731	1.737	1.746	1.700	1.712	1.958	1.752	5.4
2,2,4-Trimethylpentane	1.745	2.052	2.071	2.085			1.900	12.8
Benzene	1.077	1.177	1.194	1.201			1.127	8.4
1,2-Dichloroethane	0.543	0.568	0.571	0.570			0.555	3.9
Trichloroethene	0.398	0.436	0.440	0.451	0.461	0.539	0.441	12.3
1,2-Dichloropropane	0.398	0.424	0.424	0.426			0.410	5.3
Bromodichloromethane	0.764	0.813	0.804	0.776			0.777	4.4
4-Methyl-2-Pentanone	0.906	0.993	0.980	0.967			0.940	6.1
Toluene	1.331	1.459	1.476	1.477			1.393	8.2

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H2506 SAS No.: H2506 SDG No.: H2506
 Instrument ID: MSVOA_L Calibration Date(s): 04/07/2016 04/07/2016
 Heated Purge: (Y/N) N Calibration Time(s): 18:10 22:07
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:	RRF010 = VL027453.D	RRF002 = VL027454.D	RRF001 = VL027455.D					
	RRF0.5 = VL027456.D	RRF0.1 = VL027457.D	RRF.03 = VL027458.D					
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
t-1,3-Dichloropropene	0.594	0.599	0.571	0.537			0.573	4.4
cis-1,3-Dichloropropene	0.702	0.737	0.731	0.690			0.704	4.5
1,1,2-Trichloroethane	0.437	0.465	0.463	0.463			0.448	5.1
Dibromochloromethane	0.669	0.677	0.652	0.619			0.650	3.7
1,2-Dibromoethane	0.650	0.691	0.675	0.657			0.658	4.4
Tetrachloroethene	0.420	0.451	0.439	0.440	0.430	0.563	0.448	12.1
Chlorobenzene	0.940	0.989	1.019	1.058			0.976	7.4
Ethyl Benzene	1.621	1.754	1.830	1.828			1.711	7.9
m/p-Xylene	1.252	1.388	1.442	1.460			1.341	9.7
o-Xylene	1.291	1.433	1.487	1.506			1.383	9.6
Styrene	0.616	0.624	0.622	0.586			0.609	2.8
Bromoform	0.534	0.540	0.505	0.455			0.510	6.6
1,1,2,2-Tetrachloroethane	0.851	0.935	0.973	0.985	0.925	1.220	0.955	14.1
2-Chlorotoluene	1.372	1.413	1.452	1.457			1.387	6.3
1,3,5-Trimethylbenzene	1.386	1.426	1.479	1.469			1.402	6.6
1,2,4-Trimethylbenzene	1.377	1.484	1.525	1.558			1.434	9.3
1,3-Dichlorobenzene	0.873	0.865	0.888	0.862			0.856	4.2
1,4-Dichlorobenzene	0.898	0.885	0.894	0.872			0.874	3.6
1,2-Dichlorobenzene	0.864	0.864	0.878	0.852			0.850	4.1
1,2,4-Trichlorobenzene	0.515	0.582	0.563	0.532			0.531	8.8
Hexachloro-1,3-Butadiene	0.405	0.460	0.460	0.463			0.429	10.7
1,3-Butadiene	0.672	0.701	0.748	0.720			0.694	6.5
Naphthalene	1.174	1.318	1.294	1.196			1.205	9
4-Ethyltoluene	1.488	1.517	1.552	1.538			1.485	6.1
1-Bromo-4-Fluorobenzene	0.767	0.727	0.746	0.765	0.759	0.799	0.765	3.2
Hexane	1.317	1.401	1.435	1.433			1.365	6.3
Allyl Chloride	0.974	0.915	0.951	0.958			0.944	2.7
1,4-Dioxane	64.368	72.818	64.811	57.697			63.316	10.2
Methyl Methacrylate	0.420	0.435	0.424	0.425			0.420	3.4

* 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.

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

Method File : VL040716AIR.M

Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Apr 08 03:05:20 2016

Last Update : Fri Apr 08 03:05:20 2016

Response Via : Initial Calibration

Calibration Files

0.03=VL027458.D 0.1 =VL027457.D 0.5 =VL027456.D 1 =VL027455.D 2 =VL027454.D 10 =VL027453.D 15 =VL027459.D

	Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...		1.388	1.271	1.055	1.198	1.005	1.183	13.23	
3)	Chlorodifluoro...		1.306	1.278	1.218	1.132	1.072	1.201	8.21	
4)	Chloromethane		0.677	0.708	0.650	0.694	0.667	0.679	3.35	
5) T	Vinyl Chloride	0.824	0.717	0.670	0.689	0.645	0.703	0.662	0.701	8.46
6) T	Bromomethane		0.451	0.454	0.430	0.454	0.438	0.445	2.46	
7)	Chloroethane		0.293	0.292	0.290	0.305	0.286	0.293	2.44	
8) T	Dichlorotetra...		1.607	1.613	1.525	1.544	1.444	1.547	4.47	
9) T	Propene		0.639	0.662	0.617	0.605	0.576	0.620	5.26	
10) T	Heptane		2.061	2.090	2.060	1.981	1.883	2.015	4.17	
11) T	Trichlorofluor...		1.719	1.739	1.666	1.739	1.647	1.702	2.51	
12) T	1,1,2-Trichlor...		1.174	1.190	1.150	1.151	1.075	1.148	3.84	
13)	Ethanol		0.112	0.087	0.081	0.070	0.064	0.083	22.30	
14) T	Bromoethene		0.514	0.501	0.485	0.489	0.469	0.491	3.42	
15) T	Acetone		1.485	1.513	1.454	1.173	1.116	1.348	13.95	
16) T	1,3-Butadiene		0.720	0.748	0.701	0.672	0.630	0.694	6.53	
17)	tert-Butyl alc...		1.070	1.066	1.134	1.222	1.095	1.117	5.79	
18) T	1,1-Dichloroet...		0.537	0.550	0.554	0.554	0.517	0.542	2.93	
19) T	Isopropyl Alcohol		0.618	0.583	0.594	0.646	0.583	0.605	4.47	
20) T	Methylene Chlo...		0.566	0.528	0.530	0.509	0.472	0.521	6.60	
21) T	Allyl Chloride		0.958	0.951	0.915	0.974	0.921	0.944	2.68	
22) T	trans-1,2-Dich...		0.666	0.708	0.721	0.721	0.696	0.702	3.22	
23) T	Vinyl Acetate		2.559	2.708	2.708	2.632	2.531	2.628	3.13	
24) T	1,1-Dichloroet...		1.558	1.642	1.625	1.601	1.517	1.589	3.21	
25) T	Ethyl Acetate		2.905	2.900	2.825	2.703	2.561	2.779	5.28	
26) T	Hexane		1.433	1.435	1.401	1.317	1.237	1.365	6.30	
27) T	Carbon Disulfide		1.477	1.554	1.563	1.621	1.525	1.548	3.40	
28) T	Methyl tert-Bu...		2.148	2.232	2.191	2.203	2.072	2.169	2.86	
29) T	Chloroform		1.747	1.734	1.718	1.718	1.687	1.721	1.30	
30) T	Cyclohexane		1.282	1.263	1.221	1.214	1.151	1.226	4.12	
31) T	cis-1,2-Dichlo...		1.176	1.189	1.188	1.197	1.158	1.182	1.28	
32) T	1,1,1-Trichlor...	1.958	1.712	1.700	1.746	1.737	1.731	1.680	1.752	5.35
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone		0.704	0.718	0.711	0.665	0.615	0.683	6.29	
35) T	Carbon Tetrach...	0.857	0.694	0.691	0.684	0.696	0.664	0.626	0.702	10.35
36) T	Benzene		1.201	1.194	1.177	1.077	0.984	1.127	8.36	
37) T	1,2-Dichloroet...		0.570	0.571	0.568	0.543	0.523	0.555	3.86	

Method	Path : W:\HPCHEM1\MSVOA_L\METHODS\									
Method	File : VL040716AIR.M									
38) T	Trichloroethene	0.539	0.461	0.451	0.440	0.436	0.398	0.365	0.441	12.28
39) T	1,2-Dichloropr...			0.426	0.424	0.424	0.398	0.376	0.410	5.32
40) T	1,4-Dioxane			0.058	0.065	0.073	0.064	0.057	0.063	10.19
41) T	Tetrahydrofuran			0.414	0.424	0.421	0.405	0.380	0.409	4.26
42) T	Bromodichlorom...			0.776	0.804	0.813	0.764	0.727	0.777	4.40
43)	Methyl Methacr...			0.425	0.424	0.435	0.420	0.397	0.420	3.38
44) T	2,2,4-Trimethy...			2.085	2.071	2.052	1.745	1.546	1.900	12.77
45) T	t-1,3-Dichloro...			0.537	0.571	0.599	0.594	0.565	0.573	4.37
46) T	cis-1,3-Dichlo...			0.690	0.731	0.737	0.702	0.660	0.704	4.47
47) T	1,1,2-Trichlor...			0.463	0.463	0.465	0.437	0.413	0.448	5.11
48) T	Dibromochlorom...			0.619	0.652	0.677	0.669	0.633	0.650	3.73
49) T	Bromoform			0.455	0.505	0.540	0.534	0.514	0.510	6.60
50) T	4-Methyl-2-Pen...			0.967	0.980	0.993	0.906	0.856	0.940	6.13
51) T	2-Hexanone			0.819	0.916	0.917	0.862	0.821	0.867	5.56
52) T	Tetrachloroethene	0.563	0.430	0.440	0.439	0.451	0.420	0.392	0.448	12.09
53) T	Toluene			1.477	1.476	1.459	1.331	1.221	1.393	8.16
54) T	1,2-Dibromoethane			0.657	0.675	0.691	0.650	0.615	0.658	4.39
55) I	Chlorobenzene-d5	-----ISTD-----								
56)	1,1,1,2-Tetrac...			0.453	0.463	0.452	0.436	0.413	0.443	4.37
57) T	Chlorobenzene			1.058	1.019	0.989	0.940	0.873	0.976	7.36
58) T	Ethyl Benzene			1.828	1.830	1.754	1.621	1.522	1.711	7.93
59) T	m/p-Xylene			1.460	1.442	1.388	1.252	1.160	1.341	9.66
60) T	o-Xylene			1.506	1.487	1.433	1.291	1.200	1.383	9.60
61) T	Styrene			0.586	0.622	0.624	0.616	0.595	0.609	2.79
62)	Isopropylbenzene			1.909	1.901	1.823	1.702	1.564	1.780	8.24
63) T	1,1,2,2-Tetrac...	1.220	0.925	0.985	0.973	0.935	0.851	0.796	0.955	14.10
64)	n-propylbenzene			0.478	0.498	0.488	0.483	0.438	0.477	4.85
65)	tert-Butylbenzene			1.687	1.684	1.610	1.535	1.358	1.575	8.66
66) T	Benzyl Chloride			0.520	0.568	0.608	0.655	0.587	0.587	8.46
67)	sec-Butylbenzene			2.352	2.355	2.295	2.148	1.875	2.205	9.20
68) S	1-Bromo-4-Fluo...	0.799	0.759	0.765	0.746	0.727	0.767	0.791	0.765	3.22
69)	p-Isopropyltol...			1.838	1.904	1.849	1.777	1.571	1.788	7.22
70)	n-Butylbenzene			1.978	1.973	1.917	1.785	1.566	1.844	9.42
71)	2-Chlorotoluene			1.457	1.452	1.413	1.372	1.242	1.387	6.35
72) T	4-Ethyltoluene			1.538	1.552	1.517	1.488	1.328	1.485	6.13
73) T	1,3,5-Trimethy...			1.469	1.479	1.426	1.386	1.251	1.402	6.60
74) T	1,2,4-Trimethy...			1.558	1.525	1.484	1.377	1.229	1.434	9.32
75) T	1,3-Dichlorobe...			0.862	0.888	0.865	0.873	0.794	0.856	4.23
76) T	1,4-Dichlorobe...			0.872	0.894	0.885	0.898	0.821	0.874	3.55
77) T	1,2-Dichlorobe...			0.852	0.878	0.864	0.864	0.790	0.850	4.08
78) T	Hexachloro-1,3...			0.463	0.460	0.460	0.405	0.360	0.429	10.73
79) T	Naphthalene			1.196	1.294	1.318	1.174	1.045	1.205	9.01
80) T	Naphthalene,2-...			0.184	0.195	0.221	0.195	0.189	0.197	7.22
81) T	1,2,4-Trichlor...			0.532	0.563	0.582	0.515	0.462	0.531	8.80

(#) = Out of Range

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H2506 SAS No.: H2506 SDG No.: H2506
 Instrument ID: MSVOA_L Calibration Date/Time: 04/14/2016 13:24
 Lab File ID: VL027521.D Init. Calib. Date(s): 04/07/2016 04/07/2016
 Heated Purge: (Y/N) N Init. Calib. Time(s): 18:10 22:07
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.183	0.997		-15.79	30
Chloromethane	0.679	0.669		-1.56	30
Vinyl Chloride	0.701	0.675		-3.81	30
Bromomethane	0.445	0.458		2.74	30
Chloroethane	0.293	0.290		-1.16	30
Tetrahydrofuran	0.409	0.392		-4.18	30
Trichlorofluoromethane	1.702	1.845		8.39	30
1,1,2-Trichlorotrifluoroethane	1.148	1.221		6.31	30
Dichlorotetrafluoroethane	1.547	1.553		0.39	30
Bromoethene	0.491	0.504		2.48	30
tert-Butyl alcohol	1.117	1.082		-3.14	30
Heptane	2.015	1.912		-5.1	30
1,1-Dichloroethene	0.542	0.563		3.85	30
Acetone	1.348	1.193		-11.56	30
Carbon Disulfide	1.548	1.605		3.71	30
Methyl tert-Butyl Ether	2.169	2.113		-2.61	30
Methylene Chloride	0.521	0.531		1.88	30
trans-1,2-Dichloroethene	0.702	0.733		4.3	30
1,1-Dichloroethane	1.589	1.614		1.57	30
Cyclohexane	1.226	1.183		-3.5	30
2-Butanone	0.683	0.665		-2.62	30
Carbon Tetrachloride	0.702	0.694		-1.14	30
cis-1,2-Dichloroethene	1.182	1.207		2.1	30
Chloroform	1.721	1.828		6.23	30
1,1,1-Trichloroethane	1.752	1.802		2.83	30
2,2,4-Trimethylpentane	1.900	1.757		-7.52	30
Benzene	1.127	1.065		-5.5	30
1,2-Dichloroethane	0.555	0.582		4.92	30
Trichloroethene	0.441	0.415		-6.01	30
1,2-Dichloropropane	0.410	0.388		-5.22	30
Bromodichloromethane	0.777	0.782		0.72	30
4-Methyl-2-Pentanone	0.940	0.891		-5.3	30
Toluene	1.393	1.311		-5.86	30
t-1,3-Dichloropropene	0.573	0.574		0.23	30
cis-1,3-Dichloropropene	0.704	0.679		-3.63	30
1,1,2-Trichloroethane	0.448	0.434		-3.08	30
Dibromochloromethane	0.650	0.660		1.59	30
1,2-Dibromoethane	0.658	0.644		-2.01	30
Tetrachloroethene	0.448	0.411		-8.24	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.: H2506 SAS No.: H2506 SDG No.: H2506
 Instrument ID: MSVOA_L Calibration Date/Time: 04/14/2016 13:24
 Lab File ID: VL027521.D Init. Calib. Date(s): 04/07/2016 04/07/2016
 Heated Purge: (Y/N) N Init. Calib. Time(s): 18:10 22:07
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.976	1.022		4.74	30
Ethyl Benzene	1.711	1.769		3.39	30
m/p-Xylene	1.341	1.398		4.3	30
o-Xylene	1.383	1.429		3.33	30
Styrene	0.609	0.642		5.55	30
Bromoform	0.510	0.523		2.65	30
1,1,2,2-Tetrachloroethane	0.955	0.938		-1.81	30
2-Chlorotoluene	1.387	1.400		0.92	30
1,3,5-Trimethylbenzene	1.402	1.426		1.72	30
1,2,4-Trimethylbenzene	1.434	1.453		1.25	30
1,3-Dichlorobenzene	0.856	0.882		3.02	30
1,4-Dichlorobenzene	0.874	0.907		3.78	30
1,2-Dichlorobenzene	0.850	0.863		1.53	30
1,2,4-Trichlorobenzene	0.531	0.403		-24.09	30
Hexachloro-1,3-Butadiene	0.429	0.313		-27.15	30
1,3-Butadiene	0.694	0.629		-9.4	30
Naphthalene	1.205	0.848		-29.61	30
4-Ethyltoluene	1.485	1.522		2.48	30
1-Bromo-4-Fluorobenzene	0.765	0.805		5.28	30
Hexane	1.365	1.322		-3.09	30
Allyl Chloride	0.944	0.933		-1.18	30
1,4-Dioxane	63.316	58.493		-7.62	30
Methyl Methacrylate	0.420	0.407		-3	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 : B1604004				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						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:																			
City : Yaphank						Analysis Turnaround Time				Data Package Type :															
State : NY						Standard : 15 business days OR				EDD Type :															
Zip Code : 11980						Rush (Specify): _____ Days																			
Country :																									
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											
INF	4/6/16 11:10							-30	9.2	NR	10656	1.4 L	NA	VL024449.D	X										
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <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> GC/MS Analyst Signature (TO-15)											Ambient	Maximum	Minimum	Start				Stop							
	Ambient	Maximum	Minimum																						
Start																									
Stop																									
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <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> ** Submittal of this COC indicates approval of the analysis based on existing condition Please follow the instructions on the back of this CO											Ambient	Maximum	Minimum	Start				Stop							
	Ambient	Maximum	Minimum																						
Start																									
Stop																									
Special Instructions/QC Requirements & Comments :																									
Suspected Contamination: High Medium Low PID Readings:																									
Sampling site (State):																									
Quick Connector required : <i>yes</i>																									
Canisters Shipped by: <i>JK</i>				Date/Time: <i>4/14/16</i>				Canisters Received by: <i>CLB</i>				Date/Time: <i>4/12/16 11:00</i>				B1604004 - 1									
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>4/16/16 12:00</i>				Received by:				Date/Time:													
Relinquished by:				Date/Time:				Received by:				Date/Time:													

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	
INTERNAL		Title: Sample Custodian	
Field Sample Seal No.: H2506		Date Broken 4/12/2016	
Case No.: Frost Street Sites / SPGL 1		Military Time Seal Broken: 11:00:00	
		Analytical Parameter/Fraction: SUMMA Canister Rental	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
H2506-01	EFF		
H2506-02	INF		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
4/13/16	6:15	Signature: <i>[Signature]</i> Printed Name: STEPHAN MCMANUS	Signature: <i>[Signature]</i> Printed Name: JIM L	14 IN 1 MTS
		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