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

November 10, 2015

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

Re: Progress Report: October 2015
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 October 2015.

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 October 19, 2015 using Summa canisters. These samples were obtained by EnviroTrac. Samples were submitted to Chemtech, and analyzed by Method TO-15. Results are included in **Appendix B**.
- Repairs to the AS-4 well were completed on Monday, October 4, 2015.

Quarterly/Annual Groundwater Monitoring

- The third quarter 2015 (annual) groundwater sampling event was completed during the week of September 28, 2015. Groundwater gauging was performed on October 4, 2015 due to inclement weather the previous week.
 - o The samples are being validated by a third party data validator and the EDD is expected to be submitted in December 2015. Results will also be presented in the annual groundwater monitoring report.

Upcoming Work

- The soil vapor intrusion investigation at the Century 21 building, as proposed in the September 25, 2015 work plan, will be implemented as follows:
 - o Collect initial samples and shut down system – November 10, 2015
 - o Collect samples after system is off – at least 60 days after system shutdown
 - o Turn system back on – immediately after 60-day samples are collected
 - o Review and report data and evaluate next steps, if any – within two weeks of receipt of results from laboratory

Reports and Work Plans

- The Frost Street Parties submitted a Supplemental Investigation/Focused Feasibility Study Work Plan in March 2015. NYSDEC has indicated they will not review the work plan.
- The Frost Street Parties submitted a Request to Reduce Monitoring Well Sampling on June 15, 2015. Following up on a phone call with you on July 29, 2015, the Frost Street Parties have submitted data via electronic mail for the Q3 2014, Q4 2014, Q1 2015, and Q2 2015 sample events in electronic data deliverable format. Reports for the Q4 2015, Q1 2015, and Q2 2015 events were submitted on September 23, 2015. Once you have an opportunity to review the data, we would like to resume discussions on the topic.
- The Frost Street Parties submitted a Plan of Action on October 20, 2015. We have not yet received any comments on the Plan of Action.

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.

Copies: A. Tamuno, Esq.	<i>Via email to amtamuno@gw.dec.state.ny.us</i>
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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-Oct
 Weather / Temp: Clear / 60 DEG
 Technician / Operator: DW

Arrival Time: 11:00
 Departure Time: 12:30

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		OFF		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		ON		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500		884		Blower 1 Total Runtime (hrs)	40,647.6			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	41,904.8			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3.5				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	62				VGAC-1 Influent PID (ppm)	16.8			
VGAC-1 Effluent Vacuum ("H2O)	60				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	60				VGAC-2 Influent PID (ppm)	16.8			
VGAC-2 Effluent Vacuum ("H2O)	56				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Vacuum ("H2O)	64				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Vacuum ("H2O)	69				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temperature (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	7								
Transfer Pump Total Runtime (hrs)	25,020.5				Condensate Storage Tank Level (gal)	180			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	44	7000	153		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	36	4300	94	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	46	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	36	5000	109		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	36	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	36	4400	96		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	36	3000	65	
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)	188			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	13,932.0			
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)	16		8	
AS-2 (psi)/(cfm)	15		8		AS-12B (psi)/(cfm)	14		8	
AS-3 (psi)/(cfm)	15		8		AS-13B (psi)/(cfm)	15		8	
AS-4 (psi)/(cfm)	Off		Off		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)	13		8	
AS-7 (psi)/(cfm)	14.5		8		AS-17 (psi)/(cfm)	15		8	
AS-8 (psi)/(cfm)	15		8		AS-18 (psi)/(cfm)	15		8	
AS-9 (psi)/(cfm)	15		8		AS-19 (psi)/(cfm)	15		8	
AS-10B (psi)/(cfm)	14.5		8						

Notes, Comments & Observations:

Compressor 1 off for repairs.

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: 5-Oct
Weather / Temp: Clear / 65 DEG
Technician / Operator: DW, JW

Arrival Time: 7:30
Departure Time: 13:30

System Status									
	Arrival	Departure		Arrival	Departure				
SVE Blower 1 (ON/OFF)	ON	OFF	Sensaphone (ON/OFF)	ON	ON				
SVE Blower 2 (ON/OFF)	OFF	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	OFF							
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/cfm)	4500	884	Blower 1 Total Runtime (hrs)	40,694.3					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	41,957.6					
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0					
Moisture Separator Vacuum ("Hg)	3.5		Blower 2 Air Filter Differential Pressure ("H2O)	0					
VGAC-1 Influent Vacuum ("H2O)	64		VGAC-1 Influent PID (ppm)	17.1					
VGAC-1 Effluent Vacuum ("H2O)	60		VGAC-1 Effluent PID (ppm)	0.0					
VGAC-2 Influent Vacuum ("H2O)	60		VGAC-2 Influent PID (ppm)	17.1					
VGAC-2 Effluent Vacuum ("H2O)	58		VGAC-2 Effluent PID (ppm)	0.0					
VGAC-3 Influent Vacuum ("H2O)	65		VGAC-3 Influent PID (ppm)	0.0					
VGAC-3 Effluent Vacuum ("H2O)	70		VGAC-3 Effluent PID (ppm)	0.0					
VGAC-3 Influent Temperature (DegF)	NA		Blower Effluent PID (ppm)	0.0					
Blower Effluent Pressure ("H2O)	7								
Transfer Pump Total Runtime (hrs)	25,020.5		Condensate Storage Tank Level (gal)	180					
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	44	7000	153		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	36	4300	94	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	45	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	38	5000	109		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	36	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	37	4500	98		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	3100	68	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	93			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	203			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	14,026.0			
Manifold Regulator Pressure (psi)	80								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	15		8		AS-11 (psi)/(cfm)	16		8	
AS-2 (psi)/(cfm)	15		8		AS-12B (psi)/(cfm)	15		8	
AS-3 (psi)/(cfm)	15		8		AS-13B (psi)/(cfm)	14		8	
AS-4 (psi)/(cfm)	Off		Off		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)	13		8	
AS-7 (psi)/(cfm)	15		8		AS-17 (psi)/(cfm)	15		8	
AS-8 (psi)/(cfm)	15		8		AS-18 (psi)/(cfm)	15		8	
AS-9 (psi)/(cfm)	15		8		AS-19 (psi)/(cfm)	15		8	
AS-10B (psi)/(cfm)	15		8						

Notes, Comments & Observations:

Compressor 1 off for repairs.

Repaired AS-4, installed non-slip mat on container floor.

Shut system off for GW monitoring event.

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

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

Date: 14-Oct
 Weather / Temp: Clear / 60 DEG
 Technician / Operator: DW

Arrival Time: 11:00
 Departure Time: 12:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/cfm)	4400		864		Blower 1 Total Runtime (hrs)	40,794.2			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	42,003.8			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3.5				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	64				VGAC-1 Influent PID (ppm)	20.0			
VGAC-1 Effluent Vacuum ("H2O)	60				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)	60				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Vacuum ("H2O)	64				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Vacuum ("H2O)	68				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temperature (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	7.6								
Transfer Pump Total Runtime (hrs)	25,020.5				Condensate Storage Tank Level (gal)	180			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	42	7000	153		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	36	4200	92	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	44	4000	87		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	36	3000	65	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	36	4200	92		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	36	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	36	4800	105		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	78			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	198			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	14,172.0			
Manifold Regulator Pressure (psi)	60								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	15		8		AS-11 (psi)/(cfm)	16		8	
AS-2 (psi)/(cfm)	15		8		AS-12B (psi)/(cfm)	14		8	
AS-3 (psi)/(cfm)	15		8		AS-13B (psi)/(cfm)	15		8	
AS-4 (psi)/(cfm)	15		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)	15		8	
AS-7 (psi)/(cfm)	14.5		8		AS-17 (psi)/(cfm)	15		8	
AS-8 (psi)/(cfm)	15		8		AS-18 (psi)/(cfm)	15		8	
AS-9 (psi)/(cfm)	15		8		AS-19 (psi)/(cfm)	15		8	
AS-10B (psi)/(cfm)	14.5		8						

Notes, Comments & Observations:

Compressor 1 off for repairs.

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

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

Date: 19-Oct
Weather / Temp: Clear / 32 DEG
Technician / Operator: DW

Arrival Time: 7:00
Departure Time: 8:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	OFF		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	ON		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)	40,850.4			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	42,003.8			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3.5				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	68				VGAC-1 Influent PID (ppm)	23.0			
VGAC-1 Effluent Vacuum ("H2O)	60				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	60				VGAC-2 Influent PID (ppm)	23.0			
VGAC-2 Effluent Vacuum ("H2O)	60				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Vacuum ("H2O)	64				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Vacuum ("H2O)	69				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temperature (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	7.2								
Transfer Pump Total Runtime (hrs)	25,020.5				Condensate Storage Tank Level (gal)	180			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	42	7000	153	33.4	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	36	4300	94	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	44	4000	87	12.5	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	36	3000	65	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	38	4300	94	8.5	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	36	6000	131	45.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	36	5000	109	5.2	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	81			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	171			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	14,228.0			
Manifold Regulator Pressure (psi)	65								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	19		8		AS-11 (psi)/(cfm)	19		8	
AS-2 (psi)/(cfm)	18		6		AS-12B (psi)/(cfm)	16		10	
AS-3 (psi)/(cfm)	17		8		AS-13B (psi)/(cfm)	15		6	
AS-4 (psi)/(cfm)	15		6		AS-14 (psi)/(cfm)	16		8	
AS-5 (psi)/(cfm)	19		10		AS-15 (psi)/(cfm)	16		8	
AS-6 (psi)/(cfm)	17		8		AS-16B (psi)/(cfm)	15		8	
AS-7 (psi)/(cfm)	18		8		AS-17 (psi)/(cfm)	17		6	
AS-8 (psi)/(cfm)	18		8		AS-18 (psi)/(cfm)	16		7	
AS-9 (psi)/(cfm)	18		8		AS-19 (psi)/(cfm)	16		9	
AS-10B (psi)/(cfm)	16		8						

Notes, Comments & Observations:

Compressor 1 off for repairs.

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

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

Date: 28-Oct
 Weather / Temp: Rain / 56 DEG
 Technician / Operator: DW

Arrival Time: 11:00
 Departure Time: 12:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/cfm)	4400		864		Blower 1 Total Runtime (hrs)	40,962.0			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	42,003.7			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3.5				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	64				VGAC-1 Influent PID (ppm)	20.0			
VGAC-1 Effluent Vacuum ("H2O)	60				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	56				VGAC-2 Influent PID (ppm)	20.0			
VGAC-2 Effluent Vacuum ("H2O)	58				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Vacuum ("H2O)	64				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Vacuum ("H2O)	68				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temperature (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	7.2								
Transfer Pump Total Runtime (hrs)	25,020.5				Condensate Storage Tank Level (gal)	180			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	43	7000	153		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	36	4300	94	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	45	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	36	3000	65	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	36	4900	107		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	36	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	36	4300	94		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	3100	68	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	81			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	198			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	14,340.0			
Manifold Regulator Pressure (psi)	65								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	16		8		AS-11 (psi)/(cfm)	16		8	
AS-2 (psi)/(cfm)	15		8		AS-12B (psi)/(cfm)	15		8	
AS-3 (psi)/(cfm)	15		8		AS-13B (psi)/(cfm)	15		8	
AS-4 (psi)/(cfm)	15		8		AS-14 (psi)/(cfm)	15		8	
AS-5 (psi)/(cfm)	16		8		AS-15 (psi)/(cfm)	15		8	
AS-6 (psi)/(cfm)	14		8		AS-16B (psi)/(cfm)	13.5		8	
AS-7 (psi)/(cfm)	15		8		AS-17 (psi)/(cfm)	17		8	
AS-8 (psi)/(cfm)	15		8		AS-18 (psi)/(cfm)	15		8	
AS-9 (psi)/(cfm)	16		8		AS-19 (psi)/(cfm)	15		8	
AS-10B (psi)/(cfm)	15		8						

Notes, Comments & Observations:

Compressor 1 off for repairs.

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 : G4128****ATTENTION : James Wilkinson****DoD ELAP**

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1

2

3

4

5

6

Cover Page

Order ID : G4128

Project ID : Frost Street Sites / SPGL 100.03

Client : Envirotrac Environmental Services

Lab Sample Number

G4128-01
G4128-02

Client Sample Number

INF
EFF

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

Signature : _____

Mildred V Reyes

APPROVED

Date: 10/30/2015
By Mildred V Reyes, QAQC Supervisor at 10:34 am, Nov 05, 2015

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 # G4128

Test Name: TO-15

A. Number of Samples and Date of Receipt:

2 Air samples were received on 10/21/2015.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The Blank Spike Duplicate met requirements for all samples .The Blank Spike for {VL1021ABS02} with File ID: VL026250.D met requirements for all samples except for 1,4-Dioxane[64%] .The Blank Spike for {VL1020ABS01} with File ID: VL026255.D met requirements for all samples except for 1,1,2,2-Tetrachloroethane[157%], 1,2,4-Trichlorobenzene[131%], 1,2,4-Trimethylbenzene[152%], 1,2-Dichlorobenzene[155%], 1,3,5-Trimethylbenzene[161%], 1,3-Dichlorobenzene[155%], 1,4-Dichlorobenzene[155%], 1,4-Dioxane[147%], 2-Chlorotoluene[163%], 4-Ethyltoluene[163%], Chlorobenzene[159%], Ethyl Benzene[164%], m/p-Xylene[160%], Naphthalene[135%], o-Xylene[158%] and Styrene[171%] .

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

The Initial Calibration met the requirements except for Tetrachloroethene have more than 30% RSD in the Initial Calibration with dated 10/20/2014 with L Instrument but as per method two compounds as allowed to be fail .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Samples INF, INFDL and EFF 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 10:34 am, Nov 05, 2015*

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 #: G4128

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: DIXITA SHARMA

Date: 10/30/2015

2nd Level QA Review Signature: _____

Mildred V Reyes

APPROVED

By Mildred V Reyes, QAQC Supervisor at 10:34 am, Nov 05, 2015

LAB CHRONICLE

OrderID:	G4128	OrderDate:	10/21/2015 11:41:00 AM
Client:	Envirotrac Environmental Services	Project:	Frost Street Sites / SPGL 100.03
Contact:	James Wilkinson	Location:	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
G4128-01	INF	Air			10/19/15			10/21/15
			TO-15	TO-15			10/21/15	
G4128-01DL	INFDL	Air			10/19/15			10/21/15
			TO-15	TO-15			10/21/15	
G4128-01DL 2	INFDL2	Air			10/19/15			10/21/15
			TO-15	TO-15			10/22/15	
G4128-02	EFF	Air			10/19/15			10/21/15
			TO-15	TO-15			10/21/15	
G4128-02DL	EFFDL	Air			10/19/15			10/21/15
			TO-15	TO-15			10/21/15	

Hit Summary Sheet SW-846

SDG No.: G4128

Client: Envirotrac Environmental Services

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	INF								
G4128-01	INF	Air	Dichlorodifluoromethane	1.68	J	0.2	0.49	2.47	ug/m3
G4128-01	INF	Air	Chloromethane	0.37	J	0.21	0.21	1.03	ug/m3
G4128-01	INF	Air	Tetrahydrofuran	0.53	J	0.29	0.29	1.47	ug/m3
G4128-01	INF	Air	Trichlorofluoromethane	1.80	J	0.22	0.56	2.81	ug/m3
G4128-01	INF	Air	1,1-Dichloroethene	0.48	J	0.2	0.4	1.98	ug/m3
G4128-01	INF	Air	Acetone	2.38		0.24	0.24	1.19	ug/m3
G4128-01	INF	Air	Methylene Chloride	1.74		0.17	0.35	1.74	ug/m3
G4128-01	INF	Air	trans-1,2-Dichloroethene	9.12		0.2	0.4	1.98	ug/m3
G4128-01	INF	Air	2-Butanone	0.86	J	0.29	0.29	1.47	ug/m3
G4128-01	INF	Air	Carbon Tetrachloride	0.38		0.19	0.19	0.19	ug/m3
G4128-01	INF	Air	cis-1,2-Dichloroethene	515.00	E	0.2	0.4	1.98	ug/m3
G4128-01	INF	Air	Chloroform	0.68	J	0.1	0.49	2.44	ug/m3
G4128-01	INF	Air	1,1,1-Trichloroethane	8.18		0.16	0.16	0.16	ug/m3
G4128-01	INF	Air	Benzene	0.26	J	0.13	0.32	1.6	ug/m3
G4128-01	INF	Air	Trichloroethene	859.00	E	0.11	0.16	0.16	ug/m3
G4128-01	INF	Air	Toluene	0.60	J	0.19	0.38	1.88	ug/m3
G4128-01	INF	Air	Tetrachloroethene	8,137.00	E	0.2	0.2	0.2	ug/m3
G4128-01	INF	Air	Chlorobenzene	3.04		0.46	0.46	2.3	ug/m3
G4128-01	INF	Air	1,2,4-Trimethylbenzene	1.23	J	0.49	0.49	2.46	ug/m3
G4128-01	INF	Air	1,3-Dichlorobenzene	0.90	J	0.6	0.6	3.01	ug/m3
G4128-01	INF	Air	1,4-Dichlorobenzene	1.02	J	0.6	0.6	3.01	ug/m3
G4128-01	INF	Air	1,2,4-Trichlorobenzene	0.45	J	0.3	0.74	3.71	ug/m3
G4128-01	INF	Air	Hexane	0.56	J	0.14	0.35	1.76	ug/m3
Total Voc :				9547.26					
Total Concentration:				9547.26					
Client ID:	INFDL								
G4128-01DL	INFDL	Air	cis-1,2-Dichloroethene	832.00	D	7.93	15.9	79.3	ug/m3
G4128-01DL	INFDL	Air	Trichloroethene	2,042.00	D	3.22	6.45	6.45	ug/m3
G4128-01DL	INFDL	Air	Tetrachloroethene	25,768.00	ED	8.14	8.14	8.14	ug/m3
Total Voc :				28642					
Total Concentration:				28642					
Client ID:	INFDL2								
G4128-01DL2	INFDL2	Air	cis-1,2-Dichloroethene	872.00	JD	237	475	2378	ug/m3
G4128-01DL2	INFDL2	Air	Trichloroethene	2,848.00	D	96.7	193	193	ug/m3
G4128-01DL2	INFDL2	Air	Tetrachloroethene	78,661.00	D	244	244	244	ug/m3
Total Voc :				82381					
Total Concentration:				82381					
Client ID:	EFF								

Hit Summary Sheet SW-846

SDG No.: G4128
Client: Envirotrac Environmental Services

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
G4128-02	EFF	Air	Dichlorodifluoromethane	0.74	J	0.2	0.49	2.47	ug/m3
G4128-02	EFF	Air	Chloromethane	14.90		0.21	0.21	1.03	ug/m3
G4128-02	EFF	Air	Bromomethane	0.27	J	0.12	0.39	1.94	ug/m3
G4128-02	EFF	Air	Chloroethane	0.71	J	0.26	0.26	1.32	ug/m3
G4128-02	EFF	Air	Tetrahydrofuran	0.88	J	0.29	0.29	1.47	ug/m3
G4128-02	EFF	Air	Trichlorofluoromethane	11.80		0.22	0.56	2.81	ug/m3
G4128-02	EFF	Air	1,1,2-Trichlorotrifluoroethane	1.53	J	0.31	0.77	3.83	ug/m3
G4128-02	EFF	Air	Heptane	1.07	J	0.41	0.41	2.05	ug/m3
G4128-02	EFF	Air	1,1-Dichloroethene	1.90	J	0.2	0.4	1.98	ug/m3
G4128-02	EFF	Air	Acetone	30.40		0.24	0.24	1.19	ug/m3
G4128-02	EFF	Air	Carbon Disulfide	0.47	J	0.16	0.31	1.56	ug/m3
G4128-02	EFF	Air	Methylene Chloride	3.16		0.17	0.35	1.74	ug/m3
G4128-02	EFF	Air	trans-1,2-Dichloroethene	2.66		0.2	0.4	1.98	ug/m3
G4128-02	EFF	Air	2-Butanone	6.78		0.29	0.29	1.47	ug/m3
G4128-02	EFF	Air	Carbon Tetrachloride	0.25		0.19	0.19	0.19	ug/m3
G4128-02	EFF	Air	cis-1,2-Dichloroethene	187.00	E	0.2	0.4	1.98	ug/m3
G4128-02	EFF	Air	Chloroform	1.32	J	0.1	0.49	2.44	ug/m3
G4128-02	EFF	Air	1,1,1-Trichloroethane	0.87		0.16	0.16	0.16	ug/m3
G4128-02	EFF	Air	Benzene	0.86	J	0.13	0.32	1.6	ug/m3
G4128-02	EFF	Air	1,2-Dichloroethane	0.77	J	0.4	0.4	2.02	ug/m3
G4128-02	EFF	Air	Trichloroethene	142.00	E	0.11	0.16	0.16	ug/m3
G4128-02	EFF	Air	4-Methyl-2-Pentanone	0.57	J	0.2	0.41	2.05	ug/m3
G4128-02	EFF	Air	Toluene	1.02	J	0.19	0.38	1.88	ug/m3
G4128-02	EFF	Air	Tetrachloroethene	361.00	E	0.2	0.2	0.2	ug/m3
G4128-02	EFF	Air	m/p-Xylene	1.39	J	0.43	0.87	4.34	ug/m3
G4128-02	EFF	Air	1,3,5-Trimethylbenzene	0.59	J	0.49	0.49	2.46	ug/m3
G4128-02	EFF	Air	1,2,4-Trimethylbenzene	1.67	J	0.49	0.49	2.46	ug/m3
G4128-02	EFF	Air	1,4-Dichlorobenzene	1.74	J	0.6	0.6	3.01	ug/m3
G4128-02	EFF	Air	Hexane	2.68		0.14	0.35	1.76	ug/m3
Total Voc :				781					
Total Concentration:				781					
Client ID:	EFFDL								
G4128-02DL	EFFDL	Air	Chloromethane	16.30	D	2.07	2.07	10.3	ug/m3
G4128-02DL	EFFDL	Air	Trichlorofluoromethane	11.80	JD	2.25	5.62	28.1	ug/m3
G4128-02DL	EFFDL	Air	Acetone	43.20	D	2.38	2.38	11.9	ug/m3
G4128-02DL	EFFDL	Air	2-Butanone	9.14	JD	2.95	2.95	14.8	ug/m3
G4128-02DL	EFFDL	Air	cis-1,2-Dichloroethene	220.00	D	1.98	3.96	19.8	ug/m3
G4128-02DL	EFFDL	Air	Trichloroethene	181.00	D	0.81	1.61	1.61	ug/m3

Hit Summary Sheet
SW-846

SDG No.: G4128
 Client: Envirotrac Environmental Services

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
G4128-02DL	EFFDL	Air	Tetrachloroethene	653.00	D	2.03	2.03	2.03	ug/m3
			Total Voc :	1134.44					
			Total Concentration:	1134.44					

A
B
C
D
E
F
G

SAMPLE DATA

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	10/19/15
Project:	Frost Street Sites / SPGL 100.03	Date Received:	10/21/15
Client Sample ID:	INF	SDG No.:	G4128
Lab Sample ID:	G4128-01	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
VL026246.D	1		10/21/15 20:26	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.34	1.68	J	0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.18	0.37	J	0.21	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.08	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.1	0.39	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.1	0.26	U	0.26	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.18	0.53	J	0.29	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.32	1.8	J	0.22	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.1	0.77	U	0.31	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.28	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	0.3	0.3	1.52	ug/m3
142-82-5	Heptane	0.1	0.41	U	0.41	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.12	0.48	J	0.2	0.4	1.98	ug/m3
67-64-1	Acetone	1	2.38		0.24	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.1	0.31	U	0.16	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.18	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.5	1.74		0.17	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	2.3	9.12		0.2	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.16	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	U	0.34	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.29	0.86	J	0.29	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.06	0.38		0.19	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	130	515	E	0.2	0.4	1.98	ug/m3
67-66-3	Chloroform	0.14	0.68	J	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	1.5	8.18		0.16	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.19	0.47	2.34	ug/m3
71-43-2	Benzene	0.08	0.26	J	0.13	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.4	0.4	2.02	ug/m3
79-01-6	Trichloroethene	160	859	E	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.46	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.1	0.67	U	0.33	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.2	0.41	2.05	ug/m3
108-88-3	Toluene	0.16	0.6	J	0.19	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.55	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.1	0.85	U	0.43	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.77	0.77	3.84	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	10/19/15
Project:	Frost Street Sites / SPGL 100.03	Date Received:	10/21/15
Client Sample ID:	INF	SDG No.:	G4128
Lab Sample ID:	G4128-01	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
VL026246.D	1		10/21/15 20:26	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	1200	8137	E	0.2	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.66	3.04		0.46	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.1	0.43	U	0.43	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.2	0.87	U	0.43	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.1	0.43	U	0.43	0.43	2.17	ug/m3
100-42-5	Styrene	0.1	0.43	U	0.43	0.43	2.13	ug/m3
75-25-2	Bromoform	0.1	1.03	U	0.52	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.21	0.21	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.52	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.1	0.49	U	0.49	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.25	1.23	J	0.49	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.15	0.9	J	0.6	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.17	1.02	J	0.6	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.06	0.45	J	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	U	1.07	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.1	0.22	U	0.22	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	0.49	0.49	2.46	ug/m3
110-54-3	Hexane	0.16	0.56	J	0.14	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.1	0.31	U	0.16	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.1	0.36	U	0.36	0.36	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.41	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135		102%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	484572		6.63				
540-36-3	1,4-Difluorobenzene	1383560		8.31				
3114-55-4	Chlorobenzene-d5	1601130		13.89				

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:	10/19/15
Project:	Frost Street Sites / SPGL 100.03	Date Received:	10/21/15
Client Sample ID:	INFDL	SDG No.:	G4128
Lab Sample ID:	G4128-01DL	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
VL026247.D	40		10/21/15 21:05	VL102115

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	8.26	8.26	41.3	ug/m3
75-01-4	Vinyl Chloride	1.2	3.07	UD	3.07	3.07	3.07	ug/m3
74-83-9	Bromomethane	4	15.5	UD	4.66	15.5	77.7	ug/m3
75-00-3	Chloroethane	4	10.6	UD	10.6	10.6	52.8	ug/m3
109-99-9	Tetrahydrofuran	4	11.8	UD	11.8	11.8	59.0	ug/m3
75-69-4	Trichlorofluoromethane	4	22.5	UD	8.99	22.5	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	4	30.7	UD	12.3	30.7	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	4	28.0	UD	11.2	28.0	139	ug/m3
593-60-2	Bromoethene	4	17.5	UD	5.25	17.5	87.4	ug/m3
75-65-0	tert-Butyl alcohol	4	12.1	UD	12.1	12.1	60.6	ug/m3
142-82-5	Heptane	4	16.4	UD	16.4	16.4	82.0	ug/m3
75-35-4	1,1-Dichloroethene	4	15.9	UD	7.93	15.9	79.3	ug/m3
67-64-1	Acetone	4	9.5	UD	9.5	9.5	47.5	ug/m3
75-15-0	Carbon Disulfide	4	12.5	UD	6.23	12.5	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4	14.4	UD	7.21	14.4	72.1	ug/m3
75-09-2	Methylene Chloride	4	13.9	UD	6.95	13.9	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	4	15.9	UD	7.93	15.9	79.3	ug/m3
75-34-3	1,1-Dichloroethane	4	16.2	UD	6.48	16.2	81.0	ug/m3
110-82-7	Cyclohexane	4	13.8	UD	13.8	13.8	68.8	ug/m3
78-93-3	2-Butanone	4	11.8	UD	11.8	11.8	59.0	ug/m3
56-23-5	Carbon Tetrachloride	1.2	7.55	UD	7.55	7.55	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	210	832	D	7.93	15.9	79.3	ug/m3
67-66-3	Chloroform	4	19.5	UD	3.91	19.5	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	1.2	6.55	UD	6.55	6.55	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	4	18.7	UD	7.47	18.7	93.4	ug/m3
71-43-2	Benzene	4	12.8	UD	5.11	12.8	63.9	ug/m3
107-06-2	1,2-Dichloroethane	4	16.2	UD	16.2	16.2	81.0	ug/m3
79-01-6	Trichloroethene	380	2042	D	3.22	6.45	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4	18.5	UD	18.5	18.5	92.4	ug/m3
75-27-4	Bromodichloromethane	4	26.8	UD	13.4	26.8	133	ug/m3
108-10-1	4-Methyl-2-Pentanone	4	16.4	UD	8.2	16.4	82.0	ug/m3
108-88-3	Toluene	4	15.1	UD	7.54	15.1	75.4	ug/m3
10061-02-6	t-1,3-Dichloropropene	4	18.2	UD	18.2	18.2	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	4	18.2	UD	18.2	18.2	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	4	21.8	UD	21.8	21.8	109	ug/m3
124-48-1	Dibromochloromethane	4	34.1	UD	17.0	34.1	170	ug/m3
106-93-4	1,2-Dibromoethane	4	30.7	UD	30.7	30.7	153	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	10/19/15
Project:	Frost Street Sites / SPGL 100.03	Date Received:	10/21/15
Client Sample ID:	INFDL	SDG No.:	G4128
Lab Sample ID:	G4128-01DL	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
VL026247.D	40		10/21/15 21:05	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	3800	25768	ED	8.14	8.14	8.14	ug/m3
108-90-7	Chlorobenzene	4	18.4	UD	18.4	18.4	92.1	ug/m3
100-41-4	Ethyl Benzene	4	17.4	UD	17.4	17.4	86.9	ug/m3
179601-23-1	m/p-Xylene	8	34.8	UD	17.4	34.8	173	ug/m3
95-47-6	o-Xylene	4	17.4	UD	17.4	17.4	86.9	ug/m3
100-42-5	Styrene	4	17.0	UD	17.0	17.0	85.2	ug/m3
75-25-2	Bromoform	4	41.4	UD	20.7	41.4	206	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1.2	8.24	UD	8.24	8.24	8.24	ug/m3
95-49-8	2-Chlorotoluene	4	20.7	UD	20.7	20.7	103	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4	19.7	UD	19.7	19.7	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	4	19.7	UD	19.7	19.7	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	4	24.0	UD	24.0	24.0	120	ug/m3
106-46-7	1,4-Dichlorobenzene	4	24.0	UD	24.0	24.0	120	ug/m3
95-50-1	1,2-Dichlorobenzene	4	24.0	UD	24.0	24.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4	29.7	UD	11.9	29.7	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	4	42.7	UD	42.7	42.7	213	ug/m3
106-99-0	1,3-Butadiene	4	8.85	UD	8.85	8.85	44.2	ug/m3
91-20-3	Naphthalene	4	21.0	UD	8.39	21.0	104	ug/m3
622-96-8	4-Ethyltoluene	4	19.7	UD	19.7	19.7	98.3	ug/m3
110-54-3	Hexane	4	14.1	UD	5.64	14.1	70.5	ug/m3
107-05-1	Allyl Chloride	4	12.5	UD	6.26	12.5	62.6	ug/m3
123-91-1	1,4-Dioxane	4	14.4	UD	14.4	14.4	72.1	ug/m3
80-62-6	Methyl Methacrylate	4	16.4	UD	16.4	16.4	81.9	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135		102%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	457022		6.62				
540-36-3	1,4-Difluorobenzene	1399190		8.29				
3114-55-4	Chlorobenzene-d5	1605160		13.72				

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* = Values outside of QC limits

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Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	10/19/15
Project:	Frost Street Sites / SPGL 100.03	Date Received:	10/21/15
Client Sample ID:	INFDL2	SDG No.:	G4128
Lab Sample ID:	G4128-01DL2	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
VL026257.D	1200		10/22/15 21:14	VL102215

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	247	247	1239	ug/m3
75-01-4	Vinyl Chloride	36	92.0	UD	92.0	92.0	92.0	ug/m3
74-83-9	Bromomethane	120	465	UD	139	465	2329	ug/m3
75-00-3	Chloroethane	120	316	UD	316	316	1583	ug/m3
109-99-9	Tetrahydrofuran	120	353	UD	353	353	1769	ug/m3
75-69-4	Trichlorofluoromethane	120	674	UD	269	674	3371	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	120	919	UD	367	919	4598	ug/m3
76-14-2	Dichlorotetrafluoroethane	120	838	UD	335	838	4193	ug/m3
593-60-2	Bromoethene	120	524	UD	157	524	2623	ug/m3
75-65-0	tert-Butyl alcohol	120	363	UD	363	363	1818	ug/m3
142-82-5	Heptane	120	491	UD	491	491	2458	ug/m3
75-35-4	1,1-Dichloroethene	120	475	UD	237	475	2378	ug/m3
67-64-1	Acetone	120	285	UD	285	285	1425	ug/m3
75-15-0	Carbon Disulfide	120	373	UD	186	373	1868	ug/m3
1634-04-4	Methyl tert-Butyl Ether	120	432	UD	216	432	2163	ug/m3
75-09-2	Methylene Chloride	120	416	UD	208	416	2084	ug/m3
156-60-5	trans-1,2-Dichloroethene	120	475	UD	237	475	2378	ug/m3
75-34-3	1,1-Dichloroethane	120	485	UD	194	485	2428	ug/m3
110-82-7	Cyclohexane	120	413	UD	413	413	2065	ug/m3
78-93-3	2-Butanone	120	353	UD	353	353	1769	ug/m3
56-23-5	Carbon Tetrachloride	36	226	UD	226	226	226	ug/m3
156-59-2	cis-1,2-Dichloroethene	220	872	JD	237	475	2378	ug/m3
67-66-3	Chloroform	120	586	UD	117	586	2930	ug/m3
71-55-6	1,1,1-Trichloroethane	36	196	UD	196	196	196	ug/m3
540-84-1	2,2,4-Trimethylpentane	120	560	UD	224	560	2802	ug/m3
71-43-2	Benzene	120	383	UD	153	383	1916	ug/m3
107-06-2	1,2-Dichloroethane	120	485	UD	485	485	2428	ug/m3
79-01-6	Trichloroethene	530	2848	D	96.7	193	193	ug/m3
78-87-5	1,2-Dichloropropane	120	554	UD	554	554	2773	ug/m3
75-27-4	Bromodichloromethane	120	803	UD	401	803	4019	ug/m3
108-10-1	4-Methyl-2-Pentanone	120	491	UD	245	491	2458	ug/m3
108-88-3	Toluene	120	452	UD	226	452	2261	ug/m3
10061-02-6	t-1,3-Dichloropropene	120	544	UD	544	544	2723	ug/m3
10061-01-5	cis-1,3-Dichloropropene	120	544	UD	544	544	2723	ug/m3
79-00-5	1,1,2-Trichloroethane	120	654	UD	654	654	3273	ug/m3
124-48-1	Dibromochloromethane	120	1022	UD	511	1022	5111	ug/m3
106-93-4	1,2-Dibromoethane	120	922	UD	922	922	4611	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	10/19/15
Project:	Frost Street Sites / SPGL 100.03	Date Received:	10/21/15
Client Sample ID:	INFDL2	SDG No.:	G4128
Lab Sample ID:	G4128-01DL2	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
VL026257.D	1200		10/22/15 21:14	VL102215

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	11600	78661	D	244	244	244	ug/m3
108-90-7	Chlorobenzene	120	552	UDQ	552	552	2763	ug/m3
100-41-4	Ethyl Benzene	120	521	UDQ	521	521	2606	ug/m3
179601-23-1	m/p-Xylene	240	1042	UDQ	521	1042	5212	ug/m3
95-47-6	o-Xylene	120	521	UDQ	521	521	2606	ug/m3
100-42-5	Styrene	120	510	UDQ	510	510	2554	ug/m3
75-25-2	Bromoform	120	1240	UD	620	1240	6203	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	36	247	UDQ	247	247	247	ug/m3
95-49-8	2-Chlorotoluene	120	621	UDQ	621	621	3106	ug/m3
108-67-8	1,3,5-Trimethylbenzene	120	589	UDQ	589	589	2949	ug/m3
95-63-6	1,2,4-Trimethylbenzene	120	589	UDQ	589	589	2949	ug/m3
541-73-1	1,3-Dichlorobenzene	120	721	UDQ	721	721	3607	ug/m3
106-46-7	1,4-Dichlorobenzene	120	721	UDQ	721	721	3607	ug/m3
95-50-1	1,2-Dichlorobenzene	120	721	UDQ	721	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	UD	1280	1280	6400	ug/m3
106-99-0	1,3-Butadiene	120	265	UD	265	265	1327	ug/m3
91-20-3	Naphthalene	120	629	UDQ	251	629	3145	ug/m3
622-96-8	4-Ethyltoluene	120	589	UDQ	589	589	2949	ug/m3
110-54-3	Hexane	120	422	UD	169	422	2114	ug/m3
107-05-1	Allyl Chloride	120	375	UD	187	375	1878	ug/m3
123-91-1	1,4-Dioxane	120	432	UDQ	432	432	2162	ug/m3
80-62-6	Methyl Methacrylate	120	491	UD	491	491	2456	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10			65 - 135		100%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	544247		6.65				
540-36-3	1,4-Difluorobenzene	1570070		8.32				
3114-55-4	Chlorobenzene-d5	1901690		13.73				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	10/19/15
Project:	Frost Street Sites / SPGL 100.03	Date Received:	10/21/15
Client Sample ID:	EFF	SDG No.:	G4128
Lab Sample ID:	G4128-02	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
VL026244.D	1		10/21/15 19:05	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.15	0.74	J	0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	7.2	14.9		0.21	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.08	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.07	0.27	J	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.27	0.71	J	0.26	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.3	0.88	J	0.29	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	2.1	11.8		0.22	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.2	1.53	J	0.31	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.28	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	0.3	0.3	1.52	ug/m3
142-82-5	Heptane	0.26	1.07	J	0.41	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.48	1.9	J	0.2	0.4	1.98	ug/m3
67-64-1	Acetone	12.8	30.4		0.24	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.15	0.47	J	0.16	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.18	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.91	3.16		0.17	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.67	2.66		0.2	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.16	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	U	0.34	0.34	1.72	ug/m3
78-93-3	2-Butanone	2.3	6.78		0.29	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.04	0.25		0.19	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	47.2	187	E	0.2	0.4	1.98	ug/m3
67-66-3	Chloroform	0.27	1.32	J	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.16	0.87		0.16	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.19	0.47	2.34	ug/m3
71-43-2	Benzene	0.27	0.86	J	0.13	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.19	0.77	J	0.4	0.4	2.02	ug/m3
79-01-6	Trichloroethene	26.6	142	E	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.46	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.1	0.67	U	0.33	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.14	0.57	J	0.2	0.41	2.05	ug/m3
108-88-3	Toluene	0.27	1.02	J	0.19	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.55	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.1	0.85	U	0.43	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.77	0.77	3.84	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	10/19/15
Project:	Frost Street Sites / SPGL 100.03	Date Received:	10/21/15
Client Sample ID:	EFF	SDG No.:	G4128
Lab Sample ID:	G4128-02	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
VL026244.D	1		10/21/15 19:05	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	53.3	361	E	0.2	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.1	0.46	U	0.46	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.1	0.43	U	0.43	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.32	1.39	J	0.43	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.1	0.43	U	0.43	0.43	2.17	ug/m3
100-42-5	Styrene	0.1	0.43	U	0.43	0.43	2.13	ug/m3
75-25-2	Bromoform	0.1	1.03	U	0.52	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.21	0.21	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.52	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.12	0.59	J	0.49	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.34	1.67	J	0.49	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.29	1.74	J	0.6	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.6	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	1.07	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.1	0.22	U	0.22	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	0.49	0.49	2.46	ug/m3
110-54-3	Hexane	0.76	2.68		0.14	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.1	0.31	U	0.16	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.1	0.36	U	0.36	0.36	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.41	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135		101%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	466976		6.62				
540-36-3	1,4-Difluorobenzene	1356810		8.3				
3114-55-4	Chlorobenzene-d5	1705020		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:	10/19/15
Project:	Frost Street Sites / SPGL 100.03	Date Received:	10/21/15
Client Sample ID:	EFFDL	SDG No.:	G4128
Lab Sample ID:	G4128-02DL	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
VL026245.D	10		10/21/15 19:43	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1	4.94	UD	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	7.9	16.3	D	2.07	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	UD	0.77	0.77	0.77	ug/m3
74-83-9	Bromomethane	1	3.88	UD	1.16	3.88	19.4	ug/m3
75-00-3	Chloroethane	1	2.64	UD	2.64	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	1	2.95	UD	2.95	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	2.1	11.8	JD	2.25	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1	7.66	UD	3.07	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	1	6.99	UD	2.8	6.99	35.0	ug/m3
593-60-2	Bromoethene	1	4.37	UD	1.31	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	1	3.03	UD	3.03	3.03	15.2	ug/m3
142-82-5	Heptane	1	4.1	UD	4.1	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1	3.96	UD	1.98	3.96	19.8	ug/m3
67-64-1	Acetone	18.2	43.2	D	2.38	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	1	3.11	UD	1.56	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1	3.61	UD	1.8	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	1	3.47	UD	1.74	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1	3.96	UD	1.98	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1	4.05	UD	1.62	4.05	20.2	ug/m3
110-82-7	Cyclohexane	1	3.44	UD	3.44	3.44	17.2	ug/m3
78-93-3	2-Butanone	3.1	9.14	JD	2.95	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	UD	1.89	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	55.6	220	D	1.98	3.96	19.8	ug/m3
67-66-3	Chloroform	1	4.88	UD	0.98	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	UD	1.64	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1	4.67	UD	1.87	4.67	23.4	ug/m3
71-43-2	Benzene	1	3.19	UD	1.28	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	1	4.05	UD	4.05	4.05	20.2	ug/m3
79-01-6	Trichloroethene	33.7	181	D	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1	4.62	UD	4.62	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	1	6.7	UD	3.35	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	1	4.1	UD	2.05	4.1	20.5	ug/m3
108-88-3	Toluene	1	3.77	UD	1.88	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	1	4.54	UD	4.54	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1	4.54	UD	4.54	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	1	5.46	UD	5.46	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	1	8.52	UD	4.26	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	1	7.69	UD	7.69	7.69	38.4	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	10/19/15
Project:	Frost Street Sites / SPGL 100.03	Date Received:	10/21/15
Client Sample ID:	EFFDL	SDG No.:	G4128
Lab Sample ID:	G4128-02DL	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
VL026245.D	10		10/21/15 19:43	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	96.4	653	D	2.03	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	1	4.61	UD	4.61	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	1	4.34	UD	4.34	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	2	8.69	UD	4.34	8.69	43.4	ug/m3
95-47-6	o-Xylene	1	4.34	UD	4.34	4.34	21.7	ug/m3
100-42-5	Styrene	1	4.26	UD	4.26	4.26	21.3	ug/m3
75-25-2	Bromoform	1	10.3	UD	5.17	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.3	2.06	UD	2.06	2.06	2.06	ug/m3
95-49-8	2-Chlorotoluene	1	5.18	UD	5.18	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1	4.92	UD	4.92	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1	4.92	UD	4.92	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1	7.42	UD	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1	10.7	UD	10.7	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	1	2.21	UD	2.21	2.21	11.1	ug/m3
91-20-3	Naphthalene	1	5.24	UD	2.1	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	1	4.92	UD	4.92	4.92	24.6	ug/m3
110-54-3	Hexane	1	3.52	UD	1.41	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	1	3.13	UD	1.57	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	1	3.6	UD	3.6	3.6	18.0	ug/m3
80-62-6	Methyl Methacrylate	1	4.09	UD	4.09	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135		104%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	464639		6.62				
540-36-3	1,4-Difluorobenzene	1343320		8.29				
3114-55-4	Chlorobenzene-d5	1622980		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

QC SUMMARY

Surrogate Summary

SDG No.: G4128Client: Envirotrac Environmental ServicesAnalytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
G4128-01	INF	1-Bromo-4-Fluorobenzene	10	10.23	102	65	135
G4128-01DL	INFDL	1-Bromo-4-Fluorobenzene	10	10.15	102	65	135
G4128-01DL2	INFDL2	1-Bromo-4-Fluorobenzene	10	10.01	100	65	135
G4128-02	EFF	1-Bromo-4-Fluorobenzene	10	10.14	101	65	135
G4128-02DL	EFFDL	1-Bromo-4-Fluorobenzene	10	10.45	104	65	135
VL1020ABL01	VL1020ABL01	1-Bromo-4-Fluorobenzene	10	10.14	101	65	135
VL1020ABS01	VL1020ABS01	1-Bromo-4-Fluorobenzene	10	12.59	126	65	135
VL1021ABL01	VL1021ABL01	1-Bromo-4-Fluorobenzene	10	10.51	105	65	135
VL1021ABS01	VL1021ABS01	1-Bromo-4-Fluorobenzene	10	10.06	101	65	135
VL1021ABS02	VL1021ABS02	1-Bromo-4-Fluorobenzene	10	9.68	97	65	135

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

SDG No.: G4128

Client: Envirotrac Environmental Services

Analytical Method: SWTO-15 **Datafile :** VL026235.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL1021ABS01	Dichlorodifluoromethane	10	11.3	ppbv	113			70	130	
	Chloromethane	10	10.7	ppbv	107			70	130	
	Vinyl Chloride	10	10.7	ppbv	107			70	130	
	Bromomethane	10	11	ppbv	110			70	130	
	Chloroethane	10	11.1	ppbv	111			70	130	
	Tetrahydrofuran	10	10.3	ppbv	103			70	130	
	Trichlorofluoromethane	10	11.1	ppbv	111			70	130	
	1,1,2-Trichlorotrifluoroethane	10	10.7	ppbv	107			70	130	
	Dichlorotetrafluoroethane	10	10.4	ppbv	104			70	130	
	Bromoethene	10	10.9	ppbv	109			70	130	
	tert-Butyl Alcohol	10	11.4	ppbv	114			70	130	
	Heptane	10	10.3	ppbv	103			70	130	
	1,1-Dichloroethene	10	11	ppbv	110			70	130	
	Acetone	10	9.2	ppbv	92			70	130	
	Carbon disulfide	10	10.9	ppbv	109			70	130	
	Methyl tert-butyl Ether	10	10.8	ppbv	108			70	130	
	Methylene Chloride	10	10.8	ppbv	108			70	130	
	trans-1,2-Dichloroethene	10	11.1	ppbv	111			70	130	
	1,1-Dichloroethane	10	10.9	ppbv	109			70	130	
	Cyclohexane	10	10.3	ppbv	103			70	130	
	2-Butanone	10	10.4	ppbv	104			70	130	
	Carbon Tetrachloride	10	9.8	ppbv	98			70	130	
	cis-1,2-Dichloroethene	10	11	ppbv	110			70	130	
	Chloroform	10	10.5	ppbv	105			70	130	
	1,1,1-Trichloroethane	10	10.2	ppbv	102			70	130	
	2,2,4-Trimethylpentane	10	9.5	ppbv	95			70	130	
	Benzene	10	10.1	ppbv	101			70	130	
	1,2-Dichloroethane	10	10.5	ppbv	105			70	130	
	Trichloroethene	10	8.5	ppbv	85			70	130	
	1,2-Dichloropropane	10	10.1	ppbv	101			70	130	
	Bromodichloromethane	10	10.2	ppbv	102			70	130	
	4-Methyl-2-Pentanone	10	10.5	ppbv	105			70	130	
	Toluene	10	10	ppbv	100			70	130	
	t-1,3-Dichloropropene	10	10.9	ppbv	109			70	130	
	cis-1,3-Dichloropropene	10	10.4	ppbv	104			70	130	
	1,1,2-Trichloroethane	10	10.3	ppbv	103			70	130	
	Dibromochloromethane	10	10.4	ppbv	104			70	130	
	1,2-Dibromoethane	10	10.4	ppbv	104			70	130	
	Tetrachloroethene	10	8.2	ppbv	82			70	130	
	Chlorobenzene	10	9.6	ppbv	96			70	130	
	Ethyl Benzene	10	9.8	ppbv	98			70	130	
	m/p-Xylene	20	19	ppbv	95			70	130	
	o-Xylene	10	9.3	ppbv	93			70	130	
	Styrene	10	10.4	ppbv	104			70	130	
	Bromoform	10	10.3	ppbv	103			70	130	
	1,1,2,2-Tetrachloroethane	10	9.2	ppbv	92			70	130	
	2-Chlorotoluene	10	9.9	ppbv	99			70	130	
	1,3,5-Trimethylbenzene	10	9.8	ppbv	98			70	130	
	1,2,4-Trimethylbenzene	10	9.3	ppbv	93			70	130	

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

SDG No.: G4128
Client: Envirotrac Environmental Services
Analytical Method: SWTO-15

Datafile : VL026235.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL1021ABS01	1,3-Dichlorobenzene	10	9.5	ppbv	95			70	130	
	1,4-Dichlorobenzene	10	9.7	ppbv	97			70	130	
	1,2-Dichlorobenzene	10	9.6	ppbv	96			70	130	
	1,2,4-Trichlorobenzene	10	9.2	ppbv	92			70	130	
	Hexachloro-1,3-butadiene	10	8.1	ppbv	81			70	130	
	Naphthalene	10	9.6	ppbv	96			70	130	
	1,3-Butadiene	10	10.6	ppbv	106			70	130	
	4-Ethyltoluene	10	9.9	ppbv	99			70	130	
	Hexane	10	10	ppbv	100			70	130	
	Allyl Chloride	10	10.8	ppbv	108			70	130	
	1,4-Dioxane	10	12.6	ppbv	126			70	130	
	Methyl methacrylate	10	10.4	ppbv	104			70	130	

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

SDG No.: G4128

Client: Envirotrac Environmental Services

Analytical Method: SWTO-15

Datafile : VL026250.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL1021ABS02	Dichlorodifluoromethane	10	10.7	ppbv	107			70	130	
	Chloromethane	10	10.9	ppbv	109			70	130	
	Vinyl Chloride	10	10.9	ppbv	109			70	130	
	Bromomethane	10	11.3	ppbv	113			70	130	
	Chloroethane	10	11.3	ppbv	113			70	130	
	Tetrahydrofuran	10	10.3	ppbv	103			70	130	
	Trichlorofluoromethane	10	11.8	ppbv	118			70	130	
	1,1,2-Trichlorotrifluoroethane	10	11	ppbv	110			70	130	
	Dichlorotetrafluoroethane	10	11.1	ppbv	111			70	130	
	Bromoethene	10	11	ppbv	110			70	130	
	tert-Butyl Alcohol	10	12.7	ppbv	127			70	130	
	Heptane	10	10.8	ppbv	108			70	130	
	1,1-Dichloroethene	10	11	ppbv	110			70	130	
	Acetone	10	9.7	ppbv	97			70	130	
	Carbon disulfide	10	11	ppbv	110			70	130	
	Methyl tert-butyl Ether	10	10.8	ppbv	108			70	130	
	Methylene Chloride	10	10.7	ppbv	107			70	130	
	trans-1,2-Dichloroethene	10	11.1	ppbv	111			70	130	
	1,1-Dichloroethane	10	11.1	ppbv	111			70	130	
	Cyclohexane	10	10.8	ppbv	108			70	130	
	2-Butanone	10	10.5	ppbv	105			70	130	
	Carbon Tetrachloride	10	10.5	ppbv	105			70	130	
	cis-1,2-Dichloroethene	10	11.1	ppbv	111			70	130	
	Chloroform	10	11.3	ppbv	113			70	130	
	1,1,1-Trichloroethane	10	10.7	ppbv	107			70	130	
	2,2,4-Trimethylpentane	10	10	ppbv	100			70	130	
	Benzene	10	10.4	ppbv	104			70	130	
	1,2-Dichloroethane	10	11.3	ppbv	113			70	130	
	Trichloroethene	10	9	ppbv	90			70	130	
	1,2-Dichloropropane	10	10.6	ppbv	106			70	130	
	Bromodichloromethane	10	10.9	ppbv	109			70	130	
	4-Methyl-2-Pentanone	10	11	ppbv	110			70	130	
	Toluene	10	10.4	ppbv	104			70	130	
	t-1,3-Dichloropropene	10	11	ppbv	110			70	130	
	cis-1,3-Dichloropropene	10	10.9	ppbv	109			70	130	
	1,1,2-Trichloroethane	10	10.8	ppbv	108			70	130	
	Dibromochloromethane	10	10.7	ppbv	107			70	130	
	1,2-Dibromoethane	10	10.9	ppbv	109			70	130	
	Tetrachloroethene	10	8.6	ppbv	86			70	130	
	Chlorobenzene	10	9.8	ppbv	98			70	130	
	Ethyl Benzene	10	10	ppbv	100			70	130	
	m/p-Xylene	20	19.8	ppbv	99			70	130	
	o-Xylene	10	9.7	ppbv	97			70	130	
	Styrene	10	10.5	ppbv	105			70	130	
	Bromoform	10	10.2	ppbv	102			70	130	
	1,1,2,2-Tetrachloroethane	10	9.5	ppbv	95			70	130	
	2-Chlorotoluene	10	10	ppbv	100			70	130	
	1,3,5-Trimethylbenzene	10	10	ppbv	100			70	130	
	1,2,4-Trimethylbenzene	10	9.5	ppbv	95			70	130	

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

SDG No.: G4128
Client: Envirotrac Environmental Services
Analytical Method: SWTO-15

Datafile : VL026250.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL1021ABS02	1,3-Dichlorobenzene	10	9.6	ppbv	96			70	130	
	1,4-Dichlorobenzene	10	9.7	ppbv	97			70	130	
	1,2-Dichlorobenzene	10	9.7	ppbv	97			70	130	
	1,2,4-Trichlorobenzene	10	8.6	ppbv	86			70	130	
	Hexachloro-1,3-butadiene	10	7.6	ppbv	76			70	130	
	Naphthalene	10	8.9	ppbv	89			70	130	
	1,3-Butadiene	10	10.7	ppbv	107			70	130	
	4-Ethyltoluene	10	10.1	ppbv	101			70	130	
	Hexane	10	10.4	ppbv	104			70	130	
	Allyl Chloride	10	10.8	ppbv	108			70	130	
	1,4-Dioxane	10	6.4	ppbv	64		*	70	130	
	Methyl methacrylate	10	11	ppbv	110			70	130	

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

SDG No.: G4128

Client: Envirotrac Environmental Services

Analytical Method: SWTO-15

Datafile : VL026255.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL1020ABS01	Dichlorodifluoromethane	10	11.3	ppbv	113			70	130	
	Chloromethane	10	11.1	ppbv	111			70	130	
	Vinyl Chloride	10	10.9	ppbv	109			70	130	
	Bromomethane	10	10.8	ppbv	108			70	130	
	Chloroethane	10	11.1	ppbv	111			70	130	
	Tetrahydrofuran	10	11.5	ppbv	115			70	130	
	Trichlorofluoromethane	10	11.1	ppbv	111			70	130	
	1,1,2-Trichlorotrifluoroethane	10	10.7	ppbv	107			70	130	
	Dichlorotetrafluoroethane	10	10.7	ppbv	107			70	130	
	Bromoethene	10	10.7	ppbv	107			70	130	
	tert-Butyl Alcohol	10	8.2	ppbv	82			70	130	
	Heptane	10	10.8	ppbv	108			70	130	
	1,1-Dichloroethene	10	10.8	ppbv	108			70	130	
	Acetone	10	9.1	ppbv	91			70	130	
	Carbon disulfide	10	10.8	ppbv	108			70	130	
	Methyl tert-butyl Ether	10	10.4	ppbv	104			70	130	
	Methylene Chloride	10	10.6	ppbv	106			70	130	
	trans-1,2-Dichloroethene	10	10.7	ppbv	107			70	130	
	1,1-Dichloroethane	10	10.7	ppbv	107			70	130	
	Cyclohexane	10	10.5	ppbv	105			70	130	
	2-Butanone	10	11.2	ppbv	112			70	130	
	Carbon Tetrachloride	10	11	ppbv	110			70	130	
	cis-1,2-Dichloroethene	10	11	ppbv	110			70	130	
	Chloroform	10	10.9	ppbv	109			70	130	
	1,1,1-Trichloroethane	10	10.2	ppbv	102			70	130	
	2,2,4-Trimethylpentane	10	11	ppbv	110			70	130	
	Benzene	10	11.2	ppbv	112			70	130	
	1,2-Dichloroethane	10	11.8	ppbv	118			70	130	
	Trichloroethene	10	9.5	ppbv	95			70	130	
	1,2-Dichloropropane	10	11.5	ppbv	115			70	130	
	Bromodichloromethane	10	11.5	ppbv	115			70	130	
	4-Methyl-2-Pentanone	10	11.9	ppbv	119			70	130	
	Toluene	10	11.1	ppbv	111			70	130	
	t-1,3-Dichloropropene	10	11.7	ppbv	117			70	130	
	cis-1,3-Dichloropropene	10	11.5	ppbv	115			70	130	
	1,1,2-Trichloroethane	10	11.4	ppbv	114			70	130	
	Dibromochloromethane	10	11.2	ppbv	112			70	130	
	1,2-Dibromoethane	10	11.3	ppbv	113			70	130	
	Tetrachloroethene	10	8.8	ppbv	88			70	130	
	Chlorobenzene	10	15.9	ppbv	159		*	70	130	
	Ethyl Benzene	10	16.4	ppbv	164		*	70	130	
	m/p-Xylene	20	32.1	ppbv	160		*	70	130	
	o-Xylene	10	15.8	ppbv	158		*	70	130	
	Styrene	10	17.1	ppbv	171		*	70	130	
	Bromoform	10	10.9	ppbv	109			70	130	
	1,1,2,2-Tetrachloroethane	10	15.7	ppbv	157		*	70	130	
	2-Chlorotoluene	10	16.3	ppbv	163		*	70	130	
	1,3,5-Trimethylbenzene	10	16.1	ppbv	161		*	70	130	
	1,2,4-Trimethylbenzene	10	15.2	ppbv	152		*	70	130	

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

SDG No.: G4128
Client: Envirotrac Environmental Services
Analytical Method: SWTO-15

Datafile : VL026255.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL1020ABS01	1,3-Dichlorobenzene	10	15.5	ppbv	155	*		70	130	
	1,4-Dichlorobenzene	10	15.5	ppbv	155	*		70	130	
	1,2-Dichlorobenzene	10	15.5	ppbv	155	*		70	130	
	1,2,4-Trichlorobenzene	10	13.1	ppbv	131	*		70	130	
	Hexachloro-1,3-butadiene	10	11.2	ppbv	112			70	130	
	Naphthalene	10	13.5	ppbv	135	*		70	130	
	1,3-Butadiene	10	10.5	ppbv	105			70	130	
	4-Ethyltoluene	10	16.3	ppbv	163	*		70	130	
	Hexane	10	10.3	ppbv	103			70	130	
	Allyl Chloride	10	10.7	ppbv	107			70	130	
	1,4-Dioxane	10	14.7	ppbv	147	*		70	130	
	Methyl methacrylate	10	11.8	ppbv	118			70	130	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL1021ABL01

Lab Name: CHEMTECH

Contract: ENVI27

Lab Code: CHEM Case No.: G4128

SAS No.: G4128 SDG NO.: G4128

Lab File ID: VL026234.D

Lab Sample ID: VL1021ABL01

Date Analyzed: 10/21/2015

Time Analyzed: 11:18

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
VL1021ABS01	VL1021ABS01	VL026235.D	10/21/2015
EFF	G4128-02	VL026244.D	10/21/2015
EFFDL	G4128-02DL	VL026245.D	10/21/2015
INF	G4128-01	VL026246.D	10/21/2015
INFDL	G4128-01DL	VL026247.D	10/21/2015
VL1021ABS02	VL1021ABS02	VL026250.D	10/21/2015

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL1020ABL01

Lab Name: CHEMTECH

Contract: ENVI27

Lab Code: CHEM Case No.: G4128

SAS No.: G4128 SDG NO.: G4128

Lab File ID: VL026254.D

Lab Sample ID: VL1020ABL01

Date Analyzed: 10/22/2015

Time Analyzed: 18:00

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
VL1020ABS01	VL1020ABS01	VL026255.D	10/22/2015
INFDL2	G4128-01DL2	VL026257.D	10/22/2015

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ENVI27
Lab Code: CHEM Case No.: G4128 SAS No.: G4128 SDG NO.: G4128
Lab File ID: VL026205.D BFB Injection Date: 10/20/2015
Instrument ID: MSVOA_L BFB Injection Time: 08:37
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	19.2
75	30.0 - 66.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	69.1
175	4.0 - 9.0% of mass 174	5.7 (8.3) 1
176	93.0 - 101.0% of mass 174	66.7 (96.6) 1
177	5.0 - 9.0% of mass 176	4.4 (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
VSTDIC002	VSTDIC002	VL026207.D	10/20/2015	11:16
VSTDIC001	VSTDIC001	VL026208.D	10/20/2015	11:54
VSTDIC0.5	VSTDIC0.5	VL026209.D	10/20/2015	12:32
VSTDIC0.1	VSTDIC0.1	VL026210.D	10/20/2015	13:10
VSTDIC0.03	VSTDIC0.03	VL026211.D	10/20/2015	13:47
VSTDIC015	VSTDIC015	VL026212.D	10/20/2015	14:43
VSTDIC010	VSTDIC010	VL026214.D	10/20/2015	17:10

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	CHEMTECH		Contract:	ENVI27	
Lab Code:	CHEM	Case No.:	G4128	SAS No.:	G4128
				SDG NO.:	G4128
Lab File ID:	VL026232.D		BFB Injection Date:	10/21/2015	
Instrument ID:	MSVOA_L		BFB Injection Time:	08:53	
GC Column:	RTX-1	ID:	0.32	Heated Purge:	Y/N
					N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.4
75	30.0 - 66.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	68.6
175	4.0 - 9.0% of mass 174	5.2 (7.6) 1
176	93.0 - 101.0% of mass 174	65.6 (95.6) 1
177	5.0 - 9.0% of mass 176	4.3 (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	VL026233.D	10/21/2015	09:44
VL1021ABL01	VL1021ABL01	VL026234.D	10/21/2015	11:18
VL1021ABS01	VL1021ABS01	VL026235.D	10/21/2015	12:08
EFF	G4128-02	VL026244.D	10/21/2015	19:05
EFFDL	G4128-02DL	VL026245.D	10/21/2015	19:43
INF	G4128-01	VL026246.D	10/21/2015	20:26
INFDL	G4128-01DL	VL026247.D	10/21/2015	21:05
VL1021ABS02	VL1021ABS02	VL026250.D	10/21/2015	23:01

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ENVI27
Lab Code: CHEM Case No.: G4128 SAS No.: G4128 SDG NO.: G4128
Lab File ID: VL026252.D BFB Injection Date: 10/22/2015
Instrument ID: MSVOA_L BFB Injection Time: 16:29
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	19.8
75	30.0 - 66.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	67.8
175	4.0 - 9.0% of mass 174	5 (7.4) 1
176	93.0 - 101.0% of mass 174	65.2 (96.1) 1
177	5.0 - 9.0% of mass 176	4.2 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL026253.D	10/22/2015	17:19
VL1020ABL01	VL1020ABL01	VL026254.D	10/22/2015	18:00
VL1020ABS01	VL1020ABS01	VL026255.D	10/22/2015	19:20
INFDL2	G4128-01DL2	VL026257.D	10/22/2015	21:14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: G4128 SAS No.: G4128 SDG NO.: G4128
 Lab File ID: VL026233.D Date Analyzed: 10/21/2015
 Instrument ID: MSVOA_L Time Analyzed: 09:44
 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	507462	6.63	1571100	8.30	2026940	13.71
UPPER LIMIT	710447	6.96	2199530	8.63	2837710	14.04
LOWER LIMIT	304477	6.30	942657	7.97	1216160	13.38
EPA SAMPLE NO.						
INF	484572	6.63	1383556	8.31	1601133	13.89
INFDL	457022	6.62	1399193	8.29	1605160	13.72
EFF	466976	6.62	1356813	8.30	1705022	13.71
EFFDL	464639	6.62	1343318	8.29	1622984	13.71
VL1021ABL01	512677	6.62	1485392	8.29	1758930	13.70
VL1021ABS01	481816	6.63	1511896	8.30	1898023	13.71
VL1021ABS02	434737	6.62	1353558	8.30	1726416	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: G4128 SAS No.: G4128 SDG NO.: G4128
 Lab File ID: VL026253.D Date Analyzed: 10/22/2015
 Instrument ID: MSVOA_L Time Analyzed: 17:19
 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	482249	6.65	1447610	8.32	1638420	13.74
UPPER LIMIT	675149	6.98	2026660	8.65	2293780	14.07
LOWER LIMIT	289349	6.32	868567	7.99	983049	13.41
EPA SAMPLE NO.						
INFDL2	544247	6.65	1570066	8.32	1901694	13.73
VL1020ABL01	563219	6.65	1606990	8.32	1892837	13.73
VL1020ABS01	452369	6.65	1292530	8.32	1081005	13.74

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:	VL1020ABL01	SDG No.:	G4128
Lab Sample ID:	VL1020ABL01	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
VL026254.D	1		10/22/15 18:00	VL102215

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	0.21	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.08	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.1	0.39	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.1	0.26	U	0.26	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.1	0.29	U	0.29	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.1	0.56	U	0.22	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.1	0.77	U	0.31	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.28	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	0.3	0.3	1.52	ug/m3
142-82-5	Heptane	0.1	0.41	U	0.41	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.2	0.4	1.98	ug/m3
67-64-1	Acetone	0.1	0.24	U	0.24	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.1	0.31	U	0.16	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.18	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.1	0.35	U	0.17	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.2	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.16	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	U	0.34	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.1	0.29	U	0.29	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.19	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.1	0.4	U	0.2	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	0.16	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.19	0.47	2.34	ug/m3
71-43-2	Benzene	0.1	0.32	U	0.13	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.4	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	0.46	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.1	0.67	U	0.33	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.2	0.41	2.05	ug/m3
108-88-3	Toluene	0.1	0.38	U	0.19	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.55	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.1	0.85	U	0.43	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.77	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:	VL1020ABL01	SDG No.:	G4128
Lab Sample ID:	VL1020ABL01	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
VL026254.D	1		10/22/15 18:00	VL102215

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.2	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.1	0.46	U	0.46	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.1	0.43	U	0.43	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.2	0.87	U	0.43	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.1	0.43	U	0.43	0.43	2.17	ug/m3
100-42-5	Styrene	0.1	0.43	U	0.43	0.43	2.13	ug/m3
75-25-2	Bromoform	0.1	1.03	U	0.52	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.21	0.21	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.52	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.1	0.49	U	0.49	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.1	0.49	U	0.49	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.6	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	1.07	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.1	0.22	U	0.22	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	0.49	0.49	2.46	ug/m3
110-54-3	Hexane	0.1	0.35	U	0.14	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.1	0.31	U	0.16	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.1	0.36	U	0.36	0.36	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.41	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135		101%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	563219		6.65				
540-36-3	1,4-Difluorobenzene	1606990		8.32				
3114-55-4	Chlorobenzene-d5	1892840		13.73				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL1021ABL01	SDG No.:	G4128
Lab Sample ID:	VL1021ABL01	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
VL026234.D	1		10/21/15 11:18	VL102115

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	0.21	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.08	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.1	0.39	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.1	0.26	U	0.26	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.1	0.29	U	0.29	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.1	0.56	U	0.22	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.1	0.77	U	0.31	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.28	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	0.3	0.3	1.52	ug/m3
142-82-5	Heptane	0.1	0.41	U	0.41	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.2	0.4	1.98	ug/m3
67-64-1	Acetone	0.1	0.24	U	0.24	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.1	0.31	U	0.16	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.18	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.1	0.35	U	0.17	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.2	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.16	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	U	0.34	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.1	0.29	U	0.29	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.19	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.1	0.4	U	0.2	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	0.16	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.19	0.47	2.34	ug/m3
71-43-2	Benzene	0.1	0.32	U	0.13	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.4	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	0.46	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.1	0.67	U	0.33	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.2	0.41	2.05	ug/m3
108-88-3	Toluene	0.1	0.38	U	0.19	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.55	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.1	0.85	U	0.43	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.77	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:	VL1021ABL01	SDG No.:	G4128
Lab Sample ID:	VL1021ABL01	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
VL026234.D	1		10/21/15 11:18	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.2	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.1	0.46	U	0.46	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.1	0.43	U	0.43	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.2	0.87	U	0.43	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.1	0.43	U	0.43	0.43	2.17	ug/m3
100-42-5	Styrene	0.1	0.43	U	0.43	0.43	2.13	ug/m3
75-25-2	Bromoform	0.1	1.03	U	0.52	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.21	0.21	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.52	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.1	0.49	U	0.49	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.1	0.49	U	0.49	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.6	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	1.07	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.1	0.22	U	0.22	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	0.49	0.49	2.46	ug/m3
110-54-3	Hexane	0.1	0.35	U	0.14	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.1	0.31	U	0.16	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.1	0.36	U	0.36	0.36	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.41	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135		105%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	512677		6.62				
540-36-3	1,4-Difluorobenzene	1485390		8.29				
3114-55-4	Chlorobenzene-d5	1758930		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:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL1020ABS01	SDG No.:	G4128
Lab Sample ID:	VL1020ABS01	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
VL026255.D	1		10/22/15 19:20	VL102215

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	11.3	55.9		0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	11.1	22.9		0.21	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	10.9	27.9		0.08	0.08	0.08	ug/m3
74-83-9	Bromomethane	10.8	41.9		0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	11.1	29.3		0.26	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	11.5	33.9		0.29	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	11.1	62.4		0.22	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	10.7	82.0		0.31	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.7	74.8		0.28	0.7	3.49	ug/m3
593-60-2	Bromoethene	10.7	46.8		0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	8.2	24.9		0.3	0.3	1.52	ug/m3
142-82-5	Heptane	10.8	44.3		0.41	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	10.8	42.8		0.2	0.4	1.98	ug/m3
67-64-1	Acetone	9.1	21.6		0.24	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	10.8	33.6		0.16	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	10.4	37.5		0.18	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	10.6	36.8		0.17	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	10.7	42.4		0.2	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.7	43.3		0.16	0.4	2.02	ug/m3
110-82-7	Cyclohexane	10.5	36.1		0.34	0.34	1.72	ug/m3
78-93-3	2-Butanone	11.2	33.0		0.29	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	11	69.2		0.19	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	11	43.6		0.2	0.4	1.98	ug/m3
67-66-3	Chloroform	10.9	53.2		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	10.2	55.6		0.16	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	11	51.4		0.19	0.47	2.34	ug/m3
71-43-2	Benzene	11.2	35.8		0.13	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	11.8	47.8		0.4	0.4	2.02	ug/m3
79-01-6	Trichloroethene	9.5	51.1		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	11.5	53.2		0.46	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	11.5	77.0		0.33	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	11.9	48.8		0.2	0.41	2.05	ug/m3
108-88-3	Toluene	11.1	41.8		0.19	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	11.7	53.1		0.45	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	11.5	52.2		0.45	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	11.4	62.2		0.55	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	11.2	95.4		0.43	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	11.3	86.8		0.77	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:	VL1020ABS01	SDG No.:	G4128
Lab Sample ID:	VL1020ABS01	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
VL026255.D	1		10/22/15 19:20	VL102215

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	8.8	59.7		0.2	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	15.9	73.2	E	0.46	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	16.4	71.2	E	0.43	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	32.1	139	E	0.43	0.87	4.34	ug/m3
95-47-6	o-Xylene	15.8	68.6	E	0.43	0.43	2.17	ug/m3
100-42-5	Styrene	17.1	72.8	E	0.43	0.43	2.13	ug/m3
75-25-2	Bromoform	10.9	112		0.52	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	15.7	107	E	0.21	0.21	0.21	ug/m3
95-49-8	2-Chlorotoluene	16.3	84.4	E	0.52	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	16.1	79.2	E	0.49	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	15.2	74.7	E	0.49	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	15.5	93.2	E	0.6	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	15.5	93.2	E	0.6	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	15.5	93.2	E	0.6	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	13.1	97.2		0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	11.2	119		1.07	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	10.5	23.2		0.22	0.22	1.11	ug/m3
91-20-3	Naphthalene	13.5	70.8		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	16.3	80.1	E	0.49	0.49	2.46	ug/m3
110-54-3	Hexane	10.3	36.3		0.14	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	10.7	33.5		0.16	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	14.7	53.0		0.36	0.36	1.8	ug/m3
80-62-6	Methyl Methacrylate	11.8	48.3		0.41	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	12.6			65 - 135		126%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	452369		6.65				
540-36-3	1,4-Difluorobenzene	1292530		8.32				
3114-55-4	Chlorobenzene-d5	1081010		13.74				

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:	VL1021ABS01	SDG No.:	G4128
Lab Sample ID:	VL1021ABS01	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
VL026235.D	1		10/21/15 12:08	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	11.3	55.9		0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	10.7	22.1		0.21	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	10.7	27.4		0.08	0.08	0.08	ug/m3
74-83-9	Bromomethane	11	42.7		0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	11.1	29.3		0.26	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	10.3	30.4		0.29	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	11.1	62.4		0.22	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	10.7	82.0		0.31	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.4	72.7		0.28	0.7	3.49	ug/m3
593-60-2	Bromoethene	10.9	47.7		0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	11.4	34.6		0.3	0.3	1.52	ug/m3
142-82-5	Heptane	10.3	42.2		0.41	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	11	43.6		0.2	0.4	1.98	ug/m3
67-64-1	Acetone	9.2	21.8		0.24	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	10.9	33.9		0.16	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	10.8	38.9		0.18	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	10.8	37.5		0.17	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	11.1	44.0		0.2	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.9	44.1		0.16	0.4	2.02	ug/m3
110-82-7	Cyclohexane	10.3	35.4		0.34	0.34	1.72	ug/m3
78-93-3	2-Butanone	10.4	30.7		0.29	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.8	61.6		0.19	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	11	43.6		0.2	0.4	1.98	ug/m3
67-66-3	Chloroform	10.5	51.3		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	10.2	55.6		0.16	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.5	44.4		0.19	0.47	2.34	ug/m3
71-43-2	Benzene	10.1	32.3		0.13	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	10.5	42.5		0.4	0.4	2.02	ug/m3
79-01-6	Trichloroethene	8.5	45.7		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	10.1	46.7		0.46	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	10.2	68.3		0.33	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	10.5	43.0		0.2	0.41	2.05	ug/m3
108-88-3	Toluene	10	37.7		0.19	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	10.9	49.5		0.45	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10.4	47.2		0.45	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.3	56.2		0.55	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	10.4	88.6		0.43	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	10.4	79.9		0.77	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:	VL1021ABS01	SDG No.:	G4128
Lab Sample ID:	VL1021ABS01	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
VL026235.D	1		10/21/15 12:08	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	8.2	55.6		0.2	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	9.6	44.2		0.46	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	9.8	42.6		0.43	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	19	82.5		0.43	0.87	4.34	ug/m3
95-47-6	o-Xylene	9.3	40.4		0.43	0.43	2.17	ug/m3
100-42-5	Styrene	10.4	44.3		0.43	0.43	2.13	ug/m3
75-25-2	Bromoform	10.3	106		0.52	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	9.2	63.2		0.21	0.21	0.21	ug/m3
95-49-8	2-Chlorotoluene	9.9	51.3		0.52	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.8	48.2		0.49	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.3	45.7		0.49	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.5	57.1		0.6	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.7	58.3		0.6	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	9.6	57.7		0.6	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.2	68.3		0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.1	86.4		1.07	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	10.6	23.4		0.22	0.22	1.11	ug/m3
91-20-3	Naphthalene	9.6	50.3		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	9.9	48.7		0.49	0.49	2.46	ug/m3
110-54-3	Hexane	10	35.2		0.14	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	10.8	33.8		0.16	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	12.6	45.4		0.36	0.36	1.8	ug/m3
80-62-6	Methyl Methacrylate	10.4	42.6		0.41	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135		101%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	481816		6.63				
540-36-3	1,4-Difluorobenzene	1511900		8.3				
3114-55-4	Chlorobenzene-d5	1898020		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:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL1021ABS02	SDG No.:	G4128
Lab Sample ID:	VL1021ABS02	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
VL026250.D	1		10/21/15 23:01	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	10.7	52.9		0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	10.9	22.5		0.21	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	10.9	27.9		0.08	0.08	0.08	ug/m3
74-83-9	Bromomethane	11.3	43.9		0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	11.3	29.8		0.26	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	10.3	30.4		0.29	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	11.8	66.3		0.22	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	11	84.3		0.31	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	11.1	77.6		0.28	0.7	3.49	ug/m3
593-60-2	Bromoethene	11	48.1		0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	12.7	38.5		0.3	0.3	1.52	ug/m3
142-82-5	Heptane	10.8	44.3		0.41	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	11	43.6		0.2	0.4	1.98	ug/m3
67-64-1	Acetone	9.7	23.0		0.24	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	11	34.3		0.16	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	10.8	38.9		0.18	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	10.7	37.2		0.17	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	11.1	44.0		0.2	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	11.1	44.9		0.16	0.4	2.02	ug/m3
110-82-7	Cyclohexane	10.8	37.2		0.34	0.34	1.72	ug/m3
78-93-3	2-Butanone	10.5	31.0		0.29	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.5	66.0		0.19	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	11.1	44.0		0.2	0.4	1.98	ug/m3
67-66-3	Chloroform	11.3	55.2		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	10.7	58.4		0.16	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10	46.7		0.19	0.47	2.34	ug/m3
71-43-2	Benzene	10.4	33.2		0.13	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	11.3	45.7		0.4	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	10.6	49.0		0.46	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	10.9	73.0		0.33	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	11	45.1		0.2	0.41	2.05	ug/m3
108-88-3	Toluene	10.4	39.2		0.19	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	11	49.9		0.45	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10.9	49.5		0.45	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.8	58.9		0.55	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	10.7	91.2		0.43	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	10.9	83.8		0.77	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:	VL1021ABS02	SDG No.:	G4128
Lab Sample ID:	VL1021ABS02	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
VL026250.D	1		10/21/15 23:01	VL102115

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	8.6	58.3		0.2	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	9.8	45.1		0.46	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	10	43.4		0.43	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	19.8	86		0.43	0.87	4.34	ug/m3
95-47-6	o-Xylene	9.7	42.1		0.43	0.43	2.17	ug/m3
100-42-5	Styrene	10.5	44.7		0.43	0.43	2.13	ug/m3
75-25-2	Bromoform	10.2	105		0.52	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	9.5	65.2		0.21	0.21	0.21	ug/m3
95-49-8	2-Chlorotoluene	10	51.8		0.52	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10	49.2		0.49	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.5	46.7		0.49	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.6	57.7		0.6	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.7	58.3		0.6	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	9.7	58.3		0.6	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.6	63.8		0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	7.6	81.1		1.07	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	10.7	23.7		0.22	0.22	1.11	ug/m3
91-20-3	Naphthalene	8.9	46.6		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	10.1	49.6		0.49	0.49	2.46	ug/m3
110-54-3	Hexane	10.4	36.6		0.14	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	10.8	33.8		0.16	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	6.4	23.1		0.36	0.36	1.8	ug/m3
80-62-6	Methyl Methacrylate	11	45.0		0.41	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.7			65 - 135		97%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	434737		6.62				
540-36-3	1,4-Difluorobenzene	1353560		8.3				
3114-55-4	Chlorobenzene-d5	1726420		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.: G4128 SAS No.: G4128 SDG No.: G4128
 Instrument ID: MSVOA_L Calibration Date(s): 10/20/2015 10/20/2015
 Heated Purge: (Y/N) N Calibration Time(s): 11:16 17:10
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF002 = VL026207.D		RRF001 = VL026208.D		RRF0.5 = VL026209.D		
		RRF0.1 = VL026210.D		RRF.03 = VL026211.D		RRF015 = VL026212.D		
COMPOUND	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF015	RRF	% RSD
Dichlorodifluoromethane	2.125	2.195	2.193			1.726	2.072	9.5
Chloromethane	0.709	0.687	0.691			0.663	0.683	2.8
Vinyl Chloride	0.733	0.727	0.695	0.724	0.753	0.703	0.719	3
Bromomethane	0.520	0.528	0.525			0.501	0.516	2.3
Chloroethane	0.313	0.306	0.293			0.296	0.302	2.6
Tetrahydrofuran	0.359	0.335	0.326			0.305	0.327	6.5
Trichlorofluoromethane	2.004	2.057	2.106			1.954	2.033	2.8
1,1,2-Trichlorotrifluoroethane	1.376	1.416	1.447			1.310	1.388	3.7
Dichlorotetrafluoroethane	1.836	1.852	1.816			1.680	1.781	4.3
Bromoethene	0.601	0.588	0.594			0.565	0.586	2.3
tert-Butyl alcohol	0.956	0.899	0.844			1.157	1.006	15
Heptane	1.980	2.063	2.101			1.875	1.984	5
1,1-Dichloroethene	0.610	0.633	0.650			0.606	0.627	3
Acetone	1.519	1.598	1.828			1.197	1.472	18.1
Carbon Disulfide	1.769	1.752	1.744			1.733	1.763	1.9
Methyl tert-Butyl Ether	2.534	2.567	2.550			2.422	2.507	2.5
Methylene Chloride	0.589	0.600	0.621			0.553	0.587	4.3
trans-1,2-Dichloroethene	0.812	0.821	0.815			0.794	0.808	1.4
1,1-Dichloroethane	1.759	1.748	1.739			1.642	1.712	3
Cyclohexane	1.395	1.406	1.439			1.322	1.379	3.6
2-Butanone	0.613	0.584	0.584			0.516	0.565	7.3
Carbon Tetrachloride	0.751	0.745	0.766	0.852	0.827	0.681	0.762	8
cis-1,2-Dichloroethene	1.282	1.240	1.260			1.237	1.252	1.5
Chloroform	2.024	2.028	2.015			1.956	2.002	1.5
1,1,1-Trichloroethane	2.143	2.160	2.186	2.248	2.573	2.100	2.219	7.3
2,2,4-Trimethylpentane	1.760	1.785	1.802			1.392	1.649	11.4
Benzene	1.082	1.069	1.069			0.917	1.018	7.5
1,2-Dichloroethane	0.527	0.531	0.550			0.498	0.524	3.7
Trichloroethene	0.471	0.470	0.491	0.563	0.687	0.374	0.494	21.3
1,2-Dichloropropane	0.377	0.373	0.379			0.324	0.358	7.1
Bromodichloromethane	0.793	0.777	0.774			0.694	0.753	5.5
4-Methyl-2-Pentanone	0.783	0.783	0.766			0.732	0.763	2.8
Toluene	1.472	1.447	1.463			1.245	1.385	7.6

* 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.: G4128 SAS No.: G4128 SDG No.: G4128
 Instrument ID: MSVOA_L Calibration Date(s): 10/20/2015 10/20/2015
 Heated Purge: (Y/N) N Calibration Time(s): 11:16 17:10
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:	RRF002 = VL026207.D	RRF001 = VL026208.D	RRF0.5 = VL026209.D					
	RRF0.1 = VL026210.D	RRF.03 = VL026211.D	RRF015 = VL026212.D					
COMPOUND	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF015	RRF	% RSD
t-1,3-Dichloropropene	0.602	0.571	0.561			0.571	0.578	2.8
cis-1,3-Dichloropropene	0.701	0.690	0.683			0.643	0.677	3.3
1,1,2-Trichloroethane	0.471	0.464	0.463			0.416	0.450	5.2
Dibromochloromethane	0.772	0.740	0.742			0.692	0.733	4.1
1,2-Dibromoethane	0.732	0.712	0.720			0.646	0.696	5.2
Tetrachloroethene	0.516	0.520	0.546	0.679	0.958	0.422	0.584	31.6
Chlorobenzene	1.030	1.048	1.085			0.754	0.957	14.7
Ethyl Benzene	1.720	1.759	1.802			1.321	1.621	12.6
m/p-Xylene	1.375	1.394	1.417			1.006	1.269	14.3
o-Xylene	1.435	1.474	1.521			1.026	1.326	16.2
Styrene	0.643	0.619	0.598			0.543	0.600	6.1
Bromoform	0.657	0.610	0.617			0.595	0.619	3.8
1,1,2,2-Tetrachloroethane	0.916	0.922	0.948	0.960	0.978	0.657	0.877	13.8
2-Chlorotoluene	1.459	1.468	1.496			1.106	1.359	12.4
1,3,5-Trimethylbenzene	1.549	1.559	1.561			1.185	1.439	11.8
1,2,4-Trimethylbenzene	1.628	1.668	1.734			1.124	1.492	17.7
1,3-Dichlorobenzene	1.051	1.082	1.087			0.775	0.975	14.4
1,4-Dichlorobenzene	1.101	1.089	1.147			0.823	1.018	13.4
1,2-Dichlorobenzene	1.051	1.071	1.097			0.796	0.983	13.2
1,2,4-Trichlorobenzene	0.693	0.697	0.708			0.499	0.633	15
Hexachloro-1,3-Butadiene	0.554	0.578	0.627			0.350	0.504	23.4
1,3-Butadiene	0.666	0.664	0.684			0.639	0.657	3.4
Naphthalene	1.431	1.395	1.367			1.148	1.315	9.1
4-Ethyltoluene	1.641	1.668	1.683			1.279	1.543	11.4
1-Bromo-4-Fluorobenzene	0.751	0.777	0.793	0.794	0.800	0.717	0.771	3.8
Hexane	1.455	1.424	1.415			1.294	1.379	5.3
Allyl Chloride	0.950	0.957	1.003			0.933	0.961	2.7
1,4-Dioxane	69.626	79.243	54.217			44.523	67.313	26.9
Methyl Methacrylate	0.386	0.379	0.364			0.356	0.371	3.2

* 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 CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: G4128 SAS No.: G4128 SDG No.: G4128
 Instrument ID: MSVOA_L Calibration Date/Time: 10/21/2015 09:44
 Lab File ID: VL026233.D Init. Calib. Date(s): 10/20/2015 10/20/2015
 Heated Purge: (Y/N) N Init. Calib. Time(s): 11:16 17:10
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.072	2.158		4.13	30
Chloromethane	0.683	0.702		2.78	30
Vinyl Chloride	0.719	0.742		3.26	30
Bromomethane	0.516	0.540		4.59	30
Chloroethane	0.302	0.316		4.81	30
Tetrahydrofuran	0.327	0.329		0.49	30
Trichlorofluoromethane	2.033	2.153		5.89	30
1,1,2-Trichlorotrifluoroethane	1.388	1.456		4.9	30
Dichlorotetrafluoroethane	1.781	1.781		0	30
Bromoethene	0.586	0.612		4.49	30
tert-Butyl alcohol	1.006	1.201		19.39	30
Heptane	1.984	2.003		0.93	30
1,1-Dichloroethene	0.627	0.671		7.07	30
Acetone	1.472	1.281		-13.01	30
Carbon Disulfide	1.763	1.904		8.01	30
Methyl tert-Butyl Ether	2.507	2.536		1.16	30
Methylene Chloride	0.587	0.602		2.43	30
trans-1,2-Dichloroethene	0.808	0.843		4.31	30
1,1-Dichloroethane	1.712	1.751		2.28	30
Cyclohexane	1.379	1.383		0.24	30
2-Butanone	0.565	0.553		-2.14	30
Carbon Tetrachloride	0.762	0.739		-3.03	30
cis-1,2-Dichloroethene	1.252	1.301		3.92	30
Chloroform	2.002	2.058		2.82	30
1,1,1-Trichloroethane	2.219	2.199		-0.9	30
2,2,4-Trimethylpentane	1.649	1.573		-4.63	30
Benzene	1.018	0.998		-2	30
1,2-Dichloroethane	0.524	0.537		2.6	30
Trichloroethene	0.494	0.416		-15.73	30
1,2-Dichloropropane	0.358	0.359		0.22	30
Bromodichloromethane	0.753	0.758		0.62	30
4-Methyl-2-Pentanone	0.763	0.791		3.68	30
Toluene	1.385	1.364		-1.54	30
t-1,3-Dichloropropene	0.578	0.612		5.86	30
cis-1,3-Dichloropropene	0.677	0.701		3.53	30
1,1,2-Trichloroethane	0.450	0.457		1.51	30
Dibromochloromethane	0.733	0.749		2.18	30
1,2-Dibromoethane	0.696	0.702		0.8	30
Tetrachloroethene	0.584	0.466		-20.15	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.: G4128 SAS No.: G4128 SDG No.: G4128
 Instrument ID: MSVOA_L Calibration Date/Time: 10/21/2015 09:44
 Lab File ID: VL026233.D Init. Calib. Date(s): 10/20/2015 10/20/2015
 Heated Purge: (Y/N) N Init. Calib. Time(s): 11:16 17:10
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.957	0.869		-9.19	30
Ethyl Benzene	1.621	1.514		-6.55	30
m/p-Xylene	1.269	1.155		-8.96	30
o-Xylene	1.326	1.187		-10.54	30
Styrene	0.600	0.597		-0.57	30
Bromoform	0.619	0.625		0.92	30
1,1,2,2-Tetrachloroethane	0.877	0.776		-11.6	30
2-Chlorotoluene	1.359	1.274		-6.23	30
1,3,5-Trimethylbenzene	1.439	1.338		-6.97	30
1,2,4-Trimethylbenzene	1.492	1.302		-12.73	30
1,3-Dichlorobenzene	0.975	0.880		-9.73	30
1,4-Dichlorobenzene	1.018	0.925		-9.18	30
1,2-Dichlorobenzene	0.983	0.893		-9.16	30
1,2,4-Trichlorobenzene	0.633	0.550		-13.04	30
Hexachloro-1,3-Butadiene	0.504	0.379		-24.7	30
1,3-Butadiene	0.657	0.665		1.23	30
Naphthalene	1.315	1.207		-8.15	30
4-Ethyltoluene	1.543	1.455		-5.73	30
1-Bromo-4-Fluorobenzene	0.771	0.742		-3.77	30
Hexane	1.379	1.354		-1.85	30
Allyl Chloride	0.961	1.024		6.55	30
1,4-Dioxane	67.313	72.326		7.45	30
Methyl Methacrylate	0.371	0.385		3.75	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.: G4128 SAS No.: G4128 SDG No.: G4128
 Instrument ID: MSVOA_L Calibration Date/Time: 10/22/2015 17:19
 Lab File ID: VL026253.D Init. Calib. Date(s): 10/20/2015 10/20/2015
 Heated Purge: (Y/N) N Init. Calib. Time(s): 11:16 17:10
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.072	2.187		5.55	30
Chloromethane	0.683	0.726		6.21	30
Vinyl Chloride	0.719	0.750		4.27	30
Bromomethane	0.516	0.547		5.97	30
Chloroethane	0.302	0.326		8.12	30
Tetrahydrofuran	0.327	0.350		6.97	30
Trichlorofluoromethane	2.033	2.175		6.97	30
1,1,2-Trichlorotrifluoroethane	1.388	1.442		3.88	30
Dichlorotetrafluoroethane	1.781	1.837		3.14	30
Bromoethene	0.586	0.617		5.33	30
tert-Butyl alcohol	1.006	1.054		4.74	30
Heptane	1.984	2.047		3.16	30
1,1-Dichloroethene	0.627	0.666		6.26	30
Acetone	1.472	1.297		-11.88	30
Carbon Disulfide	1.763	1.868		5.98	30
Methyl tert-Butyl Ether	2.507	2.538		1.24	30
Methylene Chloride	0.587	0.605		2.91	30
trans-1,2-Dichloroethene	0.808	0.851		5.28	30
1,1-Dichloroethane	1.712	1.770		3.43	30
Cyclohexane	1.379	1.390		0.78	30
2-Butanone	0.565	0.584		3.27	30
Carbon Tetrachloride	0.762	0.754		-0.97	30
cis-1,2-Dichloroethene	1.252	1.315		5.06	30
Chloroform	2.002	2.073		3.58	30
1,1,1-Trichloroethane	2.219	2.178		-1.88	30
2,2,4-Trimethylpentane	1.649	1.637		-0.75	30
Benzene	1.018	1.037		1.88	30
1,2-Dichloroethane	0.524	0.566		8	30
Trichloroethene	0.494	0.423		-14.31	30
1,2-Dichloropropane	0.358	0.373		4.13	30
Bromodichloromethane	0.753	0.782		3.84	30
4-Methyl-2-Pentanone	0.763	0.825		8.15	30
Toluene	1.385	1.395		0.71	30
t-1,3-Dichloropropene	0.578	0.613		6	30
cis-1,3-Dichloropropene	0.677	0.709		4.76	30
1,1,2-Trichloroethane	0.450	0.468		3.93	30
Dibromochloromethane	0.733	0.749		2.14	30
1,2-Dibromoethane	0.696	0.714		2.48	30
Tetrachloroethene	0.584	0.467		-20.08	30

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

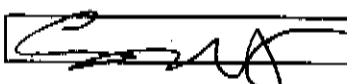
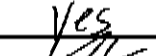
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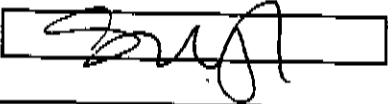
Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: G4128 SAS No.: G4128 SDG No.: G4128
 Instrument ID: MSVOA_L Calibration Date/Time: 10/22/2015 17:19
 Lab File ID: VL026253.D Init. Calib. Date(s): 10/20/2015 10/20/2015
 Heated Purge: (Y/N) N Init. Calib. Time(s): 11:16 17:10
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.957	1.013		5.86	30
Ethyl Benzene	1.621	1.761		8.69	30
m/p-Xylene	1.269	1.349		6.3	30
o-Xylene	1.326	1.373		3.51	30
Styrene	0.600	0.683		13.85	30
Bromoform	0.619	0.610		-1.57	30
1,1,2,2-Tetrachloroethane	0.877	0.906		3.29	30
2-Chlorotoluene	1.359	1.468		8.05	30
1,3,5-Trimethylbenzene	1.439	1.545		7.42	30
1,2,4-Trimethylbenzene	1.492	1.515		1.59	30
1,3-Dichlorobenzene	0.975	1.009		3.53	30
1,4-Dichlorobenzene	1.018	1.060		4.11	30
1,2-Dichlorobenzene	0.983	1.017		3.48	30
1,2,4-Trichlorobenzene	0.633	0.570		-9.88	30
Hexachloro-1,3-Butadiene	0.504	0.387		-23.19	30
1,3-Butadiene	0.657	0.672		2.29	30
Naphthalene	1.315	1.226		-6.74	30
4-Ethyltoluene	1.543	1.672		8.33	30
1-Bromo-4-Fluorobenzene	0.771	0.743		-3.63	30
Hexane	1.379	1.369		-0.78	30
Allyl Chloride	0.961	1.013		5.42	30
1,4-Dioxane	67.313	86.653		28.73	30
Methyl Methacrylate	0.371	0.397		7.04	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 : 81509083			Courier :			_____ of _____ COCs												
Client ID : ENV127			Project ID : Frost Street Sites / SPGL 100.03			Sampler Name(s) :			Analysis												
Customer Name : Envirotrac Environmental Services Address : 5 Old Dock Road City : Yaphank State : NY Zip Code : 11980 Country :			Project Manager JAMES WILKINSON			AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified			Matrix												
			Phone Number : 631-924-3001																		
			Fax Number : 6319245001																		
			Site Details:																		
			Analysis Turnaround Time																		
Standard : 15 business days OR			Data Package Type :																		
Rush (Specify): _____ Days			EDD Type :																		
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15					Indoor/Ambient Air	Soil Gas
INF	10/1/15	0810						-30	-8.4	NR	10792	1.4 L	NA	VL025408.D	X						
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 											
		Ambient		Maximum		Minimum															
Start																					
Stop																					
Pressure (Inches of Hg)										** 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																					
Special Instructions/QC Requirements & Comments :																					
Suspected Contamination: High Medium Low PID Readings:																					
Sampling site (State):																					
Quick Connector required : Yes																					
Canisters Shipped by: 		Date/Time: 9/22/15		Canisters Received by: 		Date/Time: 10-1-15 10:20															
Samples Relinquished by: 		Date/Time: 10/1/15 0850		Received by:		Date/Time:															
Relinquished by:		Date/Time:		Received by:		Date/Time:															
81509083 -																					

Client Contact Information										Bottle Order ID : B1509083										Courier :										_____ of _____ COCs																			
Client ID : ENV127										Project ID : Frost Street Sites / SPGL 100.03										Sampler Name(s) :										Analysis										Matrix									
Customer Name : Envirotrac Environmental Services										Project Manager JAMES WILKINSON										AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified										TO-15 Indoor/Ambient Air Soil Gas																			
Address : 5 Old Dock Road										Phone Number : 631-924-3001																																							
City : Yaphank										Fax Number : 6319245001																																							
State : NY										Site Details:																																							
Zip Code : 11980										Analysis Turnaround Time										Data Package Type :																													
Country :										Standard : 15 business days OR										EDD Type :																													
Rush (Specify): Days																																																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID																																			
EFF	10/15	0800						-30	-63	NR	10734	1.4 L	NA	VL025408.D																																			
Temperature (Fahrenheit) Ambient Maximum Minimum Start Stop										GC/MS Analyst Signature (TO-15) 																																							
Pressure (Inches of Hg) Ambient Maximum Minimum Start Stop										** Submittal of this COC indicates approval of the analysis based on existing condition Please follow the instructions on the back of this CO																																							
Special Instructions/QC Requirements & Comments :																																																	
Suspected Contamination: High Medium Low PID Readings:																																																	
Sampling site (State):																																																	
Quick Connector required : yes																																																	
Canisters Shipped by: 										Date/Time: 9/24/15										Canisters Received by: C. Peña										Date/Time: 10-26-15/10:25																			
Samples Relinquished by: 										Date/Time: 10/15/15 0630										Received by:										Date/Time:																			
Relinquished by:										Date/Time:										Received by:										Date/Time:																			
B1509083 - 3																																																	

ENVIROTRAC NY
631-924-3001
5 OLD DOCK ROAD
YAPHANK NY 11980

3 LBS

1 OF 1

SHIP TO:

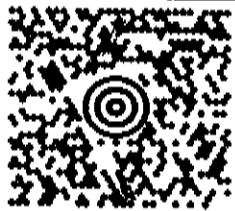
ATTN: SAMPLE MANAGEMENT
908-789-8900

CHEMTECH

284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092-2319

C. Peño
10-21-15
10:25
19°C

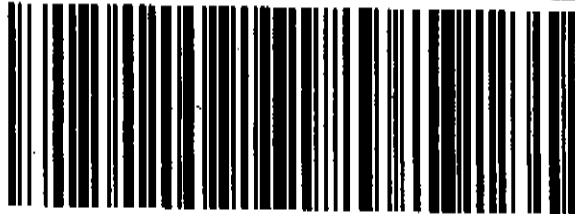


NJ 078 9-61



UPS GROUND

TRACKING #: 1Z 12X 822 03 9833 6002



BILLING: P/P

Reference#1: 01.990969.00/72.0000

US 17.6.02.

WNINVS0 69.0A 10/2015



TM



284 Sheffield Street Mountainside NJ 07092 Tel. 908-7898900

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Connecticut	PH-0649
Florida	E87935
Louisiana	5035
Maryland	296
Massachusetts	M-NJ503
Pennsylvania	68-548
Rhode Island	LAO00259
Virginia	460220
Texas	T10470448-10-1

Other :

DOD ELAP Certified (L-A-B Accredited), ISO/IEC 17025	L2219
Soil Permit	P330-11-00012
CLP Inorganic Contract	EPW09038
CLP Organic Contract	EPW11030

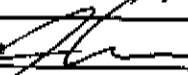
QA Control Code: A2070148

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: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
ORIGINAL		Title: <u>Sample Custodian</u>	
Field Sample Seal No.: <u>G4128</u>		Date Broken: <u>10/21/2015</u>	Military Time Seal Broken: <u>10:25:00</u>
Case No.: <u>Frost Street Sites / SPGL 1</u>		Analytical Parameter/Fraction: <u>TO-15</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
G4128-01	INF		
G4128-02	EFF		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
10/21/15		Signature		Signature		AIR LABS
		Printed Name	GARY VIGNOLA	Printed Name	J. MALONE	
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		

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